

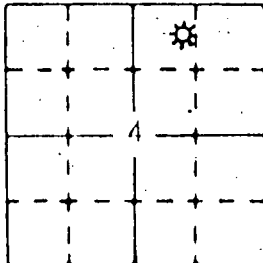
150

GEOLOGICAL WELL LOG

OPERATOR THE ANSCHUTZ CORPORATION ELEV KB 6169'

WELL FEDERAL 104 NO. 1 ELEV GR 6159'

LOCATION NW NE SEC 4 TWP 20 S RGE 21 E



COUNTY GRAND STATE UTAH

CONTRACTOR PEASE DRILLING CO RIG NO 1

SPUD April 29, 1978 COMPLETED Final Test N. A. STATUS GAS WELL

LOG TO 4329' DRILLER TO 4320'

CASING 8 5/8 at 319 with 235 sacks

4 1/2 at 4119 with 300 sacks

REMARKS: Sample quality very poor in Dakota & Cedar Mtn. Fair to good from Morrison to Entrada.

PEASE

Schlumberger

DUAL INDUCTION LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD or WILDCAT LOCATION FEDERAL 104-1 WELL COMPANY ANSCHUTZ CORP	COMPANY	THE ANSCHUTZ CORP
	WELL	FEDERAL 104-1
	FIELD	WILDCAT
	COUNTY	GRAND STATE UTAH
Location: 500FNL API Serial No. 1400FEL		Other Services: FDC-CNL-GR
Sec. 4 Twp. 20S Rge. 21E 2		150

Permanent Datum: GL	Elev.: 6159	Elev.: K.B. 6169
Log Measured From KB	10 Fr. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 6159

Date	5-10-78			
Run. No.	ONE			
Depth-Driller	4320			
Depth-Logger	4329			
Bit. Log Interval	4323 29.1			
Top Log Interval	322			
Casing-Driller	8 5/8 @ 319	@	@	@
Casing-Logger	322			
Bit. Size	7 7/8			
Type Fluid in Hole	FGM			
Fluid Level	FULL			
Dens.	Visc.	--	--	
pH	Fluid Loss	--	-- ml	ml ml ml
Source of Sample	CIRCULATED			
R _m @ Meas. Temp.	1.06 @ 67°F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.822 @ 67°F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.59 @ 67°F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M C			
R _m @ BHT	0.60 @ 120°F	@ °F	@ °F	@ °F
Time Since Circ.	3 HOURS			
Max. Rec. Temp.	120°F	°F	°F	°F
Equip. Location	5642 G.J.			
Recorded By	LAUDE			
Witnessed By	POWELL			

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION BULL CANYON WELL MULL FED. 14-4 COMPANY PETRO-LEWIS CORP.	COMPANY	PETRO-LEWIS CORPGRATION		
	WELL	MULL FEDERAL 14-4		
	FIELD	BULL CANYON		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	SE-SW	14	Other Services: FDC-GR 151
	Sec. 4	Twp. 20S		

Permanent Datum: GL _____, Elev. 5752	Elev.: K.B. 5760
Log Measured From K.B. _____, 8 Ft. Above Perm. Datum	D.F. 5759
Drilling Measured From K.B. _____	G.L. 5752

Date	9-4-72				
Run No.	ONE				
Depth—Driller	3600				
Depth—Logger	3593				
Btm. Log Interval	3592 ^{31.0}				
Top Log Interval	1600				
Casing—Driller	8-5/8 @220	@	@	@	@
Casing—Logger	---				
Bit Size	7-7/8				
Type Fluid in Hole	F.G.M.				
Dens.	Visc.	8.9	40		
pH	Fluid Loss	9.0	6.4 ml	ml	ml
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	1.78@ 67°F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.67@ 67°F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	—			
R _m @ BHT	— @ — °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HRS.				
Max. Rec. Temp.	124 °F	°F	°F	°F	°F
Equip. Location	5619 FARM				
Recorded By	BARGHOUTI				
Witnessed By	WONDERLY				

This well was located and drilled under reference to the Schlumberger well logs and reports.

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BULL CANYON #1 COMPANY TOLEDO MINING	COMPANY _____	TOLEDO MINING COMPANY
	WELL _____	BULL CANYON #1
	FIELD _____	WILDCAT
	COUNTY _____ STATE _____	GRAND UTAH
LOCATION SE-NW Sec. 4 Twp. 20S Rge. 21E		Other Services: FDC-GR GR-N 152

Permanent Datum: _____	GL _____, Elev. 5967	Elev.: K.B. 5977
Log Measured From _____	KB, 10 Ft. Above Perm. Datum	D.F. ----
Drilling Measured From _____	KB	G.I. 5967

Date	1-23-72				
Run No.	ONE				
Depth—Driller	4071				
Depth—Logger	4063				
Btm. Log Interval	4062 42.2				
Top Log Interval	240				
Casing—Driller	8 5/8@226		@	@	@
Casing—Logger	240				
Bit Size	7 7/8"				
Type Fluid in Hole	FRESH GEL MUD				
Dens.	Visc.	9.2	42		
pH	Fluid Loss	8.5	5.0ml	ml	ml
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	1.86 @ 78 °F		@	°F	@ °F
R _{mf} @ Meas. Temp.	2.12 @ 78 °F		@	°F	@ °F
R _{mc} @ Meas. Temp.	---- @ -- °F		@	°F	@ °F
Source: R _{mf} R _{mc}	M --				
R _m @ BHT	0.95 @ 145 °F		@	°F	@ °F
Time Since Circ.	24 HOURS				
Max. Rec. Temp.	145 °F		°F	°F	°F
Equip. Location	5640 VERNAL				
Recorded By	MIXA				
Witnessed By	QUIGLEY				

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DUAL INDUCTION - LATEROLOG

WITH LINEAR CORRELATION LOG

COMPANY THE ANSCHUTZ CORPORATION

WELL FEDERAL No. 675-2

FIELD CISCO DOME

COUNTY GRAND STATE UTAH

COUNTY
FIELD or
LOCATION
WELL
COMPANY

Location. API Serial No. 1141 FNL & 859 FEL
Sec. 9 Twp. 20S Rge. 21E *NE/NE*

Other Services:
FDC/CNL
344

Permanent Datum: GROUND LEVEL; Elev.: 5694
Log Measured From 1CB, 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5704
D.F. -
G.L. 5694

Date	<u>24 MAY 1978</u>						
Run No.	<u>ONE</u>						
Depth-Driller	<u>3328</u>						
Depth-Logger	<u>3296</u>						
Btm. Log Interval	<u>3290</u>	<u>327</u>					
Top Log Interval	<u>222</u>						
Casing-Driller	<u>8 5/8 @ 220</u>	@	@	@			
Casing-Logger	<u>222</u>						
Bit Size	<u>7 7/8</u>						
Type Fluid in Hole	<u>FGM</u>						
Fluid Level	<u>917</u>						
Dens.	Visc.	<u>NA</u>	<u>NA</u>				
pH	Fluid Loss	<u>NA</u>	<u>NA</u> ml	ml	ml	ml	
Source of Sample	<u>MUDPIT</u>						
Rm @ Meas. Temp.	<u>- @ -</u> °F	@	°F	@	°F	@	°F
Rmf @ Meas. Temp.	<u>3.32 @ 70</u> °F	@	°F	@	°F	@	°F
Rmc @ Meas. Temp.	<u>- @ -</u> °F	@	°F	@	°F	@	°F
Source: Rmf	Rmc	<u>M</u>	<u>-</u>				
Rmf @ BHT	<u>- @ -</u> °F	@	°F	@	°F	@	°F
Time Since Circ.	<u>2 HOURS</u>						
Max. Rec. Temp.	<u>110</u> °F		°F		°F		°F
Equip.	Location	<u>5642</u>	<u>GJ</u>				
Recorded By	<u>LAUDE</u>						
Witnessed By	<u>MR. GUY EDWARDS & MR. WAYNE POWELL</u>						

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

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COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY	GRAND	FIELD	BULL CANYON	LOCATION	BULL CANYON NO. 3	WELL	BULL CANYON NO. 3	COMPANY	VALWOOD PROD. CO.
COMPANY VALWOOD PRODUCTION COMPANY									
WELL BULL CANYON NO. 3									
FIELD BULL CANYON									
COUNTY GRAND STATE UTAH									
LOCATION NW-NE								Other Services:	
								DIL	
								153	
API SERIAL NO		SEC.		TWP		RANGE			
		9		20S		21E			

Permanent Datum:	GL	Elev.:	6060
Log Measured From:	KB	10	Fi. Above Perm. Datum
Drilling Measured From:	KB	Elev.:	K.B. 6070
		D.F.:	
		G.L.:	6060

Date	12-22-74		
Run No.	ONE		
Depth-Driller	3850		
Depth-Logger	3835		
Btm. Log Interval	3834	3A	
Top Log Interval	3000		
Casing-Driller	7-5/8@	224	@ @ @
Casing-Logger	234		
Bit Size	6-1/2		
Type Fluid in Hole	FGM		
Dens.	8.8	85	
pH	Fluid Loss	ml	ml ml ml ml
Source of Sample	PIT		
Rm @ Meas. Temp.	2.65 @72	°F	@ °F @ °F @ °F
Rmf @ Meas. Temp.	2.04 @80	°F	@ °F @ °F @ °F
Rmc @ Meas. Temp.	@	°F	@ °F @ °F @ °F
Source: Rmf Rmc	M		
Rm @ BHT	@	°F	@ °F @ °F @ °F
TIME	Circulation Stopped		
	Logger on Bottom		
	2 HOURS		
Max. Rec. Temp.	118	°F	°F °F °F
Equip.	5602	GJ	
Location			
Recorded By	BARGHOUTI		
Witnessed By Mr.	QUITGLEY		

The well name, location and borehole reference data were furnished by the customer.

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SIMULTANEOUS
 COMPENSATED NEUTRON
 FORMATION DENSITY

COUNTY GRAND FIELD CALF CANYON LOCATION NW NE WELL CALF CANYON #6 COMPANY PEASE OIL & GAS CO	COMPANY PEASE OIL & GAS CO			
	WELL CALF CANYON #6			
	FIELD CALF CANYON			
	COUNTY GRAND		STATE UTAH	
	LOCATION	NW NE		
API SERIAL NO.	SEC. 10	TWP. 20S	RANGE 21E	Other Services: IES 154

Permanent Datum: GL	Elev.: 5645	Elev.: K.B. 5656
Log Measured From KB	11 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.I. 5645

Date	1-10-78					
Run No.	ONE					
Depth-Driller	3491					
Depth-Logger	3507					
Btm. Log Interval	3506 <i>z.p.</i>					
Top Log Interval	2250					
Casing-Driller	8 5/8 @	169	@	@	@	@
Casing-Logger	171					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	9.0	40				
Visc.						
pH	--	-- ml		ml	ml	ml
Fluid Loss						
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	2.40 @	60F	@	@	@	@
Rmf @ Meas. Temp.	1.65 @	60F	@	@	@	@
Rmc @ Meas. Temp.	3.60 @	60F	@	@	@	@
Source: Rmf	M	C				
Rmc						
Rm @ BHT	1.31 @	110F	@	@	@	@
Circulation Stopped	0800					
Logger on Bottom	2000					
Max. Rec. Temp.	110F			°F	°F	°F
Equip. Location	7759	G.J.				
Recorded By	BRATTON					
Witnessed By Mr.	QUIGLEY					

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD CALF CANYON LOCATION 11-20S-21E WELL CALF CANYON #5 COMPANY PEASE OIL & GAS	COMPANY	PEASE OIL & GAS CO	
	WELL	CALF CANYON NO. 5	
	FIELD	CALF CANYON	
	COUNTY	GRAND STATE UTAH	
	LOCATION	SE/NE	
Other Services: FDC-CNL-GR <i>ea-9 155</i>			
API SERIAL NO.	SEC. 11	TWP 20S	RANGE 21E

Permanent Datum:	GL	Elev.: 5505	Elev.: K.B. 5516
Log Measured From	KB	11 Ft. Above Perm. Datum	D.F. --
Drilling Measured From	KB		G.L. 5505

Date	6-3-78					
Run No.	ONE					
Depth-Driller	3325					
Depth-Logger	3325					
Btm. Log Interval	3319	<i>36.2</i>				
Top Log Interval	172					
Casing-Driller	8 5/8	@	171	@	@	@
Casing-Logger	172					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	Visc.	--	--			
pH	Fluid Loss	--	--ml	ml	ml	ml
Source of Sample	CIRCULATED					
Rm @ Meas. Temp.	3.41	@	78°F	@	@	@
Rmf @ Meas. Temp.	3.80	@	78°F	@	@	@
Rmc @ Meas. Temp.	5.13	@	78°F	@	@	@
Source: Rmf	Rmc	M	C			
Rm @ BHT	2.30	@	117°F	@	@	@
TIME	Circulation Stopped	2030 (2)				
	Logger on Bottom	0100 (3)				
	Max. Rec. Temp.	117°F		°F	°F	°F
Equip.	Location	5642	G.J.			
Recorded By	LAUDE					
Witnessed By	DON QUIGLEY					

The well name, location and borehole reference data were furnished by the customer.

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COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY GRAND
FIELD CISCO DOME
LOCATION FEDERAL 13 1
WELL
COMPANY UNITED ENERGY

COMPANY UNITED ENERGY

WELL FEDERAL 13 1

FIELD CISCO DOME

COUNTY GRAND STATE UTAH

DUPLICATE COPY

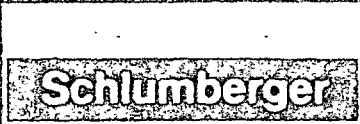
LOCATION	820' FSL & 600' FWL		
API SERIAL NO.	SEC.	TWP.	RANGE
	13	20S	21E

Other Services:
DIL
156

Permanent Datum: G.L. ; Elev.: 5235
Log Measured From K.B. 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 5241
D.F. -
G.L. 5235

Date	5/26/77			
Run No.	ONE			
Depth-Driller	2995			
Depth-Logger	2990			
Btm. Log Interval	2988 21.4			
Top Log Interval	1800			
Casing-Driller	8 5/8 179	@	@	@
Casing-Logger	179			
Bit Size	6 1/2			
Type Fluid in Hole	KCL GEL			
Dens.	9.5	40		
Visc.				
pH	11.0	7.0 ml	ml	ml
Fluid Loss				
Source of Sample	CIRC			
Rm @ Meas. Temp.	1.02 @ 68 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.84 @ 65 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	CELL			
Rm @ BHT	.073 @ 96 °F	@ °F	@ °F	@ °F
TIME				
Circulation Stopped	0400/26			
Logger on Bottom	0400/27			
Max. Rec. Temp.	96 °F	°F	°F	°F
Equip. Location	7759 G.J.			
Recorded By	THOMPSON			
Witnessed By Mr.	GORDON			



DUAL INDUCTION-LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD or LOCATION CISCO DOME WELL FEDERAL 14-1 COMPANY N-P ENERGY CORP	COMPANY <u>N-P ENERGY CORP</u>
	WELL <u>FEDERAL 14-1</u>
	FIELD <u>CISCO DOME</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
Location: <u>NWNW 660FNL 660FWL</u> API Serial No. <u>4</u> Sec. <u>14</u> Twp. <u>20S</u> Rge. <u>21E</u>	
Other Services: <u>FDC-CNL-GR TAPING</u> <u>157</u>	

Permanent Datum: <u>GL</u> ; Elev.: <u>5371</u>	Elev.: K.B. <u>5381</u>
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum	D.F. <u>--</u>
Drilling Measured From <u>KB</u>	G.I. <u>5371</u>

Date	<u>3-22-78</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>2556</u>					
Depth-Logger	<u>2546</u>					
Btm. Log Interval	<u>2540</u>	<u>36'</u>				
Top Log Interval	<u>161</u>					
Casing-Driller	<u>8 5/8@</u>	<u>155</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>161</u>					
Bit Size	<u>7 7/8</u>					
Type Fluid in Hole	<u>FGM</u>					
Fluid Level	<u>200</u>					
Dens.	Visc.	<u>--</u>	<u>--</u>			
pH	Fluid Loss	<u>--</u>	<u>--ml</u>	<u>.ml</u>	<u>ml</u>	<u>ml</u>
Source of Sample	<u>MUDTANK</u>					
R _m @ Meas. Temp.	<u>1.68@</u>	<u>63°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
R _{mf} @ Meas. Temp.	<u>1.55@</u>	<u>63°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
R _{mc} @ Meas. Temp.	<u>2.52@</u>	<u>63°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
Source: R _{mf}	R _{mc}	<u>M</u>	<u>C</u>			
R _m @ BHT	<u>1.01@</u>	<u>105°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>
Time Since Circ.	<u>LOST CIRC</u>					
Max. Rec. Temp.	<u>105°F</u>			<u>°F</u>	<u>°F</u>	<u>°F</u>
Equip.	Location	<u>5642</u>	<u>4111</u>			
Recorded By	<u>BRATTON</u>					
Witnessed By	<u>GORDON</u>					

The well name, location and borehole reference data were furnished by the customer.

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SIMULTANEOUS

COMPENSATED NEUTRON FORMATION DENSITY

COUNTY GRAND
 FIELD CISCO SPRINGS
 LOCATION NENE 647FNL 747FWL
 WELL FEDERAL 14-1A
 COMPANY N.P. ENERGY CORP

COMPANY N.P. ENERGY
 WELL FEDERAL 14-1A
 FIELD CISCO DOME
 COUNTY GRAND STATE UTAH

LOCATION NE-NE NWNW
 647'FNL 747FWL
 API SERIAL NO. SEC. TWP. RANGE
 14 20S 21E

Other Services:
 DIL
 345

Permanent Datum: GL, Elev.: 5369
 Log Measured From KB, 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 5379
 D.F. --
 G.I. 5369

Date	4-27-78				
Run No.	ONE				
Depth-Driller	3229				
Depth-Logger	3231				
Btm. Log Interval	3230 41.2				
Top Log Interval	1725				
Casing-Driller	10 3/4 @ 269	@	@	@	@
Casing-Logger	--				
Bit Size	8 3/4				
Type Fluid in Hole	FGM				
Dens.	9.4	52			
Visc.	--	--ml	ml	ml	ml
pH					
Fluid Loss					
Source of Sample	MUDTANK				
Rm @ Meas. Temp.	1.96 @ 61°F	@	@	@	@
Rmf @ Meas. Temp.	1.47 @ 61°F	@	@	@	@
Rmc @ Meas. Temp.	-- @ --°F	@	@	@	@
Source: Rmf Rmc	C --				
Rm @ BHT	.96 @ 124°F	@	@	@	@
Circulation Stopped	0300 4-27				
Logger on Bottom	1000 4-27				
Max. Rec. Temp.	124°F	°F	°F	°F	°F
Equip. Location	7759 G.J.				
Recorded By	GRTAYLOR				
Witnessed By Mr.	HAYES				

The well name, location and borehole reference data were furnished by the customer.

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OIL & GAS CO.
Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO DOME WELL TERTELING GOVINT #1 COMPANY ADAK ENERGY CORP.	COMPANY <u>ADAK ENERGY CORP.</u> <i>P&A</i>
	WELL <u>TERTELING GOVERNMENT # 1</u>
	FIELD <u>CISCO DOME</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
LOCATION <u>S W S W 1/4</u> Sec. <u>22</u> Twp. <u>20S</u> Rge. <u>21E</u>	Other Services: <u>IES</u> <u>158</u>

Permanent Datum: <u>GROUND LEVEL</u> , Elev. <u>5281</u>	Elev.: K.B. <u>529D</u>
Log Measured From <u>KB</u> <u>10</u> Ft. Above Perm. Datum	D.F. <u>----</u>
Drilling Measured From <u>KB</u>	G.L. <u>5281</u>

Date	12-21-73			
Run No.	ONE			
Depth—Driller	3251			
Depth—Logger	3236			
Btm. Log Interval	3230 <i>39.5</i>			
Top Log Interval	156			
Casing—Driller	7 @157	@	@	@
Casing—Logger	156			
Bit Size	6 1/4			
Type Fluid in Hole	GEL			
Dens.	9.2	80		
pH	9.5	5 ml	ml	ml
Source of Sample	FLOWLINE			
R _m @ Meas. Temp.	.204 @ 66 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.124 @ 66 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M C			
R _m @ BHT	.115 @ 12 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	1210 °F	°F	°F	°F
Equip. Location	5639 VERN			
Recorded By	HENDERSON			
Witnessed By	SLINKARD			

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

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COMPENSATED NEUTRON FORMATION DENSITY

COUNTY GRAND FIELD CISCO DOME LOCATION SW 1/4 NE 1/4 WELL FEDERAL #23-1 COMPANY N-P ENERGY	COMPANY <u>N-P ENERGY</u>		
	WELL <u>FEDERAL #23-1</u>		
	FIELD <u>CISCO DOME</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
	LOCATION	<u>SW 1/4 NE 1/4</u>	
API SERIAL NO.	SEC.	TWP.	RANGE
	<u>23</u>	<u>20S</u>	<u>21E</u>

Permanent Datum: GL, Elev.: 5209
 Log Measured From KB, 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 5219
 D.F. --
 G.L. 5209

Date	<u>1-14-78</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>2915</u>					
Depth-Logger	<u>2923</u>					
Btm. Log Interval	<u>2922</u>	<u>35.6</u>				
Top Log Interval	<u>1500</u>					
Casing-Driller	<u>8 5/8</u>	<u>@ 160</u>		<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>--</u>					
Bit Size	<u>7 7/8</u>					
Type Fluid in Hole	<u>FRESH MUD</u>					
Dens.	Visc.	<u>8.8</u>	<u>120</u>			
pH	Fluid Loss	<u>10.5</u>	<u>7.8ml</u>		ml	ml
Source of Sample	<u>FLOWLINE</u>					
Rm @ Meas. Temp.	<u>.70</u>	<u>@ 76°F</u>		<u>@</u>	<u>°F</u>	<u>@</u>
Rmf @ Meas. Temp.	<u>.67</u>	<u>@ 76°F</u>		<u>@</u>	<u>°F</u>	<u>@</u>
Rmc @ Meas. Temp.	<u>--</u>	<u>@ --°F</u>		<u>@</u>	<u>°F</u>	<u>@</u>
Source: Rmf	Rmc	<u>M</u>	<u>--</u>			
Rm @ BHT		<u>@ 108°F</u>		<u>@</u>	<u>°F</u>	<u>@</u>
TIME	Circulation Stopped	<u>1-14 1400</u>				
	Logger on Bottom	<u>1-14 1800</u>				
	Max. Rec. Temp.	<u>108°F</u>			<u>°F</u>	<u>°F</u>
	Equip.	Location	<u>7759 G.J.</u>			
	Recorded By.	<u>POVICH</u>				
	Witnessed By Mr.	<u>FARRINGTON</u>				

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND FIELD or CISCO DOME LOCATION SEC. 24-20S-21E WELL UNIGN-GOVERNMENT #2-1 COMPANY CABEEN EXPLORATION CORPORATION	COMPANY CABEEN EXPLORA-	Other Surveys
	TION CORPORATION	ML
	WELL UNIGN-GOVERNMENT	Location of Well
	#2-1	
	FIELD CISCO DOME	
LOCATION SEC. 24-20S-21E/2		Elevation: D.F.: _____
C NW SW		K.B.: 5120
COUNTY GRAND		or G.L.: 5109
STATE UTAH		FILING No. 577/160

RUN No.	ONE				
Date	8-31-57				
First Reading	2549 ^{56.5}				
Last Reading	167				
Feet Measured	2382				
Csg. Schlum.	167				
Csg. Driller	168				
Depth Reached	2554				
Bottom Driller	2552				
Depth Datum	K.B.				
Mud Nat.	CHEM. GEL				
Dens. Visc.	8.7 45				
Mud Resist.	6.0 @ 75 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	3.5 @ 130 °F	@ °F	@ °F	@ °F	@ °F
Rmf	0.8 @ 130 °F	@ °F	@ °F	@ °F	@ °F
Rmc	1.31 @ 130 °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	2.7 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
IND.	40"				
	27'7"				
Opr. Rig Time	2 HRS.				
Truck No.	1523 GJ				
Recorded By	NIXA				
Witness	HUDSON				

Schlumberger

COMPENSATED NEUTRON
FORMATION DENSITY

COUNTY GRAND FIELD CISCO DOME LOCATION 660FSL 1980FEL WELL FEDERAL NO. 24-3 COMPANY N.P. ENERGY CORP	COMPANY N.P. ENERGY CORP			
	WELL FEDERAL NO. 24-3			
	FIELD CISCO DOME			
	COUNTY GRAND		STATE UTAH	
	LOCATION 660FSL 1980FEL SW/SE		Other Services: DIL	
API SERIAL NO.	SEC.	TWP.	RANGE	346
	24	20S	21E	

Permanent Datum: GL	Elev.: 5106	Elev.: K.B. 5116
Log Measured From KB	10 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 5106

Date	4-11-78			
Run No.	ONE			
Depth-Driller	2783			
Depth-Logger	2783			
Btm. Log Interval	2781 32.1			
Top Log Interval	1400			
Casing-Driller	8 5/8 @ 150	@	@	@
Casing-Logger	151			
Bit Size	7 7/8			
Type Fluid in Hole	FGM			
Dens.	Visc.	--	--	
pH	Fluid Loss	--	-- ml	ml ml ml ml
Source of Sample	MUDPIT			
Rm @ Meas. Temp.	1.09 @ 72F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.96 @ 67F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.63 @ 72F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M	C	
Rm @ BHT	0.75 @ 100F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	2100 (11)		
	Logger on Bottom	0100 (12)		
Max. Rec. Temp.	100F	°F	°F	°F
Equip.	Location	5642	G.J.	
Recorded By	LAUDE			
Witnessed By Mr.	GORDON			

The well name, location and borehole reference data were furnished by the customer.

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INDUCTION ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO DOME WELL FED 24 1 COMPANY UNITED ENERGY	COMPANY	UNITED ENERGY		
	WELL	FEDERAL 24-1		
	FIELD	CISCO DOME		
	COUNTY	GRAND	STATE	UTAH
LOCATION:		API Serial No.	Other Services: 161	
659' FNL, 1981 FWL			FDC-CNL/GR	
Sec. 24 Twp. 20S Rge. 21E 2				

Permanent Datum: <u>G.L.</u> ; Elev.: <u>5181</u>	Elev.: K.B. <u>5185</u>
Log Measured From <u>K.B.</u> , <u>4</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>K.B.</u>	G.L. <u>5181</u>

Date	5/28/77				
Run No.	ONE				
Depth-Driller	2235 (TOP OF FISH)				
Depth-Logger	2241				
Btm. Log Interval	2238 (TOP OF FISH) <i>32.6</i>				
Top Log Interval	161				
Casing-Driller	7" @ 150	@	@	@	@
Casing-Logger	161				
Bit Size	6 1/4				
Type Fluid in Hole	GEL				
Dens.	8.2	Visc.	70		
pH	10.5	Fluid Loss	5 ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	.29 @ 80 °F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.27 @ 83 °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	- @ °F	@	°F	@	°F
Source: R _{mf} R _{mc}	CELL				
R _m @ BHT	.25 @ 91 °F	@	°F	@	°F
Circulation Stopped	?				
Logger on Bottom	1200				
Max. Rec. Temp.	91 °F		°F		°F
Equip. Location	7759 G.J.				
Recorded By	THOMPSON				
Witnessed By	GORDON				

Published by the Customer

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

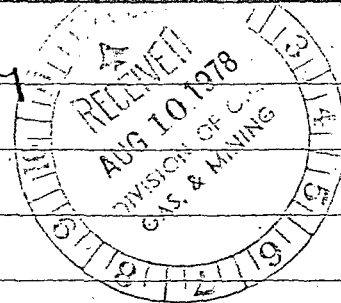
COMPANY N.P. Energy

WELL Federal 25-1

FIELD Cisco Dome

COUNTY Grand

STATE Utah



COUNTY
FIELD or
LOCATION
WELL
COMPANY

Location. API Serial No. _____
Sec. 25 Twp. 20S Rge. 21E 7

Other Services:
FDC/CNL/CR
162

Permanent Datum: Ground level; Elev.: 5020
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 5030
D.F. -
G.L. 5020

Date	<u>Jan. 30, 1978</u>		
Run No.	<u>one</u>		
Depth-Driller	<u>2780</u>		
Depth-Logger	<u>2788</u>		
Btm. Log Interval	<u>2782</u> <u>40.6</u>		
Top Log Interval	<u>161</u>		
Casing-Driller	<u>8 5/8 @ 155</u>	@	@
Casing-Logger	<u>161</u>		
Bit Size	<u>7 7/8</u>		
Type Fluid in Hole	<u>Flow</u>		
Fluid Level	<u>Full</u>		
Dens.	<u>9.3</u>	<u>70</u>	
Visc.			
pH			
Fluid Loss		ml	ml
Source of Sample	<u>mud tank</u>		
R _m @ Meas. Temp.	<u>1.88 @ 70 °F</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>.336 @ 70 °F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>- @ - °F</u>	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>m</u> <u>-</u>		
R _m @ BHT	<u>1.16 @ 113 °F</u>	@ °F	@ °F
Time Since Circ.	<u>4.5 hrs</u>		
Max. Rec. Temp.	<u>113 °F</u>	°F	°F
Equip.	<u>7759 63</u>		
Location			
Recorded By	<u>TAYLOR</u>		
Witnessed By	<u>Mr Farrington</u>		

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO DOME WELL ADAK ANSCHUTZ GOV'T. #1-26 COMPANY ADAK ENERGY CORP.	COMPANY ADAK ENERGY CORPORATION		
	WELL ADAK ANSCHUTZ GOVERNMENT NO. 1-26		
	FIELD CISCO DOME		
	COUNTY GRAND	STATE UTAH	
LOCATION NE/NE		Other Services: FDC-GR 163	
Sec. 26	Twp. 20S	Rge. 21E	
Permanent Datum: GL, Elev. 5072		Elev.: K.B. 5081	
Log Measured From KB, 9 Ft. Above Perm. Datum		D.F. ----	
Drilling Measured From KB		G.L. 5072	
Date	12-31-73		
Run No.	ONE		
Depth—Driller	2889		
Depth—Logger	2762 "BRIDGE IN THE HOLE"		
Btm. Log Interval	2761 38.3		
Top Log Interval	146		
Casing—Driller	7 @ 144	@	@
Casing—Logger	146		
Bit Size	6-1/4		
Type Fluid in Hole	F. G. M.		
Dens.	Visc.	8.7	72
pH	Fluid Loss	----	-- ml
Source of Sample	FLOWLINE		
R _m @ Meas. Temp.	1.94 @ 74 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.87 @ 74 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	---- @ -- °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	--	
R _m @ BHT	1.3 @ 109 °F	@ °F	@ °F
Time Since Circ.	2 HRS.		
Max. Rec. Temp.	109 °F	°F	°F
Equip. Location	5602	G. J.	
Recorded By	BARGHOUT I		
Witnessed By	WELLS		

205

22E

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**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

(WITH CALIPER)

COUNTY GRAND
FIELD or LOCATION WILDCAT-CISCO SPGS
WELL #1-6 FEDERAL 6-20-22
COMPANY CIG EXP. INC.

COMPANY CIG EXPLORATION INC.

WELL NO. 1-6 FEDERAL 6-20-22

FIELD WILDCAT-CISCO SPRINGS

COUNTY GRAND STATE UTAH

Location: API Serial No.
444' - SL/887' - WL SW/SW
Sec. 6 Twp. 20S Rge. 22E

Other Services:
DIL 164
CNL/FDC-GR

Permanent Datum: GL, Elev.: 5553
Log Measured From KB, 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5565
D.F.
G.L. 5553

Date	11-18-74			
Run No.	ONE			
Depth-Driller	3565			
Depth-Logger	3008			
Btm. Log Interval	3006 44.3			
Top Log Interval	2495			
Casing-Driller	8-5/8@168	@	@	@
Casing-Logger	173			
Bit Size	7-7/8			
Type Fluid in Hole	FRESH MUD			
Fluid Level				
Dens.	8.6	60		
Visc.				
pH	N.A.	N.A.	ml	ml
Fluid Loss				
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	2.16 @58 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}				
R _m @ BHT	1.0 @124 °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HOURS			
Max. Rec. Temp.	124 °F	°F	°F	°F
Equip.	7699	GJ		
Location				
Recorded By	ASHTON			
Witnessed By	ECKHOFF			

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO WELL FEDERAL 10-1 COMPANY WILLARD PEESE OIL	COMPANY	WILLARD PEESE OIL & GAS		
	WELL	FEDERAL 10-1		
	FIELD	CISCO		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	8		Other Services: NONE
	Sec. 10	Twp. 20S	Rge. 22E	165

Permanent Datum: GROUND LEVEL, Elev. _____	Elev.: K.B. NA
Log Measured From KB, 13 Ft. Above Perm. Datum	D.F. _____
Drilling Measured From KB	G.I. _____

Date	1-14-77				
Run No.	ONE				
Depth—Driller	3237				
Depth—Logger	3237				
Btm. Log Interval	3231 70.5				
Top Log Interval	173				
Casing—Driller	8 5/8 @ 173	@	@	@	@
Casing—Logger	173				
Bit Size	7 7/8				
Type Fluid in Hole	FGM				
	FULL				
Dens.	Visc.	8.9	55		
pH	Fluid Loss	--	-- ml	ml	ml
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	.677 @ 66 °F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.435 @ 66 °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	.87 @ 66 °F	@	°F	@	°F
Source: R _{mf} R _{mc}	M C				
R _m @ BHT	.425 @ 105 °F	@	°F	@	°F
Time Since Circ.	3 HRS.				
Max. Rec. Temp.	105 °F		°F	°F	°F
Equip. Location	7674 VERNAL				
Recorded By	KILMAN & LIGHTNER				
Witnessed By	TRULL				

The well name, location and borehole reference data were furnished by the customer.

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**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**
(WITH CALIPER)

COUNTY GRAND FIELD or WILDCAT LOCATION NO. 1 FEDERAL WELL 14-20-22 COMPANY CIG EXPLORATION	COMPANY <u>CIG EXPLORATION</u>	
	WELL <u>NO. 1-14 FEDERAL 14-20-22</u>	
	FIELD <u>CISCO SPRINGS AREA-WILDCAT</u>	
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>	
Location: API Serial No. _____ <u>1980' FNL & 660' FEL (SE NE)</u>		Other Services: <u>DIL</u> <u>FDC-CNL-GR</u> <u>166</u>
Sec. <u>14</u> Twp. <u>20S</u> Rge. <u>22E</u>		
Permanent Datum: <u>GROUND LEVEL</u> ; Elev.: <u>4851</u> Log Measured From <u>KB</u> , <u>12</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>		Elev.: K.B. <u>4863</u> D.F. <u>----</u> G.L. <u>4851</u>
Date	<u>12/6/74</u>	
Run No.	<u>ONE</u>	
Depth—Driller	<u>3430</u>	
Depth—Logger	<u>3433</u>	
Btm. Log Interval	<u>3432</u> ^{30'}	
Top Log Interval	<u>1930</u>	
Casing—Driller	<u>8 5/8@151</u>	@
Casing—Logger	<u>153</u>	@
Bit Size	<u>7 7/8</u>	@
Type Fluid in Hole	<u>FGM</u>	
Fluid Level	<u>FULL</u>	
Dens.	<u>8.8</u>	<u>80</u>
pH	<u>-</u>	<u>- ml</u>
Fluid Loss	<u>-</u>	<u>- ml</u>
Source of Sample	<u>PIT</u>	
R _m @ Meas. Temp.	<u>1.61@ 60 °F</u>	@ °F
R _{mf} @ Meas. Temp.	<u>1.50@ 60 °F</u>	@ °F
R _{mc} @ Meas. Temp.	<u>1.23@ 60 °F</u>	@ °F
Source: R _{mf} R _{mc}	<u>CALC/CALC.</u>	
R _m @ BHT	<u>.894@108 °F</u>	@ °F
Time Since Circ.	<u>8 HOURS</u>	
Max. Rec. Temp.	<u>108</u> °F	°F
Equip. Location	<u>7699 PARK</u>	
Recorded By	<u>N. MOSS</u>	
Witnessed By	<u>MR. ECKHOFF</u>	

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT FEDERAL 14-1 WELL COMPANY WILLARD PEASE	COMPANY <u>WILLARD PEASE OIL & GAS CO</u> WELL <u>FEDERAL 14-1</u> FIELD <u>WILDCAT</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u>
	Location: NE SE 1905 FSL 500 FWL Sec. <u>14</u> Twp. <u>20S</u> Rge. <u>22E</u> 9
	Other Services: 167
Permanent Datum: <u>GL</u> ; Elev.: <u>4830</u> Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>	
Elev.: K.B. <u>4840</u> D.F. <u>----</u> G.L. <u>4830</u>	
Date	<u>12/7/76</u>
Run No.	<u>ONE</u>
Depth-Driller	<u>2903</u>
Depth-Logger	<u>2902</u>
Btm. Log Interval	<u>2896</u> <small>30.2</small>
Top Log Interval	<u>154</u>
Casing-Driller	<u>8 5/8 @ 151</u> @ @ @
Casing-Logger	<u>154</u>
Bit Size	<u>7 7/8</u>
Type Fluid in Hole	<u>FGM</u>
Dens.	<u>----</u>
Visc.	<u>--</u>
pH	<u>----</u>
Fluid Loss	<u>-- ml</u>
Source of Sample	<u>FLOWLINE</u>
R _m @ Meas. Temp.	<u>1.24 @ 45 °F</u> @ °F @ °F @ °F
R _{mf} @ Meas. Temp.	<u>1.10 @ 45 °F</u> @ °F @ °F @ °F
R _{mc} @ Meas. Temp.	<u>---- @ -- °F</u> @ °F @ °F @ °F
Source: R _{mf} R _{mc}	<u>MEAS ---</u>
R _m @ BHT	<u>---- @ 99 °F</u> @ °F @ °F @ °F
TIME Circulation Stopped	<u>2330</u>
TIME Logger on Bottom	<u>0200</u>
Max. Rec. Temp.	<u>99 °F</u> °F °F °F
Equip. Location	<u>7759 GJ</u>
Recorded By	<u>GEIGER</u>
Witnessed By	<u>TRULL</u>



MICRO LOGGING®

COMPANY <u>Cabeen</u> <u>Exploration Corp.</u>	Other Surveys
WELL <u>Union Gout #5-1</u>	Location of Well
FIELD <u>Cisco Dome</u>	FIELD PRINT
LOCATION <u>18-205-22E</u> <u>C NW SE</u>	Elevation: D.F. K.B.: <u>5091</u> or G.L.: <u>5085</u>
COUNTY <u>Grand</u>	FILING No. <u>168</u>
STATE <u>Utah</u>	

RUN No.	<u>One</u>				
Date	<u>31 May 1958</u>				
First Reading	<u>2528</u>	<u>28.1</u>			
Last Reading	<u>2296</u>				
Feet Measured	<u>332</u>				
Depth Reached	<u>2530</u>				
Bottom Driller	<u>2528</u>				
Depth Datum	<u>K.B.</u>				
Mud Nat.	<u>Gcl & Water</u>				
Dens. Visc.	<u>9.5 45</u>				
Mud Resist.	<u>2.2 @ 75'</u>				
Res. BHT	<u>1.8 @ 90'</u>				
pH					
Wtr. Loss	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>
Rmfv BHT	<u>1.6</u>				
Rm. BHT	<u>2.1</u>				
Mud Log: Rm					
Limit					
Depth					
Bit size	<u>4 3/4"</u>				
Spade Type	<u>PMS-A</u>				
Pack Type	<u>H</u>				
Opr. Rig Time	<u>1 hr.</u>				
Truck No.	<u>1523</u>				
Recorded by	<u>ED MIXA</u>				

FOLO HERE

MARKS MUD SAMPLE FROM FLOW LINE

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

GRAND COUNTY CISCO DOME FIELD FEDERAL 19-3 LOCATION WELL UNITED ENERGY CORP. COMPANY	COMPANY <u>UNITED ENERGY CORPORATION</u>		
	WELL <u>FEDERAL 19-3</u>		
	FIELD <u>CISCO DOME</u>		
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>
	LOCATION <u>660 FSL & 660 FWL</u>		Other Services: <u>DIL 169</u>
API SERIAL NO.	SEC. <u>19</u>	TWP. <u>20S</u>	RANGE <u>22E</u>

Permanent Datum: <u>G.L.</u> ; Elev.: <u>5075</u>	Elev.: K.B. <u>5085</u>
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum	D.F. <u>---</u>
Drilling Measured From <u>KB</u>	G.L. <u>5075</u>

Date	<u>11/13/76</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>2450</u>					
Depth-Logger	<u>2456</u>					
Btm. Log Interval	<u>2455</u>	<u>31.5</u>				
Top Log Interval	<u>1450</u>					
Casing-Driller	<u>7 5/8</u>	<u>@ 150</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>177</u>					
Bit Size	<u>6 3/4</u>					
Type Fluid in Hole	<u>FRESH GEL</u>					
Dens.	<u>8.7</u>	<u>40</u>				
pH	<u>10.8</u>	<u>6</u> ml	<u>ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>
Source of Sample	<u>FLOW LINE</u>					
Rm @ Meas. Temp.	<u>1.67</u>	<u>@ 37 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Rmf @ Meas. Temp.	<u>1.45</u>	<u>@ 37 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Rmc @ Meas. Temp.	<u>---</u>	<u>@ -- °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Source: Rmf Rmc	<u>MUD</u>	<u>CHART</u>				
Rm @ BHT	<u>.75</u>	<u>@ 94 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
TIME	Circulation Stopped <u>0200</u>					
	Logger on Bottom <u>0730</u>					
Max. Rec. Temp.	<u>94</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>
Equip. Location	<u>7759</u>	<u>GJ</u>				
Recorded By	<u>ETTER</u>					
Witnessed By Mr.	<u>GORDON</u>					

The well name, location and borehole reference data were furnished by the customer.

Schlumberger

INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO WELL FEDERAL 25-1 COMPANY WILLARD PEASE	COMPANY WILLARD PEASE OIL & GAS WELL FEDERAL 25-1 FIELD CISCO COUNTY GRAND STATE UTAH LOCATION: SE NE API Serial No. _____ Sec. 25 Twp. 20S Rge. 22E 8 Other Services: 170 Permanent Datum: GL, Elev.: 4635 Log Measured From KB, 10 Ft. Above Perm. Datum Drilling Measured From KB Elev.: K.B. 4645 D.F. ---- G.L. 4635
Date Run No. Depth-Driller Depth-Logger Btm. Log Interval Top Log Interval Casing-Driller Casing-Logger Bit Size Type Fluid in Hole Dens. Visc. pH Fluid Loss Source of Sample R _m @ Meas. Temp. R _{mf} @ Meas. Temp. R _{mc} @ Meas. Temp. Source: R _{mf} R _{mc} R _m @ BHT TIME Circulation Stopped Logger on Bottom Max. Rec. Temp. Equip. Location Recorded By Witnessed By	12/2/76 ONE 2609 2510 2504 34.2 146 8 5/8 @ 150 @ @ @ 146 7 7/8 FGM --- --- --- --ml ml ml ml PIT 1.43 @ 48°F @ °F @ °F @ °F 1.36 @ 48°F @ °F @ °F @ °F --- @ ---°F @ °F @ °F @ °F MEAS --- --- @ ---°F @ °F @ °F @ °F 1600 1800 98 °F °F °F 7759 GJ GETGER TRULL



BIRDWELL

Induction Electric Log

COMPANY UNITED ENERGY CORP.

WELL # 29-3

FIELD CISCO DOME

COUNTY GRAND STATE UTAH

LOCATION:

660' FSL - 660' FWL

OTHER SERVICES:

DBC
GRS 171

SEC. 29 TWP. 20S RGE. 22E

PERMANENT DATUM GROUND LEVEL, ELEV. 4977

ELEV. K.B. 4987

LOG MEASURED FROM K.B. 10 FT. ABOVE PERM. DATUM

D.F. 4986

DRILLING MEASURED FROM K.B. 10 " " " "

G.L. 4977

DATE	6 NOV. 76						
RUN NO.	ONE						
DEPTH-DRILLER	2944						
DEPTH-LOGGER	2849**						
BTM. LOG INTER.	2844 71.8						
TOP LOG INTER.	150						
CASING-DRILLER	7-5/8 @ 153			@	@	@	@
CASING-LOGGER	150						
BIT SIZE	6-3/4 TO 2770 - 6-1/4 2770 TO T.D.**						
TYPE FLUID IN HOLE	FRESH MUD						
LIQUID LEVEL	SURFACE						
DENS.	VISC.	NA	100				
pH	FLUID LOSS	NA	10 ml	ml	ml	ml	ml
SOURCE OF SAMPLE	PIT						
Rm @ MEAS. TEMP.	1.89 @ 63 °F			@ °F	@ °F	@ °F	@ °F
Rmf @ MEAS. TEMP.	2.0 @ 54 °F			@ °F	@ °F	@ °F	@ °F
Rmc @ MEAS. TEMP.	2.0 @ 55 °F			@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	PRESS	PRESS				
Rm @ B.H.T.	.75 @ 163 °F			@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	4 HR.						
MAX. REC. TEMP.	163 °F			°F	°F	°F	°F
EQUIP. LOCATION	3027 GRAND JUNCTION, COLO.						
RECORDED BY	MORGAN						
WITNESSED BY	MR. GORDON						

SSC-1110-A

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SIMULTANEOUS
COMPENSATED NEUTRON
FORMATION DENSITY

COUNTY GRAND
FIELD CISCO DOME
LOCATION 30-20S-22E
WELL FEDERAL 30-1
COMPANY N.P. ENERGY

COMPANY N.P. ENERGY
WELL FEDERAL 30-1
FIELD CISCO DOME
COUNTY GRAND STATE UTAH

LOCATION			
API SERIAL NO.	SEC.	TWP.	RANGE
	30	20S	22E

Other Services:
FDC-CNL-GR
DIL
3A1

Permanent Datum: GL, Elev.: 5083
Log Measured From KB, 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5093
D.F. --
G.L. 5083

Date	3-28-78			
Run No.	ONE			
Depth-Driller	2884			
Depth-Logger	2884			
Btm. Log Interval	2883 43.0			
Top Log Interval	1500			
Casing-Driller	8 5/8 @ 156	@	@	@
Casing-Logger	--			
Bit Size	7 7/8			
Type Fluid in Hole	FGM			
Dens.	~9	~80		
Visc.	--	~8 ml	ml	ml
pH	--			
Fluid Loss	--			
Source of Sample	MUDTANK			
Rm @ Meas. Temp.	.42 @ 69 F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.39 @ 69 F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ -- F	@ °F	@ °F	@ °F
Source: Rmf	N			
Rmc	--			
Rm @ BHT	.24 @ 119F	@ °F	@ °F	@ °F
Circulation Stopped	2200 3-28			
Logger on Bottom	0400 3-29			
Max. Rec. Temp.	119F	°F	°F	°F
Equip.	7759	G.J.		
Location				
Recorded By	GRTAYLOR			
Witnessed By Mr.	JOHN GORDON			

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION-LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD CISCO DOME LOCATION FEDERAL 31 1A WELL COMPANY UNITED ENERGY	COMPANY	UNITED ENERGY CORP		
	WELL	FEDERAL 31 1A		
	FIELD	CISCO DOME		
	COUNTY	GRAND	STATE	UTAH
LOCATION	31 20S 22E			Other Services: FDC CNL-GR
API SERIAL NO.	SEC.	TWP	RANGE	173
	31	20S	22E 3	

Permanent Datum:	G.L.	Elev.: 4979	Elev.: K.B. 4986 D.F. - G.L. 4979
Log Measured From:	K.B. 7	Ft. Above Perm. Datum	
Drilling Measured From:	K.B.		

Date	4/9/77							
Run No.	ONE							
Depth-Driller	2360							
Depth-Logger	2340							
Btm. Log Interval	2334 33.6							
Top Log Interval	169							
Casing-Driller	6 3/4@		@		@	@	@	@
Casing-Logger	150							
Bit Size	6 3/4							
Type Fluid in Hole	GEL							
Dens.	Visc.	NA	45					
pH	Fluid Loss	80 ml		ml		ml		ml
Source of Sample	MUD P T T							
Rm @ Meas. Temp.	2.0	@ 72 °F	@	°F	@	°F	@	°F
Rmf @ Meas. Temp.	1.9	@ 71 °F	@	°F	@	°F	@	°F
Rmc @ Meas. Temp.	-	@ °F	@	°F	@	°F	@	°F
Source: Rmf	Rmc	MUD	PRESS					
Rm @ BHT	1.6	@ 92 °F	@	°F	@	°F	@	°F
TIME	Circulation Stopped	1430						
	Logger on Bottom	2200						
	Max. Rec. Temp.	94	°F	°F	°F	°F	°F	°F
Equip.	Location	7759	G.J.					
Recorded By	ETTER							
Witnessed By	GORDON							

Schlumberger

WELL LOG

WELL-NEAR CORRELATION LOG

COUNTY GRAND
FIELD or LOCATION CISCO DOME
WELL FEDERAL 31-3
COMPANY N.P. ENERGY

COMPANY N.P. ENERGY CORP

WELL FEDERAL 31-3

FIELD CISCO DOME

COUNTY GRAND STATE UTAH

Location. API Serial No. 1730FNL 1120FEL

Sec. 31 Twp. 20S Rge. 22E 8

Other Services: 174
FDC-CNL-GR

Permanent Datum: GL; Elev.: 4906.5

Log Measured From KB 10 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 4916.5
D.F. --
G.L. 4906.5

Date	4-7-78				
Run No.	ONE				
Depth-Driller	2751				
Depth-Logger	2753				
Btm. Log Interval	2747 43.1				
Top Log Interval	167				
Casing-Driller	8 5/8 @ 169	@	@	@	@
Casing-Logger	167				
Bit Size	7 7/8				
Type Fluid in Hole	FGM				
Fluid Level	FULL				
Dens.	Visc.	--	--		
pH	Fluid Loss	--	-- ml	ml	ml
Source of Sample	CIRCULATED				
Rm @ Meas. Temp.	1.12 @ 60 °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.92 @ 65 °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.68 @ 60 °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M	C		
Rm @ BHT	0.61 @ 116 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	3 HOURS				
Max. Rec. Temp.	116 °F	°F	°F	°F	°F
Equip.	Location	5642	G.J.		
Recorded By	LAUDE				
Witnessed By	GORDON				

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

Schlumberger

DUAL INDUCTION - LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD CISCO DOME LOCATION 32-20S-22E WELL UTAH STATE 32-2 COMPANY N.P. ENERGY	COMPANY N.P. ENERGY			
	WELL UTAH STATE 32-2			
	FIELD CISCO DOME			
	COUNTY GRAND		STATE UTAH	
	LOCATION		Other Services:	
API SERIAL NO.	SEC. 32	TWP 20S	RANGE 22E 4-	-- 175

Permanent Datum: GL	Elev.: --	Elev.: K.B. --
Log Measured From KB	-- Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. --

Date	1-19-78					
Run No.	ONE					
Depth-Driller	2604					
Depth-Logger	2608					
Btm. Log Interval	2602	29.4				
Top Log Interval	154					
Casing-Driller	8 5/8@ 154	@	@	@		
Casing-Logger	154					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	Visc.	--	--			
pH	Fluid Loss	--	--ml	ml	ml	ml
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	1.12@ 55F	@	°F	@	°F	@
Rmf @ Meas. Temp.	.882@ 65F	@	°F	@	°F	@
Rmc @ Meas. Temp.	-- @ --F	@	°F	@	°F	@
Source: Rmf Rmc	M --					
Rm @ BHT	.66 @ 93F	@	°F	@	°F	@
TIME	Circulation Stopped	2230 1-19				
	Logger on Bottom	0130 1-20				
Max. Rec. Temp.	93F		°F	°F	°F	
Equip. Location	7759 G.J.					
Recorded By	TAYLOR					
Witnessed By	FARRINGTON					

The well name, location and borehole reference data were furnished by the customer. FOLD HERE



BIRDWELL

Induction Electric Log

COMPANY UNITED ENERGY
WELL STATE 32-1
FIELD CISCO
COUNTY GRAND **STATE** UTAH

LOCATION:
 SEC. 32 TWP. 20S RGE. 22E
OTHER SERVICES:
 NBC DBC
 3AB

PERMANENT DATUM GROUND LEVEL, ELEV. 4880'
LOG MEASURED FROM KB, +7 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB
ELEV. K.B. 4887'
D.F. N/A
G.L. 4880'

DATE	19 APR. 77					
RUN NO.	ONE					
DEPTH-DRILLER	2750'					
DEPTH-LOGGER	2742'					
BTM. LOG INTER.	2736' -39.3					
TOP LOG INTER.	156'					
CASING-DRILLER	N/A	@ 153		@	@	@
CASING-LOGGER	153					
BIT SIZE	6-1/4"					
TYPE FLUID IN HOLE	MUD					
LIQUID LEVEL	FULL					
DENS.	VISC.	N/A 45				
pH	FLUID LOSS	8.6 ml		ml	ml	ml
SOURCE OF SAMPLE	FLOW LINE					
Rm @ MEAS. TEMP.	1.8 @ 58 °F		@ °F	@ °F	@ °F	@ °F
Rmf @ MEAS. TEMP.	.55 @ 68 °F		@ °F	@ °F	@ °F	@ °F
Rmc @ MEAS. TEMP.	1.5 @ 70 °F		@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	BAROID PRESS				
Rm @ B.H.T.	.95 @ 110 °F		@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	1 HOUR					
MAX. REC. TEMP.	110 °F		°F	°F	°F	°F
EQUIP. LOCATION	3005 FARMINGTON					
RECORDED BY	MARTIN					
WITNESSED BY	MR. GORDON					

SSC-1110-A

205

23E

NO *94A*
Schlumberger

DUAL INDUCTION LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
FIELD WILDCAT
LOCATION 330' FSL 330' FWL
WELL STATE OF UTAH 1-2
COMPANY FRANK B. ADAMS

COMPANY FRANK B. ADAMS
WELL STATE OF UTAH 1-2
FIELD WILDCAT
COUNTY GRAND STATE UTAH
LOCATION 330' FSL 330' FWL
API SERIAL NO. S2 SEC. 20S TWP. 13 RANGE 23E
Other Services: FDG-CNL-GR 176
Permanent Datum: GL Elev.: 4844
Log Measured From KB 10 Ft. Above Perm. Datum
Drilling Measured From KB Elev.: KB 4854
D.F. 4844
G.L. 4844

Date	10-29-77			
Run No.	ONE			
Depth-Driller	2968			
Depth-Logger	2700			
Btm. Log Interval	2694 41.3			
Top Log Interval	161			
Casing-Driller	1578@ 161	@		@
Casing-logger	161			
Bit Size	6 1/2			
Type Fluid in Hole	FGM			
Dens.	9.4	120		
pH	--	-- ml		
Fluid Loss	--	-- ml		
Source of Sample	MUDTANK			
Rm (@ Meas. Temp.	.987@ 72 °F	@	°F	@
Rmf (@ Meas. Temp.	.629@ 72 °F	@	°F	@
Rmc (@ Meas. Temp.	-- @ -- °F	@	°F	@
Source: Rmf	M	C		
Rm @ BHT	@ 112F	@	°F	@
Circulation Stopped	1000			
Logger on Bottom	1300			
Max. Rec. Temp.	112F		°F	
Equip. Location	77591 4111			
Recorded By	POVICH-TAYLOR			
Witnessed By	ADAMS			

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The well name, location and borehole reference data were furnished by the customer.

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COMPENSATED NEUTRON FORMATION DENSITY

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL CISCO SPRINGS FEDERAL #1-143 COMPANY WILLARD PEASE OIL & GAS CO.	COMPANY WILLARD PEASE OIL & GAS COMPANY	
	WELL CISCO SPRINGS FEDERAL NO. 1-143	
	FIELD CISCO SPRINGS	
	COUNTY GRAND STATE UTAH	
Location: API Serial No. _____		Other Services: 177
NOT AVAILABLE AT THIS TIME Sec. <u>4</u> Twp. <u>20S</u> Rge. <u>23E</u>		IES PDC
Permanent Datum: <u>GL</u> ; Elev.: _____ Log Measured From <u>KB</u> _____ Ft. Above Perm. Datum Drilling Measured From <u>KB</u> _____		Elev.: K.B. _____ D.F. _____ G.L. _____
Date	11-24-74	
Run No.	ONE	
Depth—Driller	2257	
Depth—Logger	2258	
Btm. Log Interval	2257 ^{33'}	
Top Log Interval	996	
Casing—Driller	7 @ 174 @ @ @	
Casing—Logger	NOT RECORDED	
Bit Size	6-1/8 1789-TD; 6-1/4 174'-1789'	
Type Fluid in Hole	FGM	
Fluid Level	FULL	
Dens.	8.4	50
pH	Fluid Los	ml ml ml ml
Source of Sample	PIT	
R _{mm} @ Meas. Temp.	2.35 @ 73 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	1.95 @ 73 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	@ °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	M	
R _m @ BHT	@ °F	@ °F @ °F @ °F
Time Since Circ.	3 HOURS	
Max. Rec. Temp.	92 °F	°F °F °F
Equip. Location	5602 GJ	
Recorded By	BARGHOUTI	
Witnessed By	MORRIS - PUSHER	

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION AGATE WELL KEAS-FEDERAL # 2 COMPANY WALTER D. BROADHEAD	COMPANY	WALTER D. BROADHEAD		
	WELL	KEAS - FEDERAL # 2		
	FIELD	AGATE		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	330' FSL - 660' FEL		Other Services: NONE 178

Permanent Datum: G.L. _____, Elev. 4584	Elev.: K.B. _____
Log Measured From G.L. _____, 0 Ft. Above Perm. Datum	D.F. _____
Drilling Measured From G.L. _____	G.L. 4584

Date	12-13-65				
Run No.	ONE				
Depth—Driller	1680				
Depth—Logger	1691				
Btm. Log Interval	1690	31.3			
Top Log Interval	100				
Casing—Driller	7" @ 100	@	@	@	@
Casing—Logger	-				
Bit Size	6 1/4"				
Type Fluid in Hole	FRESH GEL.				
Dens.	9.1	46			
Visc.					
pH			ml	ml	ml
Fluid Loss	-	-			
Source of Sample	PITS				
R _m @ Meas. Temp.	7.3 @ 51°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	4.5 @ 80°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	5.3 @ 80°F	@	°F	@	°F
Source: R _{mf} R _{mc}	C C				
R _m @ BHT	5.0 @ 80°F	@	°F	@	°F
Time Since Circ.	-				
Max. Rec. Temp.	80	°F	°F	°F	°F
Equip. Location	2598	G. J.			
Recorded By	MONTGOMERY				
Witnessed By	BROADHEAD				

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SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION AGATE WELL KEAS-FEDERAL 1-A COMPANY WALTER D. BROADHEAD	COMPANY <u>WALTER D. BROADHEAD</u>	
	WELL <u>KEAS-FEDERAL 3-A</u>	
	FIELD <u>AGATE</u>	
	COUNTY <u>GRAND</u>	STATE <u>UTAH</u>
	LOCATION <u>NW - SE - SE</u>	Other Services: 179 NONE
Sec. <u>5</u>	Twp. <u>20S</u>	Rge. <u>24E</u>
Permanent Datum: <u>G.L.</u> , Elev. <u>4592</u>		Elev.: K.B. <u>-</u>
Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum		D.F. <u>-</u>
Drilling Measured From <u>G.L.</u>		G.I. <u>4592</u>
Date	<u>7-22-65</u>	
Run No.	<u>ONE</u>	
Depth—Driller	<u>1675</u>	
Depth—Logger	<u>1679</u>	
Btm. Log Interval	<u>1678</u> ^{31.6}	
Top Log Interval	<u>100</u>	
Casing—Driller	<u>7" @ 100</u>	@ @ @
Casing—Logger	<u>-</u>	
Bit Size	<u>6 1/4"</u>	
Type Fluid in Hole	<u>GEL -</u>	
	<u>CHEMICAL</u>	
Dens.	<u>10.0</u>	<u>45</u>
Visc.	<u>-</u>	<u>ml</u>
pH	<u>-</u>	<u>ml</u>
Fluid Loss	<u>-</u>	<u>ml</u>
Source of Sample	<u>PITS</u>	
R _m @ Meas. Temp.	<u>4.1 @ 80 °F</u>	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	<u>3.8 @ 80 °F</u>	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	<u>3.35 @ 80 °F</u>	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	<u>PRESS CHART</u>	
R _m @ BHT	<u>4.1 @ 80 °F</u>	@ °F @ °F @ °F
Time Since Circ.	<u>-</u>	
Max. Rec. Temp.	<u>80 °F</u>	°F °F °F
Equip. Location	<u>2598 G. J.</u>	
Recorded By	<u>MONTGOMERY</u>	
Witnessed By	<u>BROADHEAD</u>	

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SIMULTANEOUS
COMPENSATED NEUTRON
FORMATION DENSITY

COUNTY GRAND
FIELD NORTH CISCO SPRGS
LOCATION FEDERAL 2-5
WELL FEDERAL 2-5
COMPANY WILLARD PEASE

COMPANY WILLARD PEASE OIL & GAS

WELL FEDERAL 2-5

FIELD NORTH CISCO SPRINGS

COUNTY GRAND STATE UTAH

LOCATION	SW NW		
API SERIAL NO.	SEC.	TWP.	RANGE
	5	20S	23E

Other Services:
IES
180

Permanent Datum: G.L. ; Elev.: 4841
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 4851
D.F. -
G.L. 4841

Date	7/7/76					
Run No.	ONE					
Depth-Driller	2803					
Depth-Logger	2806					
Btm. Log Interval	2805 31.6					
Top Log Interval	1400					
Casing-Driller	8 5/8 @ 196			@	@	@
Casing-Logger	196					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	Visc.	8.4 42				
pH	Fluid Loss	11.5 6.0l		ml	ml	ml
Source of Sample	FLOW LINE					
Rm @ Meas. Temp.	1.22 @ 86 °F		@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.20 @ 86 °F		@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F		@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M				
Rm @ BHT	- @ °F		@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	18:00				
	Logger on Bottom	22:30				
	Max. Rec. Temp.	100 °F		°F	°F	°F
Equip.	Location	7759 G.J.				
Recorded By	GEIGER					
Witnessed By Mr.	HUNT					

Schlumberger

**INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG**

COUNTY GRAND FIELD or LOCATION NORTH CISCO SPGS. WELL FEDERAL 1-5 COMPANY WILLARD PEASE	COMPANY	WILLARD PEASE OIL & GAS
	WELL	FEDERAL 1-5
	FIELD	NORTH CISCO SPRINGS
	COUNTY	GRAND STATE UTAH
	Location.	API Serial No.
NE NW 600 FNL & 1520 FWL		GRN 181
Sec. 5	Twp. 20S	Rge. 23E 3

Permanent Datum:	G.L.	Elev.: 4962	Elev.: K.B. 4972
Log Measured From	K.B. 10	Ft. Above Perm. Datum	D.F. -
Drilling Measured From	K.B.		G.L. 4962

Date	6/24/76	6/28/76	
Run No.	ONE	TWO	
Depth—Driller	3000	3350	
Depth—Logger	2536	3348	
Btm. Log Interval	2530 49.7	3342 42.0	
Top Log Interval	168	2100	
Casing—Driller	8 5/8 @ 170	8 5/8 @ 170	
Casing—Logger	168	168	
Bit Size	7 7/8	7 7/8	
Type Fluid in Hole	WATER	FGM	
Fluid Level	1300	FULL	
Dens.	Visc.	AIR DRILLED	9.4 42
pH	Fluid Loss	- ml	- ml
Source of Sample	NOT CIRC	FLOWLINE	
R _m @ Meas. Temp.	- @ °F	@ °F 1.55 @ 85 °F	@
R _{mf} @ Meas. Temp.	- @ °F	@ °F 1.31 @ 85 °F	@
R _{mc} @ Meas. Temp.	- @ °F	@ °F - @ °F	@
Source: R _{mf} R _{mc}	-	M	
R _m @ BHT	- @ °F	@ °F 1.02 @ 128 °F	@
Time Since Circ.	-	3.0 HRS.	
Max. Rec. Temp.	120 °F	128 °F	
Equip. Location	7759 G.J.	7759 G.J.	
Recorded By	ETTER	GEIGER	
Witnessed By	HUNT	HUNT	

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL NO. 1-506 FEDERAL COMPANY WILLARD PEASE	COMPANY	WILLARD PEASE OIL AND GAS		
	WELL	NO. 1-506 FEDERAL		
	FIELD	CISCO SPRINGS		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	NE/SE 2173' FSL, 853' FEL	Other Services: FDC-GR CNL-GR 182	
	Sec.	9	Twp.	20S Rge. 23E

Permanent Datum:	GL	Elev.	4816	Elev.: K.B.	4826
Log Measured From	KB	, 10	Ft. Above Perm. Datum	D.F.	----
Drilling Measured From	KB			G.L.	4816

Date	4-2-74				
Run No.	ONE				
Depth—Driller	2048				
Depth—Logger	2050				
Btm. Log Interval	2049	34.7			
Top Log Interval	172				
Casing—Driller	7	@ 177	@	@	@
Casing—Logger	172				
Bit Size	6-1/4				
Type Fluid in Hole	F.G.M.				
Dens.	9.7	63			
pH	---	-- ml	ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	2.72 @ 76 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.36 @ 76 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	---- @ -- °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	--			
R _m @ BHT	---- @ -- °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HRS.				
Max. Rec. Temp.	90 °F	°F	°F	°F	°F
Equip. Location	5602	G. J.			
Recorded By	BARGHOUTI				
Witnessed By	PEASE				

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>TEJAS GAS CORP.</u> Box 2806		
	WELL <u>FEDERAL No 1-355</u> 78403		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>1980' FNL 660' FEL SENE 8</u>		Other Services: <u>FDC-GR</u>	
Sec. <u>9</u> Twp. <u>20 S</u> Rge. <u>23 E</u>		<u>183</u>	
Permanent Datum: <u>G.L.</u> , Elev. <u>4818</u>		Elev.: K.B. <u>4828</u>	
Log Measured From <u>K.B.</u> , <u>10</u> Ft. Above Perm. Datum		D.F. <u>-</u>	
Drilling Measured From <u>K.B.</u>		G.I. <u>4818</u>	
Date	<u>10-20-72</u>		
Run No.	<u>ONE</u>		
Depth-Driller	<u>2505</u>		
Depth-Logger	<u>2504</u>		
Btm. Log Interval	<u>2498</u> ^{32.4}		
Top Log Interval	<u>156</u>		
Casing-Driller	<u>8 5/8 @ 147</u>	@	@
Casing-Logger	<u>156</u>		
Bit Size	<u>7 7/8</u>		
Type Fluid in Hole	<u>F. G. M.</u>		
Dens.	Visc.	<u>-</u>	<u>60</u>
pH	Fluid Loss	<u>-</u>	<u>-</u> ml
Source of Sample	<u>PIT</u>		
R _m @ Meas. Temp.	<u>1.72 @ 65 °F</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>1.05 @ 65 °F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>1.5 @ 65 °F</u>	<u>ESTIMATE</u>	<u>DENSITY = 10#</u> °F
Source: R _{mf}	<u>M</u>	<u>C</u>	
R _m @ BHT	<u>1.2 @ 96 °F</u>	@ °F	@ °F
Time Since Circ.	<u>3HR</u>		
Max. Rec. Temp.	<u>96 °F</u>	°F	°F
Equip. Location	<u>7022 VERNAL</u>		
Recorded By	<u>DANTI</u>		
Witnessed By	<u>PREJAN</u>		

The well name, location and borehole reference data were furnished by the customer.

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Not Released



INDUCTION • ELECTRIC LOG

COMPANY TEJAS GAS AND TREASURE RESOURCES
 WELL FEDERAL # 3-355
 FIELD FEDERAL CISCO
 County GRAND State UTAH

COMPANY TEJAS GAS AND TREASURE RESOURCES

WELL FEDERAL # 3-355

FIELD FEDERAL CISCO

COUNTY GRAND STATE UTAH

Location 660' FROM N. LINE
660' FROM E. LINE
NE NE

Sec. 9 Twp 20S Rge 23E

Other Services:
 COMP. DENSITY
184

Permanent Datum GROUND LEVEL Elev. 4839'

Log Measured From KELLY BUSHING 10 Ft. Above Perm. Datum

Drilling Measured From KELLY BUSHING

Elev.: K.B. 4849'
 D.F. _____
 G.L. 4839'

Date	12-26-72			
Run No.	ONE			
Depth-Driller	2000'			
Depth-Welex	2004'			
Btm. Log Inter.	1999' 44'			
Top Log Inter.	174'			
Casing-Driller	7-5/8" 174'	@	@	@
Casing-Welex	174'			
Bit Size	6-3/4"			
Type Fluid in Hole	FRESH GEL			
Dens. Visc.	1.55			
pH Fluid Loss	18.8 ml	ml	ml	ml
Source of Sample	FLO LINE			
R _{1000'} @ Meas. Temp.	3.6 @ 80°F	@ °F	@ °F	@ °F
R _{1500'} @ Meas. Temp.	3.0 @ 80°F	@ °F	@ °F	@ °F
R _{2000'} @ Meas. Temp.	3.1 @ 80°F	@ °F	@ °F	@ °F
Source R _{100'} R _{1500'}	CHARTS			
R _{100'} @ BHT	2.88 @ 100°F	@ °F	@ °F	@ °F
Time Since Circ.	5 HOURS			
Max. Rec. Temp.	100°F @ TD	°F @	°F @	°F @
Equip. Location	79491 VERNAL			
Recorded By	LEETH			
Witnessed By	MR. STAN CONRAD			

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INDUCTION-ELECTRICAL LOG

COUNTY FIELD or LOCATION WELL	GRAND	COMPANY WILLARD PEASE	COMPANY		WILLARD PEASE		Oil & Gas Co					
	WILDCAT		WELL		CARD MOORE NO. 4		<i>Anderson</i>					
	CARD MOORE NO. 4		FIELD		WILDCAT		<i>Blair</i>					
	WILLARD PEASE		COUNTY		GRAND		STATE		UTAH			
COUNTY FIELD or LOCATION WELL	GRAND	COMPANY WILLARD PEASE	LOCATION				Other Services:					
			Sec.	10/9	Twp.	20 S 23	Rge.	23 E	185			
Permanent Datum:			BHF		Elev.		NA		Elev.: K.B.		NA	
Log Measured From			RKB		9		Ft. Above Perm. Datum		D.F.		NA	
Drilling Measured From			RKB						G.L.		NA	
Date	4-24-73											
Run No.	ONE											
Depth—Driller	2140											
Depth—Logger	2125											
Btm. Log Interval	2119 42.1											
Top Log Interval	94											
Casing—Driller	7-5/8@90				@		@		@			
Casing—Logger	94											
Bit Size	6-3/4											
Type Fluid in Hole	GEL											
Dens.	Visc.	----	--									
pH	Fluid Loss	----	-- ml		ml		ml		ml		ml	
Source of Sample	PIT											
R _m @ Meas. Temp.	0.80 @ 65°F			@	°F		@	°F		@	°F	
R _{mf} @ Meas. Temp.	0.49 @ 65°F			@	°F		@	°F		@	°F	
R _{mc} @ Meas. Temp.	1.00 @ 65°F			@	°F		@	°F		@	°F	
Source: R _{mf}	R _{mc}	M	C									
R _m @ BHT	---- @ 100°F			@	°F		@	°F		@	°F	
Time Since Circ.	2 HRS.											
Max. Rec. Temp.	100 °F				°F			°F			°F	
Equip.	Location	7660 VERNAL										
Recorded By	STRAWN											
Witnessed By	THOMPSON											

The well name, location and borehole reference data were furnished by the customer.

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COMPENSATED NEUTRON LOG

COUNTY GRAND
FIELD or LOCATION CISCO SPRINGS
WELL CISCO SPRINGS NO. 1
COMPANY PEASE DRLG. CO.

Willard COIL & GAS
COMPANY PEASE DRILLING COMPANY

WELL CISCO SPRINGS NO. 1
FIELD CISCO SPRINGS

COUNTY GRAND STATE UTAH

Location: SW/SW
Sec. 10 Twp. 20S Rge. 23E

Other Services:
186

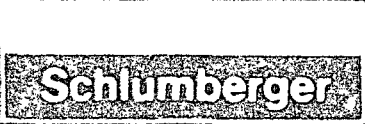
Permanent Datum: GL ; Elev.: 4802
Log Measured From KB, 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4812
D.F. 4811
G.I. 4802

Date	12-9-73
Run No.	ONE
Type Log	NEUTRON-GAMMA
Depth—Driller	2085 OH
Depth—Logger	2060 CH
Bottom logged interval	2057 41.6
Top logged interval	80
Type fluid in hole	WATER
Salinity, PPM Cl.	----
Density	----
Level	FULL
Max rec. temp., deg F.	98
Operating rig time	1-1/2 HRS.
Recorded by	BARGHOUTI
Witnessed by	THOMPSON

RUN No.	BORE-HOLE RECORD				CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To	
ONE	6-1/4	158	TD	4-1/2	9.4	SURF.	TD	

The well name, location and borehole reference data were furnished by the customer. SURVEY DATA FOLD HERE



SIMULTANEOUS COMPENSATED NEUTRON- FORMATION DENSITY

COUNTY GRAND
 FIELD CISCO SPRINGS
 LOCATION FEDERAL NO. 6
 WELL
 COMPANY WILLARD PEASE OIL & GAS
 GAS

COMPANY WILLARD PEASE OIL & GAS
 WELL FEDERAL NO. 6
 FIELD CISCO SPRINGS
 COUNTY GRAND STATE UTAH

LOCATION
 API SERIAL NO 43-019-302110 SEC 205 TWP 23E RANGE

Other Services:
 IES PDC 187

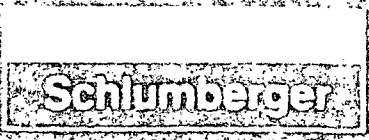
Permanent Datum: GL ; Elev.:
 Log Measured From KB Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B.
 D.F.
 G.L.

Date	12-4-74				
Run No.	ONE				
Depth-Driller	2238				
Depth-Logger	2234				
3m. Log Interval	2233 33.5				
Top Log Interval	1050				
Casing-Driller	7 @ 159.3	@	@	@	@
Casing-Logger	170				
Bit Size	6-1/4				
Type Fluid in Hole	GEL				
Dens.	9.4	Visc.	160		
pH	N.	Fluid Loss	A. ml	ml	ml
Source of Sample	MUD PIT				
Rm @ Meas. Temp.	2.40 @ 72 °F	@	°F	@	°F
Rmf @ Meas. Temp.	1.92 @ 72 °F	@	°F	@	°F
Rmc @ Meas. Temp.	@ °F	@	°F	@	°F
Source: Rmf Rmc	M				
Rm @ BHT	@ °F	@	°F	@	°F
Circulation Stopped	4 HOURS				
Logger on Bottom					
Max. Rec. Temp.	92 °F	°F	°F	°F	°F
Equip. Location	5602 GJ				
Recorded By	BARGHOUTI				
Witnessed By Mr.	PEASE				

The well name, location and borehole reference data were furnished by the customer.

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**COMPENSATED
FORMATION DENSITY LOG**
Gamma-Gamma

COUNTY GRAND FIELD or CISCO SPRINGS LOCATION PEASE OIL AND GAS WELL NO. 5 COMPANY PEASE OIL & GAS	COMPANY <u>PEASE OIL AND GAS</u>	
	WELL <u>PEASE OIL AND GAS NO. 5</u>	
	FIELD <u>CISCO SPRINGS</u>	
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>	
Location: API Serial No. <u>01050</u> NW/SW		Other Services: IES CNL-GR 188
Sec. <u>10</u> Twp. <u>20S</u> Rge. <u>23E</u>		

Permanent Datum: <u>GL</u> ; Elev.: <u>4818</u>	Elev.: K.B. <u>4828.5</u>
Log Measured From <u>KB 10.5</u> Ft. Above Perm. Datum	D.F. <u>4827</u>
Drilling Measured From <u>KB</u>	G.L. <u>4818</u>

Date	<u>5-24-74</u>				
Run No.	<u>ONE</u>				
Depth-Driller	<u>2450</u>				
Depth-Logger	<u>2450</u>				
Btm. Log Interval	<u>2449 40.9</u>				
Top Log Interval	<u>1500</u>				
Casing-Driller	<u>7-5/8@ 115</u>	@	@	@	
Casing-Logger	<u>----</u>				
Bit Size	<u>6-3/4</u>				
Type Fluid in Hole	<u>F.G.M.</u>				
Fluid Level	<u>FULL</u>				
Dens.	<u>10.4</u>				
Visc.	<u>77</u>				
pH	<u>---</u>	ml	ml	ml	ml
Fluid Los	<u>---</u>				
Source of Sample	<u>PIT</u>				
R _m @ Meas. Temp.	<u>1.08 @ 82 °F</u>	@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>85 @ 82 °F</u>	@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>--- @ --- °F</u>	@	°F	@	°F
Source: R _{mf} R _{mc}	<u>M ---</u>				
R _m @ BHT	<u>--- @ --- °F</u>	@	°F	@	°F
Time Since Circ.	<u>4 HRS</u>				
Max. Rec. Temp.	<u>106</u> °F				
Equip. Location	<u>5602 G.J.</u>				
Recorded By	<u>BARGHOUTI</u>				
Witnessed By	<u>TRUELL-FEES</u>				

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL GEORGE N. LARSEN COMPANY GEORGE N. LARSEN	COMPANY GEORGE N. LARSON	
	WELL GEORGE N. LARSON # 1	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION 1980 - S & W		Other Services: 189 NONE
Sec. 11 Twp. 20S Rge. 23E		
Permanent Datum: G.L., Elev. 4764		Elev.: K.B. -
Log Measured From K.B., - Ft. Above Perm. Datum		D.F. -
Drilling Measured From K.B.		G.I. 4764
Date	9-26-63	
Run No.	ONE	
Depth—Driller	2000	
Depth—Logger	1999	
Btm. Log Interval	1998 56.4	
Top Log Interval	157	
Casing—Driller	7" @ 156 @ @ @	
Casing—Logger	157	
Bit Size	6 1/4"	
Type Fluid in Hole	GEL-	
Dens.	9.4	40
Visc.	-	- ml
pH	-	- ml
Fluid Loss	-	- ml
Source of Sample	PIT	
R _m @ Meas. Temp.	2.0 @ 75 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	1.5 @ 75 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	PRESS -	
R _m @ BHT	1.25 @ 115 °F	@ °F @ °F @ °F
Time Since Circ.	1 HOUR	
Max. Rec. Temp.	115 °F	°F °F °F °F
Equip. Location	2598 G.J.	
Recorded By	HAMILTON	
Witnessed By	HENDERSON	

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRING WELL CISCO SPRINGS FEDERAL NO. 3 COMPANY WILLARD PEASE	COMPANY WILLARD PEASE OIL AND GAS			
	WELL CISCO SPRING FEDERAL NO. 3			
	FIELD CISCO SPRING			
	COUNTY GRAND		STATE UTAH	
	LOCATION NW/SE		Other Services:	
Sec. 11	Twp. 20S	Rge. 23E	10	
Permanent Datum: GL		Elev. ---		Elev.: K.B. ---
Log Measured From KB		10 Ft. Above Perm. Datum		D.F. ---
Drilling Measured From KB				G.L. ---
Date	4-20-74			
Run No.	ONE			
Depth—Driller	2114			
Depth—Logger	2106			
Btm. Log Interval	2105 40.7			
Top Log Interval	138			
Casing—Driller	7 @ 140	@	@	@
Casing—Logger	138			
Bit Size	6-1/4			
Type Fluid in Hole	F.G.M.			
Dens.	8.9	72		
Visc.				
pH	---	ml	ml	ml
Fluid Loss				
Source of Sample	PIT			
R _m @ Meas. Temp.	2.09 @ 78 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.57 @ 78 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M			
R _m @ BHT	--- @ --- °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HRS.			
Max. Rec. Temp.	98 °F	°F	°F	°F
Equip. Location	5602	G.J.		
Recorded By	BARGHOUTI			
Witnessed By	TRULL			

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
 FIELD CISCO SPRINGS
 LOCATION 330FEL 1980FSL
 WELL MADMAN #1
 COMPANY BOARDWALK

COMPANY BOARDWALK PETROLEUM INC
 WELL MADMAN #1
 FIELD CISCO SPRINGS
 COUNTY GRAND STATE UTAH

LOCATION 330FEL 1980FSL NESE
 API SERIAL NO. SEC. TWP RANGE
 12 20S 23E

Other Services:
 FDC-CNL-GR
 TAPING
 349

Permanent Datum: GL; Elev.: 4663
 Log Measured From KB 8 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 4671
 D.F. -
 G.L. 4663

Date	2-7-79	2-9-79		
Run No.	ONE			
Depth-Driller	2163			
Depth-Logger	1638			
Btm. Log Interval	1632 <i>A36</i>			
Top Log Interval	198			
Casing-Driller	8 5/8 @ 190	@	@	@
Casing-Logger	198			
Bit Size	6 3/4			
Type Fluid in Hole	AIR	KCL-GEL		
Dens.	-	9.0	100	
Visc.	-			
pH	-	8.5	5.2 ml	ml
Fluid Loss	-			
Source of Sample	-	TANK		
Rm @ Meas. Temp.	- @ °F	.406 @ 50 °F	@ °F	@ °F
Rmf @ Meas. Temp.	- @ °F	.521 @ 50 °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F	.78 @ 50 °F	@ °F	@ °F
Source: Rmf	-	M	C	
Rmc	-			
Rm @ BHT	- @ °F	.24 @ 90 °F	@ °F	@ °F
Circulation Stopped	-	0800		
Logger on Bottom	-	1500		
Max. Rec. Temp.	- °F	90 °F	°F	°F
Equip.	7726	G.J.		
Location				
Recorded By	OLSON			
Witnessed By	COX			

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
FIELD CISCO SPRINGS
LOCATION SW SW SW
WELL R.L. JACOBS NO. 1
COMPANY R.L. JACOBS OIL & GAS

COMPANY R.L. JACOBS GAS AND OIL CO
WELL R.L. JACOBS NO. 1
FIELD CISCO SPRINGS
COUNTY GRAND STATE UTAH

LOCATION SW SW SW
API SERIAL NO. SEC. TWP RANGE
13 20S 23E 13

Other Services:
FDC-CNL-GR
191

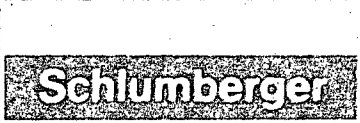
Permanent Datum: GL; Elev.: 4662
Log Measured From KB 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4672
D.F. --
G.L. 4662

Date	5-29-78					
Run No.	ONE					
Depth-Driller	1771					
Depth-Logger	1772					
Btm. Log Interval	1766 464					
Top Log Interval	137					
Casing-Driller	7	7/8@ 128	@	@	@	@
Casing-Logger	137					
Bit Size	6 1/4					
Type Fluid in Hole	FGM					
Dens.	9.2	Visc.	50			
pH	9.5	Fluid Loss	6.8ml	ml	ml	ml
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	1.48@	84F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.19@	80F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @	--F	@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	M	--				
Rm @ BHT	1.30@	96F	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	2 HOURS				
	Logger on Bottom					
	Max. Rec. Temp.	96F	°F	°F	°F	°F
Equip.	Location	7759	G.J.			
Recorded By	G.R. TAYLOR					
Witnessed By	WENTS/JACOBS					

The well name, location and borehole reference data were furnished by the customer.

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SIMULTANEOUS
**COMPENSATED NEUTRON
FORMATION DENSITY**

GRAND COUNTY CISCO SPRINGS FIELD 2280FNL 2310FEL LOCATION BROWN DIRT #1 WELL BOARDWALK PETROLEUM COMPANY	COMPANY <u>BOARDWALK PETROLEUM</u> WELL <u>BROWN DIRT #1</u> FIELD <u>CISCO SPRINGS</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>2280FNL 2310FEL</u> API SERIAL NO. SEC. TWP. RANGE <u> </u> <u>14</u> <u>20S</u> <u>23E</u>	Other Services: <u>DIL</u> <u>192</u>
---	--	---

Permanent Datum: <u>GL</u> ; Elev.: <u>4707</u> Log Measured From <u>KB</u> , <u>8</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>	Elev.: K.B. <u>4715</u> D.F. <u>--</u> G.L. <u>4707</u>
---	---

Date	1-28-78					
Run No.	ONE					
Depth-Driller	2310					
Depth-Logger	2283					
Btm. Log Interval	2283					
Top Log Interval	1200					
Casing-Driller	7" @ 153			@	@	@
Casing-Logger	--					
Bit Size	6 1/4"					
Type Fluid in Hole	SALT MUD					
Dens.	Visc.	10.2	70			
pH	Fluid Loss	7.0	0 ml	ml	ml	ml
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	.057@	60F	@	°F	@	°F
Rmf @ Meas. Temp.	.052@	60F	@	°F	@	°F
Rmc @ Meas. Temp.	-- @	--F	@	°F	@	°F
Source: Rmf	Rmc	M	--			
Rm @ BHT	@	90F	@	°F	@	°F
Circulation Stopped	1200	1-29				
Logger on Bottom	2000	1-29				
Max. Rec. Temp.		90F		°F		°F
Equip. Location	7759	G.J.				
Recorded By	TAYLOR					
Witnessed By Mr.	JACOBS/WENTS					

The well name, location and borehole reference data were furnished by the customer.

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL CISCO SPRINGS - FEDERAL NO. 4 COMPANY WILLARD PEASE	AUG 5 1975	
	COMPANY WILLARD PEASE OIL AND GAS	
	WELL CISCO SPRINGS-FEDERAL NO. 4	
	FIELD CISCO SPRINGS	
COUNTY GRAND STATE UTAH		
LOCATION NW/SW	Other Services: FDC-GR CNL-GR	
Sec. 14 Twp. 20S Rge. 23E	193	
Permanent Datum: GL, Elev. 4708		Elev.: K.B. 4718
Log Measured From KB, 10 Ft. Above Perm. Datum		D.F. ----
Drilling Measured From KB		G.L. 4708
Date	3-21-74	
Run No.	ONE	
Depth—Driller	1864	
Depth—Logger	1863	
Bfm. Log Interval	1862 ^{36.2}	
Top Log Interval	160	
Casing—Driller	7 @166	@ @ @ @
Casing—Logger	160	
Bit Size	6-1/4	
Type Fluid in Hole	F.G.M.	
Dens. Visc.	9.9 90	
pH Fluid Loss	--- -- ml	ml ml ml ml
Source of Sample	PIT	
R _m @ Meas. Temp.	2.24 @ 71 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	1.65 @ 71 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	---- @ -- °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	M --	
R _m @ BHT	---- @ -- °F	@ °F @ °F @ °F
Time Since Circ.	2 HRS.	
Max. Rec. Temp.	88 °F	°F °F °F
Equip. Location	5607 G.J.	
Recorded By	BARGHOUTI	
Witnessed By	PEASE	

The well name, location, and borehole reference data were furnished by the customer.

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL FEDERAL NO. 8 COMPANY WILLARD PEASE	COMPANY WILLARD PEASE OIL & GAS	
	WELL FEDERAL NO. 8	
	FIELD CISCO SPRINGS	
	COUNTY GRAND STATE UTAH	
	LOCATION	Other Services: NONE
Sec. <u>14</u> Twp. <u>20S</u> Rge. <u>23E</u>	<u>194</u>	
Permanent Datum: <u>GL</u> , Elev. <u>N/A</u>		Elev.: K.B. _____
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum		D.F. _____
Drilling Measured From <u>KB</u>		G.L. _____
Date	<u>2/11/75</u>	
Run No.	<u>ONE</u>	
Depth—Driller	<u>2000</u>	
Depth—Logger	<u>2005</u>	
Btm. Log Interval	<u>2004</u> <u>1.3</u>	
Top Log Interval	<u>150</u>	
Casing—Driller	<u>7 @150 @ @ @</u>	
Casing—Logger	<u>150</u>	
Bit Size	<u>6-1/4</u>	
Type Fluid in Hole	<u>GEL</u>	
Dens.	Visc.	
pH	Fluid Loss	ml ml ml ml
Source of Sample	<u>MUD PIT</u>	
R _m @ Meas. Temp.	<u>1.68 @70 °F</u>	@ °F @ °F @ °F @ °F
R _{mf} @ Meas. Temp.	<u>.352 @70 °F</u>	@ °F @ °F @ °F @ °F
R _{mc} @ Meas. Temp.	<u>@ °F</u>	@ °F @ °F @ °F @ °F
Source: R _{mf} R _{mc}	<u>MUD PRESS</u>	
R _m @ BHT	<u>1.68 @70 °F</u>	@ °F @ °F @ °F @ °F
Time Since Circ.	<u>1630</u>	
Max. Rec. Temp.	<u>70 °F</u>	°F °F °F °F
Equip. Location	<u>5602 4111</u>	
Recorded By	<u>WALKLEY-ETTER</u>	
Witnessed By	<u>TRULL</u>	

Schlumberger **INDUCTION-ELECTRICAL LOG**

195

COUNTY <u>WILLARD PEASE</u> FIELD or LOCATION <u>CISCO SPRINGS</u> WELL <u>FEDERAL NO. 9</u> COMPANY <u>WILLARD PEASE</u>	COMPANY <u>WILLARD PEASE</u> WELL <u>FEDERAL NO. 9</u> FIELD <u>CISCO SPRINGS</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION _____ Other Services: <u>NONE</u> Sec. <u>14</u> Twp. <u>20S</u> Rge. <u>23E</u>
Permanent Datum: <u>GL</u> Elev. _____ Log Measured From <u>KB</u> Ft. Above Perm. Datum _____ Drilling Measured From <u>KB</u> Elev.: <u>K.B.</u> _____ D.F. _____ _____ G.L. _____	
Date <u>2/13/75</u> Run No. <u>ONE</u> Depth—Driller <u>1835</u> Depth—Logger <u>1841</u> Rim. Log Interval <u>1840 79.7</u> Top Log Interval <u>152</u> Casing—Driller <u>7" @ 151 @ @ @</u> Casing—Logger <u>152</u> Bit Size <u>6-1/4</u> Type Fluid in Hole <u>GEL</u>	
Dens. Visc. _____ pH Fluid Loss _____ ml _____ ml _____ ml _____ ml Source of Sample: <u>MUD PIT</u> R ₁ @ Meas. Temp. <u>1.14 @ 78 °F</u> @ °F @ °F @ °F @ °F R ₂ @ Meas. Temp. <u>.81 @ 78 °F</u> @ °F @ °F @ °F @ °F R ₃ @ Meas. Temp. _____ @ °F @ °F @ °F @ °F Source: R ₁ R ₂ <u>MUD</u> R ₃ @ BHT <u>71 @ 125F</u> @ °F @ °F @ °F @ °F Time Since Circ. <u>0503</u> Max. Rec. Temp. <u>125</u> °F @ °F @ °F @ °F Equip. Location <u>5602 4111</u> Recorded By <u>WALKLEY-GEGER</u> Witnessed By <u>TRULL</u>	

The well name, location and borehole reference data were furnished by the customer.

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 MIDLAND, TEXAS 79701

REFERENCE K 6782F

9 COMPLETION RECORD

SPUD DATE
COMP DATE
DST RECORD
API NO.
CASING RECORD

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL FEDERAL NO. 12 COMPANY WILLARD PEASE OIL	COMPANY WILLARD PEASE OIL & GAS		AUG 5 1975	
	WELL FEDERAL NO. 12			
	FIELD CISCO SPRINGS			
	COUNTY GRAND		STATE UTAH	
LOCATION 16		Other Services: CNL/FDC-GR 196		
Sec. 14 Twp. 20S Rge. 23E				
Permanent Datum: GL., Elev. N/A		Elev.: K.B. _____		
Log Measured From KB, 10 Ft. Above Perm. Datum		D.F. _____		
Drilling Measured From KB		G.L. _____		
Date	3/9/75			
Run No.	03E			
Depth—Driller	2355			
Depth—Logger	2370			
Btm. Log Interval	2359 35.4			
Top Log Interval	150			
Casing—Driller	7 @ 148'	@	@	@
Casing—Logger	150			
Bit Size	5-1/4"			
Type Fluid in Hole	GEL			
Dens.	Visc.			
pH	Fluid Loss	ml	ml	ml
Source of Sample	MIDPIT			
R _m @ Meas. Temp.	1.64 @ 59 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.73 @ 72 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MJD PRESS			
R _m @ BHT	1.1 @ 97 °F	@ °F	@ °F	@ °F
Time Since Circ.	1000			
Max. Rec. Temp.	97 °F	°F	°F	°F
Equip. Location	5602 4111			
Recorded By	ETTEL			
Witnessed By	MR. TRULL			

The well name, location and borehole reference data were furnished by the customer.

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL CISCO SPRINGS COMPANY PEASE OIL & GAS NO. 2	COMPANY PEASE OIL AND GAS	
	WELL CISCO SPRINGS NO. 2	
	FIELD CISCO SPRINGS	
	COUNTY GRAND	STATE UTAH
LOCATION NW/SW		Other Services: 197
Sec. 15	Twp. 20S	Rge. 23E
Permanent Datum: GL, Elev. _____		Elev.: K.B. _____
Log Measured From KB, 10 Ft. Above Perm. Datum		D.F. _____
Drilling Measured From KB		G.I. _____
Date	4-14-74	
Run No.	ONE	
Depth—Driller	2146	
Depth—Logger	2147	
Btm. Log Interval	2143 ^{33.2}	
Top Log Interval	134	
Casing—Driller	7 @ 135	@ @ @ @
Casing—Logger	134	
Bit Size	6-1/4	
Type Fluid in Hole	F.G.M.	
Dens.	8.5	64
Visc.		
pH	---	-- ml
Fluid Loss		ml
Source of Sample	FLOWLINE	
R _m @ Meas. Temp.	7.3 @ 60 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	5.0 @ 60 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	16.0 @ 60 °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	C C	
R _m @ BHT	---- @ -- °F	@ °F @ °F @ °F
Time Since Circ.	----	
Max. Rec. Temp.	90 °F	°F °F °F °F
Equip. Location	5639 VERNAL	
Recorded By	MIXA	
Witnessed By	TRULL	

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD of LOCATION WILDCAT WELL CULLEN #1 COMPANY THREE STATES NATURAL GAS CO.	COMPANY THREE STATES NATURAL GAS CO. WELL CULLEN #1 FIELD WILDCAT LOCATION SEC. 15-20S-23E COUNTY GRAND STATE UTAH	Location of Well 3301' FR N/L 3301' FR E/L SEC. 15-20S-23E ES (ML) Elevation: D.F.: K.B.: 4756 or G.L.: 4746 FILING No. 198
--	--	--

RUN No.	ONE	TWO			
Date	6-15-55	9/2/55			
First Reading	1552 ^{57.5}	2590 ^{42.9}			
Last Reading	158	1600			
Feet Measured	1394	990			
Csg. Schlum.	158	1600			
Csg. Driller	158	1600			
Depth Reached	1553	2591			
Bottom Driller	UNKNOWN	2589			
Depth Datum	KB	10' ABOVE GL			
Mud Nat.	CHEM	GEL-CHEM			
" Density	8.6	10.5			
" Viscosity	45	50			
" Resist.	1.5 @ 67°F	2.2 @ 89°F	@ °F	@ °F	@ °F
" Res. BHT	1.0 @ 100°F	1.8 @ 112°F	@ °F	@ °F	@ °F
" pH	@ °F	-- @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	CC 30 min.	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	100	112			
Bit Size	8 3/4"	6 1/4"			
Spcgs.—AM	16"	16"			
AM'	64"	64"			
AO	18' 8"	18' 8"			
Opr. Rig Time	2 HRS.	1 HR			
Truck No.	754 FARM	1773 FARM			
Recorded By	HAMILTON	COX			
Witness By	SPRAGG	ZABRISKIE			

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT LOCATION SE/NE 1100 FEL 1842 FNL FEDERAL CISCO #1 WELL COMPANY CISCO DRILLING & DEVELOPMENT CO.

COMPANY CISCO DRILLING & DEVELOPMENT CO.

WELL FEDERAL CISCO #1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION SE/NE 1100 FEL 1842 FNL

Other Services: FDC-CNL-GR TAPING 199

API SERIAL NO.	SEC.	TWP	RANGE
	27	20S	23E 8

Permanent Datum: GROUND LEVEL; Elev.: 4838

Log Measured From KB 10 Ft. Above Perm. Datum

Drilling Measured From KELLY BUSHING

Elev.: K.B. 4848

D.F. _____

G.I. 4838

Date	29 SEPT. 78					
Run No.	ONE					
Depth-Driller	2290					
Depth-Logger	2284					
Btm. Log Interval	2278 29.6					
Top Log Interval	161					
Casing-Driller	7-5/8@	163	@	@	@	@
Casing-Logger	161					
Bit Size	6-1/2					
Type Fluid in Hole	FGM					
Dens.	9.8	118				
Visc.						
pH	--	-- ml		ml	ml	ml
Fluid Loss						
Source of Sample	MUD TANK					
Rm @ Meas. Temp.	2.3 @ 71 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.7 @ 71 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.5 @ 71 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	C	C				
Rmc						
Rm @ BHT	2.4 @ 88 °F	@ °F	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	0000 9-30				
	Logger on Bottom	0500 9-30				
Max. Rec. Temp.	88 °F	°F	°F	°F	°F	°F
Equip. Location	7726 4111	GRAND JUNCTION				
Recorded By	BRATTON					
Witnessed By	MR. QUIGLEY					

The well name, location and borehole reference data were furnished by the customer.

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5 SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY GRAND FIELD WILDCAT LOCATION NEW 27-20S-23E WELL CISCO #3 COMPANY CISCO DRILLING	COMPANY <u>CISCO DRILLING & DEVELOPMENT CO</u>			
	WELL <u>CISCO #3</u>			
	FIELD <u>WILDCAT</u>			
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>	
	LOCATION	<u>NENW</u>		
API SERIAL NO.	SEC.	TWP.	RANGE	Other Services:
<u>43-019-30404</u>	<u>27</u>	<u>20S</u>	<u>23E</u>	DIL <u>200</u> CE-11

Permanent Datum: <u>GL</u> ; Elev.: <u>4870</u>	Elev.: K.B. <u>4880</u>
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum	D.F. <u>--</u>
Drilling Measured From <u>KB</u>	G.L. <u>4870</u>

Date	<u>4-30-78</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>2501</u>					
Depth-Logger	<u>2505</u>					
Btm. Log Interval	<u>2504</u> ^{2A}					
Top Log Interval	<u>1500</u>					
Casing-Driller	<u>7 5/8</u>	<u>@128</u>		<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>--</u>					
Bit Size	<u>6 1/2</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>--</u>				
pH	Fluid Loss	<u>--</u>	<u>-- ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>
Source of Sample	<u>MUDTANK</u>					
Rm @ Meas. Temp.	<u>1.17</u>	<u>@ 70°F</u>		<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Rmf @ Meas. Temp.	<u>1.03</u>	<u>@ 64°F</u>		<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Rmc @ Meas. Temp.	<u>--</u>	<u>@ --°F</u>		<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Source: Rmf	Rmc	<u>M</u>				
Rm @ BHT	<u>.77</u>	<u>@ 92°F</u>		<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
TIME	Circulation Stopped	<u>0100</u>	<u>5-01</u>			
	Logger on Bottom	<u>0430</u>	<u>5-01</u>			
	Max. Rec. Temp.	<u>92°F</u>		<u>°F</u>	<u>°F</u>	<u>°F</u>
Equip.	Location	<u>7759</u>	<u>G.J.</u>			
Recorded By	<u>GRTAYLOR</u>					
Witnessed By Mr.	<u>QUIGLEY/JACOBS</u>					

RETURN
TO
CASPER

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
FIELD or LOCATION WILDCAT
WELL CISCO FEDERAL #4
COMPANY CISCO DRILLING

COMPANY CISCO DRILLING & DEV

WELL CISCO FEDERAL NO. 4

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location. API Serial No. 43-019-30408

SE-NE-SW

Sec. 27 Twp. 20S Rge. 23E

Other Services:

FDC-CNL-GR

CC-9 201

Permanent Datum: GL; Elev.: 4845
Log Measured From: KB, 10 Ft. Above Perm. Datum
Drilling Measured From: KB

Elev.: K.B. 4855
D.F. --
G.L. 4845

Date	5-16-78					
Run No.	ONE					
Depth-Driller	2351					
Depth-Logger	2351					
Btm. Log Interval	2345 34.2					
Top Log Interval	138					
Casing-Driller	7 5/8 @ 138			@	@	@
Casing-Logger	138					
Bit Size	6 1/2					
Type Fluid in Hole	FGM					
Fluid Level	170					
Dens.	Visc.	9.4 35				
pH	Fluid Loss	12.0 14.0ml		ml	ml	ml
Source of Sample	CIRCULATED					
R _m @ Meas. Temp.	0.85 @ 80°F		@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.67 @ 80°F		@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.28 @ 80°F		@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M C					
R _m @ BHT.	0.73 @ 95°F		@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS					
Max. Rec. Temp.	95°F		°F	°F	°F	°F
Equip. Location	5642 G.J.					
Recorded By	LAUDE					
Witnessed By	DON QUIGLEY					

RETURN TO CASPER

The well name, location and borehole reference data were furnished by the customer.

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COMPENSATED NEUTRON
FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION 660' FNL 1980' FWL WELL #1 GRYNBERG 36-20-23 COMPANY SUPRON ENERGY	COMPANY SUPRON ENERGY			
	WELL #1 GRYNBERG 36-20-23			
	FIELD WILDCAT			
	COUNTY GRAND	STATE UTAH		
LOCATION	660' FNL 1980' FWL			
	NE $\frac{1}{4}$ NW $\frac{1}{4}$			
API SERIAL NO.	SEC.	TWP.	RANGE	Other Services:
36	20S	23E		DIL TAPING 202
Permanent Datum: GL _____, Elev.: 4501			Elev.: K.B. 4511	
Log Measured From KB _____, 10 Ft. Above Perm. Datum,			D.F. --	
Drilling Measured From KB _____			G.L. 4501	
Date	10-28-78			
Run No.	ONE			
Depth--Driller	1844			
Depth--Logger	1851			
Btm. Log Interval	1841 15.1			
Top Log Interval	215			
Casing--Driller	8-5/8@ 214	@	@	@
Casing--Logger	215			
Bit Size	7-7/8			
Type Fluid in Hole	FGM			
Dens.	Visc.	10.0	101	
pH	Fluid Loss	10.0	3.6 ml	ml
Source of Sample	TANK			
Rm @ Meas. Temp.	1.19 @ 68 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.94 @ 68 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.79 @ 68 °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M	C	
Rm @ BHT	1.06 @ 77 °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	0830		
	Logger on Bottom	1400		
	Max. Rec. Temp.	77 °F	°F	°F
Equip.	Location	7759 GRAND JUNCTION	4111	
Recorded By	KRABACHER			
Witnessed By Mr.	MR. QUIGLEY			

SWS-1872-1

The well name, location and borehole reference data were furnished by the customer.

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24E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION SIEBER NOSE WELL LARSON STATE # 1 COMPANY BELGAN WESTERN CORPORATION	COMPANY BELGAN WESTERN <i>McMillen Johnson</i> CORPORATION	Other Surveys NONE
	WELL LARSON LARSON STATE # 1	Location of Well
	FIELD SIEBER NOSE	
	LOCATION SEC. 2-24 ^E -20 ^S	
	COUNTY GRAND	Elevation: D.F.: K.B. 4604.5 or G.L.: 4601
STATE UTAH	FILING No. 100 203	

RUN No.	ONE				
Date	8-12-62				
First Reading	1663 ^{29.5}				
Last Reading	112				
Feet Measured	1551				
Csg. Schlum.	112				
Csg. Driller	105				
Depth Reached	1664				
Bottom Driller	1665				
Depth Datum	KB				
Mud Nat.	CHEM-GEL				
Dens. Visc.	9.3 38				
Mud Resist.	4.12 @ 73 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	3.5 @ 87 °F	@ °F	@ °F	@ °F	@ °F
Rmf	2.86 @ 73 °F	@ °F	@ °F	@ °F	@ °F
Rmc	3.4 @ 73 °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
AN	64"				
AO	18' 8"				
Opr. Rig Time					
Truck No.	1593 V				
Recorded By	LEDY				
Witness	JOHNSON				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION SIEBER NOSE WELL LARSEN STATE # 2 COMPANY BELGAM WESTERN CORPORATION	COMPANY BELGAM WESTERN CORPORATION	Other Surveys NONE
	WELL LARSEN-STATE # 2	Location of Well SEC 2-20S-24E NW-NE-NW
	FIELD SIEBER NOSE	Elevation: D.F.: _____ K.B. 4573.5 or G.L. 4569.5
	LOCATION SEC 2-20S-24E 3 NW-NE-NW	<i>MAM</i>
	COUNTY GRAND	FILING No. 284
	STATE UTAH	

RUN No.	ONE				
Date	8-30-62				
First Reading	1602 31.4				
Last Reading	115				
Feet Measured	1487				
Csg. Schlum.	115				
Csg. Driller	108				
Depth Reached	1603				
Bottom Driller	1601				
Depth Datum	K.B.				
Mud Nat.	GEL				
Dens. Visc.	9.6 46				
Mud Resist.	3.8 @ 68' F	@ "F	@ "F	@ "F	@ "F
" Res. BHT	3.0 @ 86' F	@ "F	@ "F	@ "F	@ "F
Rmf C	2.7 @ 86' F	@ "F	@ "F	@ "F	@ "F
Rmc C	2.5 @ 86' F	@ "F	@ "F	@ "F	@ "F
" pH	-- @ "F	@ "F	@ "F	@ "F	@ "F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
AM	64"				
AO	18' 8"				
Opr. Rig Time	1 HOUR				
Truck No.	3529 G.J.				
Recorded By	MONTGOMERY				
Witness	JOHNSON				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION SIEBER NOSE WELL LARSEN STATE # 2 COMPANY BELGAM WESTERN CORPORATION	COMPANY	BELGAM WESTERN CORPORATION	Other Surveys	NONE
	WELL	LARSEN-STATE # 2	Location of Well	SEC 2-20S-24E NW-NE-NW
	FIELD	SIEBER NOSE	Elevation: D.F.:	
	LOCATION	SEC 2-20S-24E 6 NW-NE-NW	K.B. 4573.5	
	COUNTY	GRAND	or G.I. 4569.5	
	STATE	UTAH	<i>MAM</i>	FILING No. 209

RUN No.	ONE				
Date	8-30-62				
First Reading	1602				
Last Reading	115				
Feet Measured	1487				
Csg. Schlum.	115				
Csg. Driller	108				
Depth Reached	1603				
Bottom Driller	1601				
Depth Datum	K. B.				
Mud Nat.	GEL				
Dens. Visc.	9.6 46				
Mud Resist.	3.8 @ 68 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	3.0 @ 86 °F	@ °F	@ °F	@ °F	@ °F
Rmf C	2.7 @ 86 °F	@ °F	@ °F	@ °F	@ °F
Rmc C	2.5 @ 86 °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
AM	64"				
AO	18'8"				
Opr. Rig Time	1 HOUR				
Truck No.	3529 G. J.				
Recorded By	MONTGOMERY				
Witness	JOHNSON				

Schlumberger

INDUCTION - GAMMA RAY LOG

COUNTY GRAND
FIELD or LOCATION SEIBER NOSE
WELL STATE #2
COMPANY COMBINED OIL & GAS

COMPANY COMBINED OIL AND GAS

WELL STATE #2

FIELD SEIBER NOSE

COUNTY GRAND STATE UTAH

LOCATION NW NW 774E 421S

Other Services:

Sec. 2 Twp. 20S Rge. 24E

350

Permanent Datum: GL, Elev. 4546
Log Measured From KB, 9 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4566
D.F. ----
G.L. 4557

Date	2/4/77				
Run No.	ONE				
Depth—Driller	1588				
Depth—Logger	1589				
Btm. Log Interval	1583 50.1				
Top Log Interval	103				
Casing—Driller	7" @ 103	@	@	@	@
Casing—Logger	103				
Bit Size	6 1/4				
Type Fluid in Hole	POLYMER				
Dens.	Visc.	---	---		
pH	Fluid Loss	---	-- ml	ml	ml
Source of Sample	FLOW LINE				
R _m @ Meas. Temp.	.55 @ 58°F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.61 @ 58°F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --°F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MEAS ---				
R _m @ BHT	.33 @ 95°F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS				
Max. Rec. Temp.	95°F	°F	°F	°F	°F
Equip. Location	7759 G.J.				
Recorded By	GEIGER				
Witnessed By	JACOBS				

The information contained herein was furnished by the customer.

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

COUNTY GRAND FIELD or LOCATION WILDCAT WELL NO. 1-A DUCHESS COMPANY DELILA A. COOK	COMPANY DELILA A. COOK		
	WELL NO. 1-A DUCHESS		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
LOCATION 1292' FNL & 2340' FEL		Other Services:	
Sec. 2	Twp. 20 S	Rge. 24 E	NONE <i>WT</i> 205

Permanent Datum: GI, Elev. 4595	Elev.: K.B. ---
Log Measured From KR, 0 Ft. Above Perm. Datum	D.F. ---
Drilling Measured From KR	G.I. 4595

Date	10-17-70			
Run No.	ONE			
Depth—Driller	1338			
Depth—Logger	1331			
Btm. Log Interval	1330-534			
Top Log Interval	100			
Casing—Driller	7 7/8 @ 95	@	@	@
Casing—Logger	---			
Bit Size	6 1/4			
Type Fluid in Hole	NATIVE			
Dens.	11	40		
pH	---	---	ml	ml
Fluid Loss	---	---	ml	ml
Source of Sample	FLOWLINE			
R _m @ Meas. Temp.	3.60 @ 70 °F	@	°F	@ °F
R _{mf} @ Meas. Temp.	3.05 @ 74 °F	2.51 @ 90 °F	@	°F @ °F
R _{mc} @ Meas. Temp.	---	@	°F	@ °F
Source: R _{mf} R _{mc}	M	---		
R _m @ BHT	2.80 @ 90 °F	@	°F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	90 °F		°F	°F
Equip. Location	5639 VERNAL			
Recorded By	LARRY HARTNETT			
Witnessed By	MRS. DELILA AND MR. ROY COOK			

INDUCTION

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION SEIBER NOSE WELL PROMONTORY FEDERAL UTI # 1 COMPANY PROMONTORY OIL	COMPANY PROMONTORY OIL COMPANY	
	WELL PROMONTORY FEDERAL UTI # 1	
	FIELD SEIBER NOSE	
	COUNTY GRAND STATE UTAH	
LOCATION 2800' FEL-433' FNL		Other Services: NONE 206
Sec. 2 Twp. 20S Rge. 24E 3		
Permanent Datum: G.L. EST., Elev. 4600		Elev.: K.B. -
Log Measured From G.L., 0 Ft. Above Perm. Datum		D.F. -
Drilling Measured From G.L.		EST G.L. 4600
Date	5-18-64	
Run No.	ONE	
Depth—Driller	1500	
Depth—Logger	1497	
Btm. Log Interval	1496 ^{51.6}	
Top Log Interval	120	
Casing—Driller	- @ -	@ @ @
Casing—Logger	-	
Bit Size	6 3/4"	
Type Fluid in Hole	GEL	
	CHEMICALS	
Dens.	9.4	38
Visc.	-	- ml
pH	Fluid Loss	- ml
Source of Sample	FLOW LINE	
R _m @ Meas. Temp.	0.94 @ 80°F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	0.70 @ 82°F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	1.45 @ 82°F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	C C	
R _m @ BHT.	0.92 @ 82°F	@ °F @ °F @ °F
Time Since Circ.	1 HOUR	
Max. Rec. Temp.	82 °F	°F °F °F
Equip.	Location 2598 G.J.	
Recorded By	MONTGOMERY	
Witnessed By	JACOBS	

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND
 FIELD or LOCATION AGATE
 WELL LANSDALE-FEDERAL
 NO. 2
 COMPANY WALTER BROADHEAD

COMPANY WALTER BROADHEAD

WELL LANSDALE-FEDERAL NO. 2

FIELD AGATE

COUNTY GRAND STATE UTAH

LOCATION SE/SE 890' FSL, 330' FWL 13
 Sec. 4 Twp. 20S Rge. 24E

Other Services:
 207

Permanent Datum: GL, Elev. 4589
 Log Measured From KB, 0 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. ----
 D.F. ----
 G.I. 4589

Date	10-25-73				
Run No.	ONE				
Depth—Driller	1650				
Depth—Logger	1663				
Btm. Log Interval	1659 42.8				
Top Log Interval	100				
Casing—Driller	7 @ 100	@	@	@	@
Casing—Logger	----				
Bit Size	6-1/4				
Type Fluid in Hole	F.G.M.				
Dens.	Visc.	---	---		
pH	Fluid Loss	---	---	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	3.20 @ 69 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.93 @ 70 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	---- @ -- °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M --				
R _m @ BHT	---- @ 90 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HRS.				
Max. Rec. Temp.	90 °F	°F	°F	°F	°F
Equip. Location	7660 G.J.				
Recorded By	SCHNORR				
Witnessed By	BROADHEAD				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION AGATE WELL GOVERNMENT # 1 COMPANY C. L. KEAS	COMPANY <u>C. L. KEAS</u>	Other Surveys NONE
	WELL <u>GOVERNMENT # 1</u>	Location of Well SEC 5-20S-24E 330' FSL - 990' FEL
	FIELD <u>AGATE</u>	//
	LOCATION <u>SEC 5-20S-24E</u> <u>330' FSL-990' FEL</u>	Elevation: K.B.: D.F.: or G.L.: <u>4593</u>
	COUNTY <u>GRAND</u>	FILING No. 208
	STATE <u>UTAH</u>	

RUN No.	ONE	TWO			
Date	11-24-62	11-25-62			
First Reading	1648	1682			
Last Reading	99	1440			
Feet Measured	1549	242			
Csg. Schlum.	99	-			
Csg. Driller	100	100			
Depth Reached	1649	1683			
Bottom Driller	1657	1682			
Depth Datum	G.L.	G.L.			
Mud Nat.	CHEM	CHEM			
Dens. Visc.	-	-			
Mud Resist.	4.82 @ 54 °F	5.7 @ 48 °F	@ °F	@ °F	@ °F
" Res. BHT	3.3 @ 82 °F	3.6 @ 82 °F	@ °F	@ °F	@ °F
Rmf	3.84 @ 62 °F	4.6 @ 60 °F	@ °F	@ °F	@ °F
Rmc	3.9 @ 60 °F	4.7 @ 60 °F	@ °F	@ °F	@ °F
pH	- @ - °F	- @ - °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"	6 1/4"			
Spcgs.—AM	16"	16"			
MN	34' 6"	34' 6"			
IND.	6FF40	6FF40			
Opr. Rig Time	1 HOUR	1/2 HOUR			
Truck No.	3529 G.J.	3529 G.J.			
Recorded By	WARNER	WARNER			
Witness	MR. FEESE	MR. FEESE			

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Larsen</u>	Other Surveys <u>None</u>	
		<u>Enterprises</u>	
	WELL: <u>Larsen-Pease</u>	Location of Well <u>Field</u>	
		<u>#2</u>	<u>Print</u>
	FIELD <u>Seiber Nose</u>		<u>cc</u>
LOCATION <u>Sec 5-205-24E</u>	830' F.W.L., 790' F.W.L.	Elevation: D.F.: _____	
		K.B.: _____	
COUNTY <u>Grand</u>		or G.L.: _____	
STATE <u>Utah</u>		FILING No. <u>209</u>	

RUN No.	<u>One</u>				
Date	<u>2/5/60</u>				
First Reading	<u>1628</u>	<u>7A.2</u>			
Last Reading	<u>110</u>				
Feet Measured	<u>1518</u>				
Csg. Schlum.	<u>-</u>				
Csg. Driller	<u>-</u>				
Depth Reached	<u>1634</u>				
Bottom Driller	<u>1633</u>				
Depth Datum	<u>K.B</u>				
Mud Nat.	<u>Gel</u>				
Dens. Visc.	<u>10.1155</u>				
Mud Resist.	<u>3.7 @ 68 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>3.0 @ 86 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	<u>3.0 @ 68 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	<u>2.5 @ 86 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>- @ °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>- CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6 3/4</u>				
Spcgs.—AM	<u>16"</u>				
MN	<u>27' 2"</u>				
IND.	<u>5FF40</u>				
Opr. Rig Time	<u>1 1/2 hr.</u>				
Truck No.	<u>1523</u>				
Recorded By	<u>Weaver</u>				
Witness	<u>Pease</u>				

Schlumberger

INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD AGATE LOCATION SW/SE WELL BOWERS FEDERAL 6-1 COMPANY BOWERS OIL & GAS	COMPANY <u>BOWERS OIL & GAS EXPLORATION</u> WELL <u>BOWERS FEDERAL 6-1</u> FIELD <u>AGATE</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u>				
LOCATION SW/SE API SERIAL NO. SEC. TWP RANGE	LOCATION <u>SW/SE</u> API SERIAL NO. <u>6</u> SEC. <u>20S</u> TWP <u>24E</u> RANGE <u>15</u> Other Services: <u>FDC-CNL-GR</u> <u>TAPING</u> <u>210</u>				
Permanent Datum: <u>GL</u> ; Elev.: <u>4695</u> Log Measured From <u>KELLY BUSHING 8</u> Ft. Above Perm. Datum Drilling Measured From <u>KELLY BUSHING</u>					
Elev.: K.B. <u>4703</u> D.F. _____ G.L. <u>4695</u>					
Date	9-16-78				
Run No.	ONE				
Depth-Driller	2115				
Depth-Logger (Schl.)	2122				
Btm. Log Interval	2116: 31.9				
Top Log Interval	181				
Casing-Driller	7" @ 173	@	@	@	@
Casing-Logger	181				
Bit Size	6 1/4				
Type Fluid in Hole	CGM				
Dens.	Visc.	10.2	44		
pH	Fluid Loss	-	- ml	ml	ml
Source of Sample	FLOW LINE				
Rm @ Meas. Temp.	.379 @ 85 °F	@	°F	@	°F
Rmf @ Meas. Temp.	.368 @ 85 °F	@	°F	@	°F
Rmc @ Meas. Temp.	.57 @ 85 °F	@	°F	@	°F
Source: Rmf Rmc	M C				
Rm @ BHT	.378 @ 88 °F	@	°F	@	°F
TIME	Circulation Stopped	1600			
	Logger on Bottom	1900			
	Max. Rec. Temp.	88	°F	°F	°F
Equip.	Location	7726	GJ		
Recorded By	BRATTON				
Witnessed By Mr.	BOWERS/BURKHALTER				

The well name, location and borehole reference data were furnished by the customer.

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WIRELINE SERVICES
GEARHART-OWEN

INDUCTION
GAMMA-RAY LOG

FILING NO.	COMPANY <u>JAMES E. BOWERS</u>			
	WELL <u>BOWERS-FEDERAL NO. 1-7</u>			
	FIELD <u>CISCO</u>			
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>	
	LOCATION: <u>1520 FEL & 2340 FNL</u> SEC <u>7</u> TWP <u>20 S</u> RGE <u>24 E</u>			
				Other Services CDL/SNP/GR AID/HVI 211
Permanent Datum <u>GROUND LEVEL</u> Elev. <u>4648</u>				Elevations: KB <u>4653</u>
Log Measured from <u>K.B.</u> , <u>6</u> Ft. Above Permanent Datum				DF <u>----</u>
Drilling Measured from <u>K.B.</u>				GL <u>4648</u>
Date	<u>28 JAN. 1978</u>			
Run No.	<u>ONE</u>			
Depth—Driller	<u>2080</u>			
Depth—Logger	<u>2079</u>			
Bottom Logged Interval	<u>2078</u> <i>31.6</i>			
Top Logged Interval	<u>149</u>			
Casing—Driller	<u>7" @ 148</u>	@	@	@
Casing—Logger	<u>149</u>			
Bit Size	<u>6 1/4</u>			
Type Fluid in Hole	<u>BRINE-POLYMER</u>			
	@	@	@	@
Density and Viscosity	---	---		
pH and Fluid Loss	---	---	cc	cc
Source of Sample	<u>PIT</u>			
Rm @ Meas. Temp.	<u>.075 @ 58 °F</u>	@	°F	@
Rmf @ Meas. Temp.	<u>.060 @ 52 °F</u>	@	°F	@
Rmc @ Meas. Temp.	<u>.150 @ 59 °F</u>	@	°F	@
Source of Rmf and Rmc	<u>M</u>		<u>M</u>	
Rm @ BHT	<u>.05 @ 87 °F</u>	@	°F	@
Time Since Circ.	<u>ONE HOUR</u>			
Max. Rec. Temp. Deg. F.	<u>87</u>	°F	°F	°F
Equip. No. and Location	<u>7532 G.J.</u>			
Recorded By	<u>HAMILTON-DEWITT</u>			
Witnessed By	<u>MR. BURKHARTER</u>			

SCHLUMBERGER

INDUCTION ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>WILLIAM G. BUSH</u>
	WELL <u>FEE STRAIGHT 8-1</u>
	FIELD <u>WILDCAT</u> <u>JAM OK</u> <u>BWH</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
LOCATION <u>NW NW NW 4</u>	Other Services: <u>NONE</u>
Sec. <u>8</u> Twp. <u>20 S</u> Rge. <u>24 E</u>	<u>212</u>

Permanent Datum: <u>G.L.</u> , Elev. <u>4642</u>	Elev.: K.B. <u>—</u>
Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum	D.F. <u>—</u>
Drilling Measured From <u>G.L.</u>	G.L. <u>4642</u>

Date	<u>10-26-64</u>			
Run No.	<u>one</u>			
Depth—Driller	<u>1853</u>			
Depth—Logger	<u>1849</u>			
Btm. Log Interval	<u>1848</u> ^{3 3/4}			
Top Log Interval	<u>100</u>			
Casing—Driller	<u>7' @ 98'</u>	@	@	@
Casing—Logger	<u>—</u>			
Bit Size	<u>6 1/4"</u>			
Type Fluid in Hole	<u>GEC.</u> <u>CHEMICAL</u>			
Dens.	<u>10.0</u>			
Visc.	<u>42</u>			
pH	<u>—</u>			
Fluid Loss	<u>— ml</u>			
Source of Sample	<u>FLOW Line</u>			
R _m @ Meas. Temp.	<u>3.57 @ 68 °F</u>	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>2.55 @ 68 °F</u>	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>— @ — °F</u>	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>FP C</u>			
R _m @ BHT	<u>2.9 @ 85 °F</u>	@ °F	@ °F	@ °F
Time Since Circ.	<u>2 HRS.</u>			
Max. Rec. Temp.	<u>85 °F</u>	°F	°F	°F
Equip. Location	<u>2598 G-5</u>			
Recorded By	<u>Montgomery</u>			
Witnessed By	<u>BUSH</u>			

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SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL EPIE C-2 COMPANY RAPHAEL PUMPELLY	COMPANY	RAPHAEL PUMPELLY	Other Surveys SL
	WELL	EPIE C-2	
	FIELD	WILDCAT	
	LOCATION	SEC. 8-20S-24E / SE / NE / NE	
		COUNTY	GRAND
	STATE	UTAH	FILING No.

RUN No.	ONE				
Date	10-18-61-				
First Reading	1586 37.9				
Last Reading	200				
Feet Measured	1386				
Csg. Schlum.					
Csg. Driller					
Depth Reached	1587				
Bottom Driller	1587				
Depth Datum	GL				
Mud Nat.	CHEM GFI				
Dens. Visc.	NA NA				
Mud Resist.	1.70 @ 65 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.40 @ 84 °F	@ °F	@ °F	@ °F	@ °F
Rmf	1.2 @ 84 °F	@ °F	@ °F	@ °F	@ °F
Rmc	@ °F	@ °F	@ °F	@ °F	@ °F
" pH	NA @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	NA CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6"				
Spcgs.—AM	16"				
MN	34"-6"				
IND.	6FF40				
Opr. Rig Time	1 HOUR				
Truck No.	3501 CRIZ				
Recorded By	CLAYTON				
Witness	MR. WHITE				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Raphael Pompelly</u>	Other Surveys <u>ML</u>
	WELL <u>Eppie C. #4</u>	Location of Well <u>Field</u> <u>Print</u> <u>Tight</u>
	FIELD <u>Agate</u>	Elevation: D.F.: K.B.: or G.L.: <u>4583.9</u>
	LOCATION <u>Sec. 8-205-24E</u> <u>8</u>	FILING No. <u>214</u>
	COUNTY <u>Grand</u>	STATE <u>Utah</u>

RUN No.	<u>one</u>				
Date	<u>6/15/62</u>				
First Reading	<u>1562</u> <small>49.2</small>				
Last Reading	<u>100</u>				
Feet Measured	<u>1462</u>				
Csg. Schlum.	<u>100</u>				
Csg. Driller	<u>100</u>				
Depth Reached	<u>1563</u>				
Bottom Driller	<u>1566</u>				
Depth Datum	<u>Ground level</u>				
Mud Nat.	<u>gel-chem</u>				
Dens. Visc.	<u>9.5 36</u>				
Mud Resist.	<u>2.60 @ 74 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>2.18 @ 88 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	<u>2.52 @ 74 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	<u>3.78 @ 74 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>9.5 @ °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>5.0 CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6/8</u>				
Spcgs.—AM	<u>16"</u>				
MN	<u>34'6"</u>				
IND.	<u>6FF40</u>				
Opr. Rig Time	<u>1.50</u>				
Truck No.	<u>2517 Vernal</u>				
Recorded By	<u>Langill</u>				
Witness	<u>Staug</u>				

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Induction-Electrical Log

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Raphael Pumpelly</u>	Other Surveys
	WELL <u>Fee #1</u>	Location of Well <u>Field</u>
	FIELD <u>Wildcat</u>	<u>Print</u>
	LOCATION <u>Sec 8-20-24 E 1</u>	Elevation: D.F.: _____
	<u>NE NE NE</u>	K.B.: <u>4586</u> or G.L.: <u>4583</u>
COUNTY <u>Grand</u>	FILING No. <u>215</u>	
STATE <u>Utah</u>		

RUN No.	<u>TWO</u>				
Date	<u>12-20-60</u>				
First Reading	<u>1610</u>	<u>40.6</u>			
Last Reading	<u>1170</u>				
Feet Measured	<u>440</u>				
Csg. Schlum.	<u>34</u>				
Csg. Driller	<u>63</u>				
Depth Reached	<u>1616</u>				
Bottom Driller	<u>1615</u>				
Depth Datum	<u>K.B. 3' Above G.C.</u>				
Mud Nat.	<u>Gel-Chem</u>				
Dens. Visc.	<u>9.5</u>	<u>40</u>			
Mud Resist.	<u>6.0 @ 51 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>3.7 @ 87 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	<u>C 3.4 @ 87 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	<u>C 3.1 @ 87 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	@ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>	<u>CC 30 min.</u>
Bit Size	<u>6"</u>				
Spcgs. — AM	<u>16"</u>				
MN	<u>27'2"</u>				
IND.	<u>5 FF40"</u>				
Opr. Rig Time	<u>1 hr.</u>				
Truck No.	<u>1523 G.I.T.</u>				
Recorded By	<u>Montgomery</u>				
Witness	<u>White</u>				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Raphael</u>	Other Surveys <u>NONE</u>
	<u>Pumpelly</u>	Location of Well <u>Field</u>
	WELL <u>Eppie C #3</u>	<u>Print</u>
	FIELD <u>Agate</u>	Elevation: D.F.: _____ K.B.: _____ or G.L.: <u>4587</u>
	LOCATION <u>SW NE NE</u>	FILING No. <u>216</u>
	<u>Sec 8 205 29E</u>	
	COUNTY <u>Grand</u>	
	STATE <u>Utah</u>	

RUN No.	ONE	TWO			
Date	<u>20 May 62</u>	<u>20 May 62</u>			
First Reading	<u>16 11 26.1</u>	<u>16 55 34.5</u>			
Last Reading	<u>11 4</u>	<u>16 11</u>			
Feet Measured	<u>14 97</u>	<u>44</u>			
Csg. Schlum.	<u>114</u>	<u>114</u>			
Csg. Driller	<u>114</u>	<u>114</u>			
Depth Reached	<u>16 12</u>	<u>16 56</u>			
Bottom Driller	<u>16 15</u>	<u>16 60</u>			
Depth Datum	<u>GL</u>	<u>GL</u>			
Mud Nat.	<u>Oil Emul</u>	<u>Oil Emul</u>			
Dens. Visc.	<u>- 38</u>	<u>- 38</u>			
Mud Resist.	<u>2.29 @ 65 °F</u>	<u>2.30 @ 65 °F</u>	@ °F	@ °F	@ °F
" Res. BHT	<u>1.8 @ 82 °F</u>	<u>1.8 @ 82 °F</u>	@ °F	@ °F	@ °F
Rmf	<u>1.75 @ 64 °F</u>	<u>1.4 @ 82 °F</u>	@ °F	@ °F	@ °F
Rmc	<u>1.7 @ 82 °F</u>	<u>1.7 @ 82 °F</u>	@ °F	@ °F	@ °F
" pH	<u>- @ °F</u>	<u>@ °F</u>	@ °F	@ °F	@ °F
" Wtr. Loss	<u>5.0 CC 30 min.</u>	<u>5.0 CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6 7/8</u>	<u>6 7/8</u>			
Spcgs.—AM	<u>16"</u>	<u>16"</u>			
MN	<u>34 1/2"</u>	<u>34 1/2"</u>			
IND.	<u>6FF40</u>	<u>6FF40</u>			
Opr. Rig Time	<u>1 hr</u>	<u>1 1/2 hr</u>			
Truck No.	<u>1593</u>	<u>1593</u>			
Recorded By	<u>TALLEY</u>	<u>TALLEY</u>			
Witness	<u>Pumpelly & Krey</u>				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION AGATE WELL EPIE C # 6 COMPANY RAPHAEL PUMPELLY	COMPANY RAPHAEL PUMPELLY			
	WELL EPIE C # 6			
	FIELD AGATE			
	COUNTY GRAND	STATE UTAH		
LOCATION NE - NE - SE		Other Services: NONE 217		
Sec. 8	Twp. 20S Rge. 24E			
Permanent Datum: G.L., Elev. 4596		Elev.: K.B. -		
Log Measured From G.L., 0 Ft. Above Perm. Datum		D.F. -		
Drilling Measured From G.L.		G.L. 4596		
Date	12-18-64			
Run No.	ONE			
Depth—Driller	1565			
Depth—Logger	1559			
Btm. Log Interval	1558 ³⁹⁸			
Top Log Interval	104			
Casing—Driller	7" @ 98	@	@	@
Casing—Logger	-			
Bit Size	6 1/4"			
Type Fluid in Hole	GEL - CHEMICAL			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	- ml	ml ml ml ml
Source of Sample	PITS			
R _m @ Meas. Temp.	3.6 @ 55 °F	@	°F	@ °F
R _{mf} @ Meas. Temp.	2.1 @ 85 °F	@	°F	@ °F
R _{mc} @ Meas. Temp.	2.0 @ 85 °F	@	°F	@ °F
Source: R _{mf} R _{mc}	C C			
R _m @ BHT	2.4 @ 85 °F	@	°F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	85 °F		°F	°F °F
Equip. Location	2598 G.J.			
Recorded By	MONTGOMERY			
Witnessed By	BUSH			

SCHLUMBERGER WELL SURVEYING CORPORATION

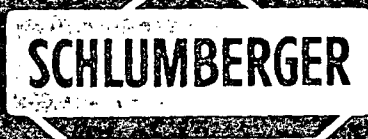
HOTSTON, TEXAS



Electrical Log

COUNTY GRAND UTAH FIELD or LOCATION AGATE WELL MARSHALL FEDERAL #1 COMPANY LEON MARSHALL	COMPANY	LEON MARSHALL	Other Surveys
			NONE
	WELL	MARSHALL-FEDERAL # 1	Location of Well SEC 9-20S-24E NW-NW-SW
	FIELD	AGATE	
	LOCATION	SEC 9-20S-24E NW-NW-SW	Elevation: D.F.: K.B.: 4610.57 or G.L.: 4602
COUNTY	GRAND	FILING No. 218	
STATE	UTAH		

RUN No.	ONE				
Date	8-21-62				
First Reading	1670 ^{39.3}				
Last Reading	108				
Feet Measured	1562				
Csg. Schlum.	108				
Csg. Driller	109				
Depth Reached	1671				
Bottom Driller	1674				
Depth Datum	K.B.				
Mud Nat.	GEL-CHEM				
Dens. Visc.	10.01 50				
Mud Resist.	4.6 @ 71°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	3.8 @ 87°F	@ °F	@ °F	@ °F	@ °F
" Rmf	3.8 @ 87°F	@ °F	@ °F	@ °F	@ °F
" Rmc	3.5 @ 87°F	@ °F	@ °F	@ °F	@ °F
" pH	- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 5/8"				
Spcgs.—AM	16"				
AM	64"				
AO	18'8"				
Opr. Rig Time	1 1/2 HRS				
Truck No.	3529 G. J.				
Conducted By	MONTGOMERY				
Address	MARSHALL				



INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 1-U-02365 COMPANY MCMILLIN & JOHNSON OIL CO., INC.	COMPANY	MCMILLIN & JOHNSON	Other Surveys	NONE
		OIL CO., INC.	Location of Well	219
	WELL	FEDERAL 1-U-02365	Elevation: D.F.:	NOT GIVEN
	FIELD	WILDCAT	K.B.:	
	LOCATION	SEC. 9-20S-24E	or G.L.:	
		SW NW NW	FILING No.	
COUNTY	GRAND			
STATE	UTAH			

RUN No.	ONE				
Date	1-26-62				
First Reading	1602 ^{39.8}				
Last Reading	91				
Feet Measured	1511				
Csg. Schlum.	91				
Csg. Driller	92				
Depth Reached	1603				
Bottom Driller	1601				
Depth Datum	K. B.				
Mud Nat.	OIL BASE				
Dens. Visc.	9.4 41				
Mud Resist.	3.90 @ 58°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	2.61 @ 86°F	@ °F	@ °F	@ °F	@ °F
Rmf	1.93 @ 86°F	@ °F	@ °F	@ °F	@ °F
Rmc	3.92 @ 86°F	@ °F	@ °F	@ °F	@ °F
" pH	NA @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	NA CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 3/4				
Spcgs.—AM	16"				
MN	34'6"				
IND.	6FF40				
Opr. Rig Time	1 1/2 HRS.				
Truck No.	2517 V.				
Recorded By	LANGILL				
Witness	JOHNSON				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL U-T # 9 COMPANY U-TEX OIL CO.	COMPANY	U-TEX OIL COMPANY <i>(William Bush)</i>		
	WELL	U-T # 9		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	990' FNL - 1550' FWL		Other Services:
	Sec. 9	Twp. 20S	Rge. 24E	NONE 220
Permanent Datum: G.L., _____, Elev. 4572 Log Measured From G.L., _____, 0 Ft. Above Perm. Datum Drilling Measured From G.L., _____				Elev.: K.B. - D.F. - G.I. 4572
Date	11-22-64			
Run No.	ONE			
Depth—Driller	1500			
Depth—Logger	1505			
Btm. Log Interval	1504 <i>41.2</i>			
Top Log Interval	110			
Casing—Driller	7" @ 96	@	@	@
Casing—Logger	-			
Bit Size	6 1/4"			
Type Fluid in Hole	GEL - CHEMICAL			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	-	ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	5.0 @ 57°F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	C C			
R _m @ BHT	3.5 @ 85°F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	85 °F	°F	°F	°F
Equip. Location	2598 G.J.			
Recorded By	MONTGOMERY			
Witnessed By	HAWKS			

FOLD HERE

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH	FIELD or LOCATION WILDCAT	WELL BUSH FEDERAL # 1	COMPANY WILLIAM G. BUSH	COMPANY		WILLIAM G. BUSH	
				WELL		BUSH FEDERAL # 1-9	
				FIELD		WILDCAT	
				COUNTY		GRAND	STATE
COUNTY GRAND, UTAH	FIELD or LOCATION WILDCAT	WELL BUSH FEDERAL # 1	COMPANY WILLIAM G. BUSH	LOCATION		SW - SW - NW	Other Services:
				Sec. 9	Twp. 20S	Rge. 24E	221
Permanent Datum: G.L., Elev. 4591.8						Elev.: K.B. -	
Log Measured From G.L., 0 Ft. Above Perm. Datum						D.F. -	
Drilling Measured From G.L.						G.L. 4591.8	
Date	11-15-63						
Run No.	ONE						
Depth—Driller	1542						
Depth—Logger	1538						
Btm. Log Interval	1537	34.4					
Top Log Interval	140						
Casing—Driller	7"	@ 102	@	@	@	@	@
Casing—Logger	-						
Bit Size	6 1/4"						
Type Fluid in Hole	GEL -						
	CHEMICAL						
Dens.	Visc.	-	-				
pH	Fluid Loss	-	- ml	ml	ml	ml	ml
Source of Sample	FLOW LINE						
R _m @ Meas. Temp.	2.36	@ 66 °F	@	°F	@	°F	@
R _{mf} @ Meas. Temp.	1.93	@ 70 °F	@	°F	@	°F	@
R _{mc} @ Meas. Temp.	-	@ - °F	@	°F	@	°F	@
Source: R _{mf}	R _{mc}	PRESS -					
R _m @ BHT	2.0	@ 80 °F	@	°F	@	°F	@
Time Since Circ.	1 HOUR						
Max. Rec. Temp.	80	°F	°F	°F	°F	°F	°F
Equip.	Location	2598	G. J.				
Recorded By	MONTGOMERY						
Witnessed By	BUSH & FEES						

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL BUSH FEDERAL # 2 COMPANY WILLIAM G. BUSH	COMPANY WILLIAM G. BUSH	
	WELL BUSH FEDERAL # 2	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION NW - SW - NW 1650' FNL - 300' FWL 5	Other Services: 222	
Sec. 9 Twp. 20S Rge. 24E	NONE	
Permanent Datum: G.L., , Elev. 4583.4		Elev.: K.B. -
Log Measured From G.L., 0 Ft. Above Perm. Datum		D.F. -
Drilling Measured From G.L.,		G.L. 4583.4
Date	12-10-63	
Run No.	ONE	
Depth—Driller	1632	
Depth—Logger	1625	
Btm. Log Interval	1624 38.2	
Top Log Interval	110	
Casing—Driller	7" @ 101	@ @ @ @
Casing—Logger	-	
Bit Size	6 1/4"	
Type Fluid in Hole	GEL - CHEMICAL	
Dens.	Visc.	
pH	Fluid Loss	- ml ml ml ml
Source of Sample	FLOW LINE	
R _m @ Meas. Temp.	4.34 @ 55 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	3.1 @ 65 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	PRESS CHART	
R _m @ BHT	2.9 @ 85 °F	@ °F @ °F @ °F
Time Since Circ.	2 HOURS	
Max. Rec. Temp.	85 °F	°F °F °F °F
Equip. Location	2598 G.J.	
Recorded By	MONTGOMERY	
Witnessed By	BUSH & FEES	

FOLD HERE

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL # 1 COMPANY McMILLAN AND JOHNSON OIL COMPANY, INC.	COMPANY	McMILLAN AND JOHNSON OIL COMPANY, INC.	Other Surveys	NONE
	WELL	<i>Gritz</i> FEDERAL # 1	Location of Well	SEC. 15-20S-24 NW NW NW
	FIELD	WILDCAT	Elevation: K.B.:	4601.
	LOCATION	SEC. 15-20S-24E NW NW NW	D.F.:	
	COUNTY	GRAND	or G.L.:	4598
	STATE	UTAH	FILING No.	223

RUN No.	ONE				
Date	12-18-61				
First Reading	1344 _{44.6}				
Last Reading	100				
Feet Measured	1244				
Csg. Schlum.	100				
Csg. Driller	100				
Depth Reached	1345				
Bottom Driller	1341				
Depth Datum	K. B.				
Mud Nat.	GEL-CHEM				
Dens. Visc.	9.5 39				
Mud Resist.	4.0 @ 42 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	2.0 @ 84 °F	@ °F	@ °F	@ °F	@ °F
Rmf	1.7 @ 84 °F	@ °F	@ °F	@ °F	@ °F
Rmc	1.9 @ 84 °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
MN	34.6"				
IND.	6FF40				
Opr. Rig Time	1 HOUR				
Truck No.	3529 GJ				
Recorded By	MONTGOMERY				
Witness	JOHNSON				

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND FIELD or LOCATION AGATE WELL H.F. FEDERAL 1 COMPANY WALTER D. BROADHEAD	COMPANY WALTER D. BROADHEAD	
	WELL H.F. FEDERAL NO. 1	
	FIELD AGATE	
	COUNTY GRAND	STATE UTAH
LOCATION SW/NE/SW		Other Services:
Sec. 15 Twp. 20S Rge. 24E		cc NONE
Permanent Datum: GL	Elev. N.A.	Elev.: K.B. ---
Log Measured From GL	Ft. Above Perm. Datum	D.F. ---
Drilling Measured From GL		G.I. ^{45-75-5"} N.A.
Date	12-22-66	
Run No.	ONE	
Depth—Driller	1360	
Depth—Logger	1352	
Btm. Log Interval	1351	
Top Log Interval	100	
Casing—Driller	7" @100'	@ @ @
Casing—Logger	----	
Bit Size	6 1/4"	
Type Fluid in Hole	NATIVE	
Dens. Visc.	---	
pH Fluid Loss	--- ml	ml ml ml ml
Source of Sample	PIT	
R _m @ Meas. Temp.	6.86 @ 56 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	6.34 @ 56 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	--- @ -- °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	FP	
R _m @ BHT	@ * °F	@ °F @ °F @ °F
Time Since Circ.	----	
Max. Rec. Temp.	* °F	°F °F °F
Equip. Location	4543 RS	
Recorded By	RUST	
Witnessed By	BROADHEAD	

FOLD HERE



WIRELINE SERVICES
GEARHART-OWEN

INDUCTION
GAMMA - RAY LOG

FILING NO.	COMPANY <u>LEGG RESOURCES</u>			
	WELL <u>JOYCE STATE NO. 1</u>			
	FIELD <u>CISCO</u>			
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>			
LOCATION: <u>360' FNL & 360' FEL</u> <u>NE NE</u>			Other Services 224	
SEC <u>16</u> TWP <u>20S</u> RGE <u>24E</u>			AID/MI CDL/SNP/GR	
Permanent Datum <u>GROUND LEVEL</u> Elev. <u>4597</u>			Elevations: KB <u>4605</u>	
Log Measured from <u>K.B.</u> , <u>8.0</u> Ft. Above Permanent Datum			DF <u>4604</u>	
Drilling Measured from <u>K.B.</u>			GL <u>4597</u>	
Date	<u>29 DEC., 1977</u>			
Run No.	<u>ONE</u>			
Depth—Driller	<u>1369</u>			
Depth—Logger	<u>1364</u>			
Bottom Logged Interval	<u>1363 29.4</u>			
Top Logged Interval	<u>210</u>			
Casing—Driller	<u>7 @ 204</u>	@	@	@
Casing—Logger	<u>210</u>			
Bit Size	<u>6 1/2"</u>			
Type Fluid in Hole	<u>POLY-BRINE</u>			
Density and Viscosity	<u>10.0</u>	@	@	@
pH and Fluid Loss		cc	cc	cc
Source of Sample	<u>TANK</u>			
Rm @ Meas. Temp.	<u>.08 @ 51 °F</u>	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	<u>.08 @ 51 °F</u>	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	<u>----- @ ----- °F</u>	@ °F	@ °F	@ °F
Source of Rmf and Rmc	<u>M</u>			
Rm @ BHT	<u>.06 @ 73 °F</u>	@ °F	@ °F	@ °F
Time Since Circ.	<u>3 HOURS</u>			
Max. Rec. Temp. Deg. F.	<u>73</u> °F	°F	°F	°F
Equip. No. and Location	<u>7532 G.J.</u>			
Recorded By	<u>HAMILTON-DEWITT</u>			
Witnessed By	<u>MR. WHITLEY-MR. ETV</u>			

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL COLORADO-UTAH LIVESTOCK CO. #1 COMPANY FERGUSON & BOSWORTH	COMPANY <u>FERGUSON & BOSWORTH</u> WELL <u>COLORADO-UTAH LIVESTOCK CO. # 1</u> FIELD <u>WILDCAT</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>C NW NW NW</u> <u>330' FNL - 330' FWL</u> Sec. <u>17</u> Twp. <u>20S</u> Rge. <u>24E</u>
	Other Services: SL 225
Permanent Datum: <u>G.L.</u> , Elev. <u>4606</u> Log Measured From <u>K.B.</u> , <u>10</u> Ft. Above Perm. Datum Drilling Measured From <u>K.B.</u>	
Elev.: K.B. <u>4616</u> D.F. <u>-</u> G.L. <u>4606</u>	
Date	7-19-63
Run No.	ONE
Depth—Driller	1655
Depth—Logger	1651
Btm. Log Interval	1650 41.5
Top Log Interval	134
Casing—Driller	8 5/8 @ 134 @ @ @
Casing—Logger	134
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL GEL
Dens. Visc.	9.8 48
pH Fluid Loss	7.5 8.8 ml ml ml ml
Source of Sample	PIT
R _m @ Meas. Temp.	1.44 @ 72 °F @ °F @ °F @ °F
R _{mf} @ Meas. Temp.	1.15 @ 77 °F @ °F @ °F @ °F
R _{mc} @ Meas. Temp.	1.4 @ 77 °F @ °F @ °F @ °F
Source: R _{mf} R _{mc}	PRESS PRESS
R _m @ BHT	1.1 @ 94 °F @ °F @ °F @ °F
Time Since Circ.	2 HOURS
Max. Rec. Temp.	94 °F °F °F °F
Equip. Location	2598 G.J.
Recorded By	WARNER
Witnessed By	HARR & AMUNDSEN

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY <u>GRAND</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>FEDERAL 1-X</u> COMPANY <u>UNITED TECHNICAL INDUSTRIES INC.</u>	COMPANY <u>UNITED TECHNICAL INDUSTRIES INC.</u> WELL <u>FEDERAL 1-X</u> FIELD <u>WILDCAT</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>1020/S 1680/E</u> Sec. <u>19</u> Twp. <u>20S</u> Rge. <u>24E</u>			
	Other Services: <div style="text-align: center; font-size: 1.5em; font-weight: bold;">226</div>			
Permanent Datum: _____, Elev. _____ Log Measured From <u>G.L.</u> , _____ Ft. Above Perm. Datum Drilling Measured From <u>G.L.</u>				
Elev.: K.B. _____ D.F. _____ G.L. <u>4518</u>				
Date	12/24/63			
Run No.	ONE			
Depth—Driller	1073			
Depth—Logger	1076			
Btm. Log Interval	1075 57.6			
Top Log Interval	103			
Casing—Driller	5 1/2 @ 100	@	@	@
Casing—Logger	103			
Bit Size	4 3/4			
Type Fluid in Hole	GEL BARITE			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	- ml	ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	2.7 @ 70 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.5 @ 70 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MP -			
R _m @ BHT	2.5 @ 85 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	85 °F	°F	°F	°F
Equip. Location	4529 VERNAL			
Recorded By	HAMILTON			
Witnessed By	STAVA			

SCHLUMBERGER

INDUCTION ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL # 1 COMPANY UNITED TECHNICAL	COMPANY UNITED TECHNICAL INDUSTRIES INC.	
	WELL FEDERAL # 1	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION SW - SE	990' FSL - 1650' FEL	Other Services: ML 227
Sec. 19 Twp. 20S Rge. 24E	15	
Permanent Datum: G.L., Elev. 4517.4		Elev.: K.B. -
Log Measured From G.L., 0 Ft. Above Perm. Datum		D.F. -
Drilling Measured From G.L.		G.L. 4517.4
Date	12-19-63	
Run No.	ONE	
Depth—Driller	1060	
Depth—Logger	1058	
Btm. Log Interval	1057-46.6	
Top Log Interval	90	
Casing—Driller	5 1/2 @ 90	@ @ @
Casing—Logger	90	
Bit Size	4 3/4	
Type Fluid in Hole	GEL-OIL	
Dens.	Visc.	
pH	Fluid Loss	ml ml ml ml
Source of Sample	PITS	
R _m @ Meas. Temp.	4.4 @ 64°F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	2.3 @ 65°F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	3.4 @ 64°F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	PRESS PRESS	
R _m @ BHT	3.7 @ 78°F	@ °F @ °F @ °F
Time Since Circ.	-	
Max. Rec. Temp.	78 °F	°F °F °F
Equip. Location	2598 G.J.	
Recorded By	MONTGOMERY	
Witnessed By	GATHRIGHT & STAVA	

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT LOCATION FEDERAL NO. 2 WELL UNITED TECHNICAL COMPANY	COMPANY <u>UNITED TECHNICAL INDUSTRIES</u>		
	WELL <u>FEDERAL NO. 2</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>NW SW SW</u> Sec. <u>19</u> Twp. <u>20S</u> Rge. <u>24E</u>		Other Services: NONE <div style="text-align: right; font-size: 2em;">228</div>	
Permanent Datum: <u>GROUND LEVEL</u> , Elev. <u>4570</u> Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum Drilling Measured From <u>G.L.</u>		Elev.: K.B. <u>N.A.</u> D.F. <u>N.A.</u> G.L. <u>4570</u>	
Date	1-9-64		
Run No.	ONE		
Depth—Driller	1505		
Depth—Logger	1508		
Btm. Log Interval	1507 ^{39.4}		
Top Log Interval	98		
Casing—Driller	5 1/2 @ 97	@	@
Casing—Logger	98		
Bit Size	4 3/4"		
Type Fluid in Hole	FRESH NATURAL GEL		
Dens.	Visc.	N.A.	N.A.
pH	Fluid Loss	N.A.	N.A. ml
Source of Sample	FLOW LINE		
R _m @ Meas. Temp.	4.38 @ 67 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	3.92 @ 65 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	CHART -		
R _m @ BHT	3.5 @ 84 °F	@ °F	@ °F
Time Since Circ.	1/2 HOUR		
Max. Rec. Temp.	84 °F	°F	°F
Equip. Location	4544 VERNAL		
Recorded By	LEDY		
Witnessed By	STAVA		

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL U.T.I. SHELTON FEDERAL # 3 COMPANY U.T.I. SHELTON	COMPANY	U.T.I. SHELTON		
	WELL	U.T.I. SHELTON FEDERAL # 3		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	NW - SW - SE		Other Services:
	Sec. 19	Twp. 20S	Rge. 24E	NONE 229

Permanent Datum: _____, Elev. _____	Elev.: K.B. - _____
Log Measured From G.L. _____ Ft. Above Perm. Datum	D.F. - _____
Drilling Measured From G.L. _____	<i>and</i> G.L. 4523

Date	2-9-64				
Run No.	ONE				
Depth—Driller	1202				
Depth—Logger	1201				
Btm. Log Interval	1200 <i>34.5</i>				
Top Log Interval	96				
Casing—Driller	7" @ 96	@	@	@	@
Casing—Logger	96				
Bit Size	6 1/8" CSG TO 1117 - 5			7/8" 1117 TO T.D.	
Type Fluid in Hole	GEL				
Dens.	Visc.	-	-		
pH	Fluid Loss	-	- ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	4.0 @ 55 °F	@	°F	@	°F
R _{mf} @ Meas. Temp.	3.0 @ 55 °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	- @ - °F	@	°F	@	°F
Source: R _{mf} R _{mc}	MP	-			
R _m @ BHT	2.5 @ 75 °F	@	°F	@	°F
Time Since Circ.	2 HOURS				
Max. Rec. Temp.	75 °F	@	°F	@	°F
Equip. Location	2598 G.J.				
Recorded By	HAMILTON				
Witnessed By	GATHRIGHT				

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND	FIELD or LOCATION WILDCAT	WELL UT - SDC - IPC FEDERAL NO. 1	COMPANY UNITED TECH, INC	COMPANY	UNITED TECHNICAL INDUSTRIES -		
					SHELTON DRILLING CO. - INTERMOUNTAIN PETROLEUM		
				WELL	UT - SDC - IPC FEDERAL NO. 1		
				FIELD	WILDCAT		
				COUNTY	GRAND	STATE	UTAH
				LOCATION	SW SW SW	Other Services:	
				Sec. 20	Twp. 20S	Rge. 24E	NONE 230

Permanent Datum: _____, Elev. _____
 Log Measured From G.L. _____ Ft. Above Perm. Datum
 Drilling Measured From G.L. _____
 Elev.: K.B. N.A.
 D.F. _____
 G.L. 4519

Date	1-20-64				
Run No.	ONE				
Depth—Driller	1024				
Depth—Logger	1025				
Btm. Log Interval	1024 <i>51.6</i>				
Top Log Interval	120				
Casing—Driller	7" @ 91	@	@	@	@
Casing—Logger	-				
Bit Size	6 1/8"				
Type Fluid in Hole	GEL-WATER				
Dens.	Visc.				
pH	Fluid Loss	ml	ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	.69 @ 65 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.69 @ 65 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS -				
R _m @ BHT	.55 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	12 HOURS				
Max. Rec. Temp.	80 °F	°F	°F	°F	°F
Equip. Location	4529 VERNAL				
Recorded By	HAMILTON				
Witnessed By	SHELTON				

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL #4 COMPANY UTI INC. SHELTON	COMPANY <u>UTI INC. - SHELTON DRILLING</u>		<u>U-027403</u> <u>Ref = 61</u>	
	WELL <u>FEDERAL #4</u>			
	FIELD <u>WILDCAT</u>		<u>Only! Copy used</u>	
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>	
	LOCATION <u>SE SE SE</u>		Other Services: 231 NONE	
Sec. <u>30</u> Twp. <u>20S</u> Rge. <u>24E</u>				
Permanent Datum: <u>GROUND LEVEL</u> , Elev. <u>4521</u>			Elev.: K.B. -	
Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum			D.F. -	
Drilling Measured From <u>G.L.</u>			G.L. <u>4521</u>	
Date	<u>4-18-64</u>			
Run No.	<u>ONE</u>			
Depth—Driller	<u>740</u>			
Depth—Logger	<u>734</u>			
Btm. Log Interval	<u>733</u> <u>54.7</u>			
Top Log Interval	<u>394</u>			
Casing—Driller	<u>7" @ 388</u>		<u>@</u>	
Casing—Logger	<u>394</u>		<u>@</u>	
Bit Size	<u>6 1/8 TO 683, 4 3/4 T D</u>			
Type Fluid in Hole	<u>CHEMICAL</u> <u>NATIVE</u>			
Dens.	Visc.	<u>9.0</u>	<u>45</u>	
pH	Fluid Loss	<u>--</u>	<u>-- ml</u>	<u>ml</u>
Source of Sample	<u>PITS</u>			
R _m @ Meas. Temp.	<u>3.9 @ 68 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
R _{mf} @ Meas. Temp.	<u>3.0 @ 68 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
R _{mc} @ Meas. Temp.	<u>3.6 @ 68 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Source: R _{mf} R _{mc}	<u>PRESS PRESS</u>			
R _m @ BHT	<u>3.7 @ 73 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Time Since Circ.	<u>5 HRS</u>			
Max. Rec. Temp.	<u>73 °F</u>		<u>°F</u>	
Equip. Location	<u>2598</u>	<u>G. J.</u>		
Recorded By	<u>WARNER</u>			
Witnessed By	<u>JONES</u>			

RECEIVED
 BR. OF OIL & GAS OPERATIONS
 APR 22 1964
 U.S. GEOLOGICAL SURVEY
 SALT LAKE CITY UTAH

SCHLUMBERGER

ELECTRICAL LOG
SURVEYING CORPORATION
 Houston, Texas

COUNTY GRAND UTAH FIELD or LOCATION WILDCAT WELL FEDERAL UTI # 31-72 COMPANY PUMPELLY-STAVA	COMPANY PUMPELLY - STAVA OPERATOR
	WELL FEDERAL UTI # 31-72
	FIELD WILDCAT
	COUNTY GRAND STATE UTAH
	LOCATION SW - NE - NE
Sec. 31 Twp. 20S Rge. 24E	Other Services: 232 ML

Permanent Datum: G.L., Elev. 4480	Elev.: K.B. -
Log Measured From G.L., 0 Ft. Above Perm. Datum	D.F. -
Drilling Measured From G.L.	G.L. 4480

Date	11-1-63			
Run No.	ONE			
Depth—Driller	802			
Depth—Logger	803			
Btm. Log Interval	802 54.5			
Top Log Interval	98			
Casing—Driller	5 1/2 @ 98	@	@	@
Casing—Logger	98			
Bit Size	4 3/4"			
Type Fluid in Hole	GEL - CHEMICAL			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	- ml	ml ml ml ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	3.6 @ 66 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	3.34 @ 72 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	2.70 @ 70 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS PRESS			
R _m @ BHT	3.2 @ 75 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	75 (EST) °F	°F	°F	°F
Equip. Location	4543 G.J.			
Recorded By	MONTGOMERY			
Witnessed By	STAVA			

FOLD HERE

215 16E 17E

SCHLUMBERGER

WELL SURVEYING CORPORATION

<p>Location of Well</p> <p>1446' S, 988' E, of NW CORNER, SEC. 2, T22S, R16E.</p> <p>Elevation K.B.: 4067</p> <p>D.F.:</p> <p>or G.L.:</p>	<p>COMPANY: AMERADA PETROLEUM CORPORATION</p> <p>WELL: GREEN RIVER UNIT #2</p> <p>RUN NO.: ONE</p> <p>FIELD: WILDCAT</p> <p>LOCATION: NW 2 - ^{R/S}22S - 16E</p> <p>COUNTY: GRAND</p> <p>STATE: UTAH</p> <p style="text-align: center;">FILING No.:</p>	<p>COUNTY: GRAND</p> <p>FIELD OR LOCATION: WILDCAT</p> <p>WELL: GREEN RIVER UNIT #2</p> <p>COMPANY: AMERADA PETROLEUM CORPORATION</p>
--	--	---

RUN	ONE				
Date.....	6/3/49				
First Reading.....	4983 ^{25.6}				
Last Reading.....	564				233
Footage Measured..	4419				
Csg Shoe Schlum...	564				
Csg Shoe Driller...	564				
Max. Depth Reached	4983				
Bottom Driller.....	4990				
Depth Datum.....	RDB				
Mud Nature.....	AQUAGEL				
" Density.....	82 lbs/cu.ft.				
" Viscosity.....	52				
" Resistivity.....	1.9 @ 66 °F	@ °F	@ °F	@ °F	@ °F
Maximum Temp.....	121 °F	°F	°F	°F	°F
Bit Size.....	8 3/4				
Spacings: AM.....	16"				
AM.....					
OA.....	15'				
Observers.....	MULLINAX				
Rig Time.....	2 HRS.				

REMARKS

RUN #1 - MUD CIRCULATED SAMPLE

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UNDERWOOD
WELL LOGGING SERVICE
2012 LYNWOOD DR.
FARMINGTON, NEW MEXICO

COMPANY SHELL OIL CO.
WELL 1-26 FEDERAL
LOCATION 26-218-17E
CO & STATE GRAND CO. UTAH

SA	SB	SC	SD
SE	SF	SG	SH

DEPTH	LITHOLOGY	REMARKS	Pore Pressure	DRILLING RATE	
				ft/min	ft/hr
0					
20					
40					
60		Sh d gy blk slty tr inoc, pzm			
80		Sh blk o/a Survey 1/2" Dev.			
100		Sh o/a			
120		Sh blk carb slty ip			
140		Silst m gy inoc pzm			
160		Sh, Silst o/a			
180		Survey Dev. 0"			
200		Sh, Silst o/a			
220		Sh, Silst o/a			
240		Sh, Silst o/a			
260		Sh blk slty ip Silst m d gy			
280		Survey Dev. 1/4"			
300		Sh, Silst o/a			
320		Sh, Silst o/a			
340		Sh d gy blk silcalc Silst m d gy tr inoc pzm			
360		Sh, Silst o/a			
380		Dev. 1/4"			
400		Sh, Silst o/a			
420		Sh, Silst o/a			
440		Sh, Silst o/a			
460		Sh, Silst o/a			
480		Sh, Silst o/a			
500		Sh blk silcalc Silst m d gy			
520		Dev. 1/4"			
540		Sh, Silst o/a			
560		Sh, Silst o/a			
580		Sh, Silst o/a			
600		Sh, Silst o/a			

BH1 HTC OSC 3A 23-547, 524, 34, 25 hrs
 9.0, 59, 112, 6.8, 712, 200 ppm

SCHLUMBERGER

**DIRT-HOLE COMPENSATED
SONIC LOG - GAMMA RAY**

S7-1-2152

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Shell Oil Company

WELL Federal No. 1-26

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION 2050' SLY + 800' WLY
From NE Corner

Sec. 26 Twp. 21S Rge. 17E

Other Services:
ICS
GRN 234

Permanent Datum: GL, Elev. 4439
Log Measured From - KB, 13 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4452
D.F. —
G.L. 4439

Date	<u>6-6-69</u>				
Run No.	<u>4</u>				
Depth—Driller	<u>9653</u>				
Depth—Logger	<u>8470</u>				
Btm. Log Interval	<u>8468</u> ^{23.7}				
Top Log Interval	<u>7800</u>				
Casing—Driller	<u>7" @ 8271</u>	@	@	@	@
Casing—Logger	<u>8273</u>				
Bit Size	<u>6 1/4"</u>				
Type Fluid in Hole	<u>SBM</u>				
Dens.	Visc.	<u>17.1</u>	<u>100</u>		
pH	Fluid Loss	<u>9.5</u>	<u>5.2 ml</u>	ml	ml
Source of Sample	<u>Flow Line</u>				
R _m @ Meas. Temp.	<u>0.34 @ 72°F</u>	@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>0.14 @ 72°F</u>	@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>0.16 @ 72°F</u>	@	°F	@	°F
Source: R _{mf}	R _{mc}	<u>M</u>	<u>M</u>		
R _m @ BHT	<u>0.15 @ 161°F</u>	@	°F	@	°F
Time Since Circ.	<u>4 HR</u>				
Max. Rec. Temp.	<u>161</u> °F				
Equip. Location	<u>4529 Verna</u>				
Recorded By	<u>Godfrey</u>				
Witnessed By	<u>Koepferich</u>				

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

57-1-2152

COUNTY
FIELD or
LOCATION
WELL

COMPANY

COMPANY Shell Oil Company

WELL Federal 1-26

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION 2050' sly - 800' wly fr
N.E. Cor. 9

Other Services:

BHC/6R
DIL 21 234

Sec. 26 Twp. 21S Rge. 17E

Permanent Datum: G.L., Elev. 4439
 Log Measured From K.B., 13 Ft. Above Perm. Datum
 Drilling Measured From K.B.

Elev.: K.B. 4452
 D.F. _____
 G.L. 4439

Date	<u>4-30-69</u>						
Run No.	<u>1</u>						
Depth—Driller	<u>7560</u>						
Depth—Logger	<u>7560</u>						
Btm. Log Interval	<u>7559 229</u>						
Top Log Interval	<u>1400</u>						
Casing—Driller	<u>13 3/8 @ 1220</u>	@	@	@	@	@	@
Casing—Logger	<u>1222</u>						
Bit Size	<u>9"</u>						
Type Fluid in Hole	<u>FGM</u>						
Dens.	Visc.	<u>9.7</u>	<u>62</u>				
pH	Fluid Loss	<u>11.0</u>	<u>9.0 ml</u>		ml	ml	ml
Source of Sample		<u>Circ.</u>					
R _m @ Meas. Temp.	<u>1.03 @ 76 °F</u>	@	°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>0.54 @ 76 °F</u>	@	°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>0.90 @ 76 °F</u>	@	°F	@	°F	@	°F
Source: R _{mf} R _{mc}		<u>M</u>	<u>C</u>				
R _m @ BHT	<u>0.51 @ 146 °F</u>	@	°F	@	°F	@	°F
Time Since Circ.		<u>14 hr</u>					
Max. Rec. Temp.		<u>146 °F</u>			°F	°F	°F
Equip.	Location	<u>4529 Uerna</u>					
Recorded By		<u>B. Thomas</u>					
Witnessed By		<u>E. Koepflich</u>					

The well name, location and latitude and longitude data were furnished by the customer.

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

S7-1-2152

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Shell Oil Company

WELL Federal 1-26

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION 2050'sly - 800' wly fr
N.E. Cor

Other Services:
IES
ST **234**

Sec. 26 Twp. 21S Rge. 17E

Permanent Datum: K.L., Elev. 4439
Log Measured From K.B., 13 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 4452
D.F. _____
G.I. 4439

Date	<u>3-21-69</u>					
Run No.	<u>1</u>					
Depth—Driller	<u>1780</u>					
Depth—Logger	<u>1780</u>					
Btm. Log Interval	<u>1777-56.4</u>					
Top Log Interval	<u>1222</u>					
Casing—Driller	<u>13 3/8 @ 1223</u>	@	@	@		
Casing—Logger	<u>1222</u>					
Bit Size	<u>9"</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>9.5</u>	<u>72</u>			
pH	Fluid Loss	<u>9.5</u>	<u>6.4 ml</u>	ml	ml	ml
Source of Sample <u>C.F.</u>						
R _m @ Meas. Temp.	<u>2.00 @ 61 °F</u>	@	°F	@	°F	@ °F
R _{mf} @ Meas. Temp.	<u>1.48 @ 61 °F</u>	@	°F	@	°F	@ °F
R _{mc} @ Meas. Temp.	<u>1.2 @ 61 °F</u>	@	°F	@	°F	@ °F
Source: R _{mf} R _{mc} <u>M C</u>						
R _m @ BHT	<u>0.81 @ 105 °F</u>	@	°F	@	°F	@ °F
Time Since Circ. <u>3 hr</u>						
Max. Rec. Temp. <u>105 °F</u>						
Equip.	Location	<u>4529</u>	<u>4316</u>			
Recorded By <u>G. Thomas</u>						
Witnessed By <u>Koerperich & Fouch</u>						

SCHLUMBERGER**GAMMA RAY - NEUTRON**

COUNTY <u>57-1-2152</u> FIELD or LOCATION WELL COMPANY	COMPANY <u>SHELL OIL COMPANY</u>						
	WELL <u>FEDERAL # 1-26</u>						
	FIELD <u>WILDCAT</u>						
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>						
Location: <u>2050' SLY & 800' WEY FROM NE CORNER</u>						Other Services:	
Sec. <u>26</u> Twp. <u>21S</u> Rge. <u>17E</u>						7	234
Permanent Datum: <u>GL</u> ; Elev.: <u>4439</u>					Elev.: K.B. <u>4452</u>		
Log Measured From <u>KB</u> , <u>13</u> Ft. Above Perm. Datum					D.F. _____		
Drilling Measured From <u>KB</u>					G.L. <u>4439</u>		
Date	<u>6-20-69</u>						
Run No.	<u>TWO</u>						
Type Log	<u>GRN</u>						
Depth—Driller	<u>10,767</u>						
Depth—Logger	<u>10,787</u>						
Bottom logged interval	<u>10,786</u> 19.3						
Top logged interval	<u>9300</u>						
Type fluid in hole	<u>SBM</u>						
Salinity, PPM Cl.	-						
Density	<u>17.2</u>						
Level	<u>FULL</u>						
Max rec. temp., deg F.	<u>165</u>						
Operating rig time	<u>2 1/2</u>						
Recorded by	<u>PROBST</u>						
Witnessed by	<u>M S LEHANEY & MASON</u>						
RUN	BORE-HOLE RECORD				CASING RECORD		
No.	Bit	From	To	Size	Wgt.	From	To
<u>2</u>	<u>6 1/4</u>	<u>CSG</u>	<u>TD</u>	<u>7</u>		<u>SURFACE</u>	<u>8271</u>

215

18E

Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BLAZE "A" NO. 1 COMPANY PHILLIPS PETRO.	COMPANY PHILLIPS PETROLEUM COMPANY			
	WELL BLAZE "A" NO. 1			
	FIELD WILDCAT			
	COUNTY GRAND STATE UTAH			
Location:		API Serial No. 12876 1337 FSL 1505 FWL		Other Services: DIL FDC 235 BHC
Sec. 12 Twp. 21S Rge. 18E				
Permanent Datum: GL ; Elev.: 5141		Log Measured From KB , 14 Ft. Above Perm. Datum		Elev.: K.B. 5155 D.F. ---- G.L. 5141
Drilling Measured From KB				
Date	9-25-74			
Run No.	ONE			
Depth-Driller	7515			
Depth-Logger	7518			
Btm. Log Interval	7515 23%			
Top Log Interval	3700			
Casing-Driller	8-5/8@502	@	@	@
Casing-Logger	502			
Bit Size	7-7/8			
Type Fluid in Hole	FGM			
Fluid Level	FULL			
Dens.	Visc.	9.0	80	
pH	Fluid Los	11	4.1 ml	ml ml ml ml
Source of Sample		CIRCULATED		
R _{mm} @ Meas. Temp.	.44 @ 66 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.38 @ 67 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M ---			
R _m @ BHT	.19 @ 149 °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HRS			
Max. Rec. Temp.	157 °F	°F	°F	°F
Equip. Location	7656 FARM			
Recorded By	RUSEN			
Witnessed By	BILLINGSLEA-MITCHELL			

The well name, location and borehole reference data were furnished by the customer.

23.8°C / mm

FOLD HERE

Schlumberger

COMPENSATED FORMATION DENSITY LOG

Gamma-Gamma

COUNTY GRAND
FIELD or
LOCATION WILDCAT
WELL BLAZE "A" NO. 1
COMPANY PHILLIPS PETRO.

COMPANY PHILLIPS PETROLEUM COMPANYWELL BLAZE "A" NO. 1FIELD WILDCATCOUNTY GRAND STATE UTAH

Location: API Serial No. 13614-12876
1337 FSL 1505 FWL
Sec. 12 Twp. 21S Rge. 18E

Other Services:

DIL
CNL 235
F-LOG, BHC

Permanent Datum: GL; Elev.: 5141
Log Measured From KB, 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5155
D.F. _____
G.L. 5141

Date	8-31-74	9-25-74		
Run No.	ONE	TWO		
Depth-Driller	5802	7515		
Depth-Logger	5793	7518		
Btm. Log Interval	5792 <i>28.3°C/hr</i>	7517 <i>23.8°C/hr</i>		
Top Log Interval	SURFACE	3700		
Casing-Driller	8-5/8@502	8-5/8@502	@	@
Casing-Logger	504	502		
Bit Size	7-7/8	7-7/8		
Type Fluid in Hole	FGM	FGM		
Fluid Level	FULL	FULL		
Dens.	9.1	90	9.0	80
Visc.				
pH	11.5	3.5 ml	11	4.1 ml
Fluid Los				
Source of Sample	MUDPIT	CIRCULATED		
Rm @ Meas. Temp.	7.78 @ 84 °F	.44 @ 66 °F	@ °F	@ °F
Rmf @ Meas. Temp.	5.42 @ 84 °F	.38 @ 67 °F	@ °F	@ °F
Rmc @ Meas. Temp.	6.02 @ 84 °F	--- @ --- °F	@ °F	@ °F
Source: Rmf	M	M		
Rmc	M	---		
Rm @ BHT	4.80 @ 141 °F	.19 @ 149 °F	@ °F	@ °F
Time Since Circ.	7 HRS	7 HRS		
Max. Rec. Temp.	142 °F	157 °F	°F	°F
Equip.	5619	FARM	7656	FARM
Location				
Recorded By	FIACCO	RUSEN		
Witnessed By	BILLINGSLEA-HUGHES-MITCHELL			

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

Schlumberger

BOREHOLE COMPENSATED
SONIC LOG

COUNTY GRAND FIELD or WILDCAT LOCATION WILDCAT WELL BLAZE "A" NO. 1 COMPANY PHILLIPS PETRO.	COMPANY PHILLIPS PETROLEUM COMPANY	
	WELL BLAZE "A" NO. 1	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION: API Serial No. 12876 1337 FSL 1505 FWL		Other Services: DIL FDC CNL
Sec. 12 Twp. 21S Rge. 18E		235
Permanent Datum: GL; Elev.: 5141		Elev.: K.B. 5155
Log Measured From KB, 14 Ft. Above Perm. Datum		D.F. ----
Drilling Measured From KB		G.L. 5141
Date	9-28-74	
Run No.	ONE	
Depth-Driller	7614	
Depth-Logger	7614	
Btm. Log Interval	7612 23.2	
Top Log Interval	502	
Casing-Driller	8-5/8@ 502 @ @ @	
Casing-Logger	502	
Bit Size	7-7/8	
Type Fluid in Hole	FGM	
Dens.	Visc.	9.1 132
pH	Fluid Loss	10.5 4.9 ml ml ml
Source of Sample	CIRCULATED	
R _m @ Meas. Temp.	.18 @ 86 °F @ °F @ °F @ °F	
R _{mf} @ Meas. Temp.	.11 @ 86 °F @ °F @ °F @ °F	
R _{mc} @ Meas. Temp.	--- @ --- °F @ °F @ °F @ °F	
Source: R _{mf} R _{mc}	M ---	
R _m @ BHT	.10 @ 148 °F @ °F @ °F @	
TIME	Circulation Stopped 1200	
	1700	
Max. Rec. Temp.	148 °F °F °F °F	
Equip.	Location 7656 FARM	
Recorded By	BILLINGSLEA-MITCHELL	
Witnessed By	RUSEN	

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE



COMPENSATED

Densilog

FILE NO. FM-5106

COMPANY PHILLIPS PETROLEUM COMPANY

WELL BLAZE 'A' #3

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION: 2202' FEL & 1816' FNL

Other Services

SEC 12 TWP 21S RGE 18E

DIFL
CN-GR
236

Permanent Datum G.L. Elev. 5199
Log Measured from K.B., 18.0 Ft. Above Permanent Datum
Drilling Measured from K.B.

Elevations:
KB 5217
DF 5216
GL 5199

Date	1-16-75			
Run No.	ONE			
Depth—Driller	5118			
Depth—Logger	5116			
Bottom Logged Interval	5114 33.5			
Top Logged Interval	517			
Casing—Driller	8 5/8 @ 500	@	@	@
Casing—Logger	517			
Bit Size	7 7/8			
Type Fluid in Hole	KLC DRISPAC			
Density and Viscosity	9 47			
pH and Fluid Loss	11.5 6 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.28 @65 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.21 @65 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.35 @65 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEASURED			
Rm @ BHT	.13 @145 °F	@ °F	@ °F	@ °F
Time Since Circ.	19 HRS.			
Max. Rec. Temp. Deg. F.	145 °F	°F	°F	°F
Equip. No. and Location	6080 FARM.			
Recorded By	HOYER			
Witnessed By	MITCHELL & BILLINGSLEA			

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T #1 COMPANY COLONIAL OIL COMPANY	COMPANY COLONIAL OIL	Location of Well Elevation: D.F.: K.B.: 4867 or G.L.: 4858
	COMPANY	
	WELL GOV'T #1	
	FIELD WILDCAT	
	LOCATION SEC. 23 21S 18E 9	
	SW NE SE	
	COUNTY GRAND	
	STATE UTAH	FILING No. 237

RUN No.	ONE	TWO			
Date	2-27-57	3-5-57			
First Reading	3028 ^{32.5}	3587 ^{30.0}			
Last Reading	154	2828			
Feet Measured	2874	759			
Csg. Schlum.	154	--			
Csg. Driller	155	155			
Depth Reached	3030	3588			
Bottom Driller	3028	3579			
Depth Datum	KB	KB			
Mud Nat.	CHEM, GEL	CHEM, GEL			
" Density	10.3	10.1			
" Viscosity	56	47			
" Resist.	4.5 @ 63°F	2.0 @ 55°F	@ °F	@ °F	@ °F
" Res. BHT	2.8 @ 105°F	1.1 @ 110°F	@ °F	@ °F	@ °F
" pH	8.0 @ °F	8.0 @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	10 CC 30 min.	11 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	105	110			
Bit Size	9"	9"-3550-	6 1/8"-TD		
Spcgs.—AM	16"	16"			
A	64"	64"			
AO	18'8"	18'8"			
Opr. Rig Time	1 HR	1 HR			
Truck No.	1517 GJ	1523 GJ			
Recorded By	BELL	MIXA			
Witnessed By	FORCADE	FORCADE			



DUAL INDUCTION - LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT LOCATION #1 SALT VALLEY N.W. WELL UNIT COMPANY HAMILTON BROS OIL	COMPANY	HAMILTON BROTHERS OIL COMPANY TEXAS GAS EXPLORATION
	WELL	#1 SALT VALLEY N.W. UNIT
	FIELD	WILDCAT
	COUNTY	GRAND STATE UTAH

LOCATION	SE NW			Other Services:
API SERIAL NO.	SEC. 23	TWP 21S	RANGE 18E 6	
				238

Permanent Datum:	G.L.	Elev.: 4912	Elev.: K.B. 4924
Log Measured From	KB	12 Ft. Above Perm. Datum	D.F. ----
Drilling Measured From	KB		G.L. 4912

Date	11/29/76					
Run No.	ONE					
Depth-Driller	7810					
Depth-Logger	7792					
Btm. Log Interval	7788 23.4					
Top Log Interval	501					
Casing-Driller	9 5/8 @ 502			@	@	@
Casing-Logger	501					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	Visc.	9.2	60			
pH	Fluid Loss	9.0	9.8ml	ml	ml	ml
Source of Sample	FLOWLINE					
Rm @ Meas. Temp.	1.64 @ 50 °F		@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.14 @ 50 °F		@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---- @ ---- °F		@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	MEAS	---			
Rm @ BHT	.54 @ 151 °F		@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	11/28 2000				
	Logger on Bottom	11/29 1000				
Max. Rec. Temp.	151 °F		°F	°F	°F	°F
Equip.	Location	7759	GJ			
Recorded By	GEIGER					
Witnessed By	HALL -- LATCH					

21S

19E + 20E + 21 + 22E

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL BLAZE CANYON UNIT #1 COMPANY CONTINENTAL OIL COMPANY	COMPANY	CONTINENTAL OIL	Other Surveys
	COMPANY		ML
	WELL	BLAZE CANYON	Location of Well
	UNIT #1		SEC. 7-21S-19E NE NE
	FIELD	WILDCAT	Elevation: K.B.: 5172 D.F.: or G.L.: 5161
	LOCATION	SEC. 7-21S-19E NE NE	FILING No. 239
COUNTY	GRAND		
STATE	UTAH		

RUN No.	ONE				
Date	1-23-62				
First Reading	4519 24.6				
Last Reading	296				
Feet Measured	4223				
Csg. Schlum.	296				
Csg. Driller	297				
Depth Reached	4520				
Bottom Driller	4523				
Depth Datum	K. B.				
Mud Nat.	GEL-CHEM				
Dens. Visc.	9.8 51				
Mud Resist.	2.75@ 76°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.87@ 112°F	@ °F	@ °F	@ °F	@ °F
Rmf	2.83@ 76°F	@ °F	@ °F	@ °F	@ °F
Rmc	2.19@ 76°F	@ °F	@ °F	@ °F	@ °F
" pH	9.0 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	34' 6"				
IND.	6FF40				
Opr. Rig Time	1 1/2 HRS				
Truck No.	3529 GJ				
Recorded By	LANGILL				
Witness	JUTASIN				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND	FIELD or LOCATION N. W. SALT VALLEY	WELL GOV'T #3	COMPANY OIL SECURITIES & GAS CORPORATION	COMPANY OIL SECURITIES &	Location of Well
				GAS CORPORATION	
				WELL GOV'T #3	ML
				FIELD N. W. SALT VALLEY	240
				LOCATION SEC. 7 21S 19E 7	
				1370'SNL & 2130'WEL OF NW/4	Elevation: D.F.: K.B.: 5150 or G.L.: 5138
				COUNTY GRAND	
				STATE UTAH	FILING No. S.J.R.

RUN No.	ONE	TWO			
Date	11-16-56	11-20-56			
First Reading	3490 ^{26.7}	3690 ^{26.2}			
Last Reading	97	3300			
Feet Measured	3395	390*			
Csg. Schlum.	97	--			
Csg. Driller	100	100			
Depth Reached	3493	3691			
Bottom Driller	3505	3694			
Depth Datum	KB	KB			
Mud Nat.	CHEM GEL	CHEM GEL			
" Density	9.4	9.6			
" Viscosity	45	70			
" Resist.	2.6 @ 60°F	5.0 @ 52°F	@ °F	@ °F	@ °F
" Res. BHT	1.5 @ 106°F	2.5 @ 108°F	@ °F	@ °F	@ °F
" pH	10 @ °F	9.5 @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	3.6 CC 30 min.	4.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	106	108			
Bit Size	7 7/8"	7 7/8"			
Spcgs.—AM	16"	16"			
A	64"	64"			
AO	18'8"	18'8"			
Opr. Rig Time	1 HR	1 HR			
Truck No.	1523 GJ	1523 GJ			
Recorded By	MIXA	MIXA			
Witnessed By	BAILEY	BAILEY			

Notes
Chart
12/13/56

Weld O HGC - SLE
Schlumberger

DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

GRAND
WILDCAT
BLAZE C NO. 1
PHILLIPS PETROLEUM
COMPANY

COMPANY PHILLIPS PETROLEUM COMPANY
WELL BLAZE C NO. 1
FIELD WILDCAT
COUNTY GRAND STATE UTAH

Location. API Serial No. 22492
805 FSL 719 FWL
SW/4 SW/4
Sec. 17 Twp. 21S Rge. 19E

Other Services:
BHC-GR
HDT **241**

Permanent Datum: GL; Elev.: 5155
Log Measured From KB, 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5169
D.F. ----
G.L. 5155

Date	1-5-75	1-11-75		
Run No.	ONE	TWO		
Depth-Driller	8500	8931		
Depth-Logger	8502	8934		
Btm. Log Interval	8496 ^{22.7}	8928 ^{22.0}		
Top Log Interval	655	8300		
Casing-Driller	8-5/8@655	8-5/8@655	@	@
Casing-Logger	655	655		
Bit Size	7-7/8	7-7/8		
Type Fluid in Hole	GEL	KCL-DRICPAC		
Fluid Level	IN CASING			
Dens.	9.4	47	9.5	55
pH	10	7.2 ml	10.5	6.6 ml
Fluid Loss				
Source of Sample	CIRCULATION		FLOWLINE	
R _m @ Meas. Temp.	.287 @ 80 °F	.220 @ 68 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.198 @ 80 °F	.139 @ 68 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	.459 @ 80 °F	.095 @ 68 °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MUD PRESS		M	C
R _m @ BHT	.14 @ 157 °F	.09 @ 159 °F	@ °F	@ °F
Time Since Circ.	6 HRS	1400		
Max. Rec. Temp.	157 °F	159 °F		
Equip. Location	5602 GJ	5619 FARM		
Recorded By	ETTER-WALKLEY DENOO-REICHELT			
Witnessed By	MITCHELL-LUCK			

Schlumberger

INDUCTION ELECTRIC SURVEY &
LL-7 GAMMA RAY SURVEY

COUNTY GRAND
FIELD or LOCATION WILDCAT
WELL GOVERNMENT "Y" (NCT-1)
NO. 1
COMPANY TEXACO INC.

COMPANY TEXACO INC.

WELL GOVERNMENT "Y" (NCT-1) NO. 1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION NW SE 10

Other Services:
BHC-GR
FDC-GR 242

Sec. 18 Twp. 21S Rge. 20E

Permanent Datum: G.L., Elev. 5175 Elev.: K.B. 5187
Log Measured From K.B., 12 Ft. Above Perm. Datum D.F. ---
Drilling Measured From K.B. CRM G.L. 5175

Date	10-3-71	10-19-71	
Run No.	ONE	TWO	
Depth - Driller	4622	6116	
Depth - Logger	4623	6118	
Btm. Log Interval	4626 22.5	6114 27.7	
Top Log Interval	CASING	4628	
Casing - Driller	9 5/8 @ 533	7" @ 4627	
Casing - Logger	529	4628	
Bit Size	8 3/4	6 1/4	
Type Fluid in Hole	CHEM-GEN	SALT SAT. MUD (BRINE)	
Dens.	9.7	8.9	
Visc.	54	39	
pH	8.0	10	
Fluid Loss	9.6 ml	8.4 ml	
Source of Sample	FLOWLINE	MUD TANK	
R _m @ Meas. Temp.	1.37 @ 71 °F	.154 @ 70 °F	
R _{mf} @ Meas. Temp.	1.06 @ 71 °F	.15 @ 72 °F	
R _{mc} @ Meas. Temp.	--- @ -- °F	--- @ -- °F	
Source: R _{mf} R _{mc}	MEAS --	MEAS --	
R _m @ BHT	.83 @ 108 °F	.075 @ 144 °F	
Time Since Circ.	2 1/2	17	
Max. Rec. Temp.	108 °F	144 °F	
Equip. Location	7025 VERNAL	5619 FARM.	
Recorded By	HERHOLD	MC MATH	
Witnessed By	MESSRS ANDERSEN & SANFORD	MR. FARRAR & MR. SANFORD	

The well name, location and borehole reference data were furnished by the customer.

SCHLUMBERGER

COMPENSATED
FORMATION DENSITY LOG
Gamma-Gamma

COUNTY GRAND, UTAH

FIELD or WILDCAT

LOCATION WILDCAT
WELL THOMPSON UNIT #1

COMPANY TEXACO, INC.

COMPANY TEXACO, INC.

WELL THOMPSON UNIT #1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location: SE NW

Other Services:

IES 243
BHC/GR
CST

Sec. 35 Twp. 21S Rge. 20E

Permanent Datum: GL ; Elev.: 5056
Log Measured From KB, 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5068
D.F. 5067
G.I. 5056

Date 2/8/70
Run No. ONE
Type Log FDC
Depth—Driller 5202
Depth—Logger 5173
Bottom logged interval 5172 20.1
Top logged interval 507
Type fluid in hole FGM
Salinity, PPM Cl. --
Density 8.7
Level FULL

TIGHT
HOLE

Max rec. temp., deg F. 108
Operating rig time 5 HRS.
Recorded by RUSEN
Witnessed by MR. DAVIDSON & MR. HALVERSON

RUN No.	BORE-HOLE RECORD				CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To	
1	8 3/4	CSG	TD	10 3/4		SURF	507	

Utah
USE ONLY

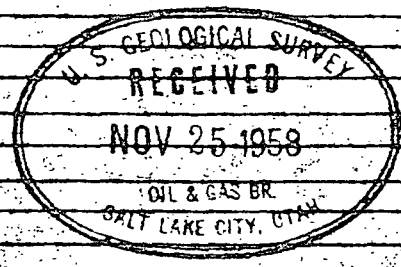
SCHEMATIC OF WELL LOGGING INFORMATION



FIELD PRINT

COUNTY FIELD LOCATION WELL COMPANY	COMPANY <u>SIERRA MADRE</u> <u>OIL CO.</u>	Location of Well <u>ELECTRICAL</u> <u>SURVEY</u> <u>RUN 1</u>
	WELL <u>MORCAN #1</u>	Elevation: D.F. _____ K.B. <u>4963</u> or G.L. <u>4956</u>
	FIELD <u>WILCOAT</u>	
	LOCATION <u>SEC 11 215 21E</u> <u>SW SW</u>	
	COUNTY <u>GRAND</u>	FILING No. <u>244</u>
STATE <u>UTAH</u>		

RUN No.	1		
Date	10-1-57		
Reading	7416.763		
Reading	402		
Measured	7014		
Schum.	402		
Driller	398		
Depth Reached	7417		
System Driller	7406		
Depth Datum	KB		
W. Vol.	449.602		
Density	9.9		
Viscosity	41		
Resist.	5 @ 70 °F	⊙ °F	
Res. BHT	22 @ 158 °F	⊙ °F	
W. Loss	9.5 @ °F	⊙ °F	
Wtr. Loss	76 CC 30 min.	CC 30 min.	
W. Temp. °F	158		
Bit Size	2 3/8		
Length	40'-16"		
	10'-08"		
	10'-18.8"		
Gen. Rig Time	3 HRS		
Truck No.	1523 GJ		
Recorded By	RUTEN		
Witness By	MORAN 216		



215

23E

2000

Schlumberger

**DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG**

COUNTY **GRAND**
FIELD or LOCATION **CISCO**
WELL **WK-1-14**
COMPANY **ROBERT S. WEST**

COMPANY **ROBERT S. WEST**
WELL **WK-1-14**
FIELD **CISCO**
COUNTY **GRAND** STATE **UTAH**

Location. API Serial No. _____
Sec. **1** Twp. **21S** Rge. **23E**

Other Services:
246

Permanent Datum: **G.L.**; Elev.: **4497**
Log Measured From **K.B.**, **9** Ft. Above Perm. Datum
Drilling Measured From **K.B.**

Elev.: K.B. **4906**
D.F. **-**
G.L. **4497**

Date	9/12/76						
Run No.	ONE						
Depth—Driller	1438						
Depth—Logger	1417						
Btm. Log Interval	1411 34.9						
Top Log Interval	200						
Casing—Driller	7	@ 123	@	@	@	@	@
Casing—Logger	N.A.						
Bit Size	6 1/4						
Type Fluid in Hole	SALT POLY						
Fluid Level	FULL						
Dens.	Visc.	9.3	48				
pH	Fluid Loss	11	N.A. ml		ml		ml
Source of Sample	MUD PIT						
R _m @ Meas. Temp.	.065 @ 73 °F	@	°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.064 @ 76 °F	@	°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	- @ °F	@	°F	@	°F	@	°F
Source: R _{mf} R _{mc}	MUD PRESS						
R _m @ BHT	.064 @ 78 °F	@	°F	@	°F	@	°F
Time Since Circ.	4 HOURS						
Max. Rec. Temp.	78 °F	°F	°F	°F	°F	°F	°F
Equip. Location	7759	G.J.					
Recorded By	ETTER						
Witnessed By	JACOBS						

Schlumberger INDUCTION ELECTRICAL LOG

COUNTY GRAND
FIELD or LOCATION ANTELOPE MESA
WELL CREST NO. 1
COMPANY CREST OIL COMPANY

COMPANY CREST OIL COMPANY

WELL CREST NO. 1

FIELD ANTELOPE MESA

COUNTY GRAND STATE UTAH

LOCATION SW/NW-2341FNL/10M-FWL API Serial No.
Sec. 2 Twp. 21S Rge. 23E

Other Services: NONE
247

Permanent Datum: GL Elev. 4551
Log Measured From KB 7.3 Ft. Above Perm. Datum Elev.: K.B. 4558.3
Drilling Measured From KB D.F. 4557.0
G.I. 4551.0

Date	6-3-74								
Run No.	ONE								
Depth-Driller	1512								
Depth-Logger	1511								
Btm. Log Interval	1510								
Top Log Interval	100								
Casing-Driller	7 @ 90	@	@	@	@	@	@	@	@
Casing-Logger	---								
Bit Size	6-1/4								
Type Fluid in Hole	FGM								
Dens. Visc.	9.1 56								
pH Fluid Loss		ml	ml	ml	ml	ml	ml	ml	ml
Source of Sample	PIT								
R ₁ @ Meas. Temp.	1.52 @ 85 °F	@	@	@	@	@	@	@	@
R ₂ @ Meas. Temp.	1.14 @ 85 °F	@	@	@	@	@	@	@	@
R ₃ @ Meas. Temp.	--- @ -- °F	@	@	@	@	@	@	@	@
Source: R ₁ R ₂ R ₃	M --								
R ₁ @ BHT	--- @ -- °F	@	@	@	@	@	@	@	@
Time Since Circ.	1.5 HOURS								
Max. Rec. Temp.	---	@	@	@	@	@	@	@	@
Equip. Location	5602 G.J.								
Recorded By	SCHNORA								
Witnessed By	JACOBS								

The well name, location and borehole reference data were furnished by the customer.

Reproduced By
Electrical Log Services
MIDLAND, TEXAS 79701

REFERENCE K 5878J



6 COMPLETION RECORD

SPUD DATE _____

COMP DATE _____

DST RECORD _____

API NO. _____

Schlumberger

INDUCTION-LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
FIELD CISCO
LOCATION CREST 2-8
WELL CREST 2-8
COMPANY CREST OIL

COMPANY CREST OIL COMPANY

WELL CREST 2-8

FIELD CISCO

COUNTY GRAND STATE UTAH

LOCATION 330 FNL & 330 FWL
API SERIAL NO. SEC. TWP RANGE
2 21S 23E 4

Other Services:

NONE

248

Permanent Datum: GL, Elev.: 4566
Log Measured From KB 9 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4575
D.F. ---
G.L. 4566

Date	12/9/76				
Run No.	ONE				
Depth-Driller	1688				
Depth-Logger	1691				
Btm. Log Interval	1685 33.5				
Top Log Interval	200				
Casing-Driller	7 5/8@120	@	@	@	@
Casing-Logger	N.R.				
Bit Size	6 3/4				
Type Fluid in Hole	INVERTED				
Dens.	9.8	380			
Visc.	8.8	5.4 ml	ml	ml	ml
pH					
Fluid Loss					
Source of Sample	FLOW LINE				
Rm @ Meas. Temp.	3.53 @ 26 °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.68 @ 52 °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	--- @ -- °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	MUD	PRESS			
Rmc					
Rm @ BHT	1.4 @ 82 °F	@ °F	@ °F	@ °F	@ °F
TIME					
Circulation Stopped	0200				
Logger on Bottom	0300				
Max. Rec. Temp.	82 °F	°F	°F	°F	°F
Equip.	7759	GJ			
Location					
Recorded By	I R E T T E R				
Witnessed By	REDMON				

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY GRAND FIELD or LOCATION LANSDALE WELL A. LANSDALE #3 COMPANY A. LANSDALE	COMPANY <u>A. LANSDALE</u>	Other Surveys ML FT
	WELL <u>A. LANSDALE #3</u>	Location of Well
	FIELD <u>LANSDALE</u>	
	LOCATION <u>SEC. 3-21S-23E</u> <u>SE SW NE</u>	Elevation: D.F.: <u>NA</u> K.B.: _____ or G.L.: _____
	COUNTY <u>GRAND</u>	FILING No. <u>249</u>
STATE <u>UTAH</u>		

RUN No.	ONE				
Date	10-9-62				
First Reading	1425 39.7				
Last Reading	98				
Feet Measured	1327				
Csg. Schlum.	98				
Csg. Driller	100				
Depth Reached	1426				
Bottom Driller	1432				
Depth Datum	GROUND				
Mud Nat.	CHEM GEL				
Dens. Visc.	- -				
Mud Resist.	2.6 @ 66 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	2.1 @ 82 °F	@ °F	@ °F	@ °F	@ °F
Rmf	2.1 @ 78 °F	@ °F	@ °F	@ °F	@ °F
Rmc	2.3 @ 76 °F	@ °F	@ °F	@ °F	@ °F
" pH	- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
MN	34 1/2"				
IND.	6FF40				
Opr. Rig Time	2 HOURS				
Truck No.	1593 V				
Recorded By	WARNER				
Witness	LANSDALE				

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SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL PROMONTORY STATE #7 COMPANY PROMONTORY OIL CO	COMPANY PROMONTORY OIL COMPANY		
	WELL PROMONTORY STATE #7		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
LOCATION SE NW SW		Other Services:	
Sec. 2	Twp. 21S	Rge. 23E	NONE 250
Permanent Datum: GL, Elev. 4650		Elev.: K.B. NA	
Log Measured From GL, 0 Ft. Above Perm. Datum		D.F. NA	
Drilling Measured From GL		G.L. 4650'	
Date	4-25-64		
Run No.	ONE		
Depth—Driller	1500		
Depth—Logger	1501		
Btm. Log Interval	1500 41.2		
Top Log Interval	150		
Casing—Driller	7" @ 102	@	@
Casing—Logger	--		
Bit Size	6 1/4		
Type Fluid in Hole	FRESH GEL		
Dens.	Visc.	10.2	42
pH	Fluid Loss	--	-- ml
Source of Sample	FLOW LINE		
R _m @ Meas. Temp.	3.60 @ 55°F	@ °F	@ °F
R _{mf} @ Meas. Temp.	3.00 @ 55°F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ -- °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	--	
R _m @ BHT	2.4 @ 85°F	@ °F	@ °F
Time Since Circ.	1 1/2 HRS.		
Max. Rec. Temp.	85 °F	°F	°F
Equip. Location	3520 FARM		
Recorded By	MAXWELL		
Witnessed By	MR. BUSH		

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL JOHN VUKASOVICH NO. 11 COMPANY VUKASOVICH DRLLG.	COMPANY	VUKASOVICH DRILLING		
	WELL	JOHN VUKASOVICH NO. 11		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	Sec. 3	Twp. 21S	Rge. 23E
		Other Services: FDC-GR TEMP. LOG 252		

Permanent Datum:	GL	Elev.	4487	Elev.:	K.B. ----
Log Measured From	GL		0 Ft. Above Perm. Datum		D.F. ----
Drilling Measured From	GL				G.L. 4487

Date	5-15-73				
Run No.	ONE				
Depth—Driller	1131				
Depth—Logger	1130				
Btm. Log Interval	1126	27.5			
Top Log Interval	160				
Casing—Driller	7	@ 159	@	@	@
Casing—Logger	160				
Bit Size	6-1/4				
Type Fluid in Hole	F.G.M.				
Dens.	Visc.	----	--		
pH	Fluid Loss	----	--ml	ml	ml
Source of Sample	MUD-PIT				
R _m @ Meas. Temp.	3.8	@ 65 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	3.0	@ 65 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	4.5	@ 65 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MP	C			
R _m @ BHT	3.75	@ 68 °F	@ °F	@ °F	@ °F
Time Since Circ.	9 HRS.				
Max. Rec. Temp.	68	°F	°F	°F	°F
Equip. Location	7660 VERNAL				
Recorded By	YATCHAK				
Witnessed By	ROBINSON				

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL JOHN VUKASOVICH NO. 6 COMPANY VUKASOVICH DRILLING	COMPANY	VUKASOVICH DRILLING		
	WELL	JOHN VUKASOVICH NO. 6		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	Sec. 4 Twp. 21 S Rge. 23 E		Other Services: 253

Permanent Datum:	G.L.	Elev. 4200.9	Elev.: K.B. 4206.9
Log Measured From	K.B., 6	Ft. Above Perm. Datum	D.F. ----
Drilling Measured From	K.B.		G.L. 4200.9

Date	4-23-73				
Run No.	ONE				
Depth—Driller	1300				
Depth—Logger	1303				
Btm. Log Interval	1302 79.8-68.6				
Top Log Interval	167				
Casing—Driller	7 @ 165	@	@	@	@
Casing—Logger	167				
Bit Size	6-1/8				
Type Fluid in Hole	FRESH MUD				
Dens.	Visc.	--	--		
pH	Fluid Loss	--	-- ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	----				
R _m @ BHT	---- @ 10.8 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	3 HOURS				
Max. Rec. Temp.	100 °F	°F	°F	°F	°F
Equip. Location	7660 VERNAL				
Recorded By	STRAWN				
Witnessed By	ROBINSON				



INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL JOHN VUKASOVICH NO. 8 COMPANY VUKASOVICH DR LG.	COMPANY VUKASOVICH DRILLING		
	WELL JOHN VUKASOVICH NO. 8		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
LOCATION		Other Services: FDC/GR	
Sec. 4	Twp. 21-S	Rge. 23-E ²	
Permanent Datum: G.L. , Elev. 4484		Elev.: K.B. ----	
Log Measured From G.L. , 0 Ft. Above Perm. Datum		D.F. ----	
Drilling Measured From G.L.		G.L. 4484	
Date	5-4-73		
Run No.	ONE		
Depth—Driller	1181		
Depth—Logger	1181		
Btm. Log Interval	1176 44.9		
Top Log Interval	150		
Casing—Driller	7 @ 154	@ @ @	
Casing—Logger	150		
Bit Size	6-1/8		
Type Fluid in Hole	WATER & GEL		
Dens.	Visc.	13.0 ----	
pH	Fluid Loss	---- ml ml ml ml	
Source of Sample	PIT		
R _m @ Meas. Temp.	1.1 @ 80 °F	@ °F	@ °F @ °F
R _{mf} @ Meas. Temp.	0.9 @ 80 °F	@ °F	@ °F @ °F
R _{mc} @ Meas. Temp.	1.7 @ 80 °F	@ °F	@ °F @ °F
Source: R _{mf} R _{mc}	M C		
R _m @ BHT	1.1 @ 80 °F	@ °F	@ °F @ °F
Time Since Circ.	5 HOURS		
Max. Rec. Temp.	80 °F	°F	°F °F
Equip. Location	7660 VERNAL		
Recorded By	MIXA		
Witnessed By	ROBINSON		

The well name, location and borehole reference data were furnished by the customer.



BIRDWELL

Density Borehole Compensated

COMPANY C C CO.

WELL C C CO. ADAK-5-2

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION: 2003' FSL, 516' FWL

OTHER SERVICES:

GR IES

255

SEC. 5 TWP. 21S RGE. 23E

PERMANENT DATUM GROUND LEVEL ELEV. 4567'
LOG MEASURED FROM KB 10 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB

ELEV. K.B. 4577'
D.F. 4576'
G.L. 4567'

DATE	20 OCT. 76						
RUN NO.	ONE						
DEPTH-DRILLER	1834'						
DEPTH-LOGGER	1831'						
BTM. LOG INTER.	1828' 44.9						
TOP LOG INTER.	1100'						
CASING-DRILLER	7-5/8@ 176'			@	@	@	@
CASING-LOGGER	178'						
BIT SIZE	6-3/4"						
TYPE FLUID IN HOLE	POLYMER MUD						
LIQUID LEVEL	FULL						
DENS.	VISC.	9.7	36 SEC.				
pH	FLUID LOSS	N/A	17.2 ml	ml	ml	ml	ml
SOURCE OF SAMPLE	FLOWLINE						
Rm@MEAS.TEMP.	.2	@ 49 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf@MEAS.TEMP.	.065	@ 62 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc@MEAS.TEMP.	**	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	PRESS	PRESS				
Rm @ B.H.T.	.12	@ 96 °F	@ °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	4 HOURS						
MAX. REC. TEMP.	96	°F	°F	°F	°F	°F	°F
EQUIP.	LOCATION	3027	GRAND JUNCTION				
RECORDED BY	MORGAN						
WITNESSED BY	MR. BURKHALTER						



BIRDWELL

Induction Electric Log Gamma Ray

COMPANY VUKASOVICH DRILLING

WELL 7-A

FIELD CISCO

COUNTY GRAND

STATE UTAH

LOCATION: SWNE

OTHER SERVICES:

DBC

256

SEC. 5 TWP. 21S RGE. 23E

PERMANENT DATUM GROUND LEVEL ELEV. 4480'

ELEV. K.B.4490'

LOG MEASURED FROM KB 10' FT. ABOVE PERM. DATUM

D.F.4489'

DRILLING MEASURED FROM KELLY BUSHING

G.L.4480'

DATE	NOVEMBER 30 76						
RUN NO.	2						
DEPTH-DRILLER	1898'						
DEPTH-LOGGER	1895'						
BTM. LOG INTER.	1889' 5.1						
TOP LOG INTER.	100'						
CASING-DRILLER	7" @ 108'			@	@	@	@
CASING-LOGGER	112'						
BIT SIZE	6-1/4"						
TYPE FLUID IN HOLE	POLYMER						
LIQUID LEVEL	MUD						
DENS.	10.7	36					
VISC.							
pH	10	80 ml		ml	ml	ml	ml
FLUID LOSS							
SOURCE OF SAMPLE	FLOWLINE						
Rm @ MEAS. TEMP.	.08	@ 56 °F	@	°F	@	°F	@ °F
Rmf @ MEAS. TEMP.	.07	@ 52 °F	@	°F	@	°F	@ °F
Rmc @ MEAS. TEMP.	.1	@ 48 °F	@	°F	@	°F	@ °F
SOURCE Rmf	Rmc	BAROID PRESS					
Rm @ B.H.T.	.53	@ 106 °F	@	°F	@	°F	@ °F
TIME SINCE CIRC.	1.5 HOURS						
MAX. REC. TEMP.	106	°F		°F		°F	°F
EQUIP. LOCATION	GRAND JUNCTION, COLORADO						
RECORDED BY	MARTINEZ						
WITNESSED BY	MR. BURKHARTER						

SSC-1110-A



INDUCTION • ELECTRIC LOG

COMPANY - ADAK ENERGY CORPORATION
 WELL FEDERAL # 5
 FIELD CISCO
 County GRAND State UTAH

COMPANY ADAK ENERGY CORPORATION
 WELL FEDERAL # 5
 FIELD CISCO
 COUNTY GRAND STATE UTAH
 Location SE 1/4 - NE 1/4
 Other Services:
 COMP. A. V. **257**
 Sec. 7 Twp 21S Rge 23E

Permanent Datum GROUND LEVEL Elev. 4492'
 Log Measured From DERRICK FLOOR 10 Ft. Above Perm. Datum
 Drilling Measured From DERRICK FLOOR
 Elev.: K.B. 4502'
 D.F. 4502'
 G.L. 4492'

Date	1-29-73			
Run No.	ONE			
Depth-Driller	1334'			
Depth-Welex	1337'			
Btm. Log Inter.	1332' 46.5			
Top Log Inter.	104'			
Casing-Driller	9-5/8 @ 105'	@	@	@
Casing-Welex	100'			
Bit Size	6-3/4"			
Type Fluid in Hole	MUD GEL			
Dens. Visc.				
pH Fluid Loss	ml	ml	ml	ml
Source of Sample	CIRC.			
R _{100'} @ Meas.Temp.	1.68 @ 52 °F	@ °F	@ °F	@ °F
R _{100'} @ Meas.Temp.	1.72 @ 48 °F	@ °F	@ °F	@ °F
R _{100'} @ Meas.Temp.	2.4 @ 56 °F	@ °F	@ °F	@ °F
Source R _{100'} R _{100'}	PRES			
R _{100'} @ BHT	1.03 @ 85 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	85°F @ BH	°F @	°F @	°F @
Equip. Location	77571 FARMINGTON I			
Recorded By	WINTERS			
Witnessed By	MR. WELLS			

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY GRAND FIELD CISCO LOCATION 9-21S-23E WELL LANSDALE-VUKASOVICH 24A COMPANY VUKASOVICH DRILLING	COMPANY <u>VUKASOVICH DRILLING</u>		
	WELL <u>LANSDALE-VUKASOVICH 24A</u>		
	FIELD <u>CISCO</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION	SW SW 345 FWL & 1042 FSI		Other Services: IES-GR 258
API SERIAL NO.	SEC. <u>9</u>	TWP. <u>21S</u>	RANGE <u>23</u>

Permanent Datum: <u>GL</u> ; Elev.: <u>4475</u>	Elev.: K.B. <u>4485</u>
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum	D.F. <u>---</u>
Drilling Measured From <u>KB</u>	G.L. <u>4475</u>

Date	12/10/76					
Run No.	ONE					
Depth-Driller	1488					
Depth-Logger	1483					
Btm. Log Interval	1482 36.1					
Top Log Interval	183					
Casing-Driller	7"	@ 183	@	@	@	@
Casing-Logger	183					
Bit Size	6 1/2					
Type Fluid in Hole	SALT POLY					
Dens.	10.2	35				
Visc.						
pH	11	-- ml	ml	ml	ml	ml
Fluid Loss						
Source of Sample	FLOW LINE					
Rm @ Meas. Temp.	.057 @ 54 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.057 @ 37 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	MUD PRESS					
Rm @ BHT	.037 @ 82 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Circulation Stopped	0430					
Logger on Bottom	0830					
Max. Rec. Temp.	82 °F	°F	°F	°F	°F	°F
Equip. Location	7759 G.J.					
Recorded By	T.R. ETTER					
Witnessed By Mr.	MR. BURKHALTER					

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION LANSDALE WELL # 1 COMPANY A. LANSDALE	COMPANY	A. LANSDALE	Other Surveys	NONE
	WELL	A. LANSDALE # 1-A	Location of Well	SEC 10-21S-23E SW - SW - NE
	FIELD	LANSDALE		<i>7-61</i> <i>NIDE</i>
	LOCATION	SEC 10-21S-23E <i>7</i>	Elevation: K.B.:	-
		SW - SW - NE	D.F.:	-
	COUNTY	GRAND	or G.L.:	-
	STATE	UTAH		<i>RAM</i>
			FILING No.	259

RUN No.	ONE				
Date	10-25-62				
First Reading	1136 <i>54.6</i>				
Last Reading	100				
Feet Measured	1036				
Csg. Schlum.	100				
Csg. Driller	99				
Depth Reached	1137				
Bottom Driller	1140				
Depth Datum	G.L.				
Mud Nat.	G.F.L.				
Dens. Visc.	9.5 40				
Mud Resist.	2.1 @ 68°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.7 @ 85°F	@ °F	@ °F	@ °F	@ °F
Rmf	1.4 @ 85°F	@ °F	@ °F	@ °F	@ °F
Rmc	1.8 @ 85°F	@ °F	@ °F	@ °F	@ °F
" pH	- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
MN	34'6"				
IND.	6FF40				
Opr. Rig Time	1 HOUR				
Truck No.	3529 G.J.				
Recorded By	MONTGOMERY				
Witness	LANSDALE				

SCHLUMBERGER

INDUSTRIAL ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL A. LANSDALE # 2 COMPANY A LANSDALE	COMPANY	A LANSDALE	Other Surveys	NONE
	WELL	A. LANSDALE # 2	Location of Well	SEC 10-21S-23E SE-SW-NE
	FIELD	WILDCAT		<i>10-21</i>
	LOCATION	SEC 10-21S-23E		
		SE-SW-NE	Elevation: K.B.:	-
	COUNTY	GRAND	D.F.:	-
STATE	UTAH	or G.L.:	-	
		FILING No.	260	

RUN No.	ONE				
Date	9-14-62				
First Reading	1744 43.4				
Last Reading	66				
Feet Measured	1678				
Csg. Schlum.	66				
Csg. Driller	65				
Depth Reached	1745				
Bottom Driller	1745				
Depth Datum	G.L.				
Mud Nat.	GEL.				
Dens. Visc.	- -				
Mud Resist.	3.6 @ 69°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	2.7 @ 93°F	@ °F	@ °F	@ °F	@ °F
Rmf C	2.4 @ 93°F	@ °F	@ °F	@ °F	@ °F
Rmc C	2.3 @ 93°F	@ °F	@ °F	@ °F	@ °F
" pH	- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/4"				
Spcgs.—AM	16"				
MN	34'6"				
IND.	6FF40				
Opr. Rig Time	1 HOUR				
Truck No.	3529 G.J.				
Recorded By	MONTGOMERY				
Witness	LANSDALE				

SCHLUMBERGER

INDUCTION ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>A. LANSDALE</u>	Other Surveys <u>None</u>
	WELL <u>A. LANSDALE #5</u>	Location of Well
	FIELD <u>LANSDALE</u>	
	LOCATION <u>SEC 10-21S-23E</u> <u>NE SW NE</u>	Elevation: K.B.: _____ D.F.: _____ or G.L.: <u>4444</u>
	COUNTY <u>GRAND</u>	FILING No. <u>261</u>
STATE <u>UTAH</u>		

RUN No.	<u>ONE</u>				
Date	<u>11-30-62</u>				
First Reading	<u>1186 5/8</u>				
Last Reading	<u>110</u>				
Feet Measured	<u>1076</u>				
Csg. Schlum.	<u>---</u>				
Csg. Driller	<u>95</u>				
Depth Reached	<u>1187</u>				
Bottom Driller	<u>1195</u>				
Depth Datum	<u>S.L.</u>				
Mud Nat.	<u>6.6-CAEM</u>				
Dens. Visc.	<u>10.0</u>	<u>45</u>			
Mud Resist.	<u>4.0 @ 43 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>2.0 @ 86 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	@ <u>86 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	@ <u>86 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>---</u> @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>---</u> CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6 7/8"</u>				
Spcgs.—AM	<u>16"</u>				
MN	<u>34 6/8"</u>				
IND.	<u>6FF40</u>				
Opr. Rig Time	<u>1 Hr.</u>				
Truck No.	<u>3529 G.J.</u>				
Recorded By	<u>MONTGOMERY</u>				
Witness	<u>WOOD & BUSH</u>				

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION LANSDALE WELL A. LANSDALE # 6 COMPANY A. LANSDALE	COMPANY <u>A. LANSDALE</u> WELL <u>A. LANSDALE # 6</u> FIELD <u>LANSDALE</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>SE - SW - NE</u> Sec. <u>10</u> Twp. <u>21S</u> Rge. <u>23E</u>			
	Other Services: NONE 262			
	Permanent Datum: <u>G.L.</u> , Elev. <u>4454</u> Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum Drilling Measured From <u>G.L.</u>			
	Elev.: K.B. <u>-</u> D.F. <u>-</u> G.L. <u>4454</u>			
Date	2-18-65			
Run No.	ONE			
Depth—Driller	1305			
Depth—Logger	1307			
Btm. Log Interval	1306 - 41.5			
Top Log Interval	100			
Casing—Driller	7" @ 96	@	@	@
Casing—Logger	-			
Bit Size	6 1/4"			
Type Fluid in Hole	GEL			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	- ml	ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	3.1 @ 63°F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.55 @ 60°F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS CHART			
R _m @ BHT	2.35 @ 85°F	@ °F	@ °F	@ °F
Time Since Circ.	-			
Max. Rec. Temp.	85 (EST) °F	°F	°F	°F
Equip. Location	2598 G.J.			
Recorded By	MONTGOMERY			
Witnessed By	LANSDALE & BUSH			



CONFIDENTIAL
 CCCo
 2724 Melbourne St.
 Salt Lake City, Utah 84106

SHADWELL

Induction Electric Log

COMPANY CC COMPANY

WELL CC CO. ADAK 11-1A

FIELD CISCO AREA

COUNTY GRAND STATE UTAH

LOCATION: 10

SEC. 11 TWP. 21-S RGE. 23E

OTHER SERVICES:
 CA6 TL GR FDL
 ENP
263

PERMANENT DATUM GROUND LEVEL ELEV. 4451 ELEV. K.B. NA

LOG MEASURED FROM DF 7 FT. ABOVE PERM. DATUM D.F. 4458

DRILLING MEASURED FROM DF G.L. 4451

DATE	17 OCTOBER 75								
RUN NO.	ONE								
DEPTH-DRILLER	1125								
DEPTH-LOGGER	1123								
BTM. LOG INTER.	1117 48.0								
TOP LOG INTER.	185								
CASING-DRILLER	7" @ 176'			@	@	@	@	@	@
CASING-LOGGER	186								
BIT SIZE	6-1/4"								
TYPE FLUID IN HOLE	MUD								
DENS.	VISC.	15.3							
pH	FLUID LOSS	NA	ml	ml	ml	ml	ml	ml	ml
SOURCE OF SAMPLE	FLOW LINE								
Rm @ MEAS. TEMP.	2.5 @ 65 °F			@	@	@	@	@	@
Rmf @ MEAS. TEMP.	NA @ °F			@	@	@	@	@	@
Rmc @ MEAS. TEMP.	NA @ °F			@	@	@	@	@	@
SOURCE Rmf	Rmc	NA							
Rm @ B.H.T.	NA @ °F			@	@	@	@	@	@
TIME SINCE CIRC.	12 HOURS								
MAX. REC. TEMP.	80.4 °F			°F	°F	°F	°F	°F	°F
EQUIP. LOCATION	2346 GRAND JUNCTION								
RECORDED BY	LENTZ								
WITNESSED BY	MR. CHRISTENSON								

155-1077-B



BIRDWELL

Density & Neutron Borehole Compensated

Confidential

COMPANY CC COMPANY

WELL OTHF 7-11

FIELD CISCO

COUNTY GRAND STATE UTAH

LOCATION:

SEC. 11 TWP. 21S RGE. 23E

OTHER SERVICES:

IES. GRS

264

PERMANENT DATUM GROUND LEVEL ELEV. 4412'
LOG MEASURED FROM KB 7 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB

ELEV. K.B. 4419'
D.F. 4418'
G.I. 4412'

DATE	23. AUG. 77						
RUN NO.	ONE						
DEPTH-DRILLER	1290'						
DEPTH-LOGGER	1290'						
BTM. LOG INTER.	1288' 56.9						
TOP LOG INTER.	600'						
CASING-DRILLER	7" @ 210			@	@	@	@
CASING-LOGGER	NOT REACHED						
BIT SIZE	6-1/4"						
TYPE FLUID IN HOLE	POLY SALT MUD						
LIQUID LEVEL	FULL						
DENS.	VISC.	10	38				
pH	FLUID LOSS	8	2 ml	ml	ml	ml	ml
SOURCE OF SAMPLE	FLOW LINE						
Rm@ MEAS. TEMP.	.04	@ 74 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf@ MEAS. TEMP.	TRACE	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc@ MEAS. TEMP.	TRACE	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc						
Rm @ B. H. T.	@	°F	@ °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	3 HOURS						
MAX. REC. TEMP.	87	°F	°F	°F	°F	°F	°F
EQUIP.	LOCATION	3027	37				
RECORDED BY	MARTINEZ						
WITNESSED BY	MR. BURKHALTER						

Schlumberger

INDUCTION - GAMMA RAY LOG

COUNTY GRAND FIELD or LOCATION CISCO SPRINGS WELL 28A COMPANY VUKASOVICH	COMPANY	VUKASOVICH DRILLING					
	WELL	28A					
	FIELD	CISCO SPRINGS					
	COUNTY	GRAND	STATE	UTAH			
	LOCATION	NW NE 1650 FEL 990 FNL		Other Services:			
Sec.	11	Twp.	21S	Rge.	23E	FDC-CNL	265

Permanent Datum:	G.L.	Elev.	4507	Elev.: K.B.	4515
Log Measured From	K.B.	8	Ft. Above Perm. Datum	D.F.	-
Drilling Measured From	K.B.			G.L.	4507

Date	7/2/76						
Run No.	ONE						
Depth—Driller	1640						
Depth—Logger	1640						
Btm. Log Interval	1634 56.9						
Top Log Interval	214						
Casing—Driller	9 5/8@	214	@	@	@	@	@
Casing—Logger	214						
Bit Size	6 3/4						
Type Fluid in Hole	POLYMER MUD WITH NACl						
Dens.	Visc.	-					
pH	Fluid Loss	-	ml	ml	ml	ml	ml
Source of Sample	FLOW LINE						
R _m @ Meas. Temp.	.088 @	60 °F	@	°F	@	°F	@
R _{mf} @ Meas. Temp.	.087 @	60 °F	@	°F	@	°F	@
R _{mc} @ Meas. Temp.	- @	°F	@	°F	@	°F	@
Source: R _{mf}	R _{mc}	M					
R _m @ BHT	.051 @	102 °F	@	°F	@	°F	@
Time Since Circ.	2 HOURS						
Max. Rec. Temp.	102	°F		°F		°F	
Equip. Location	7759	G.J.					
Recorded By	GEIGER						
Witnessed By	BURKHALTER						

Schlumberger

**DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG**

COUNTY GRAND FIELD or LOCATION CISCO WELL CC ADAK 11-2 COMPANY C.C. CO	COMPANY <u>C.C. CO.</u>
	WELL <u>C.C. ADAK 11-2</u>
	FIELD <u>CISCO</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
Location. API Serial No. <u>647 FEL & 3288 NSL</u> Sec. <u>11</u> Twp. <u>21S</u> Rge. <u>23E</u> 8	
Other Services: <u>GR. FDC-CNL</u> <u>266</u>	

Permanent Datum: <u>G.L.</u> ; Elev.: <u>4473</u>	Elev.: K.B. <u>4482</u>
Log Measured From <u>K.B.</u> , <u>9</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>K.B.</u>	G.L. <u>4473</u>

Date	8/27/76	8/29/76		
Run No.	ONE	TWO		
Depth-Driller	1167	1292		
Depth-Logger	1170	1296		
Btm. Log Interval	1164 73.6	1290 67.8		
Top Log Interval	182	182		
Casing-Driller	7 5/8@180	7 5/8@180	@	@
Casing-Logger	182	182		
Bit Size	6 1/4	6 1/4		
Type Fluid in Hole	SALT POLY	SALT POLY		
Fluid Level	FULL	FULL		
Dens.	9.5	35	9.3	35
pH	NA	ml	10.5	ml
Source of Sample	MUD PIT	MUD PIT		
R _m @ Meas. Temp.	.041 @ 91 °F	.055 @ 68F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.041 @ 93 °F	-- @ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ °F	--- @ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MUD PRESS	---		
R _m @ BHT	.04 @ 98 °F	/.042 @ 99 °F	@ °F	@ °F
Time Since Circ.	2 HOURS	4 HOURS		
Max. Rec. Temp.	98 °F	99 °F	°F	°F
Equip. Location	7759 G.J.	7759 G.J.		
Recorded By	ETTER	ETTER, DRAKE		
Witnessed By	BURKHALTER	BURKHALTER		

The well name, location and borehole reference data were furnished by the customer.

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BIRDWELL

Density Borehole Compensated

COMPANY WALTER BROADHEAD & CARMACK DRLG.

WELL FEE-TOMLINSON #1

FIELD CISCO

COUNTY GRAND STATE UTAH

LOCATION: SW-1/4, NE-1/4
1520' FEL, 2310' FNL

OTHER SERVICES:

IES GRS

267

SEC. 12 TWP. 21S RGE. 23E

PERMANENT DATUM GROUND LEVEL ELEV. 4225'
LOG MEASURED FROM KB 10 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB

ELEV. K.B. 4235'
D.F. 4234'
G.L. 4225'

DATE	30 OCT. 76				
RUN NO.	ONE				
DEPTH-DRILLER	1392'				
DEPTH-LOGGER	1392'				
BTM. LOG INTER.	1391' 32.8				
TOP LOG INTER.	650'				
CASING-DRILLER	7" @ 118'	@	@	@	@
CASING-LOGGER	NOT REACHED				
BIT SIZE	6-1/8"				
TYPE FLUID IN HOLE	POLYMER SALT MUD				
LIQUID LEVEL	FULL				
DENS.	N/A	37			
VISC.	N/A	8 ml	ml	ml	ml
pH	FLUID LOSS	N/A			
SOURCE OF SAMPLE	FLOWLINE				
R _m @ MEAS. TEMP.	.09 @ 60 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ MEAS. TEMP.	.07 @ 65 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ MEAS. TEMP.	.10 @ 66 °F	@ °F	@ °F	@ °F	@ °F
SOURCE R _{mf}	R _{mc}	PRESS	PRESS		
R _m @ B.H.T.	.075 @ 76 °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	3 HOURS				
MAX. REC. TEMP.	76 °F	°F	°F	°F	°F
EQUIP.	LOCATION	2959	GRAND JUNCTION		
RECORDED BY	MARTINEZ				
WITNESSED BY	MR. BURKHALTER				



WIRELINE SERVICES
GEARHART-OWEN

INDUCTION
GAMMA - RAY LOG

FILING NO.

CONFIDENTIAL

COMPANY C. C. COMPANY

WELL BUCKHORN NUGGETT NO 14-2

FIELD CISCO

COUNTY GRAND STATE UTAH

LOCATION:

1075 FSL & 399 FWL
SW - SW

13

SEC 14 TWP 21S RGE 23E

Other Services

EDL/SNP/6
AID, HUI

269

Permanent Datum GROUND LEVEL Elev. 4355

Log Measured from KB, 8 Ft. Above Permanent Datum

Drilling Measured from KB

Elevations:

KB 4363

DF ---

GL 4355

Date 8 JAN 1977

Run No. ONE

Depth—Driller 1332

Depth—Logger 1321

Bottom Logged Interval 1320-331

Top Logged Interval 198

Casing—Driller 7 @ 200 @ @ @

Casing—Logger 198

Bit Size 6 1/4

Type Fluid in Hole BRINE-POLYMER

Density and Viscosity 11.6 --- @ @ @ @

pH and Fluid Loss --- --- cc .cc .cc .cc

Source of Sample PIT

Rm @ Meas. Temp. 0.11 @ 37 °F @ °F @ °F @ °F

Rmf @ Meas. Temp. 0.06 @ 58 °F @ °F @ °F @ °F

Rmc @ Meas. Temp. --- @ --- °F @ °F @ °F @ °F

Source of Rmf and Rmc M M

Rm @ BHT 0.05 @ 75 °F @ °F @ °F @ °F

Time Since Circ. 3 HOURS

Max. Rec. Temp. Deg. F. 75 °F °F °F

Equip. No. and Location 7537 G.J

Recorded By HAMILTON-DEWITT

Witnessed By MR. BURKHALTER

FIELD
PRINT

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON
 FORMATION DENSITY**

GRAND
 COUNTY
 WILDCAT
 FIELD
 NE/NE
 LOCATION
 #1 MOBIL
 WELL
 SUPRON
 COMPANY

COMPANY SUPRON ENERGY

WELL #1MOBIL 19-21-23

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION NE/NE 820FNL 820FEL

Other Services:
 DIL, TAPING

~~351~~ 351

API SERIAL NO. SEC. TWP. RANGE
 19 21S 23E

Permanent Datum: GL Elev.: 4567
 Log Measured From KB 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 4577
 D.F. -
 G.L. 4567

Date	2-25-79					
Run No.	ONE					
Depth-Driller	1995					
Depth-Logger	1996					
Btm. Log Interval	1994 37.5					
Top Log Interval	228					
Casing-Driller	8 578 @ 220			@	@	@
Casing-Logger	228					
Bit Size	7 7/8					
Type Fluid in Hole	POLYMER					
Dens.	Visc.	8.6 -40				
pH	Fluid Loss	9.6 8 ml		ml	ml	ml
Source of Sample	TANK					
Rm @ Meas. Temp.	.48 @ 72 °F		@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.48 @ 72 °F		@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ 72 °F		@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	M C					
Rm @ BHT	- @ 92 °F		@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	1330				
	Logger on Bottom	1930				
	Max. Rec. Temp.	92 °F		°F	°F	°F
Equip.	Location	7759 G.J.				
Recorded By	KRABACHER					
Witnessed By Mr.	PERKINS					

The well name, location and borehole reference data were furnished by the customer.

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INDUCTION • ELECTRIC LOG

COMPANY <u>ADAK ENERGY CORPORATION</u> WELL <u>FEDERAL # 3</u> FIELD <u>FEDERAL CISCO</u> County <u>GRAND</u> State <u>UTAH</u>	COMPANY <u>ADAK ENERGY CORPORATION</u>			
	WELL <u>FEDERAL # 3</u>			
	FIELD <u>FEDERAL CISCO</u>			
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>	
	Location <u>830' E. OF W. LINE</u> <u>990' N. OF S. LINE</u>		Other Services: <u>NONE</u> <div style="text-align: right; font-size: 1.2em;">271</div>	
	Sec. <u>22</u>	Twp <u>21S</u>	Rge <u>23E</u>	
Permanent Datum <u>GROUND LEVEL</u> Elev. <u>4401'</u>			Elev.: K.B. <u>4411'</u>	
Log Measured From <u>KELLY BUSHING 10</u> Ft. Above Perm. Datum			D.F. _____	
Drilling Measured From <u>KELLY BUSHING</u>			G.L. <u>4401'</u>	
Date	<u>1-16-73</u>			
Run No.	<u>ONE</u>			
Depth-Driller	<u>1398'</u>			
Depth-Welex	<u>1396'</u>			
Btm. Log Inter.	<u>1391' 51.1</u>			
Top Log Inter.	<u>100'</u>			
Casing-Driller	<u>12 1/2" @ 120'</u> @ @ @			
Casing-Welex	<u>110'</u>			
Bit Size	<u>8-3/4"</u>			
Type Fluid in Hole	<u>WATER</u>			
Dens. Visc.				
pH Fluid Loss	ml	ml	ml	ml
Source of Sample				
R _{int} @ Meas.Temp.	<u>1.44 @ 60°F</u>	@ °F	@ °F	@ °F
R _{int} @ Meas.Temp.	@ °F	@ °F	@ °F	@ °F
R _{int} @ Meas.Temp.	@ °F	@ °F	@ °F	@ °F
Source R _{int} R _{int}				
R _{int} @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ:	<u>TWO HOURS</u>			
Max. Rec. Temp.	<u>90 °F @ TD</u> °F @ °F @ °F @			
Equip. Location	<u>7949 VERNAL</u>			
Recorded By	<u>LEETH</u>			
Witnessed By	<u>MR. WELLS</u>			



BIRDWELL

Induction Electric Log

COMPANY PAULSON DRILLING INC.

WELL #2

FIELD SMITH

COUNTY GRAND STATE UTAH

LOCATION:
NE-1/4, NE-1/4, NE-1/4
SEC. 23 TWP. 21S RGE. 23E

OTHER SERVICES:
272
GR-ENP-FDL

PERMANENT DATUM GROUND LEVEL ELEV. 4347'
LOG MEASURED FROM GL 0 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM GROUND LEVEL

ELEV. K.B. _____
D.F. _____
G.L. 4347'

DATE	20 NOV. 75						
RUN NO.	ONE						
DEPTH-DRILLER	951'						
DEPTH-LOGGER	931'						
BTM. LOG INTER.	925' 43.4						
TOP LOG INTER.	64'						
CASING-DRILLER	6-5/8 @ 64'			@	@	@	
CASING-LOGGER	64'						
BIT SIZE	5-5/8"						
TYPE FLUID IN HOLE	MUD						
DENS.	VISC.	13#	N/A				
pH	FLUID LOSS	N/A	12.4ml	ml	ml	ml	ml
SOURCE OF SAMPLE	FLOWLINE						
Rm@ MEAS. TEMP.	2.2 @ 68 °F			@ °F	@ °F	@ °F	@ °F
Rmf@ MEAS. TEMP.	1.68 @ 66 °F			@ °F	@ °F	@ °F	@ °F
Rmc@ MEAS. TEMP.	2.4 @ 72 °F			@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	MUD	MUD				
Rm @ B.H.T.	2.0 @ 73 °F			@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	2 HOURS						
MAX. REC. TEMP.	73° °F			°F	°F	°F	°F
EQUIP. LOCATION	2694 GRAND JUNCTION						
RECORDED BY	LENTZ						
WITNESSED BY	MR. PAULSON						

SEC-117-B



BIRDWELL

Induction Electric Log

COMPANY PAULSON DRILLING

WELL PAULSON STATE 23-3

FIELD CISCO

COUNTY GRAND STATE UTAH

LOCATION: NE, NE, SW

SEC. 23 TWP. 21S RGE. 23E

OTHER SERVICES:

GRS FDL

273

PERMANENT DATUM GROUND LEVEL ELEV. 4663'
LOG MEASURED FROM KB 3 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM GROUND LEVEL

ELEV. K.B. 4666'
D.F. 4666'
G.L. 4663'

DATE	16 AUG. 77				
RUN NO.	ONE				
DEPTH-DRILLER	1003'				
DEPTH-LOGGER	999'				
BTM. LOG INTER.	992' 57.0				
TOP LOG INTER.	100'				
CASING-DRILLER	95' @ 7"	@	@	@	@
CASING-LOGGER	N/A				
BIT SIZE	5"				
TYPE FLUID IN HOLE	SODA ASH MUD				
LIQUID LEVEL	FULL				
DENS.	9				
VISC.	N/A				
pH					
FLUID LOSS	N/A ml				
SOURCE OF SAMPLE	N/A				
Rm @ MEAS. TEMP.	N/A @ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ MEAS. TEMP.	N/A @ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ MEAS. TEMP.	N/A @ °F	@ °F	@ °F	@ °F	@ °F
SOURCE Rmf Rmc	N/A				
Rm @ B. H. T.	N/A @ °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	NONE				
MAX. REC. TEMP.	82 °F	°F	°F	°F	°F
EQUIP. LOCATION	3007 GRAND JUNCTION				
RECORDED BY	TAYLOR				
WITNESSED BY	MR. PAULSON				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION CISCO WELL STATE #1 COMPANY SILVER GULL OIL & GAS CORPORATION	COMPANY SILVER GULL OIL & GAS CORPORATION	Other Surveys
	WELL STATE #1	Location of Well
	FIELD CISCO	
	LOCATION SEC. 24 21S 23E 11	
	COUNTY GRAND STATE UTAH	Elevation: D.F.: _____ K.B.: _____ or G.L.: 4611
		FILING No. 274

RUN No.	ONE				
Date	8-7-57				
First Reading	704 62.1				
Last Reading	100				
Feet Measured	604				
Csg. Schlum.	--				
Csg. Driller	35				
Depth Reached	705				
Bottom Driller	706				
Depth Datum	GL				
Mud Nat.	OIL BASE				
Dens. Visc.	9.1 38				
Mud Resist.	1.5 @ 81 °F	@ °F	@ °F	@ °F	@ °F
Res. BHT	1.62 @ 75 °F	@ °F	@ °F	@ °F	@ °F
Rmf	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc	@ °F	@ °F	@ °F	@ °F	@ °F
pH	7.6 @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	9.4 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	*				
Spcgs.—AM	16"				
A	64"				
AO	18'8"				
Opr. Rig Time	4 HRS				
Truck No.	1517 GJ				
Recorded By	ZIVLEY				
Witness	WHYTE				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION CISCO TOWNSITE WELL WHYTE STATE # 1 COMPANY W. & T. OIL INCORPORATED	COMPANY <u>W. & T. OIL</u>	Other Surveys NONE
	<u>INCORPORATED</u>	Location of Well SEC 24-21S-23E NE - NW - SW
	WELL <u>WHYTE STATE # 1</u>	
	FIELD <u>CISCO TOWNSITE</u>	
	LOCATION <u>SEC 24 - 21S - 23E</u>	Elevation: K.B.: 4332 D.F.: or G.L.: 4328
	<u>NE - NW - SW</u>	FILING No. 275
COUNTY <u>GRAND</u>	STATE <u>UTAH</u>	

RUN No.	ONE				
Date	4-5-62				
First Reading	504 97.6				
Last Reading	34				
Feet Measured	470				
Csg. Schlum.	34				
Csg. Driller	34				
Depth Reached	505				
Bottom Driller	640				
Depth Datum	K. B.				
Mud Nat.	GEL.				
Dens. Visc.	- -				
Mud Resist.	5.6 @ 57 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	4.1 @ 78 °F	@ °F	@ °F	@ °F	@ °F
Rmf	4.0 @ 78 °F	@ °F	@ °F	@ °F	@ °F
Rmc	3.4 @ 78 °F	@ °F	@ °F	@ °F	@ °F
" pH	- @ - °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	34' 6"				
IND.	6FF40				
Opr. Rig Time	1 HR				
Truck No.	3529 G. J.				
Recorded By	MONTGOMERY				
Witness	EVERLEY				

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION CISCO WELL WHYTE STATE # 5 COMPANY W. & T. OIL COMPANY	COMPANY	W. & T. OIL	Other Surveys	NONE
	WELL	WHYTE STATE # 5	Location of Well	SEC 24-21S-23E SW-NW-NW
	FIELD	CISCO	Elevation: K.B.:	
	LOCATION	SEC 24-21S-23E 4 SW-NW-NW	D.F.:	
	COUNTY	GRAND	or G.L.:	4338
STATE	UTAH	FILING No.	276	

RUN No.	ONE				
Date	8-20-62				
First Reading	710 69.3				
Last Reading	60				
Feet Measured	650				
Csg. Schlum.	60				
Csg. Driller	59				
Depth Reached	711				
Bottom Driller	713				
Depth Datum	G.L.				
Mud Nat.	GEL-CHEM				
Dens. Visc.	-- --				
Mud Resist.	3.8 @ 78°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	3.8 @ 78°F	@ °F	@ °F	@ °F	@ °F
Rmf	3.5 @ 78°F	@ °F	@ °F	@ °F	@ °F
Rmc	3.2 @ 78°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	5"				
Spcgs.—AM	16"				
MN	34'6"				
IND.	6FF40				
Opr. Rig Time	1 1/2 HRS				
Truck No.	3529 G.J.				
Recorded By	MONTGOMERY				
Witness	WHYTE				



BIRDWELL

Density & Neutron Borehole Compensated

COMPANY PAULSON DRILLING INCORPORATED

WELL 26-1

FIELD CISCO TOWNSITE

COUNTY GRAND STATE UTAH

LOCATION:

SE/4 SW/4 NE/4

SEC. 26 TWP. 21S RGE. 23E

OTHER SERVICES:

IES/GR

3532

PERMANENT DATUM GROUND LEVEL ELEV. 4370'
LOG MEASURED FROM K.B. 2 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KELLY BUSHING

ELEV. K.B. 4372'
D.F. N.A.
G.L. 4370'

DATE	2/25/78						
RUN NO.	ONE						
DEPTH-DRILLER	1017'						
DEPTH-LOGGER	1017'						
BTM. LOG INTER.	1016' 52.0						
TOP LOG INTER.	100'						
CASING-DRILLER	7" @ 100'			@	@	@	@
CASING-LOGGER	100'						
BIT SIZE	6 1/4"						
TYPE FLUID IN HOLE	BRINE						
LIQUID LEVEL	FULL						
DENS.	VISC.	10.6	40				
pH	FLUID LOSS	N.A.	23 ml	ml	ml	ml	ml
SOURCE OF SAMPLE	FLOW LINE						
Rm@ MEAS.TEMP.	.17	@60 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf@ MEAS.TEMP.	.15	@58 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc@ MEAS.TEMP.	.28	@60 °F	@ °F	@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	M	M				
Rm @ B.H.T.	.13	@80 °F	@ °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	FIVE HOURS						
MAX. REC. TEMP.	80	°F	°F	°F	°F	°F	°F
EQUIP.	LOCATION	3027	GJT				
RECORDED BY	ALLEN						
WITNESSED BY	PAULSON						

Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION 500' FSL & 1820' FWL WELL NO. 1 MOBIL COMPANY SUPRON ENERGY	COMPANY SUPRON ENERGY <hr/> WELL NO. 1 MOBIL <hr/> FIELD WILDCAT <hr/> COUNTY GRAND STATE UTAH <hr/> LOCATION 500' FSL & 1820' FWL <hr/> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">API SERIAL NO.</td> <td style="width:25%;">SEC.</td> <td style="width:25%;">TWP.</td> <td style="width:25%;">RANGE</td> </tr> <tr> <td></td> <td style="text-align:center;">26</td> <td style="text-align:center;">21S</td> <td style="text-align:center;">23E</td> </tr> </table> <hr/> Other Services: DIL <div style="text-align:right; font-size: 1.2em; font-weight: bold;">277</div>	API SERIAL NO.	SEC.	TWP.	RANGE		26	21S	23E
API SERIAL NO.	SEC.	TWP.	RANGE						
	26	21S	23E						
Permanent Datum: GROUND LEVEL; Elev.: 4352 Log Measured From KB; 10 Ft. Above Perm. Datum Drilling Measured From KB		Elev.: K.B. 4362 D.F. -- G.L. 4352							
Date	10-21-78								
Run No.	ONE								
Depth-Driller	1121								
Depth-Logger	1130								
Btm. Log Interval	1128 48.5								
Top Log Interval	133								
Casing-Driller	8-5/8 @ 134 @ @ @								
Casing-Logger	133								
Bit Size	7-7/8								
Type Fluid in Hole	FGM								
Dens.	Visc.	9.5 100							
pH	Fluid Loss	NA NA ml ml ml							
Source of Sample	MUDTANK								
Rm @ Meas. Temp.	2.40 @ 48 °F @ °F @ °F								
Rmf @ Meas. Temp.	2.24 @ 48 °F @ °F @ °F								
Rmc @ Meas. Temp.	3.60 @ 48 °F @ °F @ °F								
Source: Rmf Rmc	M C								
Rm @ BHT	1.50 @ 81 °F @ °F @ °F								
TIME Circulation Stopped	1900 (21)								
Logger on Bottom	2400 (21)								
Max. Rec. Temp.	81 °F °F °F								
Equip. Location	7726 GRAND JUNCTION								
Recorded By	LAUDE								
Witnessed By Mr.	DON QUIGLEY								

The well name, location and borehole reference data were furnished by the customer.

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215

24E

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY FIELD or LOCATION WELL COMPANY	GRAND	WILDCAT		BUSH FEDERAL 5-5		BUSH DRILLING Co.	
	GRAND	WILDCAT		BUSH FEDERAL 5-5		BUSH DRILLING Co.	
	GRAND	WILDCAT		BUSH FEDERAL 5-5		BUSH DRILLING Co.	
	GRAND	WILDCAT		BUSH FEDERAL 5-5		BUSH DRILLING Co.	
COMPANY						BUSH DRILLING Co.	
WELL						BUSH FEDERAL 5-5	
FIELD						WILDCAT	
COUNTY				GRAND		STATE UTAH	
LOCATION						Other Services:	
Sec. 5 Twp. 21 S Rge. 24 E						NONE 278	
Permanent Datum: GL, Elev. 4555						Elev.: K.B. --	
Log Measured From GL, 0 Ft. Above Perm. Datum						D.F. --	
Drilling Measured From GL						G.L. 4555	
Date	2-28-67						
Run No.	1						
Depth—Driller	1760						
Depth—Logger	1760						
Btm. Log Interval	1759						
Top Log Interval	150						
Casing—Driller	7" @ 96'		@	@	@	@	@
Casing—Logger	--						
Bit Size	6 3/4"						
Type Fluid in Hole	FRESH GEL						
Dens.	Visc.	9.4 43					
pH	Fluid Loss	--	-- ml	ml	ml	ml	ml
Source of Sample		PIT					
R _m @ Meas. Temp.	7.0 @ 65° F	@	° F	@	° F	@	° F
R _{mf} @ Meas. Temp.	3.81 @ 65° F	@	° F	@	° F	@	° F
R _{mc} @ Meas. Temp.	-- @ --° F	@	° F	@	° F	@	° F
Source: R _{mf} R _{mc}	M --						
R _m @ BHT	-- @ --° F	@	° F	@	° F	@	° F
Time Since Circ.	3 HR						
Max. Rec. Temp.	--	° F	° F	° F	° F	° F	° F
Equip. Location	4529 VERNAL						
Recorded By	MAXWELL						
Witnessed By	LANSDALE & BUSH						

NO BHT

Schlumberger

INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT LOCATION JDM VANOVER NO. 1 WELL JDM VANOVER NO. 1 COMPANY WESTERN AIR DRILL	COMPANY <u>MEZO</u> WESTERN AIR DRILLING
	WELL <u>JDM VANOVER NO. 1</u>
	FIELD <u>WILDCAT</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
Location: <u>330' FNL & 330' FULL</u> 4	
Sec. <u>13</u> Twp. <u>21S</u> Rge. <u>34E</u>	
Other Services: <u>270</u> FDC-GR	

Permanent Datum: <u>GND. LEVEL</u> ; Elev.: <u>4467</u>	Elev.: K.B. _____
Log Measured From _____, _____ Ft. Above Perm. Datum	D.F. _____
Drilling Measured From _____	G.L. <u>4467</u>

Date	<u>8-17-75</u>						
Run No.	<u>ONE</u>						
Depth-Driller	<u>363</u>						
Depth-Logger	<u>371</u>						
Btm. Log Interval	<u>370'</u>	<u>77.0</u>					
Top Log Interval	<u>75</u>						
Casing-Driller	<u>7'</u>	<u>@ 75'</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>75</u>						
Bit Size	<u>6"</u>						
Type Fluid in Hole	<u>GEL</u>						
Dens.	Visc.	<u>NA</u>	<u>NA</u>				
pH	Fluid Loss	<u>-</u>	<u>-</u> ml		ml		ml
Source of Sample	<u>PIT</u>						
R _m @ Meas. Temp.	<u>4.27</u>	<u>@ 94</u>	<u>"F</u>	<u>@</u>	<u>"F</u>	<u>(w)</u>	<u>"F</u>
R _{mf} @ Meas. Temp.	<u>3.40</u>	<u>@ 92</u>	<u>"F</u>	<u>@</u>	<u>"F</u>	<u>(w)</u>	<u>"F</u>
R _{mc} @ Meas. Temp.	<u>-</u>	<u>@</u>	<u>"F</u>	<u>@</u>	<u>"F</u>	<u>(w)</u>	<u>"F</u>
Source: R _{mf}	R _{mc}	<u>MEAS</u>					
R _m @ BHT	<u>3.61</u>	<u>@ 92</u>	<u>"F</u>	<u>@</u>	<u>"F</u>	<u>(w)</u>	<u>"F</u>
TIME	Circulation Stopped <u>15:00/17</u>						
	Logger on Bottom <u>17:00/17</u>						
Max. Rec. Temp.	<u>92</u>	<u>"F</u>		<u>"F</u>		<u>"F</u>	<u>"F</u>
Equip.	Location	<u>7704</u>	<u>4111</u>				
Recorded By	<u>THOMPSON</u>						
Witnessed By	<u>MR. MCCHESTER</u>						

FIELD PRINT
Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY	FIELD or LOCATION	WELL	COMPANY	COMPANY <u>GOAL RESOURCES</u>		
				WELL <u>STATE No. 5</u>		
				FIELD <u>WILDCAT</u>		
				COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>SE SE</u>			Other Services: <u>NIL</u>			
Sec. <u>30</u> Twp. <u>21S</u> Rge. <u>24E</u>			<u>16</u> <u>279</u>			

Permanent Datum: <u>GROUND LEVEL</u> , Elev. <u>4323</u>	Elev.: K.B. <u>4331</u>
Log Measured From <u>GL</u> , <u>0</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>GL</u>	G.L. <u>4323</u>

Date	<u>4-12-73</u>					
Run No.	<u>ONE</u>					
Depth—Driller	<u>1154 KB</u>					
Depth—Logger	<u>1147 GL</u>	=	<u>1154 KB</u>			
Btm. Log Interval	<u>1141</u>		<u>46.3</u>			
Top Log Interval	<u>200</u>					
Casing—Driller	<u>7" @ 78</u>		@	@	@	@
Casing—Logger	<u>-</u>					
Bit Size	<u>6.25</u>					
Type Fluid in Hole	<u>FRESH</u>					
Dens.	Visc.	<u>9.7</u>	<u>41</u>			
pH	Fluid Loss	<u>-</u>	<u>5.0 ml</u>	ml	ml	ml
Source of Sample		<u>PIT</u>				
R _m @ Meas. Temp.	<u>4.42 @ 65 °F</u>	@	°F	@	°F	@
R _{mf} @ Meas. Temp.	<u>4.4 @ 65 °F</u>	@	°F	@	°F	@
R _{mc} @ Meas. Temp.	<u>3.5 @ 65 °F</u>	@	°F	@	°F	@
Source: R _{mf}	R _{mc}	<u>C</u>	<u>C</u>			
R _m @ BHT	<u>3.8 @ 80 °F</u>	@	°F	@	°F	@
Time Since Circ.	<u>8 HR</u>					
Max. Rec. Temp.	<u>80</u>		°F	°F	°F	°F
Equip.	Location	<u>7674</u>	<u>VERNAL</u>			
Recorded By	<u>DANTI</u>					
Witnessed By	<u>KEITH</u>					

The well name, location and borehole reference data were furnished by the customer.

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INDUCTION • ELECTRIC LOG

COMPANY GOAL RESOURCES WELL GOAL RESOURCES STATE # 2 FIELD WILDCAT County GRAND State UTAH	COMPANY GOAL RESOURCES	
	WELL GOAL RESOURCES STATE # 2 #1	
	FIELD WILDCAT	
	COUNTY GRAND STATE UTAH	
Location N/A 16 621' From So. LINE 350' From EAST		Other Services: NONE
Sec. 30 Twp 21 So Rge 24 E		280
Permanent Datum GROUND LEVEL Elev. 4323'		Elev.: K.B. 4331'
Log Measured From GROUND LEVEL Ft. Above Perm. Datum		D.F. 4330'
Drilling Measured From GROUND LEVEL		G.L. 4323'
Date	9-18-72	
Run No.	ONE	
Depth-Driller	1130'	
Depth-Welex	1128'	
Btm. Log Inter.	1122' 50.4	
Top Log Inter.	100'	
Casing-Driller	7" @ 70'	@ @ @
Casing-Welex	54'	
Bit Size	6 1/2"	
Type Fluid in Hole	CHEMICAL GEL	
Dens. Visc.	9.2 48	
pH Fluid Loss	N/A 9.2 ml	ml ml ml
Source of Sample	FLO LINE	
R ₁₀₀ @ Meas. Temp.	3.88 @ 80°F	@ °F @ °F @ °F
R ₁₀₀ @ Meas. Temp.	3.28 @ 76°F	@ °F @ °F @ °F
R ₁₀₀ @ Meas. Temp.	4.4 @ 72°F	@ °F @ °F @ °F
Source R ₁₀₀ R ₁₀₀	MEAS.	
R ₁₀₀ @ BHT	3.78 @ 82°F	@ °F @ °F @ °F
Time Since Circ.	1 HOUR	
Max. Rec. Temp.	82°F @ TD	°F @ °F @ °F @
Equip. Location	7949 VERNAL	
Recorded By	LEETH	
Witnessed By	MR. KEITH	



INDUCTION • ELECTRIC LOG

COMPANY GOAL RESOURCES
WELL GOAL RESOURCES STATE # 2
FIELD WILDCAT
COUNTY GRAND **STATE** UTAH
Location N/A
Other Services: NONE
Sec. 30 **Twp** 215 **Rge** 24E **281**
Same as 280

Permanent Datum GROUND LEVEL **Elev.** 4323'
Log Measured From GROUND LEVEL **Ft. Above Perm. Datum**
Drilling Measured From GROUND LEVEL
Elev.: K.B. 4331'
D.F. 4330'
G.L. 4323'

Date	9-18-72			
Run No.	ONE			
Depth-Driller	1130'			
Depth-Welex	1128'			
Btm. Log Inter.	1122' 5b.4			
Top Log Inter.	100'			
Casing-Driller	7" @ 70'	@	@	@
Casing-Welex	54'			
Bit Size	6 1/2"			
Type Fluid in Hole	CHEMICAL GEL			
Dens. Visc.	9.2 48			
pH Fluid Loss	N/A 9.2 ml	ml	ml	ml
Source of Sample	FLO LINE			
R _{III} @ Meas.Temp.	3.8 @ 80°F	@ °F	@ °F	@ °F
R _{III} @ Meas.Temp.	3.2 @ 76°F	@ °F	@ °F	@ °F
R _{III} @ Meas.Temp.	4.4 @ 72°F	@ °F	@ °F	@ °F
Source R _{III} R _{III}	MEAS.			
R _{III} @ BHT	3.7 @ 82°F	@ °F	@ °F	@ °F
Time Since Circ.	1 HOUR			
Max. Rec. Temp.	82°F @ TD	°F @	°F @	°F @
Equip. Location	7949 VERNAL			
Recorded By	LEETH			
Witnessed By	MR. KEITH			

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Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND
FIELD or
LOCATION WILDCAT
WELL U-TEX NO. 1
GOVERNMENT
COMPANY FERGUSON OIL CO.

COMPANY FERGUSON OIL COMPANY, INC.

WELL NO. 1-14 GOVERNMENT

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION NE NW

3

Other Services:
FDC-GR

Sec. 14 Twp. 22S Rge. 16E

282

Permanent Datum: GL, Elev. 4408
Log Measured From KB, 11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4419
D.F. -
G.I. 4408

Date	11-6-71	11-20-71		
Run No.	ONE	TWO		
Depth—Driller	5388	6765		
Depth—Logger	5352	6760		
Btm. Log Interval	5351 19.4	6754 19.2		
Top Log Interval	2192	5399		
Casing—Driller	10 3/4 @ 2195	7 5/8 @ 5400	@	@
Casing—Logger	2192	5399		
Bit Size	9 7/8	6 3/4		
Type Fluid in Hole	CHEM-GEL	SALT MUD		
Dens.	9.4	43	11.8	45
pH	10	9.2 ml	9.5	-- ml
Fluid Loss				
Source of Sample	FLOWLINE	PIT		
R _m @ Meas. Temp.	.96 @ 77 °F	.066 @ 67 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.56 @ 75 °F	.048 @ 67 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --- °F	--- @ --- °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M ---	M ---		
R _m @ BHT	71 @ 108 °F	035 @ 122 °F	@ °F	@ °F
Time Since Circ.	3 HRS.	3 HRS.		
Max. Rec. Temp.	108 °F	122 °F	°F	°F
Equip. Location	7025 VERNAL	5640 VERNAL		
Recorded By	HERHOLD	PARKS		
Witnessed By	MR. DOUTH	MR. THOMPSON		



Sidewall Neutron Gamma Ray

FILE NO. FM-4787	COMPANY MOUNTAIN FUEL SUPPLY CO.		
	WELL GEYSER 1-25		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
	LOCATION:	NW NW 660' FNL 585' FWL	Other Services LAT-GR BHC-ALC-GR T.T. INT. DIPLOG 283
	SEC 25	TWP 22S	RGE 16E
Permanent Datum	G.L.	Elev. 4120	
Log Measured from	K.B.	12.0	Ft. Above Permanent Datum
Drilling Measured from	K.B.		
		Elevations: KB 4132 DF 4131 GL 4120	
Date	3-9-73		
Run No.	TWO		
Depth—Driller	9512		
Depth—Logger	9513		
Bottom Logged Interval	9512 19.4		
Top Logged Interval	5000		
Casing—Driller	9 5/8 @ 2056	@	@
Casing—Logger			@
Bit Size	8 3/4"		
Type Fluid in Hole	CHEM-GEL		
Density and Viscosity	10.1	41	
pH and Fluid Loss	10.0	14.8	cc
Source of Sample	CIRCULATED		
Rm @ Meas. Temp.	.06 @ 66 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.03 @ 68 °F	@ °F	@ °F
Rmc @ Meas. Temp.	.06 @ 66 °F	@ °F	@ °F
Source of Rmf and Rmc	M	M	
Rm @ BHT	.026 @ 152 °F	@ °F	@ °F
Time Since Circ.	18.5 HRS.		
Max. Rec. Temp. Deg. F.	152 °F	°F	°F
Equip. No. and Location	6089	ROSVLT	
Recorded By	MARTIN		
Witnessed By	LANGMAN, MC NAMEE		

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



MICRO LOGGING®

COUNTY GRAND FIELD or LOCATION WILDCAT WELL SALT WASH UNIT # 22-34 COMPANY THE SUPERIOR OIL COMPANY	COMPANY <u>THE SUPERIOR OIL</u>	Other Surveys IES, ES, GRN, LL MLL, CDM, SONIC Location of Well Elevation: D.F.: K.B.: 4220 or G.I.: 4208 FILING No. <u>284</u>
	COMPANY _____	
	WELL <u>SALT WASH UNIT #</u>	
	<u>22-34</u>	
FIELD <u>WILDCAT</u>		
LOCATION <u>SEC. 34-22S-17E</u>		
<u>1980' SNL-3250' WEL</u>		
COUNTY <u>GRAND</u>		
STATE <u>UTAH</u>		

RUN No.	ONE	TWO	THREE	FOUR	
Date	7-18-58	7-23-58	8-27-58	9-1-58	
First Reading	5188 ^{20.4}	5582 ^{20.9}	10172 ^{21.3}	10291 ^{22.0}	
Last Reading	1248	5188	5582	10172	
Feet Measured	3940	394	4590	119	
Depth Reached	5189	5583	10173	10293	
Bottom Driller	5188	5584	10173	10293	
Depth Datum	KB	KB	KB	KB	
Mud Nat.	OIL EMUL	OIL EMUL	*	SALT BASE	14% OIL
Dens.	9.4	10.0	11.2	11.1	121
Visc.	40	41	92	121	
Mud Resist.	0.6@ 78°F	.42@ 85°F	.02@ 90°F	0.12@ 94°F	@ °F
Res. BHT	0.43@ 109°F	.33@ 115°F	.05@ 170°F	.065@ 175°F	@ °F
pH	8.0@ °F	7.5@ °F	--@ °F	--@ °F	@ °F
Wtr. Loss	43 CC 30 min	45 CC 30 min	5.6 CC 30 min	6.2 CC 30 min	CC 30 min
Rmf	0.24@ 109°F	.20@ 115°F	.04@ 95°F	.02@ 175°F	@ °F
Rmc	0.68@ 109°F	.95@ 115°F	.062@ 170°F	.049@ 175°F	@ °F
Mud Log: Rm	0.45	.33	0.2	0.05	
Limit	---	---	---	---	
Depth	4880	5400	9630	9300	
Bif Size	**	9 7/8"	9 7/8"	***	
Sonde Type	PMS-A	PMS-A	PMS-A	PMS-A	
Pad Type	H	H	H	H	
Opr. Rig Time	4 HRS	1 HR	3 HRS	2 HRS	
Truck No.	2762 GJ	2791 CRTZ	1517 GJ	1523 GJ	
Recorded By	ZIVLEY	WALDRON	MATTHEWS	MIXA	
Witness	CURRENT	CURRENT	DEUTH	DEUTH	

225

19E

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL SALT VALLEY UNIT #1 COMPANY CONTINENTAL OIL COMPANY	COMPANY CONTINENTAL OIL	Other Surveys
	COMPANY	GRN - SL
	WELL SALT VALLEY UNIT #1	Location of Well
	FIELD WILDCAT	SEC 22-T22S-R19E 660'FNL-1980'FWL
	LOCATION SEC 22-T22S - R19E 660'FNL - 1980'FWL	Elevation: K.B.: 4685 D.F.: 4684 or G.L.: 4671
	COUNTY GRAND	FILING No. 285
STATE UTAH		

RUN No.	ONE				
Date	11-25-61				
First Reading	2921 39.3				
Last Reading	300				
Feet Measured	2621				
Csg. Schlum.	300				
Csg. Driller	298				
Depth Reached	2922				
Bottom Driller	3047				
Depth Datum	K.B.				
Mud Nat.	CHEM-GEL				
Dens. Visc.	9.6 42				
Mud Resist.	0.92 @ 77 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.62 @ 114 °F	@ °F	@ °F	@ °F	@ °F
Rmf	0.68 @ 78 °F	@ °F	@ °F	@ °F	@ °F
Rmc	1.7 @ 77 °F	@ °F	@ °F	@ °F	@ °F
" pH	9.0 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	13.4 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	8 3/4"				
Spcgs.—AM	16"				
MN	34'6"				
IND.	6FF40				
Opr. Rig Time	2 HRS				
Truck No.	3529 G.J.				
Recorded By	LEDY				
Witness	SMITH				

225

20 E 121, 22

Schlumberger

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

(WITH CALIPER)

COUNTY GRAND
FIELD or LOCATION WILDCAT
WELL CRESCENT UNIT NO. 1
COMPANY CONTINENTAL OIL CO

COMPANY CONTINENTAL OIL COMPANY

WELL CRESCENT UNIT NO. 1

FIELD WILDCAT

COUNTY GRAND UTAH

Location: NW OF SW/4

Other Services:

LL-7
DIL

286

Sec. 17 Twp. 22S Rge. 20E

Permanent Datum: GL ; Elev.: 4757
Log Measured From KB , 23 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4780
D.F. ----
G.L. 4757

Date	12-2-72	1-7-73		
Run No.	ONE	TWO		
Depth—Driller	12124	14989		
Depth—Logger	12125	14994		
Btm. Log Interval	12123 21.8	14992 23.6		
Top Log Interval	1080	12124		
Casing—Driller	13-3/8@1070	9-5/8@12124	@	@
Casing—Logger	1080	12124		
Bit Size	12-1/4	8.5"		
Type Fluid in Hole	F.G.M.	SALT SATURATED		
Fluid Level	----	----		
Dens.	9.1	55	10.9	47
pH	10.5	16.4 ml	9.5	3.0 ml
Fluid Los				
Source of Sample	SUPPLIED	FLOWLINE		
Rm @ Meas. Temp.	1.43 @ 70 °F	.5 @ 72 °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.06 @ 70 °F	.41 @ 72 °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.25 @ 70 °F	.65 @ 72 °F	@ °F	@ °F
Source: Rmf	M	C	M.P.	C
Rmc				
Rm @ BHT	0.42 @ 236 °F	.15 @ 245 °F	@ °F	@ °F
Time Since Circ.	6 HOURS	7 HOURS		
Max. Rec. Temp.	238 °F	245 °F	°F	°F
Equip.	7022	VERNAL	7647	VERNAL
Location				
Recorded By	DANTI	WILLIAMS		
Witnessed By	OLSON	CLARK		

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T #1 COMPANY THE PURE OIL CO.	COMPANY THE PURE OIL COMPANY WELL GOV'T #1 FIELD WILDCAT LOCATION SEC. 10 22S 21E 660N/S & 660W/E COUNTY GRAND STATE UTAH	Location of Well ML,T Elevation: D.F.: K.B.: or G.L.: 4697 FILING No. 287
--	--	--

RUN No.	ONE	TWO			
Date	5-27-56	6-5-56			
First Reading	525 114.6	1439 54.5			
Last Reading	59	525			
Feet Measured	466	914			
Csg. Schlum.	59	497			
Csg. Driller	59	495			
Depth Reached	526	1440			
Bottom Driller	527	1435			
Depth Datum	KB	KB			
Mud Nat.	GEL	GEL, CAUSTIC, QUEB			
" Density	14.0	11			
" Viscosity	115	70			
" Resist.	2.4 @ 80°F	2.8 @ 80°F	@ °F	@ °F	@ °F
" Res. BHT	2.3 @ 84°F	2.3 @ 94°F	@ °F	@ °F	@ °F
" pH	= @ °F	= @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	= CC 30 min.	= CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	84	94			
Bit Size	*	6 1/4"			
Spcgs.—AM	16"	16"			
A	64"	64"			
AO	18'8"	18'8"			
Opr. Rig Time	1 HR	1 HR			
Truck No.	1517 GJ	1517 GJ			
Recorded By	RUSEN	RUSEN			
Witnessed By	DUNLAP	DUNLAP			

225

23E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



MICROLOGGING®

COUNTY GRAND FIELD or LOCATION WILDCAT WELL MINERAL HILL STATE #1 COMPANY MINERAL HILL URANIUM & EXPLORATION CO.	COMPANY <u>MINERAL HILL</u>	Other Surveys ES Location of Well 2-28S-23E SW NE UNKNOWN Elevation: D.F.: K.B.: or G.L.:
	<u>URANIUM & EXPLORATION CO.</u>	
	WELL <u>MINERAL HILL</u>	
	STATE # <u>1</u>	
	FIELD <u>WILDCAT</u>	
	LOCATION SEC. <u>2-28S-23E</u>	
	SW NE	
COUNTY <u>GRAND</u>		
STATE <u>UTAH</u>		FILING No. <u>288</u>

RUN No.	ONE				
Date	8/9/57				
First Reading	1492 52.5				
Last Reading	900				
Feet Measured	592				
Depth Reached	1495				
Bottom Driller	1495				
Depth Datum	KB				
Mud Nat.	AQUAGEL				
Dens.	10				
Visc.	100				
Mud Resist.	1.7 @ 82°F	@ °F	@ °F	@ °F	@ °F
Res. BHT	1.5 @ 94°F	@ °F	@ °F	@ °F	@ °F
pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	-- CC 30 min	CC 30 min	CC 30 min	CC 30 min	CC 30 min
Rmf @ BHT	1.2				
Rmc @ BHT	2.2				
Mud Log: Rm	INDETERMINATE				
Limit					
Depth					
Bit Size	8"				
Sonde Type	WRS-T				
Pad Type	H.				
Opr. Rig Time	1/2 HRS.				
Truck No.	2739CRTZ				
Recorded By	VANMETER				
Witness	MASON				

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL MINERAL HILL STATE # 1 COMPANY MINERAL HILL URANIUM & EXPLORATION CO.	COMPANY MINERAL HILL ^{Walter Broadhead}	Location of Well
	URANIUM & EXPLORATION CO.	2-225-23E
	WELL MINERAL HILL	SW NE
	STATE # 1	5-56
	FIELD WILDCAT	ES (ML)
	LOCATION SEC. 2-225-23E ¹³	UNKNOWN
SW NE	Elevation: D.F.: _____	
COUNTY GRAND	K.B.: _____	
STATE UTAH	or G.L.: _____	
		FILING No. 288

RUN No.	ONE				
Date	8/9/57				
First Reading	1494 52.5				
Last Reading	150				
Feet Measured	1344				
Csg. Schlum.	--				
Csg. Driller	60				
Depth Reached	1495				
Bottom Driller	1495				
Depth Datum	KB				
Mud Nat.	AQUAGEL				
" Density	10				
" Viscosity	100				
" Resist.	1.7 @ 82°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.5 @ 94°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	94				
Bit Size	8"				
Spcgs.—AM	16"				
A M'	64"				
AO	18' 8"				
Opr. Rig Time	1 1/2 HRS				
Truck No.	2739CRTZ				
Recorded By	VANMETER				
Witnessed By	MASON				

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17E

~~17E~~

Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY GRAND
 FIELD SALT WASH
 LOCATION SALT WASH NORTH
 WELL UNIT #1
 COMPANY RESERVE OIL & GAS CO

COMPANY RESERVE OIL AND GAS COMPANY

WELL SALT WASH NORTH UNIT #1

FIELD SALT WASH

COUNTY GRAND STATE UTAH

LOCATION NE $\frac{1}{4}$ SW $\frac{1}{4}$

API SERIAL NO. SEC. TWP RANGE

9 23S 17E

Other Services:
 DIL, DLL
 CNL-FDC-GR
 289 $\frac{1}{4}$

Permanent Datum: GL ; Elev.: 4443
 Log Measured From KB 20 Ft. Above Perm. Datum.
 Drilling Measured From KB

Elev.: K.B. 4463
 D.F. ---
 G.L. 4443

Date	5/27/76	6/21/76		
Run No.	ONE	TWO		
Depth-Driller	5321	9069		
Depth-Logger (Schl.)	5322	9068		
Btm. Log Interval	5320 76.2	9056 17.5		
Top Log Interval	1745	5050		
Casing-Driller	8 5/8 @ 1747	8 5/8 @ 1747	@	@
Casing-Logger	1745	1745		
Bit Size	7 7/8	7 7/8		
Type Fluid in Hole	EGM	SALT MUD		
Dens.	9.0	40	10.7	40
pH	9.5	13.0 ml	9.5	10. ml
Fluid Loss				
Source of Sample	FLOWLINE	PIT		
Rm @ Meas. Temp.	.95 @ 80 °F	.047 @ 94 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.78 @ 80 °F	.042 @ 94 °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ -- °F	.084 @ 94 °F	@ °F	@ °F
Source: Rmf	M	M		
Rmc	--	C		
Rm @ BHT	-- @ -- °F	.032 @ 138F	@ °F	@ °F
TIME				
Circulation Stopped	7 HOURS	0800		
Logger on Bottom		2000		
Max. Rec. Temp.	110 °F	138 °F	°F	°F
Equip.	7759 GJ	7674 VERNAL		
Location				
Recorded By	GEIGER	STRAWN		
Witnessed By Mr.	RIGGS	RIGGS		

The well name, location and borehole reference data were furnished by the customer.

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SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY FIELD or LOCATION WELL	GRAND, UTAH WILDCAT FLOY UNIT #1	COMPANY BELCO PETROLEUM CORPORATION	COMPANY	BELCO PETROLEUM CORPORATION	Other Surveys LL ST Location of Well 290 Elevation: K.B.: 4298 D.F.: or G.L.: 4286
			WELL	FLOY UNIT #1	
			FIELD	WILDCAT	
			LOCATION	SEC. 11-23S-17E 1313' NSL-1540' EWL	
COMPANY		COUNTY	GRAND	STATE	UTAH

Log Depths Measured From KB 12 Ft. above GI

RUN No.	ONE		
Date	9-12-62		
First Reading	9653	19.8	
Last Reading	150		
Feet Measured	9503		
Csg. Schlum.	1675		
Csg. Driller	1675		
Depth Reached	9662		
Bottom Driller	9663		
Mud Nat.	SALT SAT.		
Dens.	11.9	103	
Visc.			
Mud Resist.	.07 @ 88 °F	@ °F	@ °F
" Res. BHT	.038 @ 156 °F	@ °F	@ °F
" pH	6.4 @ °F	@ °F	@ °F
" Wtr. Loss	5.6 CC 30 min	CC 30 min	CC 30 min
" Rmf	.042 @ 91 °F	@ °F	@ °F
Bit Size	8 3/4-CSG. TO TD	8 1/2-9025, 8 3/8-9151, 7 7/8-TD	
Spacing:			
T 3' R 1 3' R 2	TD To CSG.	To	To
T 3' R 1 1' R 2	TD To 9300	To	To
Opr. Rig Time	7 HOURS		
Truck No.	3501 CORTEZ		
Recorded By	CLAYTON		
Witness	MR. HUTTON		

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog

COUNTY GRAND UTAH FIELD or LOCATION WILDCAT WELL SALT WASH #1 COMPANY PAN AMERICAN PETROLEUM CORP.	COMPANY	PAN AMERICAN PETROLEUM CORP.	Other Surveys	GRN-MLL-SL-CDM
	WELL	SALT WASH #1	Location of Well	SEC. 15-23-17E SW/4
	FIELD	WILDCAT		291
	LOCATION	SEC. 15-23S-17E SW/4		
	COUNTY	GRAND	Elevation: K.B.:	4292
STATE	UTAH		D.F.:	
				or G.L.: 4280

Log Depths Measured From K.B. 12 Ft. above G.L.

RUN No.	ONE	TWO	THREE
Date	2-6-61	3-30-61	4-13-61
First Reading	5122 23.8	9080 19.1	9518 18.6
Last Reading	946	5122	8200
Feet Measured	4176	3958	1318
Csg. Schlum.	946	5076	5076
Csg. Driller	946	5079	5079
Depth Reached	5127	9085	9523
Bottom Driller	5125	9083	9523
Mud Nat.	CLEAR WATER	SALT SATURATED	SALT SATURATED
Dens. Visc.	-- --	10.7 48	10.8 43
Mud Resist.	0.22 @ 48 °F	0.05 @ 66 °F	0.05 @ 74 °F
" Res. BHT	0.1 @ 118 °F	0.025 @ 146 °F	0.026 @ 148 °F
" pH	-- @ °F	-- @ °F	-- @ °F
" Wtr. Loss	-- CC 30 min	10.0 CC 30 min	4.8 CC 30 min
" Rmf	-- @ °F	0.05 @ 72 °F	0.0375 @ 78 °F
" Rmc	-- @ °F	0.5 @ 146 °F	0.095 @ 74 °F
Bit Size	12 1/4"	8 3/4"	8 3/4"
Laterolog 3	a= ; l=	a= ; l=	a= ; l=
Laterolog 7	a= ; n=	a= ; n=	a= ; n=
Opr. Rig Time	2 HRS	3 HRS	2 HRS
Truck No.	1523 GJ	1523 GJ	1523 GJ
Recorded By	MONTGOMERY	WEAVER	MONTGOMERY
Witness	McGLADE	BONHAM	BONHAM

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog

WITH GAMMA RAY

COUNTY GRAND, UTAH FIELD or LOCATION SALT WASH LOCATION SUNILAND STATE WELL # COMPANY PAN AMERICAN PETROLEUM CORP.	COMPANY PAN AMERICAN	Other Surveys
	PETROLEUM CORP.	MLL, S-GR, CDM
	WELL SUNILAND STATE	Location of Well
	A #1	SEC. 16-23S-17E
	FIELD SALT WASH	1801' FSL 820' FEL
LOCATION SEC. 16-23S-17E		292
	1801' FSL-820' FEL	
COUNTY GRAND		Elevation: K.B.: 4435
STATE UTAH		D.F.: or G.L.: 4423

Log Depths Measured From K.B. 12 Ft. above G.L.

RUN No.	ONE		
Date	11-17-61		
First Reading	8902	18.6	
Last Reading	1211		
Feet Measured	7691		
Csg. Schlum.	1211		
Csg. Driller	1209		
Depth Reached	8906		
Bottom Driller	8900		
Mud Nat.	SALT SATURATED		
Dens.	10.2	62	
Visc.			
Mud Resist.	0.069@ 68 °F	@ °F	@ °F
Res. BHT	0.033@ 142 °F	@ °F	@ °F
pH	7.0 @ °F	@ °F	@ °F
Wtr. Loss	3.6 CC 30 min	CC 30 min	CC 30 min
Rmf	0.048@ 72 °F	@ °F	@ °F
Rmc	0.114@ 70 °F	@ °F	@ °F
Bit Size	9 7/8" - 5207; 8	3/4" - TD	
Laterolog 3	USED	a= ; l=	a= ; l=
Laterolog 7	a= ; n=	a= ; n=	a= ; n=
Opr. Rig Time	3 HOURS		
Truck No.	3529 GJ		
Recorded By	MONTGOMERY		
Witness	BONHAM		

SCHLUMBERGER

LATEROLOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION SALT WASH WELL C.F. & I. # 22-16 COMPANY SHELL OIL COMPANY	COMPANY SHELL OIL COMPANY	Other Surveys MLL, S-GR-C
	WELL C.F. & I # 22-16	Location of Well SEC 16-23S-17E 2058'S.; 2139'E. OF N.W. CORNER
	FIELD SALT WASH 6	
	LOCATION SEC 16-23S-17E 2058'S.; 2139'E OF N.W. CORNER	293
	COUNTY GRAND	Elevation: K.B. 4490.4 D.F. 4488.5 or G.L. 4475.8
STATE UTAH		

Log Depths Measured From K.B. 14.6 Ft. above G.L.

RUN No.	ONE		
Date	2-20-63		
First Reading	8908	17.4	
Last Reading	1703		
Feet Measured	7205		
Csg. Schlum.	1703		
Csg. Driller	1702		
Depth Reached	8913		
Bottom Driller	8910		
Mud Nat.	SALT SATURATED		
Dens.	10.8	40	
Mud Resist.	0.06 @ 61	F	@ F
" Res. BHT	0.028 @ 138	F	@ F
" pH	6.9 @	F	@ F
" Wtr. Loss	6.0 CC 30 min		CC 30 min CC 30 min
" Rmf	0.048 @ 61	F	@ F
" Rmc	0.07 @ 66	F	@ F
Bit Size	7 7/8"		
Laterolog 3	TYPE USED	a= ;L=	a= ;L=
Laterolog 7	a= ;n=	a= ;n=	a= ;n=
Opr. Rig Time	3 1/2 HOURS		
Truck No.	2598		
Recorded By	WARNER		
Witness	DORSEY		

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION SALT WASH WELL C. F. & I. # 42-16 COMPANY SHELL OIL COMPANY	COMPANY	SHELL OIL COMPANY	Other Surveys LL, MLL Location of Well SEC 16-23S-17E 2125' FNL - 794' FEL <i>Drilling Wells</i> Elevation: K.B.:4538 D.F.:4536 359 or G.L.:4523.5
	WELL	C. F. & I. # 42-16	
	FIELD	SALT WASH	
	LOCATION	SEC 16-23S-17E SE - NE	
COUNTY	GRAND		
STATE	UTAH		

Log Depths Measured From K. B. 14.5 Ft. above G. L.

RUN No.	ONE		
Date	4-9-63		
First Reading	8924 18.6		
Last Reading	1804		
Feet Measured	7120		
Csg. Schlum.	1804		
Csg. Driller	1802		
Depth Reached	8930		
Bottom Driller	8931		
Mud Nat.	SALT SATURATED		
Dens.	10.7	40	
Visc.			
Mud Resist.	.052 @ 72 °F	@ °F	@ °F
" Res. BHT	.027 @ 142 °F	@ °F	@ °F
" pH	NIL @ °F	@ °F	@ °F
" Wtr. Loss	6.0 CC 30 min	CC 30 min	CC 30 min
" Rmf	.025 @ 142 °F	@ °F	@ °F
Bit Size	7 7/8"		
Spacing:			
T3' R1 3'R2	1804 To 8924	To	To
T3' R1 1'R2	8250 To 8924	To	To
Opr. Rig Time	5 HOURS		
Truck No.	2598 GD. JCT.		
Recorded By	WARNER		
Witness	SHEPARD		

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOVERNMENT SMOOT COMPANY TEXACO INCORPORATED	COMPANY	TEXACO	Other Surveys	LL-3, MLL, GRN, CDM
		INCORPORATED	Location of Well	SEC 17-23S- 17E C SE NE
	WELL	GOVERNMENT SMOOT		
		# 1		
	FIELD	WILDCAT		
	LOCATION	SEC 17-23S-17E		
		C SE NE		299
	COUNTY	GRAND	Elevation: K.B.:	4342
			D.F.:	
	STATE	UTAH	or G.L.:	4329.5

Log Depths Measured From KB 12 1/2 Ft. above GL

RUN No.	ONE			4342
Date	4-1-62			4330
First Reading	8828	18.6	6520	
Last Reading	10		5270	
Feet Measured	8818		11030	
Csg. Schlum.	906			
Csg. Driller	906			
Depth Reached	8834			
Bottom Driller	8824			
Mud Nat.	SALT SATURATED			
Dens.	Visc.	10.3	64	
Mud Resist.	.06 @ 80 °F	@	°F	@ °F
" Res. BHT	.034 @ 141 °F	@	°F	@ °F
" pH	7.0 @ °F	@	°F	@ °F
" Wtr. Loss	8.2 CC 30 min		CC 30 min	CC 30 min
" Rmf	.043 @ 80 °F	@	°F	@ °F
Bit Size	7 7/8"			
Spacing:				
T 3' R. 3' R.	CSG To 8828	To		To
T 3' R. 1' R.	8400 To 8828	To		To
Opr. Rig Time	6 HRS			
Truck No.	3529 GJ			
Recorded By	MONTGOMERY			
Witness	ROBERTS-SIX			



ACOUSTIC VELOCITY LOG

COMPANY Consolidated Oil & Gas Company WELL Government - Smoot # 3 FIELD Salt Wash County Grand State Utah	COMPANY <u>CONSOLIDATED OIL & GAS COMPANY</u>			
	WELL <u>GOVERNMENT - SMOOT # 3</u>			
	FIELD <u>SALT WASH</u>			
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>			
Location			Other Services:	
498' FEL & 2798' FNL			FF - MSG Guard	
Sec. <u>17</u>	Twp <u>23-S</u>	Rge <u>17-E</u>	295	
Permanent Datum <u>Ground Level</u> Elev. <u>4325'</u>			Elev.: K.B. <u>4339'</u> ES	
Log Measured From <u>K. B. - 14</u> Ft. Above Perm. Datum			D.F. <u>4338'</u>	
Drilling Measured From <u>Kelly Bushing</u>			G.L. <u>4325'</u>	
Date	<u>11/26/69</u>			
Run No.	<u>- One -</u>			
Depth-Driller	<u>8687</u>			
Depth-Welex	<u>8685</u>			
Btm. Log Inter.	<u>8679 166</u>			
Top Log Inter.	<u>Surface</u>			
Casing-Driller	<u>9-5/8" @ 600</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Welex				
Bit Size	<u>7-7/8"</u>			
Type Fluid in Hole	<u>Salt Base</u>			
	<u>Mud</u>			
Dens. Visc.	<u>10.5 50</u>	<u> </u>	<u> </u>	<u> </u>
pH Fluid Loss	<u> ml</u>	<u> ml</u>	<u> ml</u>	<u> ml</u>
Source of Sample	<u>Circulated</u>			
R _m @ Meas. Temp.	<u>.340 @ 76 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
R _{mf} @ Meas. Temp.	<u>.140 @ 58 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
R _{mc} @ Meas. Temp.	<u>.164 @ 54 °F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Source R _{mf} R _{mc}	<u>Press</u>	<u> </u>	<u> </u>	<u> </u>
R _m @ BHT	<u>.20 @ 130°F</u>	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>
Time Since Circ.				
Max. Rec. Temp.	<u>30 °F @ B.H.</u>	<u>°F @</u>	<u>°F @</u>	<u>°F @</u>
Equip. Location	<u>77571 Farmington I</u>			
Recorded By	<u>J. Patterson</u>			
Witnessed By	<u>Mr. Green</u>			

SCHLUMBERGER

SONIC LOG - GAMMA RAY

(WITH CALIPER)

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL MORICH-FEDERAL #1 COMPANY MORRIS ROSENBLATT	COMPANY	MORRIS ROSENBLATT				
	WELL	MORICH - FEDERAL # 1				
	FIELD	WILDCAT				
	COUNTY	GRAND	STATE	UTAH		
	LOCATION	NE - NE		Other Services:		
Sec.	20	Twp.	23S	Rge.	17E	NONE 353 353

Permanent Datum: G.L., Elev. 4351	Elev.: K.B. 4362
Log Measured From K.B., 11 Ft. Above Perm. Datum	D.F. -
Drilling Measured From K.B.	G.L. 4351

Date	4-7-64			
Run No.	ONE			
Depth—Driller	2402			
Depth—Logger	2403			
Btm. Log Interval	2402 - 21.2			
Top Log Interval	308			
Casing—Driller	9 5/8 @ 308	@	@	@
Casing—Logger	308			
Bit Size	8 3/4"			
Type Fluid in Hole	CLEAR WATER BENEX ADDED			
Dens.	Visc.	-	-	
pH	Fluid Loss	-	- ml	ml ml ml ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	5.4 @ 70°F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	5.3 @ 71°F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS CHART			
R _m @ BHT	4.8 @ 79°F	@ °F	@ °F	@ °F
Time Since Circ.	3 HOURS			
Max. Rec. Temp.	79 °F	°F	°F	°F
Equip. Location	2598 G.J.			
Recorded By	MONTGOMERY			
Witnessed By	OSMOND			

Schlumberger

**SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY**

COUNTY GRAND FIELD SALT WASH LOCATION 639' FEL 693' FSL SE SE WELL SKYLINE 1A-S W COMPANY WILLARD PEASE O & G	COMPANY WILLARD PEASE OIL & GAS	
	WELL SKYLINE 1A-S W	
	FIELD SALT WASH	
	COUNTY GRAND STATE UTAH	
LOCATION	639' FEL 693' FSL SE SE	
API SERIAL NO.	SEC.	TWP.
	21	23S
		RANGE 17E 6
Other Services:		GR-DLL TTR
		296

Permanent Datum: GL	Elev.: 4125	Elev.: K.B. 4138
Log Measured From KB	13 Ft. Above Perm. Datum	D.F. ----
Drilling Measured From - KB		G.L. 4125

Date	2/13/77				
Run No.	ONE				
Depth-Driller	8870				
Depth-Logger	8843				
Btm. Log Interval	8842 700				
Top Log Interval	2000				
Casing-Driller	8 5/8 @ 1540	@	@	@	@
Casing-Logger	1480				
Bit Size	7 7/8				
Type Fluid in Hole	SALT GEL				
Dens.	Visc.	11.4 55			
pH	Fluid Loss	----	16 ml	ml	ml
Source of Sample	MUD PIT				
Rm @ Meas. Temp.	.072 @ 52°F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.061 @ 40°F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---- @ --°F	@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	MUD PRESS				
Rm @ BHT	.028 @ 148°F	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	2000 2/12			
	Logger on Bottom	1200 2/13			
Max. Rec. Temp.	148°F		°F	°F	°F
Equip.	Location	7759	G.J.		
Recorded By	T R ETTER				
Witnessed By Mr.	MR. OUIGLEY				

~~206~~

235

~~21E~~

18E

K7-1-1377

UNDERWOOD
WELL LOGGING SERVICE
2012 LYNWOOD DR
FARMINGTON, NEW MEXICO

COMPANY: SHELL OIL CO.
WELL: MIN. FUEL FEDERAL 1-21
LOCATION: Sec. 21-123S-RISE
CO & STATE: GRAND, UTAH
E.S. ELEV: 48530'



Table with columns: DEPTH, LITHOLOGY, REMARKS, LOG, FILLO, DRILLING RATE. The table contains detailed geological data and a depth scale from 0 to 2000 feet.

297

WELL HEAD T11A U2H-25 3/4 IN
9.8-05.9/37.11.0.0.2 2 000 PSI

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

57-1-2153

COUNTY
FIELD or
LOCATION
WELL

COMPANY

COMPANY SHELL OIL COMPANY

WELL MOUNTAIN FUEL FEDERAL #1-21

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION 627' FW
608' FNL

Other Services:
LL-GR, SNP-GR,
FDC-GR, MILL-GR,
FDT, CIS 297

Sec. 21 Twp. 235 Rge. 18E

Permanent Datum: GL, Elev. 4510
Log Measured From KB 15 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4525
D.F. 4524
G.L. 4580

Date	<u>9-22-69</u>					
Run No.	<u>THREE</u>					
Depth—Driller	<u>10,333</u>			<u>APT No 43-019-30038</u>		
Depth—Logger	<u>10,332</u>					
Bitm. Log Interval	<u>10,330</u>	<u>199</u>				
Top Log Interval	<u>14200</u>					
Casing—Driller	<u>9 5/8 @ 1821</u>		@	@	@	@
Casing—Logger						
Bit Size	<u>8 3/4</u>					
Type Fluid in Hole	<u>SBM</u>					
Dens.	<u>10.8</u>	<u>57</u>				
pH	<u>11.0</u>	<u>8.4 ml</u>		ml	ml	ml
Fluid Loss						
Source of Sample	<u>FLOW LINE</u>					
R _m @ Meas. Temp.	<u>0.34 @ 60 °F</u>		@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>0.32 @ 60 °F</u>		@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>2.32 @ 60 °F</u>		@	°F	@	°F
Source: R _{mf}	<u>NI</u>	<u>IX</u>				
R _m @ BHT	<u>0.05 @ 164 °F</u>		@	°F	@	°F
Time Since Circ.	<u>23 HR</u>					
Max. Rec. Temp.	<u>164</u>	<u>°F</u>		°F	°F	°F
Equip.	<u>4544 VERNAL</u>					
Location						
Recorded By	<u>GODFREY E PROBST</u>					
Witnessed By	<u>M SLEHANEY</u>					

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY FIELD or LOCATION WELL API No COMPANY	57-1-2153	43-019-30038	COMPANY <u>Shell Oil Company</u>
			WELL <u>Mountain Fuel Federal 1-21</u>
			FIELD <u>Wildcat</u>
			COUNTY <u>Grand</u> STATE <u>Utah</u>
		LOCATION <u>627 FWL</u> <u>608 FNL</u>	Other Services: FDC/GR SNP/GR DIL 297
		Sec. <u>21</u> Twp. <u>235</u> Rge. <u>18E</u>	

Permanent Datum: <u>G.L.</u> , Elev. <u>4510</u>	Elev.: K.B. <u>4525</u>
Log Measured From <u>K.B.</u> , <u>15</u> Ft. Above Perm. Datum	D.F. _____
Drilling Measured From <u>K.B.</u>	G.L. <u>4510</u>

Date	<u>8-24-69</u>					
Run No.	<u>1</u>					
Depth—Driller	<u>5732</u>					
Depth—Logger	<u>5737</u>					
Btm. Log Interval	<u>5734</u> ^{25.1}					
Top Log Interval	<u>1823</u>					
Casing—Driller	<u>9 5/8</u>	@ <u>1821</u>	@	@	@	@
Casing—Logger	<u>1823</u>					
Bit Size	<u>8 3/4</u>					
Type Fluid in Hole	<u>Clay Base</u>					
Dens.	Visc.	<u>8.9</u>	<u>40</u>			
pH	Fluid Loss	<u>11.0</u>	<u>8.8</u> ml	ml	ml	ml
Source of Sample <u>Circ.</u>						
R _m @ Meas. Temp.	<u>0.816</u>	@ <u>66</u> °F	@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>0.645</u>	@ <u>76</u> °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>0.86</u>	@ <u>66</u> °F	@	°F	@	°F
Source: R _{mf}	R _{mc}	<u>M</u>	<u>C</u>			
R _m @ BHT	<u>0.414</u>	@ <u>130</u> °F	@	°F	@	°F
Time Since Circ.	<u>20 hr</u>					
Max. Rec. Temp.	<u>130</u> °F			°F	°F	°F
Equip.	Location	<u>5616</u>	<u>4316</u>			
Recorded By	<u>G. Thomas</u>					
Witnessed By	<u>D. McLehane</u>					

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

S7-1-2153

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL Co.

WELL MOUNTAIN FUEL FEDERAL 1-21

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION
627 FWL, 608 FNL
Sec. 21 Twp. 23-S Rge. 18 E

Other Services:
DIL 297

Permanent Datum: GL, Elev. 4510
Log Measured From KB, 15 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4525
D.F. 4524
G.L. 4510

Date	<u>8-1-69</u>			TIGHT HOLE			
Run No.	<u>ONE</u>						
Depth—Driller	<u>1821</u>						
Depth—Logger	<u>1822</u>						
Btm. Log Interval	<u>1820</u>						
Top Log Interval	<u>120</u>						
Casing—Driller	<u>@</u>						
Casing—Logger	<u>32</u>						
Bit Size	<u>12 1/4</u>						
Type Fluid in Hole	<u>LIME</u>						
Dens.	Visc.	<u>9.1</u>	<u>36</u>				
pH	Fluid Loss	<u>11.0</u>	<u>12.4 ml</u>		ml		ml
Source of Sample		<u>FLOW LINE</u>					
R _m @ Meas. Temp.	<u>3.07 @ 80°F</u>	@	°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	<u>3.13 @ 80°F</u>	@	°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	<u>4.10 @ 80°F</u>	@	°F	@	°F	@	°F
Source: R _{mf}	R _{mc}	<u>M</u>	<u>CB</u>				
R _m @ BHT	<u>- @ - °F</u>	@	°F	@	°F	@	°F
Time Since Circ.	<u>2 1/2 HRS</u>						
Max. Rec. Temp.	<u>TLTM °F</u>						
Equip.	Location	<u>3860 FARM</u>					
Recorded By	<u>WELLS & LEBSACK</u>						
Witnessed By	<u>MR. McLEHANEY</u>						

FIELD PRINT

Schlumberger

DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND
FIELD or LOCATION WILDCAT
WELL KLONDIKE UNIT NO. 1
COMPANY HILLIARD OIL & GAS

COMPANY HILLIARD OIL & GAS

WELL KLONDIKE UNIT NO. 1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location. API Serial No. 74146
C-SW-NW

Sec. 24 Twp. 23S Rge. 18E

Other Services:

BHC
F-LOG

218

Permanent Datum: GL; Elev.: 4459
Log Measured From KB, 15 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4474
D.F. ----
G.L. 4459

Date	8-7-75				
Run No.	ONE				
Depth-Driller	5282				
Depth-Logger	5288				
Btm. Log Interval	5282 22.1				
Top Log Interval	356				
Casing-Driller	10-3/4 367	@	@	@	
Casing-Logger	366				
Bit Size	7-7/8				
Type Fluid in Hole	FGM				
Fluid Level	FULL				
Dens.	9.0	44			
pH	11.0	11.5ml	ml	ml	ml
Fluid Loss					
Source of Sample	CIRCULATED				
R _m @ Meas. Temp.	.698 @ 103°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.445 @ 103°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	.50 @ 103°F	@	°F	@	°F
Source: R _{mf} R _{mc}	M C				
R _m @ BHT	.62 @ 115°F	@	°F	@	°F
Time Since Circ.	5 HRS				
Max. Rec. Temp.	115 °F	°F	°F	°F	°F
Equip. Location	7761 FARM				
Recorded By	LAUDE-GRIFFIN				
Witnessed By	NANCE				

~~198~~
235

~~21E~~
19E

SCHLUMBERGER

SONIC LOG - GAMMA RAY
(WITH CALIPER)

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL #1 GOV'T MC KINNON COMPANY TEXACO, INC.	COMPANY <u>TEXACO, INC.</u>
	WELL <u>#1 GOV'T MC KINNON</u>
	FIELD <u>WILDCAT</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
LOCATION <u>660' FROM S & W LINES</u>	Other Services: <u>1-ES</u>
Sec. <u>15</u> Twp. <u>23S</u> Rge. <u>19E</u>	<u>299</u>

Permanent Datum: <u>G.L.</u> , Elev. <u>4577</u>	Elev.: K.B. <u>4589</u>
Log Measured From <u>K.B.</u> , <u>12</u> Ft. Above Perm. Datum	D.F. <u>4588</u>
Drilling Measured From <u>K.B.</u>	G.L. <u>4577</u>

Date	4-5-66	7-5-66		
Run No.	ONE	TWO		
Depth—Driller	4376	12083		
Depth—Logger	4380	12081		
Btm. Log Interval	4378	27.5	12074	20.4
Top Log Interval	15	11150		
Casing—Driller	16" @450	7 5/8 @11313	@	@
Casing—Logger	450	11305		
Bit Size	13 3/4"	6 1/4"		
Type Fluid in Hole	FRESH GEL	GEL		
	CHEMICALS			
Dens.	9.5	59	9.3	58
pH	9.0	6.4 ml	8.5	13.2 ml
Fluid Loss				
Source of Sample	FLOW LINE	MUD PITS		
R _m @ Meas. Temp.	1.30 @74 °F	0.14 @ 94 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.79 @72 °F	0.10 @ 91 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.80 @74 °F	0.44 @ 94 °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS	PRESS	PRESS	PRESS
R _m @ BHT	0.82 @ 117 °F	0.07 @ 186 °F	@ °F	@ °F
Time Since Circ.	-	8 HOURS		
Max. Rec. Temp.	117 °F	186 °F		
Equip. Location	2598 G.J.	4538 G.J.		
Recorded By	MONTGOMERY	MONTGOMERY		
Witnessed By	FARRAR	FARRAR		

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Schlumberger

INDUCTION-LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT LOCATION SW/SW 502FWL 601FSL WELL KLONDIKE UNIT #3 COMPANY MOUNTAIN FUEL SUPPLY	COMPANY <u>MOUNTAIN FUEL SUPPLY</u>		
	WELL <u>KLONDIKE UNIT #3</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION	SW/SW 502 FWL 601 FSL	Other Services: BHC-GR HDT 300	
API SERIAL NO.	SEC. <u>31</u>	TWP <u>23S</u>	RANGE <u>19E 13</u>
Permanent Datum: <u>G.L.</u> ; Elev.: <u>4900</u>		Elev.: K.B. <u>4911</u>	
Log Measured From <u>KB</u> <u>11</u> Ft. Above Perm. Datum		D.F. <u>----</u>	
Drilling Measured From <u>KB</u>		G.L. <u>4900</u>	
Date	<u>1/29/77</u>		
Run No.	<u>ONE</u>		
Depth-Driller	<u>2659</u>		
Depth-Logger	<u>2659</u>		
Btm. Log Interval	<u>2653 17.2</u>		
Top Log Interval	<u>340</u>		
Casing-Driller	<u>9 5/8 @ 340 @ @ @</u>		
Casing-Logger	<u>340</u>		
Bit Size	<u>7 7/8</u>		
Type Fluid in Hole	<u>FGM</u>		
Dens.	Visc.	<u>9.0 36</u>	
pH	Fluid Loss	ml	ml
Source of Sample		<u>FLOWLINE</u>	
Rm @ Meas. Temp.	<u>3.67 @ 52°F</u>	@ °F	@ °F
Rmf @ Meas. Temp.	<u>4.10 @ 52°F</u>	@ °F	@ °F
Rmc @ Meas. Temp.	<u>---- @ --°F</u>	@ °F	@ °F
Source: Rmf	Rmc	<u>MEAS --</u>	
Rm @ BHT	<u>2.51 @ 76°F @ °F @ °F</u>		
Circulation Stopped	<u>300</u>		
Logger on Bottom	<u>700</u>		
Max. Rec. Temp.	<u>76°F °F °F °F</u>		
Equip.	<u>7759 G.J.</u>		
Recorded By	<u>GEIGER</u>		
Witnessed By	<u>KRIVANEK</u>		

The well name location and Leasehold reference numbers were furnished by the customer.

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY FIELD OF LOCATION WELL COMPANY	GRAND	WILDCAT	STRAT-TEST	STATE #1	EQUITY OIL CO.	COMPANY <u>EQUITY OIL CO.</u>	Location of Well SE-NE-SE SEC. 36-23S-19E
	WILDCAT	STRAT-TEST	STATE #1	EQUITY OIL CO.	EQUITY OIL CO.	WELL: <u>STRAT-TEST</u>	ES Elevation: D.F.: _____ K.B.: _____ or G.L.: <u>4588</u>
	STRAT-TEST	STATE #1	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	FIELD: <u>WILDCAT</u>	
	STATE #1	STATE #1	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	LOCATION: <u>SEC. 36-23S-19E</u>	
EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	COUNTY: <u>GRAND</u>	FILING No. <u>301</u>
EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	EQUITY OIL CO.	STATE: <u>UTAH</u>	

RUN No.	ONE				
Date	5-18-54				
First Reading	6138	24.9			
Last Reading	345				
Feet Measured	5793				
Csg. Schlum.	345				
Csg. Driller	345				
Depth Reached	6139				
Bottom Driller	6132				
Depth Datum	KB				
Mud Nat.	LIME-GEL-CAUS				
" Density	9.8				
" Viscosity	45				
" Resist.	.48 @ 84°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	.31 @ 135°F	@ °F	@ °F	@ °F	@ °F
" pH	@ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	6.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	135				
Bit Size	9"				
Spcgs.—AM	16"				
AM ^o	64"				
AO	18" 8"				
Opr. Rig Time	2 HRS.				
Truck No.	1773 FARM				
Recorded By	DANIELS				
Witness By	PETERSON				

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23 S

20 E

171, 223

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T HALL #1 COMPANY CONTINENTAL OIL COMPANY	COMPANY <u>CONTINENTAL OIL</u>	Location of Well ML Elevation: D.F.: _____ K.B.: 4834 or G.L.: 4826
	COMPANY _____	
	WELL <u>GOV'T HALL #1</u>	
	FIELD <u>WILDCAT</u>	
	LOCATION <u>SEC. 6 23S 20E</u> <u>330N & 330E OF SW CORNER</u>	
COUNTY <u>GRAND</u>	FILING No. <u>5JR302</u>	
STATE <u>UTAH</u>		

RUN No.	ONE				
Date	8-19-56				
First Reading	2779 32.1				
Last Reading	153				
Feet Measured	2626				
Csg. Schlum.	153				
Csg. Driller	150				
Depth Reached	2780				
Bottom Driller	2785				
Depth Datum	KB				
Mud Nat.	CHEM. GEL				
" Density	9.4				
" Viscosity	36				
" Resist.	6.0@ 78°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	4.7@ 100°F	@ °F	@ °F	@ °F	@ °F
" pH	13.0@ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	8.0CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	100				
Bit Size	9"				
Spcgs.—AM	16"				
A	64"				
AO	18'8"				
Opr. Rig Time	3 HRS				
Truck No.	1523 GJ				
Recorded By	MIXA				
Witnessed By	SMITH				

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SCHLUMBERGER		LOCATION - GAMMA RAY LOG	
COUNTY GRAND FIELD or LOCATION WILDCAT WELL DEVIL'S GARDEN #1-P-2 STATE 2 COMPANY UNION O.I.L. CO.	COMPANY UNION O.I.L. CO. OF CALIFORNIA		
	WELL DEVIL'S GARDEN #1-P-2 STATE		
	FIELD WILDCAT		
	COUNTY GRAND STATE UTAH		
LOCATION SE SE		Other Services:	
Sec. 2 Twp. 23S Rge. 21E		FDC-GK	
Permanent Datum: G1		Elev. 3603	
Log Measured From KB		13 Ft. Above Perm. Datum	
Drilling Measured From KB		Elev.: X.B. 3617 D.F. 3616 G.I. 3603	
Date	11-21-70		
Run No.	ONE		
Depth—Driller	3988		
Depth—Logger	3978		
Btm. Log Interval	3972 21.1		
Top Log Interval	10		
Casing—Driller	8 5/8 @ 1997	@	@
Casing—Logger	2001		
Bit Size	7 7/8		
Type Fluid in Hole	AIP		
Dens.	Visc.		
pH	Fluid Loss	ml	ml
Source of Sample			
R ₁ @ Meas. Temp.		°F	°F
R ₂ @ Meas. Temp.		°F	°F
R ₃ @ Meas. Temp.		°F	°F
Source: R ₁ R ₂			
R ₃ @ BMT		°F	°F
Time Since Circ.	2 HOURS		
Max. Rec. Temp.	97	°F	°F
Equip. Location	5639 VERNAL		
Recorded By	ELLIS		
Witnessed By	MR. JOHNSON & MR. FLOOD & MR. VARR		

303

Reproduced By
Electrical Log Services
 MIDLAND, TEXAS 79701

REFERENCE K 7638H



16 COMPLETION RECORD

SPUD DATE _____

COMP DATE _____

DST RECORD _____

CASING RECORD _____

SCHLUMBERGER

DUAL INDUCTION-LATEROLOG

COUNTY <u>GRAND, UTAH</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>DEVILS' GARDEN USA #1</u> COMPANY <u>UNION OIL CO. CAL.</u>	COMPANY <u>UNION OIL COMPANY OF CALIFORNIA</u>	
	WELL <u>DEVILS' GARDEN USA #1</u>	
	FIELD <u>WILDCAT</u>	
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>	
	LOCATION <u>244' FSL 1643' FEL</u> Sec. <u>5</u> Twp. <u>23S</u> Rge. <u>21E</u>	Other Services: CDM BHC-GR/C <i>304</i>
	Permanent Datum: <u>GL</u> , Elev. <u>4695</u> Log Measured From <u>KB 12</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>	Elev.: K.B. <u>4707</u> D.F. <u>4706</u> G.L. <u>4695</u>
Date <u>1/19/67</u> Run No. <u>ONE</u> Depth-Driller <u>9262</u> Depth-Logger <u>9265</u> Btm. Log Interval <u>9262</u> Top Log Interval <u>2095</u> Casing-Driller <u>10 3/4 2095</u> Casing-Logger <u>2095</u> Bit Size <u>7 7/8</u> Type Fluid in Hole <u>SALT MUD</u>	<h1 style="font-size: 4em; margin: 0;">TIGHT HOLE</h1>	
Dens. <u>10.3</u> Visc. <u>70</u> pH <u> </u> Fluid Loss <u> </u> ml <u> </u> Source of Sample <u>FLOW LINE</u>		
R _m @ Meas. Temp. <u>.053 @ 72 °F</u> R _{mf} @ Meas. Temp. <u>.043 @ 72 °F</u> R _{mc} @ Meas. Temp. <u>-- @ -- °F</u> Source: R _{mf} R _{mc} <u>M --</u> R _m @ BHT <u>.032 @ 138 °F</u>		
Time Since Circ. <u>20 HRS.</u> Max. Rec. Temp. <u>138 °F</u>		
Equip. Location <u>4542 FARM</u> Recorded By <u>BROOKS</u> Witnessed By <u>MR. LEE</u>		



INDUCTION-GAMMA RAY LOG
+
LATEROLOG GAMMA RAY

COUNTY GRAND, UTAH
FIELD or LOCATION WILDCAT
WELL USA #1-9 YELLOW CAT
FEDERAL UNIT
COMPANY QUINTANA PET.

COMPANY QUINTANA PETROLEUM CORPORATION

WELL USA #1-9 YELLOW CAT FEDERAL UNIT

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION 1980' FNL 1985' FWL

Other Services: **305**
BHC/GR
FDC/GR

Sec. 9 Twp. 23S Rge. 22E

Permanent Datum: GL, Elev. 4860

Log Measured From KB, 26.5 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 4886.5
D.F. 4885
G.L. 4860

Date	8/10/70	9/1/70		
Run No.	ONE	TWO		
Depth - Driller	8835	11748		
Depth - Logger	8834	11742		
Btm. Log Interval	8829 ^{16.5}	11735 ^{19.1}		
Top Log Interval	2600	8832		
Casing - Driller	3 3/8 @ 2600	9 5/8 @ 8831	@	@
Casing - Logger	2600	8832		
Bit Size	12 1/4	8 1/2		
Type Fluid in Hole	SALT WATER - MIST, SOAP. AIR DRILLED	AIR DRILL		
Dens.	9.8	28	--	--
Visc.	7.0	-- ml	--	-- ml
pH				
Fluid Loss				
Source of Sample	CIRC.	--		
R _m @ Meas. Temp.	.05 @ 75 °F	-- @ -- °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.05 @ 75 °F	-- @ -- °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ -- °F	-- @ -- °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M --	-- --		
R _m @ BHT	.029 @ 130 °F	-- @ -- °F	@ °F	@ °F
Time Since Circ.	4 HRS.	6 HRS.		
Max. Rec. Temp.	130 °F	179 °F	°F	°F
Equip. Location	5625 FARM	5625 FARM		
Recorded By	RUSEN	SCHULTZ		
Witnessed By	MR. RIGGS	MR. RIGGS		

235 - 24E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog

WITH GAMMA RAY

COUNTY GRAND UTAH FIELD or LOCATION WILDCAT ONION CREEK WELL COMPANY RICHELFIELD OIL CORPORATION	COMPANY <u>RICHELFIELD OIL</u>	Other Surveys GRN, CDM, SGR CAL, SRS
	<u>CORPORATION</u>	
	WELL <u>ONION CREEK UNIT #1</u>	Location of Well 306
	FIELD <u>WILDCAT</u>	
	LOCATION <u>SEC. 31-23S-24E</u>	
	<u>C-NE-SW</u>	
	COUNTY <u>GRAND</u>	Elevation: K.B.: <u>4307</u>
	STATE <u>UTAH</u>	D.F.: _____ or G.L.: <u>4291</u>

Log Depths Measured From KB 16 Ft. above GL

RUN No.	ONE	TWO	
Date	3-30-61	7-29-61	
First Reading	8647 21.7	13580 23.5	
Last Reading	960	8641	
Feet Measured	7687	4949	
Csg. Schlum.	960	8641	
Csg. Driller	960	8651	
Depth Reached	8652	13585	
Bottom Driller	8653	13564	
Mud Nat.	SALT BASE - OIL EMUL. 10% DIESEL		
Dens. Visc.	10.1 34	10.9 42	
Mud Resist.	0.05 @ 80 °F	.049 @ 94 °F	@ °F
" Res. BHT	0.026 @ 154 °F	.024 @ 226 °F	@ °F
" pH	6.0 @ °F	6 @ °F	@ °F
" Wtr. Loss	2.5 CC 30 min	3.2 CC 30 min	CC 30 min
" Rmf	0.044 @ 75 °F	.0385 @ 91 °F	@ °F
" Rmc	0.11 @ 75 °F	@ °F	@ °F
Bit Size	12 1/4"	7 3/8"	
Laterolog 3	a= ;L=	a= ;L=	a= ;L=
	a= ;n=	a= ;n=	a= ;n=
Opr. Rig Time	3 HOURS	3 HOURS	
Truck No.	2598 CORTEZ	3501 CORTEZ	
Recorded By	ED MIXA	CLAYTON	
Witness	MR. HANGER	MR. TRIMBLE	

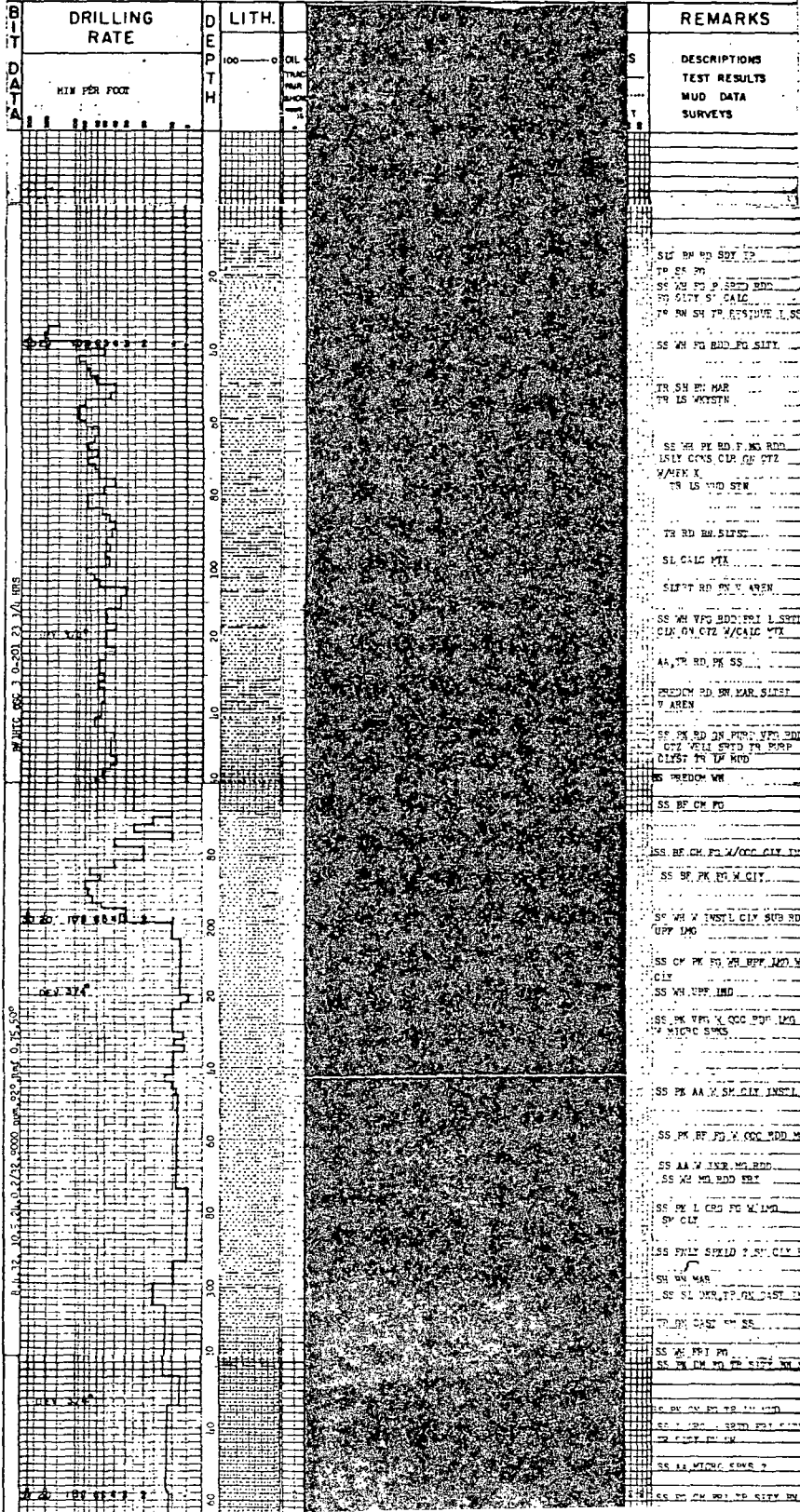
FOLD HERE
 DEALARVC CALIBRATION BACKGND SOURCE CALIBR

K7-1-1385 SHELL OIL CO
FORMATION & HYDROCARBON LOGGING RECORD
 UNDERWOOD WELL LOGGING SERVICE
 FARMINGTON, NEB 68410

COMPANY SHELL OIL CO 57-1-216
 WELL CINCINNATI 1-1 FIELD W.C.
 COUNTY GRAND STATE IOWA
 ELEV 1477 FT
 LOCATION S37-1-269-E 17 E
 LOGGING ENGINEERS A.G. JARVIS, D.L. JARVIS
 TYPE UNIT T20 (2) 24 HR Surveillance

LEGEND

ABBREVIATIONS		LITHOLOGY	
NB NEW BIT	W WEIGHT OF MUD	SHALE, CLAY	<input type="checkbox"/>
NCB NEW CORE BIT	CK FILTER CAKE	SILTY SHALE	<input type="checkbox"/>
CD CIRCULATED CUT	V VISCOSITY, API SECONDS	SILTSTONE	<input type="checkbox"/>
DST DRILL STEM TEST	F FILTRATE, API CC 3	SDY SILTST	<input type="checkbox"/>
LAT LOGGED AFTER TRIP	S SALINITY, ppmCl	SAND	<input type="checkbox"/>
TG TRIP GAS	R RESISTIVITY, OHM-METER	CHELT	<input type="checkbox"/>
CG CONNECTION GAS	Rm MUD	CONGLOMERATE	<input type="checkbox"/>
PR POOR RETURNS	Rmc MUD CAKE		
NR NO RETURNS	Rmf MUD FILTRATE		
		LIMESTONE	<input type="checkbox"/>
		DOLOMITE	<input type="checkbox"/>
		GYPSUM or ANHYDRITE	<input type="checkbox"/>
		SALT	<input type="checkbox"/>
		COAL	<input type="checkbox"/>
		GRANITE	<input type="checkbox"/>
		VOLCANICS	<input type="checkbox"/>



SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

S7-1-2160

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL SHELL - QUINTANA # 1-1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION 1602'E & 1566'N
FROM SW CORNER

Other Services:
DIL

Sec. 1 Twp. 24S Rge. 17E

307

Permanent Datum: GL, Elev. 4465
Log Measured From KB 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4479
D.F. _____
G.I. 4465

Date	<u>10-6-69</u>			API No. <u>43-019-30042</u>		
Run No.	<u>ONE</u>					
Depth—Driller	<u>1475</u>					
Depth—Logger	<u>1476</u>					
Btm. Log Interval	<u>1474</u> ^{54.4}					
Top Log Interval	<u>SURFACE</u>					
Casing—Driller	<u>20" @ 10</u>	@	@	@	@	@
Casing—Logger	<u>20</u>					
Bit Size	<u>12 1/4</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>9.5</u>	<u>43</u>			
pH	Fluid Loss	<u>11</u>	<u>12.2 ml</u>	ml	ml	ml
Source of Sample	<u>FLOW LINE</u>					
R _m @ Meas. Temp.	<u>2.36 @ 66 °F</u>	@	°F	@	°F	@ °F
R _{mf} @ Meas. Temp.	<u>1.93 @ 58 °F</u>	@	°F	@	°F	@ °F
R _{mc} @ Meas. Temp.	<u>3.65 @ 63 °F</u>	@	°F	@	°F	@ °F
Source: R _{mf}	R _{mc}	<u>M</u>	<u>M</u>			
R _m @ BHT	<u>1.65 @ 95 °F</u>	@	°F	@	°F	@ °F
Time Since Circ.	<u>3 HR</u>					
Max. Rec. Temp.	<u>95 °F</u>			°F	°F	°F
Equip. Location	<u>4544</u>	<u>VERNAL</u>				
Recorded By	<u>PROBST</u>					
Witnessed By	<u>MC LEHANEY</u>					

The well name, location and borehole reference data were furnished by the customer.

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

57-1-2160

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL QUINTANA #1-1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION 1602' E & 1566' N
FROM SW CORNER

Sec. 1 Twp. 24 S Rge. 17 E

Other Serv
DIL
SNP-G
FDC-G
CST

Permanent Datum: GL, Elev. 4465
Log Measured From KB, 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4
D.F. 4
G.L. 4
307

Date	<u>10-23-69</u>	API NO.	<u>43-019-30042</u>
Run No.	<u>TWO</u>		
Depth—Driller	<u>5216</u>		
Depth—Logger	<u>5220</u>		
Btm. Log Interval	<u>5218</u> ²³⁸		
Top Log Interval	<u>1479</u>		
Casing—Driller	<u>95/8 @ 1475</u>	@	@
Casing—Logger	<u>1479</u>		
Bit Size	<u>8 3/4</u>		
Type Fluid in Hole	<u>GEL</u>		
Dens.	<u>9.1</u>	<u>41</u>	
pH	<u>11.0</u>	<u>7.8</u> ml	ml
Fluid Loss			
Source of Sample	<u>FLOWLINE</u>		
R _m @ Meas. Temp.	<u>1.03 @ 64°</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>0.80 @ 64°</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>1.24 @ 66°</u>	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M M</u>		
R _m @ BHT	<u>0.55 @ 119°</u>	@ °F	@ °F
Time Since Circ.	<u>14 H</u>		
Max. Rec. Temp.	<u>119</u> °F	°F	°F
Equip. Location	<u>3860 FARM</u>		
Recorded By	<u>WELLS</u>		
Witnessed By	<u>MCLEHANEY & DOGAN</u>		

FILED

RECORDED

SCHLUMBERGER

BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY

57-1-2160

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL QUINTANA # 1-1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION
1602' E & 1566' N FROM
SW CORNER S
Sec. 1 Twp. 24S Rge. 17E

Other Services:
L-GR
SNP-GR
FDC-GR
CIS
PDT 307

Permanent Datum: GL, Elev. 4465
Log Measured From KB, 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4479
D.F.
G.L. 4465

Date	11-9-69				
Run No.	THREE				
Depth—Driller	9140				
Depth—Logger	9134				
Btm. Log Interval	9125 14 1/4				
Top Log Interval	5218				
Casing—Driller	9 5/8 @ 1475	@	@	@	@
Casing—Logger	-				
Bit Size	8 3/4"				
Type Fluid in Hole	SALT BASE				
Dens.	10.6	38			
pH	11.0	92 ml	ml	ml	ml
Fluid Loss					
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	.057 @ 70°F	.030 @ 143°F	@	@	@
R _{mf} @ Meas. Temp.	.051 @ 70°F	.028 @ 143°F	@	@	@
R _{mc} @ Meas. Temp.	.080 @ 70°F	.041 @ 143°F	@	@	@
Source: R _{mf} R _{mc}	M M				
R _m @ BHT	.030 @ 143°F	@	@	@	@
Time Since Circ.	19 HRS				
Max. Rec. Temp.	143 °F	°F	°F	°F	°F
Equip.	5625 FARM				
Location					
Recorded By	WELLS & MCBRAE				
Witnessed By	MCLEHANEY & DOGAN				

FIELD PRINT

Schlumberger

DUAL LATEROLOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL KLONDIKE #2 COMPANY MOUNTAIN FUEL	COMPANY MOUNTAIN FUEL SUPPLY
	WELL KLONDIKE #2
	FIELD WILDCAT
	COUNTY GRAND STATE UTAH
LOCATION NE SE 1860 FSL & 793 FEL Sec. 22 Twp. 24S Rge. 19E	
Other Services: <i>etc</i> FDC, DIL 308	

Permanent Datum: G.L., Elev. 4765	Elev.: K.B. 4777
Log Measured From G.L. 12 Ft. Above Perm. Datum	D.F. -
Drilling Measured From K.B.	G.L. 4765

Date	2/26/76	3/1/76		
Run No.	ONE	TWO		
Depth - Driller	6466	7810		
Depth - Logger	6477	7822		
Btm. Log Interval	6463 15.5	7808 15.9		
Top Log Interval	4450	4450		
Casing - Driller	10 3/4 478	10 3/4 478	@	@
Casing - Logger	480	480		
Bit Size	7 7/8	7 7/8		
Type Fluid in Hole	SALT-GEL MAGCOBAR	SALT MUD		
Dens. Visc.	10.9 100+	10.3 37		
pH Fluid Loss	6 - ml	6 12 ml		
Source of Sample	FLOWLINE	MUD PIT		
R _m @ Meas. Temp.	.057 @ 61 °F	.59 @ 66 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.56 @ 59 °F	.06 @ 68 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	- @ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	MUD PRESS	MUD PRESS		
R _m @ BHT	.035 @ 106 °F	.035 @ 119 °F	@ °F	@ °F
Time Since Circ.	CIRC.	CIRC		
Max. Rec. Temp.	106 °F	119 °F		
Equip. Location	7759 G.J.	7759 G.J.		
Recorded By	ETTER	ETTER		
Witnessed By	KRTIVANEK	MICKEL		

SCHLUMBERGER

SONIC LOG - GAMMA RAY

(WITH CALIPER)

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL COURTHOUSE WASH UNIT # 1 COMPANY SHELL OIL COMPANY	COMPANY	SHELL OIL COMPANY		
	WELL	COURTHOUSE WASH UNIT # 1		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	1715' FNL - 1673' FEL		Other Services:
	Sec. 12	Twp. 24S	Rge. 20E	LL-3, CDM 309

Permanent Datum: G.L., Elev. 4636	Elev.: K.B. 4648
Log Measured From K.B., 12 Ft. Above Perm. Datum	D.F. 4646
Drilling Measured From K.B.	G.L. 4636

Date	12-2-64				
Run No.	ONE				
Depth—Driller	5600				
Depth—Logger	5607				
Btm. Log Interval	5606	14.6			
Top Log Interval	991				
Casing—Driller	8 5/8@	985	@	@	@
Casing—Logger	991				
Bit Size	7 7/8"				
Type Fluid in Hole	SALT SATURATED				
Dens.	Visc.	10.5	45		
pH	Fluid Loss	6.5	6.0 ml	ml	ml
Source of Sample	FLOW LINE				
R _m @ Meas. Temp.	.056 @	70 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.051 @	60 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	.150 @	70 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS PRESS				
R _m @ BHT	.042 @	96 °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS				
Max. Rec. Temp.	96	°F	°F	°F	°F
Equip. Location	2598	G. J.			
Recorded By	MONTGOMERY				
Witnessed By	SHEPARD				

SCHLUMBERGER

**BDR-HOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY GRAND FIELD or LOCATION WILDCAT WELL NO. 1 CORRAL CANYON STATE COMPANY UNION OIL CO.	COMPANY	UNION OIL COMPANY OF CALIFORNIA		
	WELL	NO. 1 CORRAL CANYON STATE		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	SW SE	575' FSL & 1836' FEL	
	Sec.	36	Twp.	24 S Rge. 20 E
		Other Services:		
		DIL st 310		

Permanent Datum:	GL	Elev.	4434	Elev.:	K.B. 4448
Log Measured From:	KB	14	Ft. Above Perm. Datum	D.F.	---
Drilling Measured From:	KB			G.L.	4434

Date	5-22-69	6-4-69	6-10-69
Run No.	ONE	TWO	THREE
Depth—Driller	3073	7213	7530
Depth—Logger	2940	7199	7534
Btm. Log Interval	2938. 27.9	7197 15.4	7532 16.5
Top Log Interval	246	3067	7000
Casing—Driller	13 5/8@ 246	9 5/8@3073	@ 9 5/8@ 3073
Casing—Logger	246	3067	---
Bit Size	12 1/4	8 3/4	8 3/4
Type Fluid in Hole	SOAPY WATER	SBM	SBM
Dens.	---	10.0	36
Visc.	---		9.9
pH	---	8.0	24
Fluid Loss	---	ml	ml
Source of Sample	FLOWLINE	FLOW LINE	FLOW LINE
R _m @ Meas. Temp.	0.95 @70 °F	0.095 75 °F	- @ °F
R _{mf} @ Meas. Temp.	--- @--- °F	0.070 75 °F	0.04@ 112 °F
R _{mc} @ Meas. Temp.	--- @--- °F	--- @ -- °F	0.09@ 112 °F
Source: R _{mf} R _{mc}	---	M C	M --
R _m @ BHT	0.70 @96 °F	0.065 112 °F	@ °F
Time Since Circ.	5 HOURS	3 HOURS	3 HOURS
Max. Rec. Temp.	96 °F	112 °F	119 °F
Equip. Location	4544 VERNAL	4544 VERNAL	4529 VERNAL
Recorded By	PROBST	PROBST	GODFREY
Witnessed By	BRADLEY	BRADLEY	JOHNSON

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

Grand Junction, Colorado

COMPANY FERGUSON & BOSWORTH WELL CULLEN-S.S. PETROLIMEN DOWTY No. 1 FIELD WILD CAT ELEVATION 414845 IN 4855	LOCATION NE 1/4 SEC. 7 T24S R21E COUNTY GRAND STATE UTAH DRILLING FLUID OIL CRUM MUD	FROM TO DEPTH LOGGED 2000 2964 DATE LOGGED 12-19-72 12-29-72 1-24-73 2-20-73 ENGINEERS McKISSON STEPHEN
--	---	---

SHALE	DOLOMITE	COAL	TRACE
SANDSTONE	CHERT	ANHY-GYP	FAIR
LIMESTONE	SALT	GOOD	CORE NO.
			DST NO.
			DEVIATION

NB-NEW BIT
 NR-NO RETURNS
 CO-COAGULATE OUT
 NS-NO SAMPLE
 TG-TRIP GAS

311

DRILLING RATE IN FEET/HR	LITHOLOGY	DEPTH FEET	OIL PERCENT AGE	CHROMATOGRAPH HYDROCARBONS IN PARTS PER MILLION M = 1000 ppm						REMARKS
				TOTAL GAS	METHANE	ETHANE	PROPANE	BUTANES	PENTANES	
1/2°		1000		2	2	2	2	2	2	START LOGGING @ 1000' @ 6:30 P.M. 12-18-72
1/4°		1050		2	2	2	2	2	2	ss silt wh vf-fg-arg unconsol friab.; sh org red org dolo lens bent
50		1100		2	2	2	2	2	2	ss red pk w rdd unconsol ss aa incr in lt gry sft sdy sh s/w clay
3/4°		1150		2	2	2	2	2	2	incr pink ss ss aa few pos red m-firm shs
50		1200		2	2	2	2	2	2	unconsol ss aa sh v sft sdy wh clay (washes out v easily) sh lt gry red brn v sft sdy shs 9.6 36 6.0 2/32 10.0 1200ppm s/m firm red brn shs ss red pk fg v sort friab unconsol
1200		1250		2	2	2	2	2	2	ss gry vf-og v cem w/calcite ss wh pk vf-fg friab; sh wh bent ss red pk vf-fg arg VERY SCANT SAMPLE sh red firm
50		1300		2	2	2	2	2	2	ss gry vf-og gry v cem ss red vf-g friab
11/4°		1350		2	2	2	2	2	2	ss pred red vf-g friab sli incr in red siltst
1300		1400		2	2	2	2	2	2	sd red vf-g friab s/og grns in ss
11/2°		1450		2	2	2	2	2	2	ss aa grdg to siltst few pos red m-firm shs
50		1500		2	2	2	2	2	2	ss aa s/wh soft sly ss aa s/sli calc
1400		1550		2	2	2	2	2	2	sh red m-firm s/v red siltst ss red-pk vf-fg m-cem s/clr rdd lg ss
11/4°		1600		2	2	2	2	2	2	sh maroon silty s/soft wh bent sh sh aa s/gry grns sli calc 9.1 30 15 1/32 10.5 800ppm sh red silty calc mica siltst aa w/some grn mott sh-siltst aa
50		1650		2	2	2	2	2	2	s/soft red bent sh w/red firm silty ss pk-red vf-fg friab ls gry vf-xln arg ss pk vf-g w-cem calc
0-1°		1700		2	2	2	2	2	2	ls gry vf xln arg ss pk vf-g w cem calc ls aa v sdy s/galc p srt ss siltst-ss red vf-g v calc mica
1600		1750		2	2	2	2	2	2	ss lt gry red vf-fg w cem- friab unconsol p srt subrd
50		1800		2	2	2	2	2	2	ss aa s/mg
1/2°		1850		2	2	2	2	2	2	ss lt gry red vf-fg friab s/ red sh m firm

Schlumberger

GAMMA RAY-NEUTRON

COUNTY GRAND
 FIELD or LOCATION WILDCAT
 WELL CULLEN H.S. - PETRO
 -GOVERNMENT NO. 1-
 COMPANY FERGUSON & BOSWORTH

COMPANY FERGUSON AND BOSWORTH

WELL CULLEN-H. S. PETROLEUM-GOV'T. NO. 1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location:

NE/4

Other Services:

ES

Sec. 7 Twp. 24S Rge. 21E

31*

Permanent Datum: GL ; Elev.: 4845
 Log Measured From KB, 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 4855
 D.F. ----
 G.I. 4845

Date	2-19-73	2-21-73
Run No.	ONE	TWO
Type Log	G.R.N.	G.R.N.
Depth—Driller	4785	4964
Depth—Logger	4786	4966
Bottom logged interval	4785 14.9	4965 15.8
Top logged interval	20	4500
Type fluid in hole	FRESH GEL	FRESH GEL
Salinity, PPM Cl.	NIL	----
Density	9.0	9.2
Level	FULL	FULL
Max rec. temp., deg F.	90	94
Operating rig time	5 HOURS	6 HOURS
Recorded by	DANTI	YATCHAK & WILLIAMS
Witnessed by	AMUNDSEN & TONIETTE	AMUNDSEN & TONIETTE

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	8-3/4	250	2410	9-5/8	32	SURF	250
1	7-7/8	2410	2937				
1	6-3/4	2937	4785				
2	6-3/4	4500	4964	9-5/8	---	SURF	4500

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL ONION CREEK UNIT #2 COMPANY PHILLIPS PETROLEUM COMPANY	COMPANY PHILLIPS PETROLEUM	Other Surveys I-ES CST, GRN
	COMPANY	
	WELL ONION CREEK UNIT # 2	Location of Well SEC 13-24S-23E SW - NE
	FIELD WILDCAT	
	LOCATION SEC 13-24S-23E SW - NE	
COUNTY GRAND		Elevation: K.B.: 4569 D.F.: 4568 JRC or G.L.: 4553
STATE UTAH		

313

Log Depths Measured From K.B. 18.4 Ft. above BRADEN HEAD

RUN No.	ONE	TWO	
Date	12-9-62	1-1-63	
First Reading	13257 20.5	14281 30.2	
Last Reading	5468	12500	
Feet Measured	7789	1781	
Csg. Schlum.	5468	5468	
Csg. Driller	5467	5467	
Depth Reached	13261	14287	
Bottom Driller	13262	14311	
Mud Nat.	CHEM-GEL	OIL-CHEM.	
Dens. Visc.	9.2 38	9.2 41	
Mud Resist.	.65 @ 70 °F	.55 @ 66 °F	@ °F
" Res. BHT	.23 @ 200 °F	.13 @ 288 °F	@ °F
" pH	9.5 @ - °F	8.5 @ - °F	@ °F
" Wtr. Loss	3.6 CC 30 min	3.2 CC 30 min	CC 30 min
" Rmf	.43 @ 71 °F	.36 @ 69 °F	@ °F
Bit Size	8 3/4"	8 3/4"	
Spacing:			
T R ₁ R ₂	5468 To 13258	12500 To 14281	To
T R ₁ R ₂	To	To	To
Opr. Rig Time	7 1/2 HOURS	4 HOURS	
Truck No.	3501 CORTEZ	3529 GD. JCT.	
Recorded By	DANIELS	MONTGOMERY	
Witness	PRATT	PRATT	

~~185~~
T 25 S

~~24E~~
R 12 E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL # 1 COMPANY MC RAE OIL & GAS CORPORATION	COMPANY MC RAE OIL & GAS CORPORATION	Other Surveys ML
	WELL FEDERAL # 1	Location of Well
	FIELD WILDCAT	
	LOCATION SEC. 10 25S 18E C SW SW	Elevation: D.F.: 5255 K.B.: 5257 or G.L.: 5246
	COUNTY GRAND	FILING No. <i>57A 315</i>
STATE UTAH		

RUN No.	ONE				
Date	10-26-57				
First Reading	4191 37.4				
Last Reading	497				
Feet Measured	3694				
Csg. Schlum.	497				
Csg. Driller	494				
Depth Reached	4196				
Bottom Driller	4195				
Depth Datum	KB				
Mud Nat.	CHEM. GEL				
Dens. Visc.	10.1 75				
Mud Resist.	2.0 @ 60 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.88 @ 137 °F	@ °F	@ °F	@ °F	@ °F
Rmf	0.5 @ 137 °F	@ °F	@ °F	@ °F	@ °F
Rmc	0.88 @ 137 °F	@ °F	@ °F	@ °F	@ °F
" pH	12.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5.6 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	11"				
Spcgs.—AM	16"				
IND.	40"				
MN	27' 2"				
Opr. Rig Time	3 HRS				
Truck No.	1523 GJ				
Recorded By	MIXA				
Witness	MARSHALL				

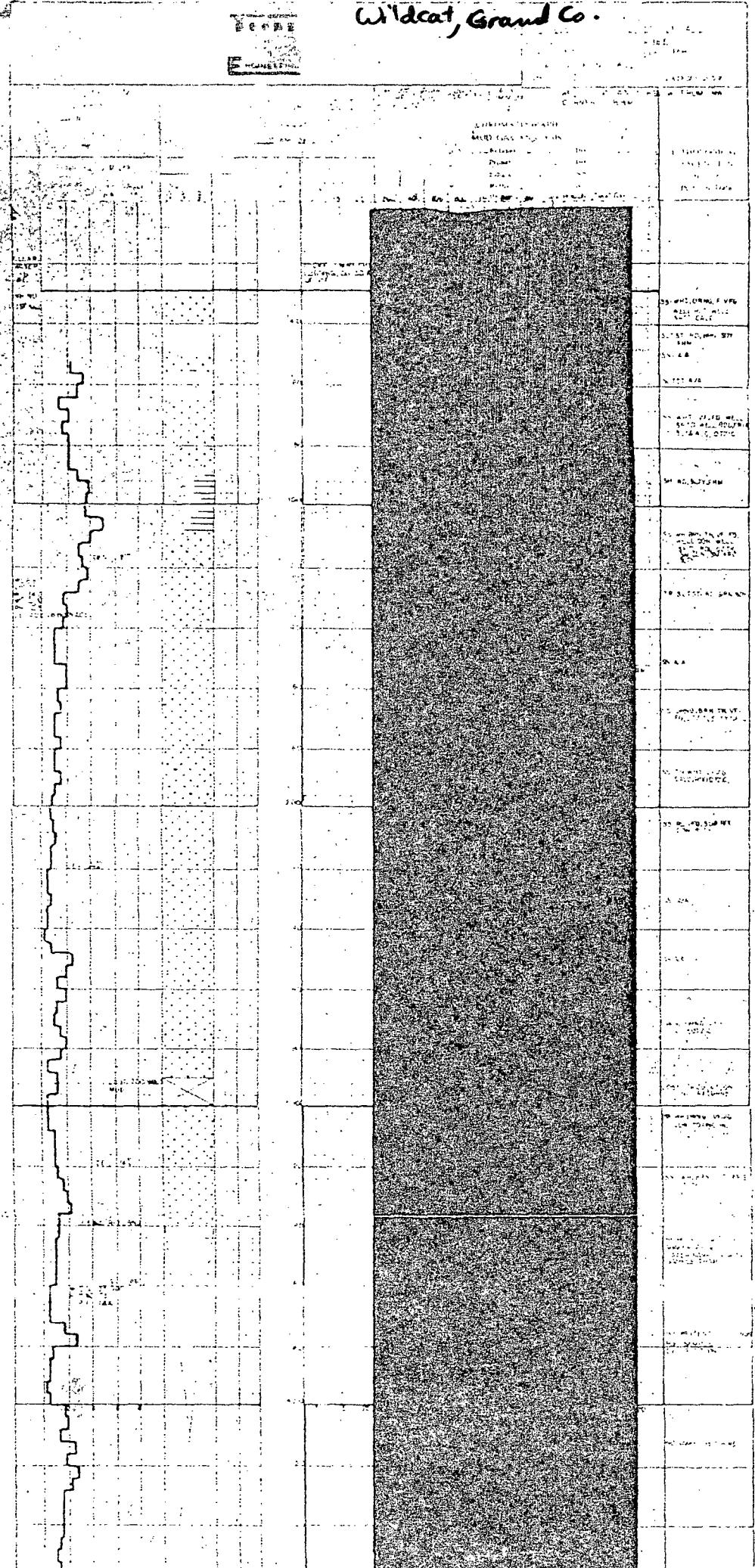
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S 20
T 255 R 8E

Shell Oil Fed #1-20
Wildcat, Grand Co.


SECTION
E

316



Dresser Atlas

Direct Induction Focused Log

FILE NO:	COMPANY SHELL OIL COMPANY		
FIELD PRINT	WELL FEDERAL 1-20		
57-1-2154 	FIELD WILDCAT		
	COUNTY GRAND		STATE UTAH
	LOCATION: <u>SWSENE</u> 1430' S. and 892' W. FROM N.E. CORNER OF SLBM SEC. 20 TWP. 25 S RGE 18 E		Other Services GR-BHC-AL 316
THANK'S	Permanent Datum G.L.	Elev. 5125	Elevations: KB 5142
	Log Measured from KB	17.0 Ft. Above Permanent Datum	DF -
	Drilling Measured from KB		GL 5125
Date	9-16-69		
Run No.	ONE		
Depth--Driller	2085		
Depth--Logger	2083		
Bottom Logged Interval	2081 30.7		
Top Logged Interval	31		
Casing--Driller	20" @ 29	@	@
Casing--Logger	31		
Bit Size	12 1/4"		
Type Fluid in Hole	WATER GEL		
Density and Viscosity	9.3 47		
pH and Fluid Loss	8.8 9.2 cc	cc	cc
Source of Sample	Pit		
Rm @ Meas. Temp.	3.84 @ 70 °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.55 @ 70 °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.90 @ 70 °F	@ °F	@ °F
Source of Rmf and Rmc	M M		
Rm @ BHT	3.41 @ 86 °F	@ °F	@ °F
Time Since Circ	-		
Max. Rec. Temp. Deg. F.	86 °F	°F	°F
Equip. No. and Location	1245 CASPER		
Recorded By	NEILL		
Witnessed By	Mr. MASON McLEHANEY		

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY S7-1-2154

FIELD or

LOCATION

WELL

COMPANY

COMPANY SHELL OIL COMPANY

WELL FEDERAL #1-20

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION
1430' FNL, 892' FEL
Sec. 20 Twp. 25-S Rge. 18E

Other Services:
DIL
SNP-GR
FDC-GR
316

Permanent Datum: GL, Elev. 5125
Log Measured From: KB, 17 Ft. Above Perm. Datum
Drilling Measured From: KB

Elev.: K.B. 5142
D.F. 5141
G.I. 5125

Date	<u>9-26-69</u>					
Run No.	<u>ONE</u>					
Depth—Driller	<u>4057</u>					
Depth—Logger	<u>4062</u>					
Btm. Log Interval	<u>4059</u>	<u>22.9</u>				
Top Log Interval	<u>2085</u>					
Casing—Driller	<u>9 5/8 @ 2085</u>	@	@	@		
Casing—Logger	<u>2085</u>					
Bit Size	<u>8 3/4</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>9.0</u>	<u>41</u>			
pH	Fluid Loss	<u>11.0</u>	<u>8.6 ml</u>	ml	ml	
Source of Sample	<u>FLOW LINE</u>					
R _m @ Meas. Temp.	<u>0.71 @ 79°F</u>	<u>0.55 @ 102°F</u>	@ °F	@	@	
R _{mf} @ Meas. Temp.	<u>0.64 @ 80°F</u>	<u>0.50 @ 102°F</u>	@ °F	@	@	
R _{mc} @ Meas. Temp.	<u>0.55 @ 102°F</u>	@ °F	@ °F	@	@	
Source: R _{mf}	R _{mc}	<u>M</u>	<u>C</u>			
R _m @ BHT	<u>0.55 @ 102°F</u>	@ °F	@ °F	@	@	
Time Since Circ.	<u>16 HRS</u>					
Max. Rec. Temp.	<u>102</u>	°F	°F	°F	°F	
Equip.	Location	<u>4542 FARM</u>				
Recorded By	<u>RUSEN & LEBSACK</u>					
Witnessed By	<u>MR. MCLELLANEY & MR. MASON</u>					

SCHLUMBERGER

**SIDEWALL
NEUTRON POROSITY LOG**

57-1-2154

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL FEDERAL #1-20

FIELD WILLOCAT

COUNTY GRAND STATE UTAH

Location: 1430 FNL + 892 FEL

Other Services:

14LL-3, GR
FOI-GR
BAC-GR-1
DOT

Sec. 20 Twp. 25 S Rge. 18 E

Permanent Datum: GL; Elev.: 5125
Log Measured From KB, 17 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 514
D.F. 514
G.L. 512

Date	<u>10-7-69</u>	<u>API-43-019-3007</u>
Run No.	<u>TWO</u>	
Type Log	<u>SNP-GR</u>	
Depth—Driller	<u>6564</u>	
Depth—Logger	<u>6562</u>	
Bottom logged interval	<u>6561</u> 18.1	
Top logged interval	<u>3500</u>	
Type fluid in hole	<u>SALT - SAT.</u>	
Salinity, PPM-Cl.	<u>130,000</u>	
Density	<u>10.5</u>	
Level	<u>FULL</u>	
Max rec. temp., deg F.	<u>116 OF AT 1300 HOURS</u>	
Operating rig time	<u>4 HRS</u>	
Recorded by	<u>RUSEV & LEBACK</u>	
Witnessed by	<u>MCLEHANEY & MASON</u>	

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
<u>2</u>	<u>8 3/4</u>	<u>2085</u>	<u>6564</u>	<u>9 5/8</u>	<u>-</u>	<u>SURF</u>	<u>2085</u>

316

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY **57-1-2154**
FIELD or LOCATION
WELL
COMPANY

COMPANY **SHELL OIL COMPANY**
WELL **FEDERAL # 1-20**
FIELD **WILDCAT**
COUNTY **GRAND** STATE **UTAH**

LOCATION
1430' FNL, 892' FEL
Sec. **20** Twp. **25S** Rge. **18E**

Other Services:
L-GR
SNP-GR
FDC-GR
PDT, SRS

Permanent Datum: **GL**, Elev. **5125**
Log Measured From **KB**, Ft. Above Perm. Datum
Drilling Measured From **KB**

Elev.: K.B. **5143**
D.F. **5142**
G.L. **5125**

316

Date	10-25-69	API No.	43-315-30043		
Run No.	TWO				
Depth—Driller	7856				
Depth—Logger	7852				
Btm. Log Interval	7850 <small>16.0</small>				
Top Log Interval	6560				
Casing—Driller	7" @6563				
Casing—Logger	6560				
Bit Size	6 1/8"				
Type Fluid in Hole	SALT BASE				
Dens.	105	Visc.	36		
pH	6.4	Fluid Loss	6.0 ml		
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	.058 @ 69 °F				
R _{mf} @ Meas. Temp.	.044 @ 75 °F				
R _{mc} @ Meas. Temp.	.055 @ 75 °F				
Source: R _{mf} R _{mc}	M M				
R _m @ BHT	.634 @ 120 °F				
Time Since Circ.	12 HRS				
Max. Rec. Temp.	120 °F				
Equip. Location	3860 FARM				
Recorded By	WELLS				
Witnessed By	MCLEHANEY				

FIELD PRINT

The well name, location and borehole reference data were furnished by the customer.

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READ & STEVENS, Inc. Shenandoan Bowknot Utah Grand

LOCATION 1970 fnl & 1060 fwl Sec. 21 Twp. 25 S. Rge. 18 E.

D. B. 6915 Bottom Hole Formation Paradox salt

Logged By: B. F. Latch

Mud Logger: Western Well Log

Spud Cpl. 8-23-73

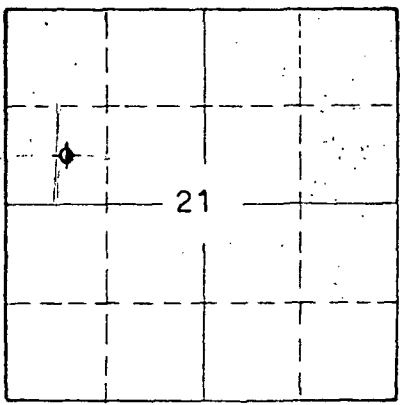
Production D & A

Samples 10' to TD

Casing 13-3/8 @ 309 w

8-5/8 @ 2790 w

5-1/2 @ 6915 w



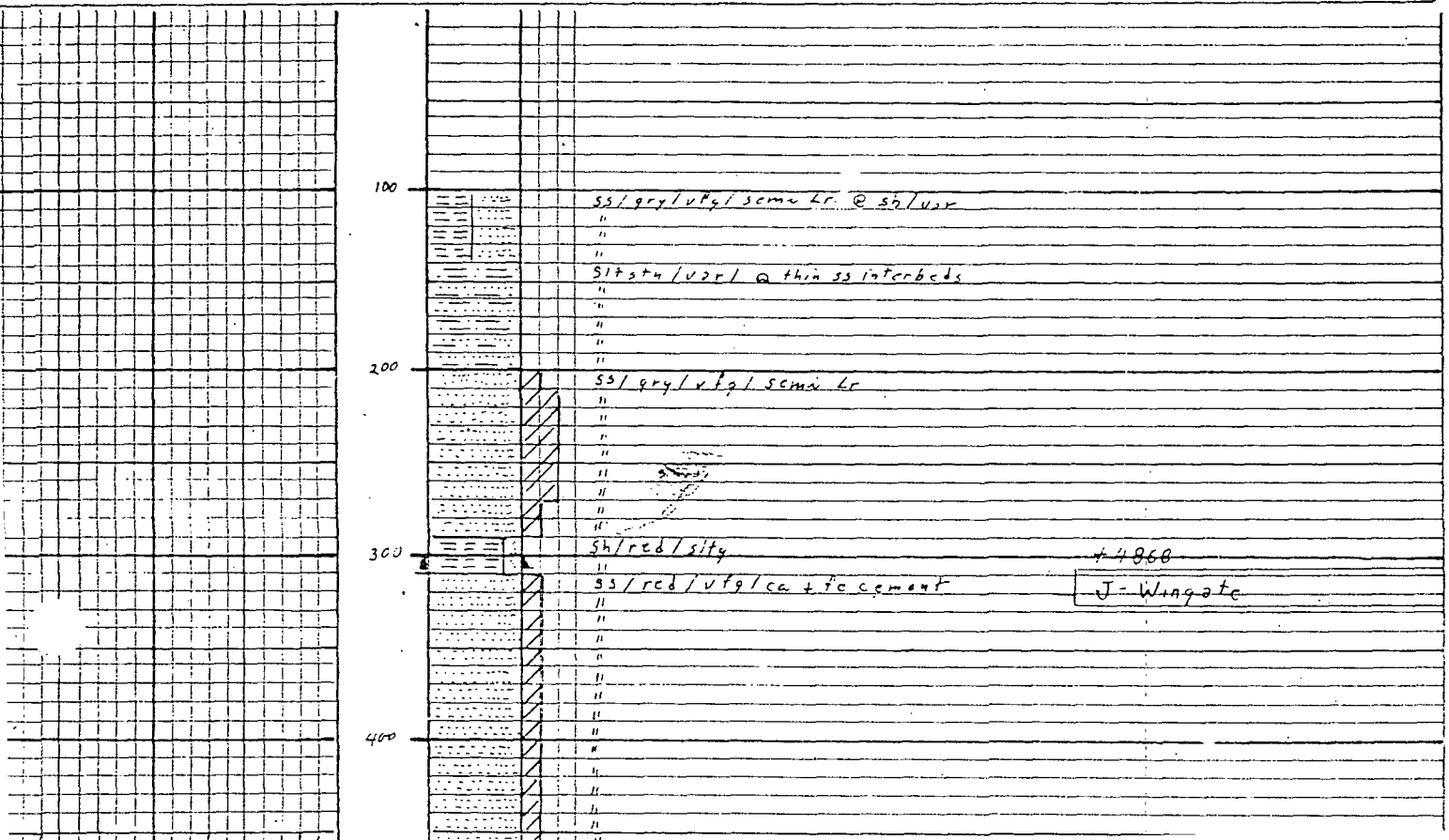
elev. - RB 5178

DP

DL 5161

C SW NW

-L&N-





COMPENSATED DENSITY POROSITY
AND NEUTRON POROSITY LOG

COMPANY READ & STEVENS INCORPORATED WELL SHENANDOAH- BOWKNOT # 1 FIELD WILDCAT County GRAND State UTAH	COMPANY	READ AND STEVENS, INCORPORATED
	WELL	SHENANDOAH-BOWKNOT # 1
	FIELD	WILDCAT
	COUNTY	GRAND STATE UTAH
Location		Other Services: COMP. DENSITY 317
Sec.	21 Twp 25S Rge 18E	

Permanent Datum	GROUND LEVEL	Elev.	5161'	Elev.:	K.B. 5178'
Log Measured From	KELLY BUSHING 17	Ft. Above Perm. Datum			D.F. 5177'
Drilling Measured From	KELLY BUSHING				G.L. 5161'

Date	8-22-73			
Run No.	GAMMA-GAMMA	NEUTRON		
Depth-Driller	6915'			
Depth-Welex	6913'			
Btm. Log Inter.	6912'	25.6		
Top Log Inter.	0'			
Casing-Driller	13-7/8" 290'	8-5/8" 2790'	@	@
Casing-Welex	2792'			
Bit Size	7-7/8"			
Type Fluid in Hole	SALT BASE MUD			
Dens. Visc.	10.6 36			
pH Fluid Loss	ml	ml	ml	ml
Source of Sample	PIT.			
R _{int} @ Meas.Temp.	.07 @ 84°F	@ °F	@ °F	@ °F
R _{int} @ Meas.Temp.	.06 @ 86°F	@ °F	@ °F	@ °F
R _{int} @ Meas.Temp.	.095 @ 84°F	@ °F	@ °F	@ °F
Source R _{int} R _{int}	FILTER PRESS			
R _{int} @ BHT	.04 @ 148F	@ °F	@ °F	@ °F
Time Since Circ.	7 HOURS			
Max. Rec. Temp.	148°F @ TD	°F @	°F @	°F @
Equip. Location	7757 FARMINGTON			
Recorded By	LEEPER			
Witnessed By	MR. LATCH			

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY FIELD or LOCATION WELL COMPANY	COUNTY <u>Grand</u> STATE <u>Utah</u>		
	COMPANY <u>Shell Oil Company</u>		
	WELL <u>Federal 1-21</u>		
	FIELD <u>Wildcat</u>		
LOCATION <u>1978' S, 735' E Fr. N.W. Cor.</u>		Other Services: DIL FDC CST 318	
S.L.B.M. <u>SW NW</u>			
Sec. <u>21</u> Twp. <u>25S</u> Rge. <u>18E</u>			
Permanent Datum: <u>G.L.</u> , Elev. <u>5152</u>		Elev.: K.B. <u>5170.3</u>	
Log Measured From <u>D.F.</u> , <u>18.3</u> Ft. Above Perm. Datum		D.F. <u>5169.8</u>	
Drilling Measured From <u>D.F.</u>		G.L. <u>5152</u>	
Date	<u>6-26-69</u>		
Run No.	<u>1</u>		
Depth—Driller	<u>4081</u>		
Depth—Logger	<u>4081</u>		
Btm. Log Interval	<u>40 78 228</u>		
Top Log Interval	<u>848</u>		
Casing—Driller	<u>10 3/4 @ 847</u>	@	@
Casing—Logger	<u>848</u>		
Bit Size	<u>8 3/4</u>		
Type Fluid in Hole	<u>EGM</u>		
Dens.	Visc.	<u>8.95</u>	<u>44</u>
pH	Fluid Loss	<u>8.5</u>	<u>6.8 ml</u>
Source of Sample	<u>Circ</u>		
R _m @ Meas. Temp.	<u>1.43 @ 76 °F</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>1.17 @ 65 °F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>1.62 @ 71 °F</u>	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M M</u>		
R _m @ BHT	<u>1.1 @ 102 °F</u>	@ °F	@ °F
Time Since Circ.	<u>7hr</u>		
Max. Rec. Temp.	<u>102 °F</u>		
Equip. Location	<u>4529</u>	<u>Vernal</u>	
Recorded By	<u>B. Thomas</u>		
Witnessed By	<u>D. McLehane & Mason</u>		



COMPENSATED

Densilog

S7-1-2159	FILE NO.	COMPANY SHELL OIL COMPANY	
		WELL FEDERAL 1-21	
		FIELD WILLOCAT	
		COUNTY GRAND	STATE UTAH
	LOCATION:	1978' S E 735' E from NW CORNER	Other Service LL BHC-A/L-C SWN-GR D. plot 318
	SEC <u>21</u>	TWP <u>25 S</u>	RGE <u>18 S/62</u>
Permanent Datum	<u>G. L.</u>	Elev. <u>5152</u>	Elevations: KB <u>5170.3</u>
Log Measured from	<u>KB or</u>	<u>18.3 Ft. Above Permanent Datum</u>	DF <u>5169.8</u>
Drilling Measured from	<u>KB</u>		GL <u>5152</u>
Date	<u>7-10-69</u>		
Run No.	<u>one</u>		
Depth—Driller	<u>4919</u>		
Depth—Logger	<u>4919</u>		
Bottom Logged Interval	<u>4919 - 293</u>		
Top Logged Interval	<u>0</u>		
Casing—Driller	<u>10 3/4 @ 847</u>	@	@
Casing—Logger	<u>846</u>		
Bit Size	<u>8 3/4</u>		
Type Fluid in Hole	<u>SALT SAT</u>		
Density and Viscosity	<u>11.2</u>	-	
pH and Fluid Loss	-	-	cc
Source of Sample	<u>P, T</u>		
Rm @ Meas. Temp.	<u>.06 @ 84 °F</u>	@	@
Rmf @ Meas. Temp.	<u>.013 @ 78 °F</u>	@	@
Rmc @ Meas. Temp.	<u>.10 @ 80 °F</u>	@	@
Source of Rmf and Rmc	<u>M M</u>		
Rm @ BHT	<u>.036 @ 130 °F</u>	@	@
Time Since Circ.	<u>5 hr.</u>		
Max. Rec. Temp. Deg. F.	<u>130</u>	°F	°F
Equip. No. and Location	<u>1245 C&S</u>		
Recorded By	<u>Wetter - Rall</u>		
Witnessed By	<u>Mr. McLehary</u>		

SCHLUMBERGER

**ROD-HOLE COMPENSATED
SONIC LOG - GAMMA RAY**

S7-1-2159

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Shell Oil Company

WELL Federal No. 1-21

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION 1978'S + 735'E
from NW corner

Sec. 21 Twp. 25 S Rge. 18E

Other Services:
L-GR
FDC-GR **318**
SNP-GR

Permanent Datum: GL, Elev. 5152
Log Measured From KD, 18 Ft. Above Perm. Datum
Drilling Measured From KD

Elev.: K.B. 5170
D.F. -
G.L. 5152

Date	<u>7-20-69</u>					
Run No.	<u>On 1</u>					
Depth—Driller	<u>6780</u>					
Depth—Logger	<u>6776</u>					
Btm. Log Interval	<u>6775</u> ft.					
Top Log Interval	<u>4825</u>					
Casing—Driller	<u>7</u>	@	<u>4832</u>	@	@	@
Casing—Logger	<u>4825</u>					
Bit Size	<u>6 1/4</u>					
Type Fluid in Hole	<u>SBM</u>					
Dens.	Visc.	<u>16</u>	<u>48</u>			
pH	Fluid Loss	<u>7.0</u>	<u>8.8</u> ml	ml	ml	ml
Source of Sample	<u>Flow Line</u>					
R _m @ Meas. Temp.	<u>0.063</u>	@	<u>79</u> °F	@	°F	@
R _{mf} @ Meas. Temp.	<u>0.034</u>	@	<u>79</u> °F	@	°F	@
R _{mc} @ Meas. Temp.	<u>0.156</u>	@	<u>79</u> °F	@	°F	@
Source: R _{mf}	R _{mc}	<u>M</u>	<u>M</u>			
R _m @ BHT	@	°F	@	°F	@	°F
Time Since Circ.	<u>10 HR</u>					
Max. Rec. Temp.	<u>122</u> °F			°F	°F	°F
Equip.	Location	<u>4529 Vernal</u>				
Recorded By	<u>Godfrey</u>					
Witnessed By	<u>Mason - McLehane</u>					

SCHLUMBERGER

SIMULTANEOUS

LATEROLOG-GAMMA RAY-NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

S7-1-2159

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Shell Oil Company

WELL Federal No. 1-21

FIELD Wildcat

COUNTY Grand STATE Utah

Location: 1978 S + 735 E
from NW corner
Sec. 21 Twp. 25S Rge. 18E

Other Services:
BNP-GR FDT
FOC-GR CIS
DHC-GR
CST S 318

Permanent Datum: GL; Elev.: 5152
Log Measured From KB, 18 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5170
D.F. -
G.I. 5152

Date	<u>7-28-69</u>	API #	<u>43-019-90038</u>		
Run No.	<u>4</u>				
Depth - Driller	<u>6876</u>				
Depth - Schlum.	<u>6865</u>				
Btm. Log. Interval	<u>6860</u> to	<u>5400</u>			
Top Log. Interval	<u>6600</u>	<u>5200</u>			
Casing - Driller	<u>7 @ 4832</u>	@	@	@	@
Casing - Schlum.	<u>4826</u>				
Bit Size	<u>6 1/4</u>				
Type Fluid in Hole	<u>GBM</u>				
Dens.	<u>16</u>	<u>48</u>			
Visc.					
pH	<u>7.0</u>	<u>4.4</u>	CC	CC	CC
Fluid Loss					
Source of Sample	<u>Flow line</u>				
Rm @ Meas. Temp.	<u>0.023 @ 95 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	<u>0.042 @ 95 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	<u>0.013 @ 95 °F</u>	@ °F	@ °F	@ °F	@ °F
Source: Rmf	<u>M</u>				
Rmc	<u>C</u>				
Rm @ B. H. T.	<u>.060 @ 115 °F</u>	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	<u>4 hr</u>				
Max. Rec. Temp.	<u>115 °F</u>	°F	°F	°F	°F
Equip.	<u>4544</u>	<u>Vernal</u>			
Location					
Recorded By	<u>Godfrey</u>				

THIS HEADING AND LOG CONFORM TO API RECOMMENDED STANDARD PRACTICE RP - 31

FOLD HERE

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

57-1-2161

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL QUINTANA 1-35

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION NE 1/4
1814'E & 1603'N of SW CORNER
Sec. 35 Twp. 25S Rge. 18E

Other Services:

DIL 319

Permanent Datum: GL, Elev. 5471
Log Measured From KB, 16 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5487
D.F. G. 5471

Date	<u>11-11-69</u>	<u>API-43-019-30045</u>		
Run No.	<u>ONE</u>			
Depth—Driller	<u>2375</u>			
Depth—Logger	<u>2376</u>			
Btm. Log Interval	<u>2375</u> ^{26.1}			
Top Log Interval				
Casing—Driller	<u>20" @ 25</u>	@	@	@
Casing—Logger				
Bit Size	<u>12 1/4</u>			
Type Fluid in Hole	<u>GEL-WATER</u>			
Dens.	<u>9</u>	<u>40</u>		
pH	<u>8</u>	<u>12.6 ml</u>	ml	ml
Source of Sample	<u>MUD PIT</u>			
R _m @ Meas. Temp.	<u>8.57 @ 67</u> °F	@	°F	@ °F
R _{mf} @ Meas. Temp.	<u>8.54 @ 67</u> °F	@	°F	@ °F
R _{mc} @ Meas. Temp.	<u>8.20 @ 63</u> °F	@	°F	@ °F
Source: R _{mf} R _{mc}	<u>M M</u>			
R _m @ BHT	<u>10.8 @ 85</u> °F	@	°F	@ °F
Time Since Circ.	<u>3 1/2 HRS</u>			
Max. Rec. Temp.	°F	°F	°F	°F
Equip. Location	<u>5625 FARM</u>			
Recorded By	<u>WELLS</u>			
Witnessed By	<u>MCLEHANEY</u>			

FIELD
DIP

SCHLUMBERGER

BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY

S7-1-2161

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL QUINTANA 1-35

FIELD WILCOT

COUNTY GRAND STATE UTAH

LOCATION 1814'E & 1603'N 04SW

Sec. 35 Twp. 25 S Rge. 18 E

Other Services:
OIL 319
FOC-6P
SAP-6R

Permanent Datum: 6 L, Elev. 5471
Log Measured From KB 17 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5488
D.F. _____
G.L. 5471

Date		<u>11-20-69</u>	<u>ARI-43-019-</u>
Run No.		<u>TWO</u>	<u>30045</u>
Depth—Driller		<u>4209</u>	
Depth—Logger		<u>4210</u>	
Btm. Log Interval		<u>4209 22.5</u>	
Top Log Interval		<u>2375</u>	
Casing—Driller	@	<u>95/8 @ 2375</u>	@
Casing—Logger		<u>2375</u>	
Bit Size		<u>8 3/4</u>	
Type Fluid in Hole		<u>F.G.M.</u>	
Dens.	Visc.	<u>9.2</u>	<u>39</u>
pH	Fluid Loss	ml <u>9.0</u>	ml <u>6.0</u> ml
Source of Sample		<u>CIRC.</u>	
R _m @ Meas. Temp.	@ °F	<u>1.37 @ 69 °F</u>	@ °F
R _{mf} @ Meas. Temp.	@ °F	<u>1.26 @ 69 °F</u>	<u>0.95 @ 103 °F</u>
R _{mc} @ Meas. Temp.	@ °F	<u>0.90 @ 103 °F</u>	@ °F
Source: R _{mf} R _{mc}		<u>M C</u>	
R _m @ BHT	@ °F	<u>0.93 @ 103 °F</u>	@ °F
Time Since Circ.		<u>12 HRS</u>	
Max. Rec. Temp.	°F	<u>103 °F</u>	°F
Equip. Location		<u>5625 FARM</u>	
Recorded By		<u>RUSEN</u>	
Witnessed By		<u>DOGAN</u>	

SCHLUMBERGER

UNLOGGED COMPENSATED
STANDARD LOG - GAMMA RAY

S7-1-2161

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY SHELL OIL COMPANY

WELL QUINTANA 1-35

FIELD WILLOCAT

COUNTY GRAND STATE UTAH

LOCATION 1814'E + 1603'N of SW

Sec. 35 Twp. 25 S Rge. 18 E

Other Services:

LL-3-6A
SAP-6A
FDC-6A

319

Permanent Datum: GL, Elev. 5471
Log Measured From KB, 17 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5488
D.F. 5487
G.L. 5471

Date	<u>12-6-69</u>	<u>API-43-019-</u>		
Run No.	<u>3</u>	<u>30045</u>		
Depth—Driller	<u>8140</u>			
Depth—Logger	<u>8129</u>			
Btm. Log Interval	<u>8126</u> ^{16.6}			
Top Log Interval	<u>4000</u>			
Casing—Driller	<u>9 5/8 @ 2375</u>	@	@	@
Casing—Logger	<u>2375</u>			
Bit Size	<u>8 3/4</u>			
Type Fluid in Hole	<u>SALT MUD</u>			
Dens.	<u>10.4</u>	<u>39</u>		
pH	<u>6.0</u>	<u>9.8</u> ml	ml	ml
Source of Sample	<u>CIRC.</u>			
R _m @ Meas. Temp.	<u>.06 @ 60 °F</u>	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>.05 @ 59 °F</u>	<u>.024 @ 125 °F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>.03 @ 125 °F</u>	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M C</u>			
R _m @ BHT	<u>.028 @ 125 °F</u>	@ °F	@ °F	@ °F
Time Since Circ.	<u>12 HRS</u>			
Max. Rec. Temp.	<u>125 °F</u>	°F	°F	°F
Equip. Location	<u>5625 FARM</u>			
Recorded By	<u>RV SEN</u>			
Witnessed By	<u>DOGAN</u>			

~~165 22E~~

25S

19-23E

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BIG ROCK NO. 1 COMPANY GENERAL CRUDE OIL	COMPANY <u>GENERAL CRUDE OIL COMPANY</u>	
	WELL <u>BIG ROCK NO. 1</u>	
	FIELD <u>WILDCAT</u>	
	COUNTY <u>GRAND</u>	STATE <u>UTAH</u>
LOCATION <u>820' FNL & 615' FEL</u> <i>NE NE 1/4</i>		Other Services: HDT 320
Sec. <u>26</u>	Twp. <u>25 S</u>	Rge. <u>19 E</u>

Permanent Datum: <u>GL</u> , Elev. <u>5436</u>	Elev.: K.B. <u>5454</u>
Log Measured From <u>KB</u> , <u>18</u> Ft. Above Perm. Datum	<i>h.k.</i> D.F. <u>5453</u>
Drilling Measured From <u>KB</u>	G.L. <u>5436</u>

Date	2-25-70					
Run No.	TWO					
Depth—Driller	8875					
Depth—Logger	8870					
Btm. Log Interval	8867 - 19.3					
Top Log Interval	4459					
Casing—Driller	13 3/8 @	4462	@	@	@	@
Casing—Logger	4459					
Bit Size	8 3/4					
Type Fluid in Hole	SALT BASE MUD					
Dens.	Visc.	10.9	48			
pH	Fluid Loss	6.0	13.6 ml	ml	ml	ml
Source of Sample	FLOWLINE					
R _m @ Meas. Temp.	0.52 @ 68 °F	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.45 @ 67 °F	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M C					
R _m @ BHT	0.26 @ 145 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	5 HOURS					
Max. Rec. Temp.	145 °F	°F	°F	°F	°F	°F
Equip. Location	5616	VERNAL				
Recorded By	DAHLE & THOMAS					
Witnessed By	MR. SMITH & LEAGUE					

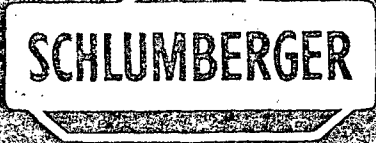
Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY GRAND	FIELD WILDCAT	LOCATION FED 27 25 19 1	WELL	COMPANY SUPRON ENERGY	COMPANY SUPRON ENERGY CORP # ¹ 7 HUSKY JUG
					ROCK UNIT
					WELL FEDERAL 27 25 1 19 ^{27-25-19 #1}
					FIELD WILDCAT
					COUNTY GRAND STATE UTAH
LOCATION	API SERIAL NO. SEC. TWP RANGE			Other Services:	
	27	25S	19E	DLL/GR FBC, CNL/GR HDT TAPING 321	

Permanent Datum: <u>G.I.</u> ; Elev.: <u>5752</u>	Elev.: K.B. <u>5767</u>
Log Measured From <u>K.B.</u> <u>15</u> Ft. Above Perm. Datum	D.F. _____
Drilling Measured From <u>K.B.</u>	G.I. <u>5752</u>

Date	12/7/77			
Run No.	ONE			
Depth-Driller	7725			
Depth-Logger (Schl.)	7727			
Btm. Log Interval	7724' 15.1'			
Top Log Interval	4079			
Casing-Driller	9 5/8 @ 4076	@	@	@
Casing-Logger	4079			
Bit Size	8 3/4			
Type Fluid in Hole	SALT SAT			
Dens.	10.6	39		
Visc.				
pH	7.0	8.4ml	ml	ml
Fluid Loss				
Source of Sample	MUD TANK			
Rm @ Meas. Temp.	.08 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.044 @ 74 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.12 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf	M			
Rmc	C			
Rm @ BHT	.05 @ 115 °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	0700		
	Logger on Bottom	1830		
Max. Rec. Temp.	115 °F	°F	°F	°F
Equip.	Location	5619 G.J.		
Recorded By	BRATTON			
Witnessed By Mr.	PERKINS			



GAMMA RAY - NEUTRO
 SCHLUMBERGER WELL SURVEYING CORPORATION
 Houston, Texas

COUNTY GRAND, UTAH
 FIELD or LOCATION BIG FLAT
 WELL BIG FLAT UNIT #5
 COMPANY THE PURE OIL COMPANY

COMPANY THE PURE OIL COMPANY
 WELL BIG FLAT UNIT #5
 FIELD BIG FLAT
 COUNTY GRAND STATE UTAH

Location: C NW SE
 Sec. 27 Twp. 25S Rge. 19E
 Other Ser 322
 CBL-P

Permanent Datum: GL; Elev.: 5757
 Log Measured From KB, 10 Ft. Above Perm. Datum
 Drilling Measured From KB
 Elev.: K.B.
 D.F.
 G.L.

Date	11-18-61	12-2-61
Run No.	ONE	TWO
Type Log	GRN	GRN
Depth—Driller	6655	7239
Depth—Logger	6655	7239
Bottom logged interval	6654 21.9	7238 22.4
Top logged interval	12	6654
Type fluid in hole	SALT BASE GEL	SALT MUD
Salinity, PPM Cl.	93.000	-
Density	10.0	16
Level	FULL	FULL
Max rec. temp., deg F.	131	140
Operating rig time	4 HOURS	2 HOURS
Recorded by	MONTGOMERY	CHAMBLISS
Witnessed by	MR. MERRELL	MR. MERRELL

RUN No.	BORE-HOLE RECORD			CASING RECORD		
	Bit	From	To	Size	Wgt.	From
1	13 3/4	478	4610	10 3/4	-	SURF.
1	9 5/8	4610	6655	16"		SURF.
2	9 5/8	4610	7239	7 5/8	29.7	SURF.

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION BIG FLAT WELL BIG FLAT UNIT #5 COMPANY PURE OIL COMPANY	COMPANY	THE PURE OIL COMPANY	Other Surveys IES, GRN
	WELL	BIG FLAT UNIT #5	
	FIELD	BIG FLAT	
	LOCATION	SEC. 27-25S-19E C NW SE	
	COUNTY	GRAND	
	STATE	UTAH	

Log Depths Measured From KB 10 Ft. above GL

RUN No.	ONE		
Date	7-8-62		
First Reading	7629	16.7	
Last Reading	7444		
Feet Measured	185		
Csg. Schlum.	7441		
Csg. Driller	7441		
Depth Reached	7634		
Bottom Driller	7632		
Mud Nat.	CHEM. GEL		
Dens. Visc.	8.4 48		
Mud Resist.	.489 @ 92 °F	@ °F	@ °F
" Res. BHT	.38 @ 121 °F	@ °F	@ °F
" pH	11 @ °F	@ °F	@ °F
" Wtr. Loss	6.2 CC 30 min	CC 30 min	CC 30 min
" Rmf	.354 @ 87 °F	@ °F	@ °F
Bit Size	4 5/8"		
Spacing:			
T ₃ R ₁ R ₂	7633 To 7444	To	To
T R ₁ R ₂	To	To	To
Opr. Rig Time	1 HOUR		
Truck No.	3501 CORTEZ		
Recorded By	CLAYTON		
Witness	MR. MERRELL		

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SONIC LOG - GAMMA RAY

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY	FIELD OF LOCATION WELL	COMPANY	COMPANY <u>GOLD BAR RESOURCES</u>	
			WELL <u>CASTLE VALLEY UNIT #1</u>	
			FIELD <u>WILDCAT</u>	
			COUNTY <u>GRAND</u> STATE <u>UTAH</u>	
LOCATION <u>NE NE</u>			Other Services: <u>NONE</u> 323	
Sec. <u>16</u> Twp. <u>25S</u> Rge. <u>23E</u>				

Permanent Datum: <u>GL</u> , Elev. <u>5112</u>	Elev.: K.B. <u>5122</u>
Log Measured From <u>KB, 10</u> Ft. Above Perm. Datum	D.F. _____
Drilling Measured From <u>KB</u>	G.I. <u>5112</u>

Date	<u>5-18-65</u>				
Run No.	<u>ONE</u>				
Depth—Driller	<u>6500</u>				
Depth—Logger	<u>6497</u>				
Btm. Log Interval	<u>6493</u>	<u>159</u>			
Top Log Interval	<u>2200</u>				
Casing—Driller	<u>7" @ 2520</u>	@	@	@	@
Casing—Logger	<u>2500</u>				
Bit Size	<u>6 7/8"</u>				
Type Fluid in Hole	<u>1NO OIL EMUL</u>				
	<u>6090 OIL 4090 WATER</u>				
Dens.	<u>8.7</u>	Visc.	<u>47</u>		
pH		Fluid Loss	<u>—</u>	ml	ml
Source of Sample	<u>—</u>				
R _m @ Meas. Temp.	<u>∞</u>	@	°F	@	°F
R _{mf} @ Meas. Temp.	@	°F	@	°F	@
R _{mc} @ Meas. Temp.	@	°F	@	°F	@
Source: R _{mf} R _{mc}					
R _m @ BHT	@	°F	@	°F	@
Time Since Circ.	<u>4HR</u>				
Max. Rec. Temp.	<u>118</u>	°F	°F	°F	°F
Equip. Location	<u>3501</u>	<u>CORTER</u>			
Recorded By	<u>KIMBALL</u>				
Witnessed By	<u>MAYNEU</u>				

Schlumberger

**BOREHOLE COMPENSATED
SONIC LOG**

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL NO. 1-4 MINERAL POINT COMPANY JACK GRYNBERG	COMPANY <u>JACK GRYNBERG AND ASSOCIATES</u>
	WELL <u>FEDERAL NO. 1-4 MINERAL POINT</u>
	FIELD <u>WILDCAT</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
LOCATION: <u>778' FSL, 1862' FEL</u> API Serial No. <u>02959</u> 5 8	Other Services: <u>1-GR</u> <u>DLL 324</u>
Sec. <u>4</u> Twp. <u>26S</u> Rge. <u>18E</u>	

Permanent Datum: <u>GL</u> ; Elev.: <u>5291</u>	Elev.: K.B. <u>5302</u>
Log Measured From <u>KB</u> , <u>11</u> Ft. Above Perm. Datum	D.F. <u>5301</u>
Drilling Measured From <u>KB</u>	G.L. <u>5291</u>

Date	<u>3-28-74</u>				
Run No.	<u>ONE</u>				
Depth-Driller	<u>7695</u>				
Depth-Logger	<u>7693</u>				
Btm. Log Interval	<u>7691</u> <u>14.9</u>				
Top Log Interval	<u>3200</u>				
Casing-Driller	<u>7 @ 4100</u>	@	@	@	@
Casing-Logger	<u>4096</u>				
Bit Size	<u>6-1/8</u>				
Type Fluid in Hole	<u>SAT. NACL</u>				
Dens.	<u>----</u>				
Visc.	<u>--</u>				
pH	<u>----</u>				
Fluid Loss	<u>-- ml</u>	ml	ml	ml	ml
Source of Sample	<u>PIT.</u>				
R _m @ Meas. Temp.	<u>.055 @ 76 °F</u>	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>.044 @ 76 °F</u>	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>---- @ -- °F</u>	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M --</u>				
R _m @ BHT	<u>.037 @ 114 °F</u>	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped <u>7-1/2 HRS.</u>				
Max. Rec. Temp.	<u>114 °F</u>	°F	°F	°F	°F
Equip. Location	<u>5602 G. J.</u>				
Recorded By	<u>BARGHOUTI-SCHNORR</u>				
Witnessed By	<u>CLUTTER</u>				

SCHLEMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Laterolog

COUNTY GRAND FIELD or LOCATION WILDCAT WELL U.S.A. MINERAL POINT #1 COMPANY PURE OIL COMPANY	COMPANY PURE OIL COMPANY	Other Surveys MLL
	WELL U.S.A. MINERAL	Location of Well
	POINT #1	
	FIELD WILDCAT	
	LOCATION 7-26S-18E <i>SWNW</i>	
	1820' / S 660' / E	325
	COUNTY GRAND	Elevation: K.B.: 5072
	STATE UTAH	D.F.: ---- or G.L.: ----

Log Depths Measured From KB Ft. above

RUN No.	ONE		
Date	11-20-58		
First Reading	7282	24.5	
Last Reading	4172		
Feet Measured	3110		
Csg. Schlum.	4472		
Csg. Driller	4170		
Depth Reached	7286		
Bottom Driller	7282		
Mud Nat.	SATURATED SALT		
Dens.	10.7	45	
Mud Resist.	0.1 @ 58 °F	@ °F	@ °F
" Res. BHT	.042 @ 149 °F	@ °F	@ °F
" pH	6.0 @ °F	@ °F	@ °F
" Wtr. Loss	8.2 CC 30 min	CC 30 min	CC 30 min
" Rmf	.065 @ 65 °F	@ °F	@ °F
" Rmc	.12 @ 65 °F	@ °F	@ °F
Bit Size	6 3/4"		
Laterolog 3	a= ;l=	a= ;l=	a= ;l=
Laterolog 7	a= 16" ;n=	a= ;n=	a= ;n=
Opr. Rig Time	4 HOURS		
Truck No.	1523 G.I		
Recorded By	COVEY		
Witness	MR. MERRELL		

~~T26S 19E~~

T26S 19E

Schlumberger

**BOREHOLE COMPEN
SONIC LOG**

COUNTY GRAND FIELD BIG FLAT LOCATION 660' FSL 660' FWL WELL USA SUNBURST #1 COMPANY ENERGY RESERVES	COMPANY ENERGY RESERVES	
	WELL	USA SUNBURST #1 326
	FIELD	BIG FLAT
	COUNTY	GRAND STATE UTAH
	LOCATION	SW SW 1/4 660' FSL 660' FWL
API SERIAL NO.	SEC. 14 TWP 26S RANGE 19E	Other S FDC- HDT DIL

Permanent Datum: GL; Elev.: 6109
 Log Measured From KB 20 Ft. Above Perm. Datum
 Drilling Measured From KB

Date	7-11-77	8-11-77	8-16-77
Run No.	ONE	TWO	THREE
Depth-Driller	4452	8110	8262
Depth-Logger (Schl.)	4451	8102	8253
Btm. Log Interval	4436 21.8	8105 16.4	8242 17.5
Top Log Interval	385	4446	7450
Casing-Driller	13 3/8 @ 388	9 5/8 @ 4452	9 5/8 @ 4452
Casing-Logger	385	4446	--
Bit Size	12 1/4	8 3/4	8 3/4
Type Fluid in Hole	GELCHEMLCM	SALT SAT	SALT GEL
Dens.	9.1	50	11.6
Visc.			49
pH	10.5	6.5	6
Fluid Loss	-- ml	6.2 ml	5.2 ml
Source of Sample	FLOWLINE	MUD TANK	MUD TANK
Rm @ Meas. Temp.	2.56 @ 76°F	.187 @ 80°F	.558 @ 92°F
Rmf @ Meas. Temp.	.674 @ 76°F	.0518 @ 80°F	.47 @ 92°F
Rmc @ Meas. Temp.	-- @ --°F	-- @ --°F	-- @ --°F
Source: Rmf	CELL	CELL	M
Rmc	--	--	--
Rm @ BHT	1.9 @ 104°F	.13 @ 124°F	@ 130°F
TIME	Circulation Stopped	0430	1800
	Logger on Bottom	0830	0830
Max. Rec. Temp.	104°F	124°F	130°F
Equip.	7759	4111	7759
Location			G. J.
Recorded By	LAUDE/BRATTON		PØVICH
Witnessed By	Mr. WAKEFIELD/COLLIER	COLLIER	COLLIER

LANE WELLS TEMPERATURE



S. O. 9318

COMPANY: THE PURE OIL CO. WELL: BIG FLAT UNIT #1 FIELD: WILDCAT LOCATION: SEC: 14-26S-19E COUNTY: GRAND STATE: UTAH	COMPANY: THE PURE OIL CO. <i>Glen Ruby</i>	Well Location 327 14-26S-19E
	WELL: BIG FLAT UNIT #1	
	FIELD: WILDCAT	
	LOCATION: SEC: 14-26S-19E 660 F. S. L. 1980 F. E. L.	
	COUNTY: GRAND	STATE: UTAH
	LOG ZERO	ELEV.
	DRLG. ZERO	ELEV.
	PERM. DATUM	ELEV.

TYPE OF LOG	TEMPERATURE		
RUN NO.	1 NW		
DATE	7-31-57		
TOTAL DEPTH (DRILLER)	7954		
EFFECTIVE DEPTH (DRILLER)	7840		
TOP OF LOGGED INTERVAL	4500		
BOTTOM OF LOGGED INTERVAL	7777 11.5		
TYPE OF FLUID IN HOLE	MUD		
FLUID LEVEL	FULL		
MAXIMUM RECORDED TEMP.	100		
SOURCE STRENGTH & TYPE	-		
SOURCE SPACING — IN.	-		
LENGTH OF MEAS. DEVICE — IN.	2		
O.D. OF INSTRUMENT — IN.	1-3/4		
TIME CONSTANT — SECONDS	-		
LOGGING SPEED FT./MIN.	20		
STATISTICAL VARIATION — IN.	-		
SENSITIVITY REFERENCE	-		
RECORDED BY	STONE		
WITNESSED BY	CLINE		

WELL RECORD					
RUN	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	FROM LOG
				TO	TO
	7		23	SURFACE TO 7904	TO
				TO	TO
				TO	TO
				TO	TO

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



LATEROLOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BIG FLAT UNIT #1 COMPANY THE PURE OIL COMPANY	COMPANY	THE PURE OIL	Location of Well ML, CST <div style="text-align: center; font-size: 2em; font-weight: bold;">327</div> Elevation: D.F.: --- K.B.: 6033 or G.L.: 6021
	COMPANY		
	WELL	BIG FLAT UNIT #1	
	FIELD	WILDCAT	
	LOCATION	SEC. 14 26S 19E	
		C SW SE	
	COUNTY	GRAND	
	STATE	UTAH	FILING No. <i>CLF</i>

RUN No.	ONE		
Date	6-6-57		
First Reading	6371	17.5	
Last Reading	5643		
Feet Measured	728		
Csg. Schlum.	5643		
Csg. Driller	5634		
Depth Reached	6375		
Bottom Driller	6367		
Depth Datum	KB		
Mud Nat.	SALT		
" Density	14.2		
" Viscosity	86		
" Resist.	.09 @ 71°F	@	°F
" Res. BHT	.05 @ 112°F	@	°F
" pH	-- @ °F	@	°F
" Wtr. Loss	23 CC 30 min.	CC 30 min.	
Max. Temp. °F	112		
Bit Size	9"		
	AM 16"		
Opr. Rig Time	2 HRS		
Truck No.	1517 GJ		
Recorded By	BELL		
Witness By	GUSTAFSON		

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Sonic Log

COUNTY GRAND, UTAH FIELD or LOCATION BIG FLAT WELL BIG FLAT UNIT #4 COMPANY PURE OIL COMPANY	COMPANY PURE OIL COMPANY	Other Surveys
	WELL BIG FLAT UNIT #4?	Location of Well
	FIELD BIG FLAT MINE	
	LOCATION SEC. 23-26S-19E 2 1596 FEET - 330 IN	328
COUNTY GRAND	Elevation: K.B.: 6017	
STATE UTAH	D.F.: 6016	
	or G.L.: 6006	

Log Depths Measured From		KB	11 Ft. above G.L.
RUN No.	ONE SL-C	ONE GR	W.D.
Date	1-9-61		1-10-61
First Reading	5895 18.2	5872	6713 19.0
Last Reading	4225	100	5895
Feet Measured	1670	5772	918
Csg. Schlum.	225		
Csg. Driller	225		
Depth Reached	204		5021
Bottom Driller	205		5021
Mud Nat.	ALL SAT		
Dens.	10.2	10.2	10.2
Visc.	48		71
Mud Resist.	.0395 @ 83 °F	@ °F	.009 @ 77 °F
" Res. BHT	@ 110 °F	@ °F	.011 @ 121 °F
" pH	@ °F	@ °F	@ °F
" Wtr. Loss	1.5 CC 30 min	CC 30 min	2 CC 30 min
" Rmf	.037 @ 85 °F	@ °F	.013 @ 83 °F
Bit Size	3 7/8"		3 7/8"
Spacing:			
T ₁ R ₁ R ₂	D To CCG	To	To
T R ₁ R ₂	To	To	To
Opr. Rig Time	3 1/2 HOURS		
Truck No.	3501 COR 17		3501 COR 17
Recorded By	CLAYTON		CLAYTON
Witness	MR. RASMUSSEN		

265

20 E



WELEX

ACOUSTIC VELOCITY LOG

COMPANY Calvert Western
 Exploration
 WELL Big Flat # 7
 FIELD Wildcat
 County Grand State Utah

COMPANY CALVERT WESTERN EXPLORATION

WELL BIG FLAT # 7

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location SE/NW

Other Services:
 GR/Density,
 Ind. Cal.

Sec. 6 Twp 26-S Rge 20-E

329

Permanent Datum Ground Level Elev. 5846

Elev.: K.B. 5846

Log Measured From K B 12 Ft. Above Perm. Datum

D.F. _____

Drilling Measured From Kelly Bushing

G.I. 5834

Date	1-27-64					
Run No.	- One -					
Depth-Driller	7790					
Depth-Welex	7796					
Btm. Log Inter.	7792 18.7					
Top Log Inter.	4072					
Casing-Driller	7"	@		@	@	@
Casing-Welex	4072					
Bit Size	6-1/4"					
Type Fluid in Hole	Emulsified oil inverted mud					
Dens. Visc.	13.7	40				
pH Fluid Loss		ml		ml	ml	ml
Source of Sample	Circulated					
R _m @ Meas. Temp.	*	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.		@ °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.		@ °F	@ °F	@ °F	@ °F	@ °F
Source R _{mf} R _{mc}						
R _m @ BHT		@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	2 Hrs					
Max. Rec. Temp.	13 IF @ BH			°F @	°F @	°F @
Equip. Location	4000 Grand Jct.					
Recorded By	F. Sloup					
Witnessed By	Mr. Ken Luff					

Schlumberger

DUAL LATEROLOG

COUNTY GRAND FIELD or LOCATION LONG CANYON WELL NO. 8-44 SKYLINE FEDERAL COMPANY WLM, G. HELIS	COMPANY	ESTATE OF WILLIAM G. HELIS		
	WELL	NO 8-44 SKYLINE-FEDERAL		
	FIELD	LONG CANYON		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	SE SE 810' FSL & 657' FEL		
	Sec. 8	Twp. 26S	Rge. 20E	16
	Other Services:			GR-FDC-CNL
				330

Permanent Datum: G.L., Elev. 6003	Elev.: K.B. 6023
Log Measured From K.B. 20 Ft. Above Perm. Datum	D.F. -
Drilling Measured From K.B.	G.L. 6003

Date	3/13/76	4/35/76		
Run No.	ONE	TWO		
Depth - Driller	3815	8076		
Depth - Logger	3825	8082		
Btm. Log Interval	3811 13.9	8070 13.8		
Top Log Interval	320	3778		
Casing - Driller	13 3/8 322	9 5/8 @ 3778	@	@
Casing - Logger	320	3778		
Bit Size	12 1/4	7 7/8		
Type Fluid in Hole	MAGCOGEL	SALT MUD		
Dens.	8.6	39	16.2	74
pH	9.5	14.6 ml	13.0	5.0 ml
Fluid Loss				
Source of Sample	MUD PIT	FLOWLINE		
R _m @ Meas. Temp.	2.74 @ 43 °F	.088 @ 62 °F	"	°F @
R _{mf} @ Meas. Temp.	1.71 @ 66 °F	.047 @ 62 °F	"	°F @
R _{mc} @ Meas. Temp.	- @ °F	- @ °F	"	°F @
Source: R _{mf} R _{mc}	MUD	PRESS M		
R _m @ BHT	1.6 @ 80 °F	- @ °F	"	°F @
Time Since Circ.	8 HOURS	4 HOURS		
Max. Rec. Temp.	80 °F	112 °F		°F
Equip. Location	7759 G.J.	7759 G.J.		
Recorded By	ETTER	GEIGER		
Witnessed By	WAGNER	LATCH		

SCHLUMBERGER

SONIC LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL LONG CANYON UNIT #1 COMPANY SOUTHERN NATURAL GAS COMPANY	COMPANY	SOUTHERN NATURAL GAS COMPANY	Other Surveys IES, ML LL-GRN, GRN, MLL Location of Well 331 Elevation: K.B.: 5794 D.F.: or G.L.: 5780
	WELL	LONG CANYON UNIT #1	
	FIELD	WILDCAT	
	LOCATION	SEC. 9-26S-20E 2339' FNL-2473' FWL	
	COUNTY	GRAND	
	STATE	UTAH	

Log Depths Measured From KB 14 Ft. above GL

RUN No.	ONE	TWO	
Date	7-4-62	8-4-62	
First Reading	4400	7498 15.1	
Last Reading	4348	4507	
Feet Measured	52	2991	
Csg. Schlum.	260	4507	
Csg. Driller	261	4506	
Depth Reached	4409	7504	
Bottom Driller	4504	7505	
Mud Nat.	AIR & WATER	SALT-GEL	
Dens. Visc.	-	17.6 80	
Mud Resist.	- @ °F	.083 @ 90 °F	@ °F
" Res. BHT	- @ °F	.067 @ 113 °F	@ °F
" pH	- @ °F	6.5 @ °F	@ °F
" Wir. Loss	- CC 30 min	1.0 CC 30 min	CC 30 min
" Rmf	- @ °F	.037 @ 92 °F	@ °F
Bit Size	13 3/4"	9 5/8"	
Spacing:			
T3 R1 R2	4400 To 4348	4507 To 7498	To
T3 R1 R2	To	7000 To 7150	To
Opr. Rig Time	1 HOUR	3 HOURS	
Truck No.	3501 CORTEZ	3529 GR. JCT.	
Recorded By	CLAYTON	MONTGOMERY	
Witness	MR. BUDD	MR. BUDD	

SCHLUMBERGER

GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH
FIELD or LOCATION WILDCAT
WELL WHITE CLOUD # 1
COMPANY J. E. ROBERTS JR.

COMPANY J. E. ROBERTS JR.

WELL WHITE CLOUD # 1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location: 1334' FNL - (2831' FEL)

Other Services:

332

Sec. 14 Twp. 26S Rge. 20E

NONE

Permanent Datum: G.L.; Elev.: 4335
Log Measured From K.B., 14 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 4349
D.F. _____
G.L. 4335

Date	APRIL 10, 1959	JUNE 26, 1962	JULY 10, 1962
Run No.	TWO	FOUR	FIVE
Type Log	GRN	GRN	GRN
Depth—Driller	5637	7445	8043
Depth—Logger	5638	7445	8044
Bottom logged interval	5636 ^{22.3}	7444 ^{17.1}	8043 ^{17.0}
Top logged interval	2800	6450	7233
Type fluid in hole	SALT BASE+OIL	SALT-GEL	SALT-GEL
Salinity, PPM Cl.	--	75,760	--
Density	--	10.4	10.3
Level	FULL	FULL	FULL
Max rec. temp., deg F.	120	121	126
Operating rig time	5 HR6	1 1/2 HRS	1 HR
Recorded by	MIXA	MONTGOMERY	MONTGOMERY
Witnessed by	RUBY	ROBERTS&BUDD	BUDD

RUN No.	BORE-HOLE RECORD				CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To	
2	7 7/8	CSG	5638	9 5/8	36#	SURF	364'	
4	7 7/8	CSG	7445	9 5/8	36#	SURF	364'	
5	7 7/8	CSG	8044	9 5/8	36#	SURF	364'	

SCHLUMBERGER WELL SURVEYING CORPORATION

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND
FIELD or LOCATION WILDCAT
WELL GOVERNMENT # 1
COMPANY J. E. ROBERTS &
WHITE CLOUD

COMPANY J. E. ROBERTS &
WHITE CLOUD
WELL GOVERNMENT # 1
FIELD WILDCAT
LOCATION SEC. 14-26S-20E 6
1134' FNL - 283' FEL
COUNTY GRAND
STATE UTAH

Other Surveys
GRN - SG
Location of Well
332
Elevation: D.F.:
K.B.: 4342
or G.L.: 4335
FILING No. 128

RUN No.	ONE	TWO			
Date	3-7-59	3-26-59			
First Reading	2716 29.3	3375 34.6			
Last Reading	315	2716			
Feet Measured	2401	659			
Csg. Schlum.	315	---			
Csg. Driller	318	---			
Depth Reached	2722	3375			
Bottom Driller	2725	4074			
Depth Datum	KB-7' ABOVE GL				
Mud Nat.	CHEM, GEL SALT-DIESEL EMUL.				
Dens. Visc.	9.7 40	9.7 96			
Mud Resist.	1.6@ 45°F	0.12@ 72°F	@ °F	@ °F	@ °F
" Res. BHT	0.76@ 95°F	0.07@ 115°F	@ °F	@ °F	@ °F
Rmf M	1.35@ 95°F	-- @ ---°F	@ °F	@ °F	@ °F
Rmc M	0.55@ 95°F	-- @ ---°F	@ °F	@ °F	@ °F
" pH	2.0@ °F	-- @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	25.6 CC 30 min.	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	9 5/8" - 1850-7 7/8" - TD				
Spcgs.—AM	16"	16"			
MN	27' 2"	27' 2"			
IND.	40"	40"			
Opr. Rig Time	2 HRS	2 HRS			
Truck No.	1523 GJ	1523 GJ			
Recorded By	MIXA	BACHMAN			
Witness	MC COLLUM	ROOT			

FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Sonic Log

COUNTY GRAND UTAH FIELD or LOCATION WILDCAT WELL LITTLE VALLEY UNIT #1 COMPANY THE MURPHY CORPORATION	COMPANY THE MURPHY CORPORATION	Other Surveys GRN, LL, CDM
	WELL LITTLE VALLEY	Location of Well SEC. 29-26S-20E 1980' / S 660' / W
	UNIT #1	
	FIELD WILDCAT	
	LOCATION SEC. 29-26S-20E 1980' / S-660' / W	333
	COUNTY GRAND	Elevation: K.B.: 5934
STATE UTAH <i>NW SW</i>	D.F.: or G.L.: 5924	

Log Depths Measured From **KB** 10 Ft. above **GL**

RUN No.	TWO	
Date	8-17-60	
First Reading	8592	18.0
Last Reading	8451	
Feet Measured	141	
Csg. Schlum.	4216	
Csg. Driller	4214	
Depth Reached	8596	
Bottom Driller	8596	
Mud. Nat.	SALT BASE	
Dens.	12.9	100
Visc.		
Mud Resist.	@ °F 0.07 @ 79 °F	@ °F
" Res. BHT	@ °F 0.04 @ 136 °F	@ °F
" pH	@ °F 6.0 @ °F	@ °F
" Wtr. Loss	CC 30 min 8.0 CC 30 min	CC 30 min
" Rmf	@ °F 0.05 @ 79 °F	@ °F
Bit Size	8 3/4"	
Span:	3'	
	To 8451	To 8592
	To	To
Opr. Rig Time	3 HRS	
Truck No.	1523 GJ	
Recorded By	COVEY	
Witness	STRINGER	

FOLD HERE



Log Technology
WITH GAMMA RAY

COUNTY GRAND
FIELD # WILDCAT
LOCATION FEDERAL # 1-X
WELL

COMPANY TEXAS-GULF
PRODUCING COMPANY
WELL FEDERAL # 1-X
FIELD WILDCAT
LOCATION SEC. 36 26S 20E
1980'S & 610'E
COUNTY GRAND
STATE UTAH

Other Surveys
ML, CDM, DR
Location of Well
Elevation: K.B.: 4196
D.F.: 4184
SUR or G.L.: 4184

Log Depths Measured From KB 12 Ft. above GL

335

DATE	TIME	DEPTH	TEMP	RESIST	PH	WIT. LOSS	RINSE	DRILLER	LOGGERS
3-29-58	1:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	1:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	1:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	1:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	2:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	3:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	4:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	5:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	6:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	7:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	8:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:10	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:20	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:30	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:40	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	9:50	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS
3-29-58	10:00	3700	71.0	0.09	7.8	4.9	0.4	HR	PHILLIPS

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REMARKS	CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME	RECORDING
		CPS.	CPS.	DIVISIONS	(FOR CAL.)	(RECORD)	CONST.	SPEED IF IN
RUN 1	GAMMA RAY:	92	292	100	400	400	2	30
RUN 2		95	420	100	400	300	2	25
RUN 3		180	495	100	400	300	2	25
RUN 4		180	572	100	400	300	2	25
RUN 5		124	488	100	400	300	2	25

RUNS 2 & 3 MUD SAMPLE FROM FLOW LINE. RUNS 4 & 5 MUD SAMPLE FROM MUD PI

RC5 - 22E

Schlumberger

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY FIELD or LOCATION WELL COMPANY

COMPANY UNION OF CALIF.

WELL BURKHOLDER UNIT # 1-G-1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION 2950' FNL 2500' FEL

Sec. 1 Twp. 26 S Rge. 22 E

Other Services: DUAL LL-9 HDT 336

Permanent Datum: GL, Elev. 5286 Log Measured From KB, 14. Ft. Above Perm. Datum Drilling Measured From KB

Elev.: K.B. 5300 D.F. - G.I. 5286

Table with columns for Date, Run No., Depth-Driller, Depth-Logger, Btm. Log Interval, Top Log Interval, Casing-Driller, Casing-Logger, Bit Size, Type Fluid in Hole, Dens., Visc., pH, Fluid Loss, Source of Sample, Rm @ Meas. Temp., Rmf @ Meas. Temp., Rmc @ Meas. Temp., Source: Rmf Rmc, Rm @ BHT, Time Since Circ., Max. Rec. Temp., Equip. Location, Recorded By, Witnessed By.

JUL 28 1975

Schlumberger

DUAL LATEROLOG

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>CITIES SERVICE OIL CO.</u>			
	WELL <u>FEDERAL WEAVER #1</u>			
	FIELD <u>WILDCAT</u>			
	COUNTY <u>GRAND</u>	STATE <u>UTAH</u>		
LOCATION <u>SW NE</u>		Other Services: CNL FDC BHC		
Sec. <u>28</u> Twp. <u>26S</u> Rge. <u>22E</u>		337		
Permanent Datum: <u>GL</u> , Elev. <u>4763</u>		Elev.: K.B. <u>4779</u>		
Log Measured From <u>KB</u> <u>16</u> Ft. Above Perm. Datum		D.F. _____		
Drilling Measured From <u>KB</u>		G.L. _____		
Date	<u>4/11/75</u>	<u>5/11/75</u>		
Run No.	<u>ONE</u>	<u>TWO</u>		
Depth - Driller	<u>10313</u>	<u>10721</u>		
Depth - Logger	<u>10303</u>	<u>10717</u>		
Btm. Log Interval	<u>10289</u> <u>15.8</u>	<u>10703</u> <u>18.6</u>		
Top Log Interval	<u>4238</u>	<u>10304</u>		
Casing - Driller	<u>5/8 @ 4238</u>	<u>5/8 @ 10311</u>	@	@
Casing - Logger	<u>4238</u>	<u>10304</u>		
Bit Size	<u>8 1/2</u>	<u>4 1/2</u>		
Type Fluid in Hole	<u>SAL. SAL.</u>			
Dens.	<u>10.1</u>	<u>50</u>	<u>10.1</u>	<u>37</u>
pH	<u>10.5</u>	<u>0.8</u> ml	<u>9.2</u>	<u>2.1</u> ml
Source of Sample	<u>FLOW LINE</u>		<u>PIT</u>	
R _m @ Meas. Temp.	<u>.06 @ 75 °F</u>	<u>.05 @ 75 °F</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>.04 @ 75 °F</u>	<u>.015 @ 75 °F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>- @ - °F</u>	<u>- @ - °F</u>	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M</u>	<u>MEAS.</u>		
R _m @ BHT	<u>.032 @ 140 °F</u>	<u>.033 @ 160 °F</u>	@ °F	@ °F
Time Since Circ.	<u>10 HRS.</u>	<u>3 1/2 HRS.</u>		
Max. Rec. Temp.	<u>140 °F</u>	<u>160 °F</u>	°F	°F
Equip. Location	<u>5616 FARR</u>	<u>5602 4111</u>		
Recorded By	<u>RUSEN</u>	<u>WALTER BRUCE MAN</u>		
Witnessed By	<u>COLBET - CIEKLA</u>			

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COMPENSATED FORMATION DENSITY LOG
Gamma-Gamma

COMPANY CITIES SERVICE OIL CO.

WELL FEDERAL WEAVER #1

FIELD WILLOCAT

COUNTY GRAND STATE UTAH

COUNTY
FIELD or
LOCATION
WELL
COMPANY

Location: SW NE
API Serial No. _____
Sec. 28 Twp. 26 S Rge. 22 E

Other Services:
OLL
CNL
BHC 337

Permanent Datum: GL; Elev.: 4763
Log Measured From KB 16 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4779
D.F. _____
G.L. 4763

Date	<u>4-11-75</u>				
Run No.	<u>ONE</u>				
Depth-Driller	<u>10,313</u>				
Depth-Logger	<u>10,304</u>				
Btm. Log Interval	<u>10,303</u>	<u>16.8</u>			
Top Log Interval	<u>7900</u>				
Casing-Driller	<u>9 5/8 @ 4238</u>	@	@	@	@
Casing-Logger	<u>4238</u>				
Bit Size	<u>8 1/2</u>				
Type Fluid in Hole	<u>SAT SALT</u>				
Fluid Level	<u>FULL</u>				
Dens.	<u>10.1</u>	<u>5.0</u>			
pH	<u>10.5</u>	<u>0.8</u>	ml	ml	ml
Fluid Los					
Source of Sample	<u>FLOW LINE</u>				
R _m @ Meas. Temp.	<u>.06 @ 75° F</u>	@	° F	@	° F
R _{mf} @ Meas. Temp.	<u>.04 @ 75° F</u>	@	° F	@	° F
R _{mc} @ Meas. Temp.	<u>- @ -° F</u>	@	° F	@	° F
Source: R _{mf} R _{mc}	<u>M -</u>				
R _m @ BHT	<u>.03 @ 146° F</u>	@	° F	@	° F
Time Since Circ.	<u>15 HRS</u>				
Rec. Temp.	<u>146</u>	° F	° F	° F	° F
Location	<u>5616 FARD.</u>				
ed By	<u>RUSEN</u>				
ssed By	<u>COLBY, CLEMAY</u>				

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

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BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY

COUNTY FIELD or LOCATION WELL	GRAND WILDCAT FEDERAL WEAVER NO. 1	COMPANY UNION TEXAS PET.	COMPANY		UNION TEXAS PETROLEUM		
			WELL		FEDERAL WEAVER NO. 1		
			FIELD		WILDCAT		
			COUNTY		GRAND	STATE	
COUNTY FIELD or LOCATION WELL	GRAND WILDCAT FEDERAL WEAVER NO. 1	COMPANY UNION TEXAS PET.	LOCATION		SW/NE	Other Services: FDC-GR GR CNL-GR HDT DIL. 337?	
			Sec. 28	Twp. 26S	Rge. 22E		
Permanent Datum:			GL	Elev. 4763		Elev.: K.B. 4775	
Log Measured From			KB	12 Ft. Above Perm. Datum		D.F. ----	
Drilling Measured From			KB			G.L. 4763	
Date	1-16-73	2-23-73	3-12-73				
Run No.	ONE	TWO	THREE				
Depth—Driller	4341	6983	8113				
Depth—Logger	4325	6978	8107				
Btm. Log Interval	4323 20.6	6976	8105 16.6				
Top Log Interval	311	4236	6900				
Casing—Driller	13-3/8@312	9-5/8 @4238	9-5/8 @4241	@			
Casing—Logger	311	4236	----				
Bit Size	12-1/4	8-1/2	8-1/2				
Type Fluid in Hole	SALT MUD	SALT WATER	SALT MUD				
		FULL	FULL				
Dens.	Visc.	10.4	47	10.3	43	10.4	38
pH	Fluid Loss	47	-- ml	7	7.5 ml	2.9	6.8 ml
Source of Sample	MUD	PIT	TANK				
R _m @ Meas. Temp.	0.066@ 75 °F	.055 @ 70 °F	.065 @ 70 °F	@ °F			
R _{mf} @ Meas. Temp.	0.066@ 75 °F	.055 @ 70 °F	.047 @ 70 °F	@ °F			
R _{mc} @ Meas. Temp.	---- @ -- °F	---- @ -- °F	.078 @ 70 °F	@ °F			
Source: R _{mf}	M	--	M	C	M	C	
R _m @ BHT	0.044@ 100 °F	---- @ -- °F	.036 @ 125 °F	@ °F			
Time Since Circ.	12 HRS.	12 HRS.	16 HRS.				
Max. Rec. Temp.	100 °F	N/A	125 °F	°F			
Equip.	Location	5642 VERN.	5642 VERN.	7022 VERN.			
Recorded By	LANGLEY	DEAX	DANTI				
Witnessed By	BRODRICK-PICKERING ---		BRODRICK-PICKERING				

The well name, location and borehole reference data were furnished by the customer.
FOLD HERE

T 265 R 25E



SONIC LOG - GAMMA RAY

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD of LOCATION WILDCAT WELL PACE STATE #1 COMPANY PAN AMERICAN	COMPANY	PAN AMERICAN PETROLEUM CORPORATION			
	WELL	PACE STATE #1			
	FIELD	WILDCAT			
	COUNTY	GRAND	STATE	UTAH	
	LOCATION	510' FNL-660' FEL NE-NE		Other Services: I-ES 338	
Sec.	T2	Twp.	26S	Rge.	25E

Permanent Datum:	GL	Elev.	8578	Elev.:	K.B. 8594
Log Measured From	KB	16	ft. Above Perm. Datum		D.F. 8593
Drilling Measured From	KB				G.I. 8578

Date	9-18-63	12-20-63	2-21-64	5-2-64
Run No.	ONE	TWO	THREE	FOUR
Depth-Driller	7024	12719	14571	15879
Depth-Logger	7021	12720	14564	15879
Btm. Log Interval	7015-17	12719-10.8	14558-14.2	15876-17.7
Top Log Interval	100	7026	12719	14555
Casing-Driller	13 3/8 @ 1005	9 5/8 @ 7025	9 5/8 @ 7025	7" @ 14565
Casing-Logger	1007	7026		14555
Bit Size	12 1/4"	8 3/4"	8 3/4"	6"
Type Fluid in Hole	CHEM. GEL.	CHEM. GEL.	FRESH GEL	CHEM. GEL.
Dens.	8.9	38	9.1	64
Visc.				6% OIL
pH Fluid Loss	8.5	6.6 ml		2.4 ml
Source of Sample	FLOW LINE	FLOW LINE	MUD TANK	FLOW LINE
R _{sp} @ Meas. Temp.	3.33 @ 76 °F	1.50 @ 67 °F	1.73 @ 60 °F	1.10 @ 71 °F
R _{at} @ Meas. Temp.	2.45 @ 78 °F	1.27 @ 68 °F	1.48 @ 60 °F	0.73 @ 79 °F
R _{sc} @ Meas. Temp.	- @ - °F	2.0 @ 67 °F	2.28 @ 60 °F	1.85 @ 71 °F
Source: Rat Rec.	M	C	PRESS	PRESS
R _{sp} @ BHT	7.2 @ 115 °F	0.59 @ 168 °F	0.62 @ 180 °F	0.36 @ 205 °F
Time Since Circ.	8 HOURS		17 HOURS	8 HOURS
Max. Rec. Temp.	115 °F	168 °F	180 °F	205 °F
Equip. Location	3501 CORTEZ	2598 G.J.	3501 CORTEZ	4509 G.J.
Recorded By	KIMBALL	MONTGOMERY	FEATHER	MONTGOMERY
Witnessed By	BONHAM	BONHAM	BONHAM	BONHAM

Rocky Mountain Well Log Service
Dallas 2, Texas

REFERENCE K9295D


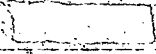
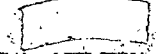


57 COMPLETION RECORD

SPUD DATE	
COMP DATE	
DST RECORD	
CASING RECORD	

GRAND COUNTY, UT

DOG M WELL LOGS

-  abandoned wells
-  producing wells
-  drilling wells

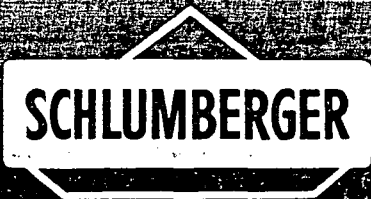
ambient $T = 10.6^{\circ}\text{C} = 51.0^{\circ}\text{F}$

on Temperature log $T^* =$ have entire log

519 = last assigned #

15 S

25 E



INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL WESTBIT UNIT #3 COMPANY BELCO PETROLEUM CORPORATION	COMPANY BELCO PETROLEUM CORPORATION	Other Surveys GRN FDL
	WELL WESTBIT UNIT #3	Location of Well 1
	FIELD WILDCAT <i>11</i>	<i>NOT IN GRAND CO</i>
	LOCATION SEC. 31-15S- 25E ^{25E} 1320 N/S 1320 E/W	Elevation: D.F.: 8305 K.B.: or G.L.: 8293
	COUNTY GRAND	
	STATE UTAH	FILING No. <i>ADD 1</i>

RUN No.	ONE	TWO (INDUCTION - GAMMA RAY)			
Date	9-28-62	10-14-62			
First Reading	4102 <i>21.8</i>	7800 <i>25.5</i>			
Last Reading	162	4110			
Feet Measured	3940	3690			
Csg. Schlum.	162	4100			
Csg. Driller	161	4100			
Depth Reached	4103	7806			
Bottom Driller	4100	7790			
Depth Datum	KB	KB			
Mud Nat.	CHEM GEL	DRY			
Dens. Visc.	9.8 70	- -			
Mud Resist.	3.2 @ 73°F	- @ - °F	@ °F	@ °F	@ °F
" Res. BHT	2.3 @ 100°F	- @ 160°F	@ °F	@ °F	@ °F
Rmf	3.3 @ 76°F	- @ - °F	@ °F	@ °F	@ °F
Rmc	3.1 @ 74°F	- @ - °F	@ °F	@ °F	@ °F
" pH	9.0 @ °F	- @ - °F	@ °F	@ °F	@ °F
" Wtr. Loss	4.2 CC 30 min.	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	8 3/4"	6 1/4"			
Spcgs.—AM	16"	-			
MN	34" 6'	-			
IND.	6FF40	6FF40			
Opr. Rig Time	2 HOURS	2 HOURS			
Truck No.	1593 V	2598 V			
Recorded By	WARNER	WARNER			
Witness	BASS	BASS			

165

21E

193 215

SCHLUMBERGER

TEMPERATURE LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL MOON RIDGE UNIT 31-15 COMPANY SUPERIOR OIL CO.	COMPANY SUPERIOR OIL COMPANY <i>Oil Resources</i> WELL MOON RIDGE UNIT 31-15 FIELD WILDCAT LOCATION SEC. 15-16S-21E NW NE COUNTY GRAND STATE UTAH	Location of Well 2 FIGHT NOT GIVEN Elevation: D.F.: _____ K.B.: _____ or G.L.: _____ FILING No. <i>16</i> 2
Date 12-4-61 Time Started 1500 Time Finished 1800		
First Reading 10.300 <i>29.6</i>		
Last Reading 7.650		
Footage Measured 2.650		
Max. Depth Reached 10.301		
Bottom Driller 10.301		
Hole Size 6 3/4		
Casing Size 7 5/8		
Depth Datum K. B.		
Mud Data Nature AIR Resistivity @ °F		
Fluid Level NA		
Max. Temp. 218		
Cementation Data Date NA Time Started Time Finished		
Circulation Data Date Time Started Time Finished		
A-Cement Top Determination		
1) Date Pressure Released Time Released		
2) Amount Cement		
3) Calculated Top		
4) Depth of Plug		
B-Location of Oil and Gas		
1) Casing Shoe Driller		
2) Date Drilling Stopped Time Stopped		
Truck No. 2517 VERNAL		
Recorded By LANGILL		
Witnessed By RAMSBURG		

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INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY GRAND FIELD or LOCATION WILDCAT WELL MOON RIDGE UNIT COMPANY SUPERIOR OIL COMPANY # 31-15 COMPANY SUPERIOR OIL COMPANY	COMPANY	SUPERIOR OIL	Other Surveys ML 2
	COMPANY		
	WELL	MOON RIDGE UNIT	Location of Well
		# 31-15	
	FIELD	WILDCAT	
	LOCATION	SEC. 15-16S-21E	
	NW NE		
COUNTY	GRAND	Elevation: D.F.: _____ K.B.: _____ <i>Q.W.</i> or G.L.: _____	
STATE	UTAH	FILING No. 2	

RUN No.	ONE				
Date	11-18-61				
First Reading	6275	20.6			
Last Reading	489				
Feet Measured	5786				
Csg. Schlum.	489				
Csg. Driller	490				
Depth Reached	6276				
Bottom Driller	6276				
Depth Datum	KB				
Mud Nat.	LOW SOLIDS	ENUI			
Dens. Visc.	9.5	54			
Mud Resist.	2.5 @ 67 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.3 @ 122 °F	50°C @ °F	@ °F	@ °F	@ °F
Rmf	1.6 @ 67 °F	@ °F	@ °F	@ °F	@ °F
Rmc	2.7 @ 64 °F	@ °F	@ °F	@ °F	@ °F
" pH	10.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	4.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	9-7/8"				
Spcgs.—AM	16"				
MN	34-1/2"				
IND.	6FF40				
Opr. Rig Time	2 1/2 HR				
Truck No.	2517 V				
Recorded By	WARNER				
Witness	ANDERSON & WALLER				

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INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY FIELD or LOCATION WELL	GRAND WILDCAT SEGUNDO CANYON UNIT NO. 2	COMPANY PACIFIC NATURAL GAS EXPLORATION COMPANY	COMPANY	PACIFIC NATURAL GAS	Other Surveys SL/C, FDL, T Location of Well 3
			EXPLORATION COMPANY		
COUNTY	GRAND	WELL	SEGUNDO CANYON UNIT		Elevation: D.F.: 8129 K.B.: 8128 or G.L.: 8118
			NO. 2		
FIELD or LOCATION	WILDCAT SEGUNDO CANYON UNIT NO. 2	WELL	WILDCAT		FILING No. _____
			LOCATION SEC. 32-T16S-R21E 15		
			660' FSL, 660' FWL		
COUNTY			GRAND		
STATE			UTAH		

RUN No.	ONE	TWO	THREE		
Date	1-18-63	1-24-63	2-21-63		
First Reading	5792	5942	9893		
Last Reading	208	5793	6156		
Feet Measured	5584	149	3737		
Csg. Schlum.	208	5793	6156		
Csg. Driller	208	5791	6149		
Depth Reached	5793	5943	9900		
Bottom Driller	5791	5942	9876		
Depth Datum	K. B.	K. B.	K. B.		
Mud Nat.	CHEM GEL	WATER	GAS		
Dens. Visc.	9.2 50	- -	- -		
Mud Resist.	3.7 @ 45°F	- @ - °F	- @ - °F	@ °F	@ °F
" Res. BHT	1.5 @ 118°F	- @ - °F	- @ - °F	@ °F	@ °F
Rmf	2.4 @ 60°F	- @ - °F	- @ - °F	@ °F	@ °F
Rmc	- @ - °F	- @ - °F	- @ - °F	@ °F	@ °F
" pH	9.5 @ - °F	- @ - °F	- @ - °F	@ °F	@ °F
" Wtr. Loss	- CC 30 min.	- CC 30 min.	- CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	8 3/4"	6 3/4"		
Spcgs.—AM	16"	-	-		
MN	-	-	-		
IND.	6FF40	6FF40	6FF40		
Opr. Rig Time	3 HOURS		2 HOURS		
Truck No.	3501 CORTEZ	3529 GJ	1593 VERNAL		
Recorded By	TALLEY	MONTGOMERY	BOWLER		
Witness	DONALDSON	QUIGLEY	LOMAN		

FOLD HERE

SCHLUMBERGER

TEMPERATURE LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY GRAND FIELD or LOCATION WILDCAT WELL SEGUNDO CANYON UNIT NO. 2 COMPANY PACIFIC NATURAL GAS EXPLORATION CO.	COMPANY PACIFIC NATURAL GAS	Location of Well 5
	EXPLORATION COMPANY	
	WELL SEGUNDO CANYON	
	UNIT NO. 2	
FIELD WILDCAT		
LOCATION SEC. 33-T16S-R21E 32?		
COUNTY GRAND		
STATE UTAH		
	Elevation: D.F.: K.B.: 8128 or G.L.: 8118	
	AD FILING No. 3	
Date <u>2-21-63</u>	Time Started <u>2000</u>	Time Finished <u>2100</u>
First Reading <u>9899</u>	<u>31.9</u>	
Last Reading <u>9000</u>		
Footage Measured <u>899</u>		
Max. Depth Reached <u>9900</u>		
Bottom Driller <u>9876</u>		
Hole Size <u>6 3/4"</u>		
Casing Size <u>7 5/8"</u>		
Depth Datum <u>K.B.</u>		
Mud Data Nature <u>GAS</u>	Resistivity <u>-</u>	@ <u>-</u> °F
Fluid Level <u>-</u>		
Max. Temp. <u>224</u>		
Cementation Data Date <u>-</u>	Time Started <u>-</u>	Time Finished <u>-</u>
Circulation Data Date <u>-</u>	Time Started <u>-</u>	Time Finished <u>-</u>
A-Cement Top Determination <u>-</u>		
1) Date Pressure Released <u>-</u>		Time Released <u>-</u>
2) Amount Cement <u>-</u>		
3) Calculated Top <u>-</u>		
4) Depth of Plug <u>-</u>		
B-Location of Oil and Gas <u>9854 - 9860</u>		
1) Casing Shoe Driller <u>6149</u>		
2) Date Drilling Stopped <u>2-21-63</u>		Time Stopped <u>0500</u>
Truck No. <u>1593</u>	<u>VERNAL</u>	
Recorded By <u>BOWLER</u>		
Witnessed By <u>LOMAN</u>		

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH

FIELD or LOCATION WILDCAT

WELL MOON RIDGE UNIT

22-22

COMPANY PACIFIC NAT. GAS

COMPANY PACIFIC NATURAL GAS EXPLORATION

COMPANY

WELL MOON RIDGE UNIT # 22-22

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION SE - NW

Other Services: 4

Sec. 22 Twp. 16S Rge. 21E

SL-C, FDL,
TEMP.

Permanent Datum: G.L., Elev. 7827
Log Measured From K.B., 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 7838
D.F. -
G.L. 7827

Date	6-15-63	6-28-63		
Run No.	1-IND-ES	2-IND-GR		
Depth—Driller	6150	9920		
Depth—Logger	6151	9920		
Btm. Log Interval	6150 11.9	9913 28.7		
Top Log Interval	213	6150		
Casing—Driller	10 3/4@ 214	7 5/8@ 6150	@	@
Casing—Logger	213	6150		
Bit Size	9 7/8"	6 3/4"		
Type Fluid in Hole	GEL- CHEMICAL	DRY-AIR DRILLED		
Dens.	9.4	60	-	-
pH	Fluid Loss	8.5	8.0 ml	-- ml
Source of Sample	MUD TANKS	-		
R _m @ Meas. Temp.	3.0 @ 70 °F	- @ - °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.8 @ 70 °F	- @ - °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.5 @ 118 °F	- @ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	FP C	-	-	
R _m @ BHT	1.8 @ 118 °F	- @ - °F	@ °F	@ °F
Time Since Circ.	-	-		
Max. Rec. Temp.	118 °F	207 °F	°F	°F
Equip. Location	2598 G.J.	2598 G.J.		
Recorded By	MONTGOMERY	MONTGOMERY		
Witnessed By	STRATTON	LINDSAY		

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY GRAND FIELD SEGUNDO CANYON LOCATION NE/NW WELL FED 921-1 COMPANY ANSCHUTZ	COMPANY THE ANSCHUTZ CORP			
	WELL FEDERAL 921-1			
	FIELD SEGUNDO CANYON			
	COUNTY GRAND		STATE UTAH	
	LOCATION	NE/NW		
API SERIAL NO.		SEC.	TWP.	RANGE
		34	16S	21E
Other Services:				
DIL, TAPING				
6				
Permanent Datum: GL _____; Elev.: 7776				
Log Measured From KB _____, 10 Ft. Above Perm. Datum				
Drilling Measured From KB _____				
Elev.: K.B.		7786		
D.F.		--		
G.L.		7776		
Date.	10-18-78	11-3-78		
Run No.	ONE	TWO		
Depth-Driller	5810	10355		
Depth-Logger	5780	10347		
Btm. Log Interval	5778 230	10345 27.7		
Top Log Interval	312	9000		
Casing-Driller	9 5/8 @ 303	7' @ 5809	@	@
Casing-Logger	312	5806		
Bit Size	8 5/8	6 1/4		
Type Fluid in Hole	FGM	MUDTANK		
Dens.	8.8	38	8.7	48
pH	9.5	7.2 ml	9.0	6.5 ml
Fluid Loss				
Source of Sample	MUDTANK	FLOWLINE		
Rm @ Meas. Temp.	2.25 @ 65°F	.330 @ 58°F	@ °F	@ °F
Rmf @ Meas. Temp.	1.94 @ 65°F	.259 @ 62°F	@ °F	@ °F
Rmc @ Meas. Temp.	3.38 @ 65°F	-- @ --°F	@ °F	@ °F
Source: Rmf	M	C	EMT	--
Rmc				
Rm @ BHT	1.23 @ 124°F	.092 @ 208°F	@ °F	@ °F
Circulation Stopped	1730	0500		
Logger on Bottom	0200 (10/19)	1500		
Max. Rec. Temp.	124°F	208°F	°F	°F
Equip.	7726 G.J.	7759 G.J.		
Location				
Recorded By	OLSON/LAUDE	WALLACE		
Witnessed By Mr.	POWELL	POWELL/PERSWELL		

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

165 - 22 E

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL CHERRY CANYON UNIT # 1 COMPANY PACIFIC NATURAL GAS EXPLORATION COMPANY	COMPANY	PACIFIC NATURAL GAS EXPLORATION COMPANY	Other Surveys	SL-C, GRN
	WELL	CHERRY CANYON	Location of Well	SEC 2-16S-22E SE - SE 7
	FIELD	WILDCAT	Elevation: D.F.:	7509
	LOCATION	SEC 2-16S-22E SE - SE	K.B.:	
	COUNTY	GRAND	or G.L.:	7498
	STATE	UTAH	FILING No.	

RUN No.	1-1-ES	2-1-ES	3-1-ES	4-1-GR	5-1-ES
Date	9-23-62	10-6-62	10-16-62	1-9-63	4-5-63
First Reading	4899 25.7	5335 18.8	5746	9504	9574 26.5
Last Reading	342	4899	5351	5763	9273
Feet Measured	4557	436	395	3741	301
Csg. Schlum.	342	342	5351	5763	9273
Csg. Driller	338	338	5343	5762	9271
Depth Reached	4900	5336	5747	9505	9575
Bottom Driller	4900	5348	5727	9506	9577
Depth Datum	K. B.	K. B.	K. B.	K. B.	K. B.
Mud Nat.	GEL-GILS.	GEL-GILS.	FORM. WTR.	DRY-AIR	GEL-GILS.
Dens. Visc.	9.9 46	9.75 60	- -	- -	8.7 75
Mud Resist.	4.8 @ 72°F	5.4 @ 68°F	- @ - °F	- @ - °F	2.94 @ 79 °F
" Res. BHT	3.0 @ 120°F	3.6 @ 106°F	- @ - °F	- @ - °F	1.2 @ 190 °F
Rmf	3.55 @ 68°F	4.0 @ 68°F	- @ - °F	- @ - °F	2.35 @ 70 °F
Rmc	- @ - °F	- @ - °F	- @ - °F	- @ - °F	- @ - °F
" pH	7.0 @ - °F	8.0 @ - °F	- @ - °F	- @ - °F	8.5 @ - °F
" Wtr. Loss	10.0 CC 30 min.	7.2 CC 30 min.	- CC 30 min.	- CC 30 min.	7.2 CC 30 min.
Bit Size	12 1/4"	12 1/4"	9 5/8"	7 7/8"	6 1/8"
Spcgs.—AM	16"	16"	16"	-	16"
MN	34'6"	34'6"	34'6"	34'6"	34'6"
IND.	6FF40	6FF40	6FF40	6FF40	6FF40
Opr. Rig Time	2 HOURS	1 HOUR	1 HOUR	2 HOURS	2 HOURS
Truck No.	3529 G.J.	3501 CRTZ.	3529 G.J.	3529 G.J.	2598 G.J.
Recorded By	CLAYTON	CHAMBLISS	RANSOM	MONTGOMERY	
Witness	QUIGLEY	QUIGLEY	QUIGLEY	SHANNON	QUIGLEY

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT STATE NO. 1-428 WELL COMPANY ANSCHUTZ CORP.	COMPANY	THE ANSCHUTZ CORPORATION			
	WELL	STATE NO. 1-428			
	FIELD	WILDCAT			
	COUNTY	GRAND	STATE	UTAH	
	LOCATION	SW/SE		Other Services: FDC-GR 8 CNL-GR	
Sec.	5	Twp.	16S	Rge.	22E

Permanent Datum:	GL	Elev.	7313	Elev.: K.B.	7325
Log Measured From	KB	12 Ft. Above Perm. Datum		D.F.	7324
Drilling Measured From	KB			G.L.	7313

Date	10-12-73	10-19-73	11-12-73	11-17-73
Run No.	ONE	TWO	THREE	FOUR
Depth—Driller	5940	7670	9772	9875
Depth—Logger	5934	7670	9756	9865
Btm. Log Interval	5930 21.2	7666 24.0	9752 23.4	9861 25.7
Top Log Interval	951	6077	7500	7500
Casing—Driller	9-5/8@951	7 @6076	7 @6076	7 @ 6076
Casing—Logger	951	6077	----	6077
Bit Size	8-3/4	6-1/8	6-1/8	6-1/8
Type Fluid in Hole	F.G.M.	F.G.M.	F.G.M.	F.G.M.
Dens.	9.1	46	9.5	48
Visc.			9.5	49
pH	9.0	4.0 ml	---	5.0 ml
Fluid Loss			---	5.0 ml
Source of Sample	CIRC.	CIRC.	CIRC.	PIT
R _m @ Meas. Temp.	2.63 @ 70 °F	2.63 @ 69 °F	1.85 @ 78 °F	1.77 @ 74 °F
R _{mf} @ Meas. Temp.	2.33 @ 70 °F	2.36 @ 70 °F	1.68 @ 78 °F	1.60 @ 74 °F
R _{mc} @ Meas. Temp.	---- @ -- °F	---- @ -- °F	---- @ -- °F	---- @ -- °F
Source: R _{mf} R _{mc}	M	M	M	M
R _m @ BHT	1.54 @ 120°F	---- @ -- °F	.76 @ 176 °F	.70 @ 190 °F
Time Since Circ.	3 HRS.	4 HRS.	5 HRS.	7-1/2 HRS.
Max. Rec. Temp.	120 °F	152 °F	176 °F	190 °F
Equip.	7660 G.J.	7660 G.J.	5602 G.J.	5602 G.J.
Location				
Recorded By	BARGHOUTI	BARGHOUTI	BARGHOUTI	SCHNORR
Witnessed By	JOHNSON	JOHNSON	JOHNSON	

The well name, location and borehole reference data were furnished by the customer.

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL STATE 913 NO. 1-A COMPANY ANSCHUTZ CORP.	COMPANY ANSCHUTZ CORPORATION		
	WELL STATE 913 NO. 1-A		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
LOCATION C/SE	Other Services: FDC-GR 9 CNL-GR		
Sec. 9	Twp. 16S	Rge. 22E	
Permanent Datum: GL, Elev. 7424		Elev.: K.B. 7436	
Log Measured From KB, 12 Ft. Above Perm. Datum		D.F. ----	
Drilling Measured From KB		G.L. 7424	
Date	6-13-74	7-7-74	
Run No.	ONE	TWO	
Depth—Driller	5925	10050	
Depth—Logger	5922	10041	
Btm. Log Interval	5918 29.6	10040 26.3	
Top Log Interval	306	5927	
Casing—Driller	9-5/8@308	7 @5926	@ @
Casing—Logger	306	5927	
Bit Size	8-3/4	6-1/8	
Type Fluid in Hole	F.G.M.	F.G.M.	
Dens.	9.2	46	8.9 66
Visc.			
pH	----	-- ml	12.0 5.0 ml ml ml
Fluid Loss			
Source of Sample	PIT	PIT	
R _m @ Meas. Temp.	2.22 @ 76 °F	1.09 @ 76 °F	@ °F @ °F
R _{mf} @ Meas. Temp.	1.79 @ 76 °F	.82 @ 76 °F	@ °F @ °F
R _{mc} @ Meas. Temp.	---- @ -- °F	---- @ -- °F	@ °F @ °F
Source: R _{mf} R _{mc}	M --	M ---	
R _m @ BHT	1.08 @ 147F	.424 @ 196 °F	@ °F @ °F
Time Since Circ.	6 HRS.	5-1/2 HRS.	
Max. Rec. Temp.	147 °F	196 °F	°F °F
Equip. Location	5602 G. J.	5602 G. J.	
Recorded By	BARGHOUTI	SCHNORR	
Witnessed By	QUIGLEY	QUIGLEY	

The well name, location and borehole reference data were furnished by the customer.

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL DIAMOND RIDGE #4 COMPANY SUNRAY MID - CONTINENT OIL CO.	COMPANY	SUNRAY MID -	Other Surveys S-GR Location of Well SEC. 36-16S-22E 2492' FSL 1709' FEL Elevation: D.F.: K.B.: 6861 or G.L.: 6849
	WELL	DIAMOND RIDGE #4	
	FIELD	WILDCAT	
	LOCATION	SEC. 36-16S-22E 2492' FSL - 1709' FEL	
	COUNTY	GRAND	
STATE	UTAH	FILING No. _____	

RUN No.	ONE - IES	TWO - IND	THREE - IES
Date	6-18-60	6-29-60	7-4-60
First Reading	3867 ^{31.6}	8293	8364 ^{27.2}
Last Reading	174	3874	8311
Feet Measured	3693	4419	53
Csg. Schlum.	174	3879	8311
Csg. Driller	174	3879	8305
Depth Reached	3874	8299	8370
Bottom Driller	3879	8300	8370
Depth Datum	KB - 12' ABOVE GL	KB - 12' ABOVE GL	KB
Mud Nat.	GEL, CHEM, OIL	NO BLOK - 40% OIL	WATER
Dens. Visc.	9.7 95	8.0 92	-- --
Mud Resist.	1.03 @ 70°F	INF @ °F	.075 @ 64 °F
" Res. BHT	0.62 @ 118°F	-- @ -- °F	.027 @ 176 °F
Rmf	0.68 @ 80°F	-- @ -- °F	-- @ -- °F
Rmc	1.4 @ 80°F	-- @ -- °F	-- @ -- °F
" pH	13.0 @ °F	-- @ °F	-- @ °F
" Wtr. Loss	4.4 CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	8 3/4"	4 3/4"
Spcgs. — AM	16"		16"
MN	27' 2"		27' 2"
IND.	5FF40	5FF40	5FF40
Opr. Rig Time	2 HRS	2 HRS	1 HR
Truck No.	1523 GJ	1523 GJ	1523 GJ
Recorded By	LANGILL	LANGILL	LANGILL
Witness	JOHNSON	JOHNSON	JOHNSON

16 S

23 E

SCHLUMBERGER

SONIC LOG

COUNTY FIELD NO. LOCATION WELL COMPANY	COMPANY	TURKEY OIL	Other Surveys	1-ES
	WELL	HORSE POIN:	Location of Well	11
	UNIT	1-X		
	FIELD	WILD CAT		
	LOCATION	SEC. 14-16S-23E		
	COUNTY	LELAND	Elevation: K.B.:	8369
	STATE	UTAH	D.F.:	or G.L.: 8355

Log Depths Measured From		K. P.		1-3 Ft. above GROUND LEVEL	
RUN No.	ONE	TWO			
Date	10-1-61	11-16/17-61			
First Reading	4893: 75.2	8765: 76.6			
Last Reading	1800	4700			
Feet Measured	2893	4065			
Csg. Schlum.	520	4700			
Csg. Driller	574	4622			
Depth Reached	4700	4774			
Bottom Driller	4700	4774			
Mud Nat.	1.1-DRY SLOE	1.1M-GIL-OIL			
Dens. Visc.	4.7 @ 78	9.6 @ 90			
Mud Resist.	7.72 @ 78 °F	7.5 @ 70 °F			
Res. BHT	1.82 @ 116 °F	1.1 @ 174 °F			
pH	6.0 @ °F	8.0 @ °F			
Wir. Loss	4.2 - CC 30 min	3.0 - CC 30 min			
Rmf	2.56 @ 78 °F	2.1 @ 67 °F			
Bit Size	9 7/8	6 3/4			
Spacing:					
T. R. 3 Rs	1800 to 4693	to			
T. R. 1 Rs	to	4700 to 8765			
Opr. Rig Time	2 HRS	2 1/2 HRS			
Truck No.	1564 KIMBALL	2517 VERNAL			
Recorded By	LANGILL	WARNER			
Witness	YOUNG	YOUNG			

Reproduced By
Rocky Mountain Well Log Service
Dallas 2, Texas

REFERENCE K4418A



23 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

CASING RECORD

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 051 NO. 1 COMPANY ANSCHUTZ CORP.	COMPANY	ANSCHUTZ CORPORATION		
	WELL	FEDERAL 051 NO. 1		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	Location:	SE/SW		Other Services:
	Sec. 22	Twp. 16S	Rge. 23E	IES 12 FDC-GR

Permanent Datum:	GL	Elev.:	8078	Elev.: K.B.	8089
Log Measured From	KB	11	Ft. Above Perm. Datum	D.F.	8088
Drilling Measured From	KB			G.L.	8078

Date	12-1-73				
Run No.	ONE				
Depth-Driller	8801				
Depth-Logger	8802				
Btm. Log Interval	8801	22.6			
Top Log Interval	150				
Casing-Driller	7	@ 5097	@	@	@
Casing-Logger	5100				
Bit Size	6-1/4				
Type Fluid in Hole	F.G.M.				
Fluid Level	FULL				
Dens.	9.1	50			
pH	10.5	7.6 ml	ml	ml	ml
Source of Sample	PIT				
Rm @ Meas. Temp.	3.18 @ 60 °F	1.19 @ 160 °F	@ °F	@ °F	
Rmf @ Meas. Temp.	2.93 @ 59 °F	1.08 @ 160 °F	@ °F	@ °F	
Rmc @ Meas. Temp.	---- @ -- °F	@ °F	@ °F	@ °F	
Source: Rmf	Rmc	M	--		
Rm @ BHT	1.19 @ 160 °F	@ °F	@ °F	@ °F	
Time Since Circ.	7 HRS.				
Max. Rec. Temp.	160	°F	°F	°F	°F
Equip.	5602	G. J.			
Recorded By	SCHNORR				
Witnessed By	MUELLER				

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY FIELD or LOCATION WELL	GRAND WILDCAT FEDERAL 051 NO. 1	COMPANY ANSCHUTZ CORP.	COMPANY ANSCHUTZ CORPORATION					
			WELL NO. 1 FEDERAL 051					
			FIELD WILDCAT					
			COUNTY GRAND		STATE UTAH			
			LOCATION SE/SW		Other Services: FDC-GR 12 CNL-GR			
Sec. 22		Twp. 16S		Rge. 23E				
Permanent Datum: GL, Elev. 8078				Elev.: K.B. 8089				
Log Measured From KB, 11 Ft. Above Perm. Datum				D.F. 8088				
Drilling Measured From KB				G.L. 8078				
Date	10-19-73	10-23-73	11-17-73	12-1-73				
Run No.	ONE	TWO	THREE	FOUR				
Depth—Driller	1673*	1686*	5097	8801				
Depth—Logger	1697	1696	5095	8802				
Btm. Log Interval	1693	1692	5091	8801	22.6			
Top Log Interval	1014	1013	1011	5100				
Casing—Driller	9-5/8@1012	9-5/8@1012	9-5/8@1012	7 @ 5097				
Casing—Logger	1014	1013	1011	5100				
Bit Size	8-3/4	8-3/4	8-3/4	6-1/4				
Type Fluid in Hole	F.G.M.	F.G.M.	F.G.M.	F.G.M.				
Dens.	9.2	58	9.2	58	9.1	70	9.1	50
pH	10.0	5.0 ml	10.0	5.0 ml	---	-- ml	10.5	7.6 ml
Source of Sample	CIRC.	CIRC.	CIRC.	PTT				
R _m @ Meas. Temp.	@ °F	@ °F	3.83 @ 71 °F	3.18 @ 60 °F				
R _{mf} @ Meas. Temp.	@ °F	@ °F	3.32 @ 70 °F	2.93 @ 59 °F				
R _{mc} @ Meas. Temp.	@ °F	@ °F	---- @ -- °F	---- @ -- °F				
Source: R _{mf} R _{mc}			M	--	M	--		
R _m @ BHT	@ °F	@ °F	@ °F	1.19 @ 160 °F				
Time Since Circ.			19-1/2 HRS.	3 HRS.				
Max. Rec. Temp.	°F	°F	°F	160 °F				
Equip. Location	7660 G.J.	7660 G.J.	5602 G.J.	5602 G.J.				
Recorded By	BARGHOUTI	BARGHOUTI	SCHNORR	SCHNORR				
Witnessed By	ROSE	ROSE	JOHNSON	MUELLER				

16S - 24E

Schlumberger

**DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG**

COUNTY: GRAND
FIELD or LOCATION: EAST CANYON
WELL: ARCO STATE 2-1
COMPANY: ATLANTIC RICHFIELD

COMPANY ATLANTIC RICHFIELD CORPORATION
WELL ARCO STATE 2-1
FIELD EAST CANYON
COUNTY GRAND STATE UTAH

Location: 2194 FSL - 991 FEL (NE SE)
API Serial No. 87078
Sec. 2 Twp. 16S Rge. 24E **9**
Other Services: SNP **13**
FDC

Permanent Datum: GI; Elev.: 8447
Log Measured From: KB, 12 Ft. Above Perm. Datum
Drilling Measured From: KB
Elev.: K.B. 8459
D.F. ----
G.L. 8447

Date	7/4/75				
Run No.	ONE				
Depth—Driller	7600				
Depth—Logger	7588				
Btm. Log Interval	7580 32.2				
Top Log Interval	3901				
Casing—Driller	7 @ 3900	@	@	@	@
Casing—Logger	3901				
Bit Size	6 1/4				
Type Fluid in Hole	GAS (SEE REMARKS)				
Fluid Level	--				
Dens.	Visc.	--			
pH	Fluid Loss	--	ml	ml	ml
Source of Sample	--				
R _m @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	--				
R _m @ BHT	-- @ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	16 HOURS				
Max. Rec. Temp.	185 °F	°F	°F	°F	°F
Equip. Location	7674 VERNAL				
Recorded By	STRAWN/WILTGEN				
Witnessed By	MR. KORITNIK/MR. SANDERS/MR. MC EACHIN				

Schlumberger

COMPENSATED
FORMATION DENSITY LOG
Gamma-Gamma

COUNTY GRAND FIELD or LOCATION EAST CANYON WELL ARCO STATE 2-1 COMPANY ATLANTIC RICHFIELD COMPANY	COMPANY ATLANTIC RICHFIELD CORPORATION		
	WELL ARCO STATE 2-1		
	FIELD EAST CANYON		
	COUNTY GRAND STATE UTAH		
Location: API Serial No. 87078		Other Services: DIL-GR SNP 13	
Sec. 2 Twp. 16S Rge. 24E			
Permanent Datum: GL; Elev.: 8447		Elev.: K.B. 8459	
Log Measured From KB; Ft. Above Perm. Datum		D.F. ----	
Drilling Measured From KB		G.L. 8447	
Date	7/4/75		
Run No.	ONE		
Depth-Driller	7600		
Depth-Logger	7578		
Btm. Log Interval	7576 31.8		
Top Log Interval	6500		
Casing-Driller	7 @ 3900	@	@
Casing-Logger	3901		
Bit Size	6 1/4		
Type Fluid in Hole	GAS		
Fluid Level	--		
Dens.	Visc.	--	
pH	Fluid Los	-- ml	ml ml n
Source of Sample	--		
R _m @ Meas. Temp.	-- @ °F	@ °F	@ °F @
R _{mf} @ Meas. Temp.	-- @ °F	@ °F	@ °F @
R _{mc} @ Meas. Temp.	-- @ °F	@ °F	@ °F @
Source: R _{mf} R _{mc}	--		
R _m @ BHT	-- @ °F	@ °F	@ °F @
Time Since Circ.	20 HOURS		
Max. Rec. Temp.	183 °F	°F	°F
Equip. Location	7674 VERNAL		
Recorded By	STRAWN/WILTGEN		
Witnessed By	MR. KORITNIK/MR. SANDERS/MR. MCEACHIN		

Schlumberger

SIDEWALL
NEUTRON POROSITY LOG

COUNTY GRAND FIELD or LOCATION EAST CANYON WELL ARCO STATE 2-1 COMPANY ATLANTIC RICHFIELD COMPANY	COMPANY ATLANTIC RICHFIELD CORPORATION WELL ARCO STATE 2-1 FIELD EAST CANYON COUNTY GRAND				
Location: FSL & 991 FEL (NE SE) 2194 Sec. 2 Twp. 16S Rge. 24E		Other Services: DIL-GR 13 FDC			
Permanent Datum: GL; Elev.: 8447 Log Measured From KB, 12 Ft. Above Perm. Datum Drilling Measured From KB		Elev.: K.B. 8459 D.F. ---- G.L. 8447			
Date	7/4/75				
Run No.	ONE				
Depth-Driller	7600				
Depth-Logger	7586				
Btm. Log Interval	7580 313				
Top Log Interval	6500				
Casing-Driller	7 @ 3900	@	@	@	@
Casing-Logger	3901				
Bit Size	6 1/4				
Type Fluid in Hole	GAS				
Fluid Level	750				
Dens.	Visc.	--			
pH	Fluid Los.	--	ml	ml	ml
Source of Sample		--			
Rm @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	--			
Rm @ BHT	-- @ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	19 HOURS				
Max. Rec. Temp.	181 °F	°F	°F	°F	°F
Equip.	Location	7674	VERNAL		
Recorded By	STRAWN/WIL GEN				
Witnessed By	MR. KORITNIK / MR. SANDERS / MR. MCEACHIN				

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DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY FIELD or LOCATION WELL	GRAND SAN ARROYO STATE 2-2	COMPANY ATLANTIC RICH- FIELD	COMPANY <u>ATLANTIC RICHFIELD</u>			
			<i>PI-104</i>			
			WELL <u>STATE 2-2</u>			
			FIELD <u>SAN ARROYO</u>			
		COUNTY <u>GRAND</u>		STATE <u>UTAH</u>		
LOCATION 769 FNL, 857 FWL			Other Services: 14 FDC, CNL/GR			
Sec. <u>2</u>		Twp. <u>16S</u>		Rge. <u>24E</u>		
Permanent Datum: <u>GND LEVEL</u> , Elev. <u>7886</u>			Elev.: K.B. <u>7898.4</u>			
Log Measured From <u>KB</u> , <u>12.4</u> Ft. Above Perm. Datum			D.F. _____			
Drilling Measured From <u>KB</u>			G.L. <u>7886</u>			
Date	8/11/75					
Run No.	ONE					
Depth - Driller	3500					
Depth - Logger	3484					
Btm. Log Interval	3481 <i>28.5</i>					
Top Log Interval	288					
Casing - Driller	9 5/8@289		@	@	@	
Casing - Logger	288					
Bit Size	8 3/4					
Type Fluid in Hole	GEL FULL					
Dens.	Visc.	9.7 60				
pH	Fluid Loss	11.0 60ml		ml	ml	
Source of Sample <u>PIT</u>						
R _m @ Meas. Temp.	1.69 @ 72°F		@	°F	@ °F	
R _{mf} @ Meas. Temp.	1.26 @ 72°F		@	°F	@ °F	
R _{mc} @ Meas. Temp.	2.0 @ 72°F		@	°F	@ °F	
Source: R _{mf} R _{mc}		MEAS. CHART				
R _m @ BHT	1.15 @ 106°F		@	°F	@ °F	
Time Since Circ. <u>2 1/2</u> HOURS						
Max. Rec. Temp. <u>106</u> °F						
Equip.	Location <u>7759 4111</u>					
Recorded By <u>THOMPSON</u>						
Witnessed By <u>CLARY</u>						

The well name, location and borehole reference data were furnished by the customer.

Schlumberger

COMPENSATED
FORMATION DENSITY LOG
Gamma-Gamma

COUNTY GRAND FIELD or EAST CANYON LOCATION ANDERSON NO. 2 WELL COMPANY PEASE DRLG. CO.	COMPANY PEASE DRILLING COMPANY	
	WELL ANDERSON NO. 2	
	FIELD EAST CANYON	
	COUNTY GRAND STATE UTAH	
	Location: 1300' FSL, 1300' FWL	
Sec. 12 Twp. 16S Rge. 24E		Other Services: DIL 15 CNL-GR
Permanent Datum: GL; Elev.: 7160		Elev.: K.B. 7170
Log Measured From KB, 10 Ft. Above Perm. Datum		D.F. ---
Drilling Measured From KB		G.L. 716
Date	7-17-73	
Run No.	ONE	
Depth-Driller	6242	
Depth-Logger	6243	
Btm. Log Interval	6242 27.2	
Top Log Interval	5650	
Casing-Driller	7 @ 2451 @ @ @	
Casing-Logger	2448	
Bit Size	6-1/4	
Type Fluid in Hole	F.G.M.	
Fluid Level	FULL	
Dens.	Visc.	8.8 75
pH	Fluid Los	9.0 6.0 ml ml ml
Source of Sample	CIRC.	
R _m @ Meas. Temp.	2.03 @ 71 °F @ °F @	
R _{mf} @ Meas. Temp.	2.30 @ 71 °F @ °F @	
R _{mc} @ Meas. Temp.	---- @ -- °F @ °F @	
Source: R _{mf} R _{mc}	M --	
R _m @ BHT	1.05 @ 144 °F @ °F @	
Time Since Circ.	5 HRS.	
Max. Rec. Temp.	144 °F °F	
Equip. Location	7660 G.J.	
Recorded By	BARGHOUTI	
Witnessed By	QUIGLEY-ANDERSON	

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TEMPERATURE LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY <u>GRAND, UTAH</u> FIELD or LOCATION <u>EAST CANYON UNIT</u> WELL <u>TIDEWATER 44-21 # 1</u> COMPANY <u>TIDEWATER OIL CO.</u>	COMPANY <u>TIDEWATER OIL</u>	Location of Well
	COMPANY <u>Shenandoah</u>	SEC 12-16S-24E 1224'FSL-343'FEL 16
	WELL <u>TIDEWATER 44-21</u>	
	# <u>1</u>	
	FIELD <u>EAST CANYON UNIT</u>	
	LOCATION <u>SEC 12-16S-24E</u>	
	<u>1224'FSL-343'FEL</u>	Elevation: D.F.: 6972 K.B.: 6973 or G.L.: 6961
	COUNTY <u>GRAND</u>	
	STATE <u>UTAH</u>	FILING No. <u>Full</u>
Date <u>OCTOBER 2, 1963</u> Time Started <u>2200</u> Time Finished <u>2300</u>		
First Reading <u>5805</u> : <u>41.4</u>		
Last Reading <u>3050</u>		
Footage Measured <u>2755</u>		
Max. Depth Reached <u>5806</u>		
Bottom Driller <u>5878</u>		
Hole Size <u>6 3/4"</u>		
Casing Size <u>4 1/2"</u>		
Depth Datum <u>K.B.</u>		
Mud Data Nature <u>WATER</u> Resistivity @ <u> </u> °F		
Fluid Level <u>FULL</u>		
Max. Temp. <u>183</u>		
Cementation Data Date <u>10-2-</u> Time Started <u>0900</u> Time Finished <u>0930</u>		
Circulation Data Date <u>-</u> Time Started <u>-</u> Time Finished <u>-</u>		
A-Cement Top Determination		
1) Date Pressure Released <u>OCTOBER 2, 1963</u> Time Released <u>0930</u>		
2) Amount Cement <u>300 CU. FT.</u>		
3) Calculated Top <u>4835</u>		
4) Depth of Plug <u>5806</u>		
B-Location of Oil and Gas <u>-</u>		
1) Casing Shoe Driller <u>-</u>		
2) Date Drilling Stopped <u>SEPTEMBER 29, 1963</u> Time Stopped <u> </u>		
Truck No. <u>4529</u>		
Recorded By <u>WARNER</u>		
Witnessed By <u>TUFFLY</u>		

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INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND FIELD or LOCATION EAST CANYON UNIT WELL TIDEWATER COMPANY TIDEWATER OIL CO.	COMPANY TIDEWATER OIL COMPANY <hr/> WELL ²¹⁷ TIDEWATER 44-12 NO. 1 FIELD EAST CANYON UNIT COUNTY GRAND STATE UTAH <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> 1224' FSL 343' FEL Sec. 12 Twp. 16S Rge. 24E </div> <div style="width: 35%;"> Other Services: S-GR <input checked="" type="checkbox"/> FDL S-A 16 </div> </div>				
Permanent Datum: GROUND LEVEL; Elev. 6961 Log Measured From K.B. 12 Ft. Above Perm. Datum Drilling Measured From K.B.					
Elev.: K.B. 6973 D.F. 6972 G.L. 6961					
Date	9-29-63				
Run No.	ONE				
Depth-Driller	5905				
Depth-Logger	5908				
Btm. Log Interval	5907 32.7				
Top Log Interval	2246				
Casing-Driller	7 5/8 @ 2243	@	@	@	@
Casing-Logger	2246				
Bit Size	6 3/4"				
Type Fluid in Hole	CHEMICAL & GEL				
Dens.	9.2	50			
pH	Fluid Loss	6.6 ml	ml	ml	ml
Source of Sample	PIT				
R _m @ Meas. Temp.	1.7 @ 68 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.7 @ 70 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.9 @ 69 °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS PRESS				
R _m @ BHT	0.74 @ 157 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HOURS				
Max. Rec. Temp.	157 °F	°F	°F	°F	°F
Equip. Location	4529 VERNAL				
Recorded By	WARNER				
Witnessed By	YOUNG & TUFFLY				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Temperature Log

COUNTY GRAND FIELD or LOCATION WILDCAT LOCATION EAST CANYON WELL FEDERAL # 2 COMPANY THE SHAMROCK OIL & GAS COMPANY	COMPANY	THE SHAMROCK OIL AND GAS COMPANY	Location of Well 18 Elevation: D.F.: 6603 K.B.: 6605 or G.L.: 6544
	WELL	EAST CANYON FEDERAL # 2	
	FIELD	WILDCAT	
	LOCATION	SEC. 24-16S-24E 1672' FNL 2340' FEL	
	COUNTY	GRAND	FILING No. 18
	STATE	UTAH	

Date 1-16-62 Time Started 1800 Time Finished 1930
 First Reading 6275 34.9
 Last Reading 4520
 Footage Measured 1755
 Max. Depth Reached 6276
 Bottom Driller 6280
 Hole Size 7 7/8"
 Casing Size 9 5/8"
 Depth Datum KB
 Mud Data Nature AIR Resistivity @ °F --
 Fluid Level
 Max. Temp. 1.71
 Cementation Data - Date -- Time Started --- Time Finished ---
 Circulation Data - Date -- Time Started --- Time Finished ---
 A-Cement Top Determination --
 1) Date Pressure Released -- Time Released --
 2) Amount Cement --
 3) Calculated Top --
 4) Depth of Plug --
 B-Location of Oil and Gas 6154 BOTTOM OF GAS
 1) Casing Shoe Driller --
 2) Date Drilling Stopped 1-16-62 Time Stopped 0300
 Truck No. 2517 VERNAL
 Recorded By LEDY
 Witnessed By ROWELL & ISBELL

SCHLUMBERGER

INDUCTION

LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL EAST CANYON FEDERAL # 2 COMPANY THE SHAMROCK OIL AND GAS COMPANY	COMPANY	THE SHAMROCK OIL AND GAS COMPANY	Other Surveys GRN T Location of Well <i>Water sand 18</i> <i>422'</i> Elevation: D.F.: 6603 K.B.: 6605 or G.L.: 6594 FILING No. _____
	WELL	EAST CANYON FEDERAL # 2	
	FIELD	WILDCAT	
	LOCATION	SEC. 24-16S-24E 1672' FNL 2340' FEL	
	COUNTY	GRAND	
STATE	UTAH		

RUN No.	ONE				
Date	1-16-62				
First Reading	6270 <i>44.4</i>				
Last Reading	5050				
Feet Measured	1220				
Csg. Schlum.	----	<i>13 7/8 @ 220</i>	<i>9 7/8 2070</i>	<i>5 1/2 6250</i>	
Csg. Driller	2070				
Depth Reached	6276				
Bottom Driller	6280				
Depth Datum	KB				
Mud Nat.	AIR				
Dens. Visc.	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
Mud Resist.	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	-- @ 170 °F	@ °F	@ °F	@ °F	@ °F
Rmf	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
Rmc	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	-- --				
MN	-- --				
IND.	5FF40				
Opr. Rig Time	2 HOURS				
Truck No.	2515 V				
Recorded By	LEDY				
Witness	ROWELL & ISBELL				

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INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL GIBBS #1-29 COMPANY EQUITY OIL COMPANY	COMPANY	RIP C. UNDERWOOD	Other Surveys
	WELL	FEDERAL GIBBS # 1-29	SL-C
	FIELD	WILDCAT	Location of Well SEC 29-16S-24E 367' SNL- 2282' EWL 19
	LOCATION	SEC 29-16S-24E 367' SNL-2282' EWL	Elevation: K.B.: 6520 D.F.: or G.L.: 6506
	COUNTY	GRAND	FILING No.
	STATE	UTAH	

RUN No.	ONE	TWO			
Date	9-23-62	10-5-62			
First Reading	2259 ^{33.1}	6602			
Last Reading	188	2259 ^{26.0}			
Feet Measured	2071	4343			
Csg. Schlum.	188	2259			
Csg. Driller	188	2259			
Depth Reached	2260	6603			
Bottom Driller	2259	6600			
Depth Datum	K.B.	K.B.			
Mud Nat.	CHEM-GEL	GEL-CHEM			
Dens. Visc.	9.7 65	9.5 50			
Mud Resist.	2.3 @ 87°F	1.7 @ 70°F	@ °F	@ °F	@ °F
" Res. BHT	2.15 @ 92°F	0.8 @ 145°F	@ °F	@ °F	@ °F
Rmf	1.66 @ 80°F	1.3 @ 71°F	@ °F	@ °F	@ °F
Rmc	2.2 @ 87°F	1.1 @ 145°F	@ °F	@ °F	@ °F
" pH	-- @ -- °F	-- @ -- °F	@ °F	@ °F	@ °F
" Wtr. Loss	14 CC30 min.	-- CC30 min.	CC30 min.	CC30 min.	CC30 min.
Bit Size	12 1/4"	7 7/8"			
Spcgs.—AM	16"	16"			
MN	34'6"	34'6"			
IND.	6FF40	6FF40			
Opr. Rig Time	1 1/2 HRS	2 HRS			
Truck No.	3529 G.J.	3529 G.J.			
Recorded By	CLAYTON	MONTGOMERY			
Witness	KREY	ROWDEN & KREY			

SCHLUMBERGER

UNLOGGED COMPENSATED
SONG LOG - GAMMA RAY

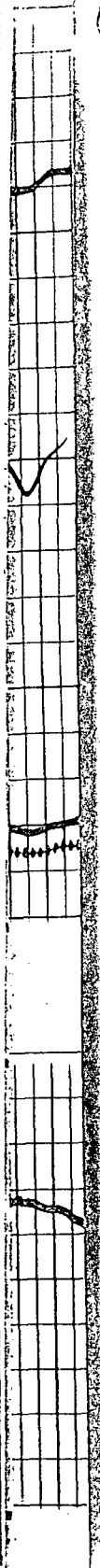
COUNTY GRAND FIELD or LOCATION WILDCAT WELL PEASE M-6 COMPANY W. PEASE DRILLING	COMPANY WILLARD PEASE DRILLING COMPANY	
	WELL PEASE M-6	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION NE SE		Other Services: IES 20
Sec. 32 Twp. 16 S Rge. 24 E		

Permanent Datum: GL, Elev. 6968	Elev.: K.B. 6974
Log Measured From KB, 6 Ft. Above Perm. Datum	D.F. 6973
Drilling Measured From KB	G.L. 6968

Date	1-1-69				
Run No.	ONE				
Depth—Driller	6261				
Depth—Logger	6261				
Btm. Log Interval	6259 26.4				
Top Log Interval	1700				
Casing—Driller	7" @ 2500	@	@	@	@
Casing—Logger	2498				
Bit Size	6 1/8				
Type Fluid in Hole	FGM				
Dens.	8.8	45			
Visc.					
pH	---	---	ml	ml	ml
Fluid Loss					
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	1.70 @ 72 °F	@	@	@	@
R _{mf} @ Meas. Temp.	1.25 @ 72 °F	0.60 @ 150 °F	@	@	@
R _{mc} @ Meas. Temp.	--- @ --- °F	1.20 @ 150 °F	@	@	@
Source: R _{mf} R _{mc}	M C				
R _m @ BHT	0.80 @ 72 °F	@	@	@	@
Time Since Circ.	6 HOURS				
Max. Rec. Temp.	150 °F	°F	°F	°F	°F
Equip. Location	4544 VERNAL				
Recorded By	PROBST				
Witnessed By	LANG				

LUMBERGER INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL PEASE M-6 COMPANY W. PEASE DRILLING	COMPANY WILLARD PEASE DRILLING COMPANY		
	WELL PEASE M-6		
	FIELD WILDCAT		
	COUNTY GRAND		STATE UTAH
LOCATION NE SE		Other Services: BHC-GR 20	
Sec. 32 Twp. 16 S Rge. 24 E			
Permanent Datum: GI, Elev. 6968		Elev.: K.B. 6974	
Log Measured From KB, 6 Ft. Above Perm. Datum		D.F. 6973	
Drilling Measured From KB		G.I. 6968	
Date	1-1-69		
Run No.	ONE		
Depth—Driller	6261 28.8		
Depth—Logger	6261		
Btm. Log Interval	6260		
Top Log Interval	2498		
Casing—Driller	7" @ 2500 @ @ @		
Casing—Logger	2498		
Bit Size	6 1/8		
Type Fluid in Hole	FGM		
Dens.	Visc.	8.8 45	
pH	Fluid Loss	--- --- ml ml ml ml	
Source of Sample	FLOWLINE		
R _m @ Meas. Temp.	1.70 @ 72 °F @ °F @ °F @ °F		
R _{mf} @ Meas. Temp.	1.25 @ 72 °F 0.60 @ 150 °F @ °F @ °F		
R _{mc} @ Meas. Temp.	--- @ --- °F 1.20 @ 150 °F @ °F @ °F		
Source: R _{mf} R _{mc}	M C		
R _m @ BHT	0.80 @ 150 °F @ °F @ °F @ °F		
Time Since Circ.	3 HOURS		
Max. Rec. Temp.	150 °F °F °F °F		
Equip. Location	4544 VERNAL		
Recorded By	PROBST		
Witnessed By	LANG		



SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog
WITH GAMMA RAY

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL EAST CANYON FEDERAL #1 COMPANY THE SHAMROCK OIL & GAS CORP.	COMPANY THE SHAMROCK OIL & GAS CORP.	Other Surveys MICROLATEROLOG
	WELL EAST CANYON FEDERAL #1	Location of Well 2) 1300'S OF N & 2100' W OF E
	FIELD WILDCAT	
	LOCATION SEC. 35-16S-24E	
	COUNTY GRAND	Elevation: K.B.: 6192'
	STATE UTAH	D.F.: 6191'
		or G.L.: 6184'

Log Depths Measured From KB 8 Ft. above GL

RUN No.	ONE LATEROLOG	ONE GR.	
Date	12-3-59	12-3-59	
First Reading	6032 46.2	6029	
Last Reading	1361	50	
Feet Measured	4661	5979	
Csg. Schlum.	1361	1361	
Csg. Driller	1357	1357	
Depth Reached	6036	6036	
Bottom Driller	6030	6030	
Mud Nat.	SALT GEL	-	
Dens. Visc.	8.8 54	-	
Mud Resist.	0.2 @ 63 °F	- @ °F	@ °F
" Res. BHT	0.07 @ 184 °F	- @ °F	@ °F
" pH	- @ °F	- @ °F	@ °F
" Wtr. Loss	- CC 30 min	- CC 30 min	CC 30 min
" Rmf	0.065 @ 184 °F	- @ °F	@ °F
" Rmc	- @ °F	- @ °F	@ °F
Bit Size	9" CSG TO 1720'	7 7/8" TO TD	
Laterolog 3	a= ;L=	a= ;L=	a= ;L=
Laterolog 7	a= ;n=	a= ;n=	a= ;n=
Opr. Rig Time	4 HOURS	3 HOURS	
Truck No.	1559 FARM	1559 FARM	
Recorded By	WOOD	WOOD	
Witness	MR. THOMAS	MR. THOMAS	

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165 - 25E

SCHLUMBERGER

INDUCTION - ELECTRICAL

COUNTY <u>GRAND</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>BITTER CREEK # 2</u> COMPANY <u>ATLANTIC RICHFIELD</u>	COMPANY <u>ATLANTIC RICHFIELD COMPANY</u>		
	WELL <u>BITTER CREEK NO. 2</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>585' FNL & 2410' FEL</u>		Other Service 22 FDC-GR	
Sec. <u>2</u> Twp. <u>16S</u> Rge. <u>25E</u>			
Permanent Datum: <u>GI</u> , Elev. <u>8417</u>		Elev.: ⁸⁴²⁸ K.B. <u>84</u>	
Log Measured From <u>KB</u> , <u>11</u> Ft. Above Perm. Datum		D.F. <u>-</u>	
Drilling Measured From <u>KB</u>		G.L. <u>8</u>	
Date	8-10-71		
Run No.	ONE		
Depth—Driller	8289		
Depth—Logger	8291		
Btm. Log Interval	8290 <u>23.4</u>		
Top Log Interval	3850		
Casing—Driller	7" @ 3850 @ @ @		
Casing—Logger	3850		
Bit Size	6 1/4"		
Type Fluid in Hole	GEL-CHEM		
Dens.	Visc.	9.3 44	
pH	Fluid Loss	9.0 5.6 ml	ml ml
Source of Sample	FLOWLINE		
R _m @ Meas. Temp.	1.45 @75 °F	@ °F	@ °F @
R _{mf} @ Meas. Temp.	1.22 @78 °F	@ °F	@ °F @
R _{mc} @ Meas. Temp.	1.1 @75 °F	@ °F	@ °F @
Source: R _{mf} R _{mc}	M C		
R _m @ BHT	0.64 @171 °F	@ °F	@ °F @
Time Since Circ.	6 HRS.		
Max. Rec. Temp.	171 °F	°F	°F
Equip. Location	5616 VERNAL		
Recorded By	K. FARR		
Witnessed By	MR. E. SANDERS		

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BITTER CREEK NO. 1 COMPANY SINCLAIR OIL & GAS	COMPANY <u>SINCLAIR OIL AND GAS COMPANY</u>	
	WELL <u>BITTER CREEK NO. 1</u>	
	FIELD <u>WILDCAT</u>	
	COUNTY <u>GRAND</u>	STATE <u>UTAH</u>
	LOCATION <u>395' SNL & 2530' EWL</u> 15 Sec. <u>2</u> Twp. <u>16S</u> Rge. <u>25E</u>	

Other Services: **2.3**
 SLC-GR
 FDC

Permanent Datum: <u>GL</u> , Elev. <u>7375</u>	Elev.: K.B. <u>--</u>
Log Measured From <u>GL</u> , <u>0</u> Ft. Above Perm. Datum	D.F. <u>--</u>
Drilling Measured From <u>GL</u>	G.L. <u>7375</u>

Date	7-7-68							
Run No.	ONE							
Depth—Driller	6655							
Depth—Logger	6644							
Btm. Log Interval	6643 ^{30.4}							
Top Log Interval	2517							
Casing—Driller	7" @ 2512	@	@	@	@	@		
Casing—Logger	2517							
Bit Size	6 1/4"							
Type Fluid in Hole	FGM							
Dens.	Visc.	9.1	42					
pH	Fluid Loss	9.0	5.8ml	ml	ml	ml		
Source of Sample		FLOW LINE						
R _m @ Meas. Temp.	1.85 @ 68 °F	@	°F	@	°F	@	°F	
R _{mf} @ Meas. Temp.	1.55 @ 68 °F	0.64 @ 162 °F	@	°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	-- @ -- °F	0.95 @ 162 °F	@	°F	@	°F	@	°F
Source: R _{mf}	R _{mc}	M	C					
R _m @ BHT	0.8 @ 162 °F	@	°F	@	°F	@	°F	
Time Since Circ.	3 HOURS							
Max. Rec. Temp.	162 °F	@	°F	@	°F	@	°F	
Equip. Location	4544/VERNAL							
Recorded By	PROBST							
Witnessed By	PARKER							

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction Log

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <i>TIDEWATER OIL CO.</i>	Other Surveys <i>None</i>
	WELL <i>EAST CANYON UNIT * 1-8</i> FIELD <i>EAST CANYON MOUNTAIN CEDAR</i> LOCATION <i>SEC 8-16S-25E</i> <i>SE NE SW</i>	Location of Well <i>24</i> <i>1508' FLS</i> <i>2535' FWL</i> <i>Utah</i> <i>046 CC</i>
COUNTY <i>GRAND</i> STATE <i>UTAH</i>		FILING No.

RUN No.	<i>012</i>								
Date	<i>8-26-63</i>								
First Reading	<i>5940</i>	<i>23.3</i>							
Last Reading	<i>3329</i>								
Feet Measured	<i>2611</i>								
Csg. Schlum.	<i>3329</i>								
Csg. Driller	<i>3330</i>								
Depth Reached	<i>5941</i>								
Bottom Driller	<i>5942</i>								
Depth Datum	<i>K.B.</i>								
Mud Nat.	<i>GEL-CHEM</i>								
Dens. Visc.	<i>8.9 47</i>								
Mud Resist.	<i>2.18 @ 59°F</i>	@	F	@	F	@	F	@	F
Res. BHT	<i>1.05 @ 127°F</i>	@	F	@	F	@	F	@	F
Rmf	<i>0.8 @ 127°F</i>	@	F	@	F	@	F	@	F
Rmc	<i>1.2 @ 127°F</i>	@	F	@	F	@	F	@	F
pH	<i>9.0 @ °F</i>	@	F	@	F	@	F	@	F
Wtr. Loss	<i>— CC 30 min.</i>	CC 30 min.		CC 30 min.		CC 30 min.		CC 30 min.	
Bit Size	<i>6 3/4"</i>								
Spcgs.	<i>AM</i>								
IND.	<i>16"</i>								
	<i>6FF40</i>								
Opr. Rig Time	<i>2 HRS.</i>								
Truck No.	<i>2598 G.J.</i>								
Recorded By	<i>Murtagh</i>								

SCHLUMBERGER

GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY FIELD or LOCATION WELL COMPANY	GRAND, UTAH WILDCAT WESTBIT UNIT #2 BELCO PETROLEUM CORPORATION	COMPANY <u>BELCO PETROLEUM CORPORATION</u>					
		WELL <u>WESTBIT UNIT # 2</u> <u>14</u>					
		FIELD <u>WILDCAT</u> <u>see well # 1</u>					
		COUNTY <u>GRAND</u> STATE <u>UTAH</u>					
Location:		<u>2475'FWL - 1270'FSL</u>			Other Services: <u>25</u> IND., TEMP.		
Sec. <u>9</u> Twp. <u>16S</u> Rge. <u>5</u> <u>24E</u>						<u>HTM</u>	
Permanent Datum: <u>G.L.</u> ; Elev.: <u>7427</u>		Elev.: K.B. <u>7437</u>					
Log Measured From <u>K.B.</u> , 10 Ft. Above Perm. Datum		D.F. <u>7436</u>					
Drilling Measured From <u>K.B.</u> <u>37</u>		G.L. <u>7427</u>					
Date	<u>7-30-62</u>						
Run No.	<u>ONE</u>						
Type Log	<u>GRN</u>		<u>Dakota - (5905)</u>				
Depth—Driller	<u>6152</u>		<u>Colv. M.F.W. - (6732)</u>				
Depth—Logger	<u>6157</u>						
Bottom logged interval	<u>6156</u> <u>32.3</u>						
Top logged interval	<u>100</u>						
Type fluid in hole	<u>DRY GAS</u>						
Salinity, PPM Cl.	<u>---</u>						
Density	<u>---</u>						
Level	<u>---</u>						
Max rec. temp., deg F.	<u>160</u>						
Operating rig time	<u>3 1/2 HOURS</u>						
Recorded by	<u>WOOD</u>						
Witnessed by	<u>MR. BASS</u>						
RUN		BORE-HOLE RECORD			CASING RECORD		
No.	Bit	From	To	Size	Wgt.	From	To
<u>1</u>	<u>6 1/4</u>	<u>CSG</u>	<u>T.D.</u>	<u>7"</u>	<u>-</u>	<u>SURFACE</u>	<u>2475</u>



INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION OVERLOOK WELL FEDERAL GILBERT NO. 1 COMPANY ATLANTIC RICHFIELD	COMPANY	ATLANTIC RICHFIELD		
	WELL	FEDERAL GILBERT NO. 1		
	FIELD	OVERLOOK		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	1700' FNL & 1830' FEL		Other Services: FDC-GR 26
Sec. 11 Twp. 16S Rge. 25E	7			

Permanent Datum:	GL	Elev. 7001	Elev.: K.B. 7011
Log Measured From	KB	10 Ft. Above Perm. Datum	D.F.
Drilling Measured From	KB		G.L. 7001

Date	2-6-72					
Run No.	TWO					
Depth—Driller	6200					
Depth—Logger	6199					
Btm. Log Interval	6198.30.0					
Top Log Interval	4600					
Casing—Driller	7"	@ 2180	@	@	@	@
Casing—Logger	---					
Bit Size	6 1/4"					
Type Fluid in Hole	FRESH GEL					
	MUD					
Dens.	Visc.	9.2	40			
pH	Fluid Loss	12	6.4 ml	ml	ml	n
Source of Sample	PIT					
R _m @ Meas. Temp.	0.83 @ 77 °F	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.77 @ 76 °F	= 0.32 @ 153 °F	PIT	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ -- °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M	--				
R _m @ BHT	0.42 @ 153 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HRS.					
Max. Rec. Temp.	153 °F	°F	°F	°F	°F	°F
Equip. Location	5640 VERNAL					
Recorded By	MIXA					
Witnessed By	MR. BINKLEY					

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION SAN ARROYO WELL #1 FEDERAL COMPANY SINCLAIR OIL & GAS	COMPANY <u>SINCLAIR OIL & GAS COMPANY</u>		
	WELL <u>#1 FEDERAL - GILBERT</u>		
	FIELD <u>SAN ARROYO</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>1700' FNL - 1830' FEL</u>		Other Services: <u>26</u>	
Sec. <u>11</u> Twp. <u>16S</u> Rge. <u>25E</u>		ML	
Permanent Datum: <u>G.L.</u> , Elev. <u>7001</u>		Elev.: K.B. <u>-</u>	
Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum		D.F. <u>-</u>	
Drilling Measured From <u>G.L.</u>		G.L. <u>7001</u>	
Date	7-3-65		
Run No.	ONE		
Depth—Driller	5800		
Depth—Logger	5804		
Btm. Log Interval	5803 <u>30.5</u>		
Top Log Interval	2168		
Casing—Driller	7" @ 2170	@ @ @	
Casing—Logger	2168		
Bit Size	6 1/4"		
Type Fluid in Hole	GEL		
Dens.	8.5	50	
pH	Fluid Loss	- ml ml ml ml	
Source of Sample	FLOW LINE		
R _m @ Meas. Temp.	3.76 @ 83 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	2.36 @ 83 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	FP A-4		
R _m @ BHT	2.0 @ 148 °F	@ °F	@ °F
Time Since Circ.	2 HOURS		
Max. Rec. Temp.	148 °F	°F	°F
Equip.	Location	2598 G.J.	
Recorded By	HANDLEY		
Witnessed By	MC DONALD		

FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION SAN ARROYO WELL NORTON #1 COMPANY BENSON, MONTIN & GREER	COMPANY BENSON, MONTIN & GREER	Other Surveys SL
	WELL NORTON #1	Location of Well SEC. 13-16S-25E 1829'SNL 593'EWL
	FIELD SAN ARROYO	Elevation: D.F.: K.B.: 6481 or G.L.: 6472
	LOCATION SEC. 13-16S-25E 1829'SNL-593'EWL	FILING No. 27
	COUNTY GRAND STATE UTAH	

RUN No.	ONE -ES		ONE -IGR		
Date	7-6-60		7-18-60		
First Reading	1540 ^{72.2}		5534		
Last Reading	90		1540		
Feet Measured	1450		3994		
Csg. Schlum.	---		1472		
Csg. Driller	---		1470		
Depth Reached	1541		5540		
Bottom Driller	1543		5538		
Depth Datum	KB-9' ABOVE GL		KB-9' ABOVE GL		
Mud Nat.	GEL		EMPTY		
Dens. Visc.	9.6 50		-- --		
Mud Resist.	2.1 @ 80°F	@ °F	-- @ -- °F	@ °F	@ °F
" Res. BHT	1.6 @ 112°F	@ °F	-- @ -- °F	@ °F	@ °F
Rmf	-- @ -- °F	@ °F	-- @ -- °F	@ °F	@ °F
Rmc	-- @ -- °F	@ °F	-- @ -- °F	@ °F	@ °F
" pH	9.5 @ °F	@ °F	-- @ °F	@ °F	@ °F
" Wtr. Loss	11.0 CC 30 min.	CC 30 min.	-- CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	1 1/2" - 1377	7 7/8" - TD6	3/4"		
Spcgs.—AM	16"	IND	5FF40		
AM'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR		2 HRS		
Truck No.	1523 GJ		1523 GJ		
Recorded By	RUSEN		COVEY		
Witness	STANLEY		STANLEY		

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Temperature Log

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Tidewater Oil
Co Sherandoah
WELL Federal-East Canyon
Unit # 1-17
FIELD East Canyon Cedar MTN
LOCATION Sec 17-16S-25E
1534.7/N 2012.2/W
COUNTY Grand
STATE Utah

Location of Well

Elevation: D.F.: 8300
K.B.:
or G.L.: 8289

FILING No. 28

Date 7-12-67 Time Started 1400 Time Finished 1500
First Reading 3213 34.3
Last Reading 1000
Footage Measured 2213
Max. Depth Reached 3214
Bottom Driller 3216
Hole Size 9 7/8
Casing Size 7 5/8
Depth Datum KB
Fluid Nature Water Resistivity @ °F
Fluid Level Full
Max. Temp. 111.5

Permeation Data Date 7-12-63 Time Started 0400 Time Finished 0500
Circulation Data Date _____ Time Started _____ Time Finished _____

A-Cement Top Determination

- 1) Date Pressure Released 7-12-63 Time Released 0500
- 2) Amount Cement 200 Sacks Neat
- 3) Calculated Top 2400
- 4) Depth of Plug 3216

B-Location of Oil and Gas

- 1) Casing Shoe Driller _____
- 2) Date Drilling Stopped _____ Time Stopped _____

Truck No. 4529
Recorded By Hamilton
Witnessed By Toffly

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Temperature Log

COUNTY <u>GRAND, UTAH</u> FIELD or LOCATION <u>EAST CANYON CEDAR MOUNTAIN</u> WELL <u>EAST CANYON UNIT #1-17</u> COMPANY <u>TIDEWATER OIL CO.</u>	COMPANY <u>TIDEWATER OIL</u> COMPANY <u>Shenandoah</u> WELL <u>FEDERAL - EAST</u> <u>CANYON UNIT #1-17</u> FIELD <u>EAST CANYON CEDAR MTN.</u> LOCATION <u>SEC. 17-16S-25E</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u>	Location of Well <u>1534.7' FNL</u> <u>2012.2' FWL</u> PDC - <u>CCL</u> Elevation: DF. <u>8301'</u> K.B.: <u>8302'</u> or G.L.: <u>8289'</u> FILING No. <u>28</u>
--	---	--

Date <u>7-24-63</u>	Time Started <u>1400</u>	Time Finished <u>1730</u>
First Reading <u>6785</u>	<small>30.6</small>	<u>HL</u>
Last Reading <u>4050</u>		
Footage Measured <u>2735</u>		
Max. Depth Reached <u>6786</u>		
Bottom Driller <u>6856</u>		
Hole Size <u>9 7/8" - CSG. TO 3281'; 6 3/4" - 3281' TO T.D.</u>		
Casing Size <u>7 5/8"</u>		
Depth Datum <u>K.B. (13' ABOVE G.L.)</u>		
Mud Data - Nature <u>WATER</u>	Resistivity <u>- @ - F -</u>	
Fluid Level <u>300 APPROX.</u>		
Max. Temp. <u>165° F.</u>		
Cementation Data Date <u>7-23</u>	Time Started <u>1400</u>	Time Finished <u>1700</u>
Circulation Data Date <u>-</u>	Time Started <u>-</u>	Time Finished <u>-</u>
A-Cement Top Determination <u>--</u>		
1) Date Pressure Released <u>7-2</u>	Time Released <u>--</u>	
2) Amount Cement <u>--</u>		
3) Calculated Top <u>--</u>		
4) Depth of Plug <u>6856</u>		
B-Location of Oil and Gas <u>--</u>		
1) Casing Shoe Driller <u>--</u>		
2) Date Drilling Stopped <u>--</u>	Time Stopped <u>-</u>	
Truck No. <u>2598 GRAND JUNCTION</u>		
Recorded By <u>WOOD</u>		
Witnessed By <u>MR. TUFLY</u>		

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION E. CANYON CEDAR MT WELL FEDERAL-EAST CANYON UNIT #1-17 COMPANY TIDEWATER OIL CO.	COMPANY TIDEWATER OIL COMPANY
	WELL FEDERAL-EAST CANYON UNIT # 1-17
	FIELD EAST CANYON CEDAR MOUNTAIN
	COUNTY GRAND STATE UTAH
LOCATION 1534.7' FNL-2012.2' FWL	Other Services: 28
Sec. 17 Twp. 16S Rge. 25E	FDL-GR

Permanent Datum: G.L., Elev. 8289	Elev.: K.B. 8302
Log Measured From K.B., 13 Ft. Above Perm. Datum	D.F. 8301
Drilling Measured From K.B.	<i>Per</i> G.L. 8289

Date	7-22-63			
Run No.	ONE			
Depth—Driller	6880			
Depth—Logger	6887			
Btm. Log Interval	6886 23.6			
Top Log Interval	3285			
Casing—Driller	7 5/8@ 3281	@	@	@
Casing—Logger	3285			
Bit Size	6 3/4"			
Type Fluid in Hole	CHEMICAL GEL.			
Dens.	8.6	55		
pH	9.0	5.8 ml	ml	ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	1.83 @ 73 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.54 @ 75 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.8 @ 72 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS PRESS			
R _m @ BHT	0.94 @ 140 °F	@ °F	@ °F	@ °F
Time Since Circ.	3 1/2 HOURS			
Max. Rec. Temp.	140 °F	°F	°F	°F
Equip. Location	2598 G.J.			
Recorded By	WARNER			
Witnessed By	MOBLEY			

FOLD HERE

BOREHOLE COMPENSATED

Schlumberger

SONIC LOG

COUNTY GRAND FIELD WILDCAT LOCATION NE/SW WELL FEDERAL 1-20 COMPANY NATURAL GAS CALIF	COMPANY NATURAL GAS CORP OF CALIFORNIA WELL FEDERAL 1-20 FIELD WILDCAT COUNTY GRAND STATE UTAH LOCATION NE/SW 2264FSL 1921FEL API SERIAL NO. SEC. TWP RANGE 20 16S 25E Other Services: DIL TAPING 339 Permanent Datum: GL; Elev.: 7285 Log Measured From KB 11 Ft. Above Perm. Datum Drilling Measured From KB Elev.: K.B. 7296 D.F. - G.L. 7285
TIME Circulation Stopped Logger on Bottom Max. Rec. Temp. Equip. Location Recorded By Witnessed By Mr.	Date 1-20-79 Run No. ONE Depth-Driller 6462 Depth-Logger (Schl.) 6468 Btm. Log Interval 6456 30.8 Top Log Interval 2926 Casing-Driller 7" @ 2920 @ @ @ Casing-Logger 2926 Bit Size 6 1/2 Type Fluid in Hole GEL-CHEM Dens. Visc. 9.5 59 pH Fluid Loss 10.0 6 ml ml ml ml Source of Sample MUDTANK Rm @ Meas. Temp. 2.09 @ 60F @ °F @ °F @ °F Rmf @ Meas. Temp. 1.6 @ 60F @ °F @ °F @ °F Rmc @ Meas. Temp. 3.14 @ 60F @ °F @ °F @ °F Source: Rmf Rmc C C Rm @ BHT .84 @ 160F @ °F @ °F @ °F Circulation Stopped 0300 Logger on Bottom 2100 Max. Rec. Temp. 160F °F °F °F Equip. Location 7726 G.J. Recorded By OLSON Witnessed By Mr. LANGMAN

SWS-1284-K

The well name, location and borehole reference data were furnished by the customer. FOLD HERE



MILLINGTON

SCINTILLOMETER

NUCLEAR

GAMMA RAY-NEUTRON LOG

FILING NO. R-6398

COMPANY SINCLAIR OIL & GAS CO.

WELL SAN ARROYO #6

FIELD SAN ARROYO

COUNTY GRAND STATE UTAH

LOCATION:

OTHER SERVICES:

29

SW - NE

SEC. 21 TWP. 16S RGE. 25E

ELEVATIONS:

PERMANENT DATUM GROUND LEVEL ELEV. 7595'

KB. --

LOG MEASURED FROM G.L. -- FT. ABOVE PERMANENT DATUM

DF. 7602'

DRILLING MEASURED FROM G.L.

GL. 7595'

DATE	10-1-61		
RUN NO.	1		
TYPE LOG	GAMMA-NEUTRON		
DEPTH--DRILLER	6575' (6542' P.D.)		
DEPTH--LOGGER	6532'		
BOTTOM LOGGED INTERVAL	6530' 26.2		
TOP LOGGED INTERVAL	5700'		
TYPE FLUID IN HOLE	MUD		
SALINITY PPM CL.	--		
DENSITY LB./GAL.	--		
LEVEL	FULL		
MAX. REC. TEMP. DEG. F	145°		
OPR. RIG TIME	1 1/2 HRS.		
RECORDED BY	MANNING		
WITNESSED BY	MR. J. TAYLOR		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	--	--	--	5 1/2"	155#	0'	6574'
2	7-7/8	626'	6574'				

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston Texas

COUNTY GRAND, UTAH FIELD or LOCATION SAN ARROYO WELL SAN ARROYO UNIT # 29 COMPANY SINCLAIR OIL & GAS	COMPANY	SINCLAIR OIL & GAS COMPANY				
	WELL	SAN ARROYO UNIT # 29				
	FIELD	SAN ARROYO				
	COUNTY	GRAND	STATE	UTAH		
	LOCATION	NE - NE 1300' FNL - 195' FEL		Other Services: 31		
Sec.	22	Twp.	16S	Rge.	25E	ML

Permanent Datum:	G.L.	Elev.	6844	Elev.: K.B.	-
Log Measured From	G.L.	0	Ft. Above Perm. Datum	D.F.	-
Drilling Measured From	G.L.			G.L.	6844

Date	4-6-65				
Run No.	ONE				
Depth—Driller	5200				
Depth—Logger	5200				
Btm. Log Interval	5199	211			
Top Log Interval	329				
Casing—Driller	9 5/8@	329	@	@	@
Casing—Logger	329				
Bit Size	8 3/4"				
Type Fluid in Hole	GEL - CHEMICAL				
Dens.	9.1	60			
pH	Fluid Loss	-	5.4 ml	ml	ml
Source of Sample	FLOW LINE				
R _m @ Meas. Temp.	1.22 @	74°F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.00 @	65°F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.52 @	74°F	@ °F	@ °F	@ °F
Source: R _{mf}	R _{mc}	PRESS	PRESS		
R _m @ BHT	0.7 @	130°F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS				
Max. Rec. Temp.	130	°F	°F	°F	°F
Equip.	Location	2598	G. J.		
Recorded By	MONTGOMERY				
Witnessed By	FISHER				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION SAN ARROYA LOCATION SAN ARROYA # 3 WELL COMPANY SINCLAIR OIL & GAS	COMPANY SINCLAIR OIL AND GAS COMPANY WELL SAN ARROYA # 3 FIELD SAN ARROYA LOCATION SEC 23 16S 25E 5 1434 N/L 1429 W/L COUNTY GRAND STATE UTAH	Location of Well 1425 1434 N/L 1429 W/L 1480 ES (YML) Note Cont 7-18-36 Elevation: D.F.: 6470 K.B.: or G.L.: 5461 6474 FILING No. 32
---	--	---

RUN No.	ONE				
Date	5/26-27/56				
First Reading	5544	36.2			
Last Reading	653				
Feet Measured	4391				
Csg. Schlum.	653				
Csg. Driller	650				
Depth Reached	5545				
Bottom Driller	5541				
Depth Datum	GL 9' BELOW DF				
Mud Nat.	GEL				
" Density	9.3				
" Viscosity	72				
" Resist.	1.9 @ 53 F	@ F	@ °F	@ °F	@ °F
" Res. BHT	0.7 @ 158 F	@ F	@ °F	@ °F	@ °F
" pH	@ F	@ F	@ °F	@ °F	@ °F
" Wtr. loss	5.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	158				
Bit Size	3 3/4				
Spcgs.—AM	16"				
AM'	64"				
AO	18' 8"				
Opr. Rig Time	2 HRS.				
Truck No.	2791 CRTZ				
Recorded By	CHAMBLISS				
Witnessed By	COLBY				

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(WITH PAPER)

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY FIELD or LOCATION WELL COMPANY	GRAND UTAH SAN ARROYO SAN ARROYO # 12 SINCLAIR OIL AND GAS COMPANY	COMPANY SINCLAIR OIL AND GAS COMPANY	Other Surveys I-ES
		WELL SAN ARROYO # 12	Location of Well SEC 23-16S-25E 1140'FSL - 1220'FWL
		FIELD SAN ARROYO	33
		LOCATION SEC 23-16S-25E 1140'FSL-1220'FWL	
		COUNTY GRAND	Elevation: K.B.: D.F.: or G.L.: NA
		STATE UTAH	

Log Depths Measured From	G.L.	Ft. above
RUN No.	ONE	
Date	OCTOBER 8, 1962	
First Reading	5132 ^{30.5}	
Last Reading	4400	
Feet Measured	732	
Depth Reached	5133	
Bottom Driller	5150	
Mud Nat.	GEL-OIL	
Dens. Visc.	9.2 52	
Mud Resist.	4.2 70	F
Res. BHT	2.2 137	F
pH	7.2	F
Wtr. Loss	5.0	F
Rmf	3.35 70	F
Rmc	4.4 70	F
Mud Log: Pm	2.4	
Depth	5080	
Bit Size	8 3/4"	
Sonde Type	PMS-A	
Pad Type	H	
Opr. Rig Time	1 1/2 HOURS	
Truck No.	3529 GD. JCT.	
Recorded By	MONTGOMERY	
Witness	COLBY	

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INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND UTAH FIELD OF SAN ARROYO LOCATION SAN ARROYO # 7 WELL SINCLAIR OIL AND GAS COMPANY COMPANY SINCLAIR OIL AND GAS COMPANY	COMPANY SINCLAIR OIL AND GAS COMPANY WELL SAN ARROYO # 7 FIELD SAN ARROYO LOCATION SEC 24-16S-25E 855' FSL - 1650' FWL COUNTY GRAND STATE UTAH	Other Surveys SGR-C Location of Well SEC 24-16S-25E 855' FSL 1650' FWL Elevation: K.B.: D.F.: or G.L.: 6145
	FILING No. 34	

RUN No.	ONE							
Date	8-7-62							
First Reading	4953	315						
Last Reading	362							
Feet Measured	4591							
Csg. Schlum.	362							
Csg. Driller	362							
Depth Reached	4954							
Bottom Driller	4950							
Depth Datum	G.L.							
Mud Nat.	GEL-CHEM							
Dens. Visc.	8.6 @ 45							
Mud Resist.	3.6 @ 72	F	@	F	@	F	@	F
Res. BHT	1.7 @ 153	F	@	F	@	F	@	F
Rmf	3.2 @ 73	F	@	F	@	F	@	F
Rmc. C	1.5 @ 153	F	@	F	@	F	@	F
pH	@	F	@	F	@	F	@	F
Wtr. Loss	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8" TO 3978	7 5/8" TO T.D.						
Spqs. - AM	16"							
MN	34' 6"							
IND.	6FF40							
Opr. Rig. Time	1 1/2 HRS.							
Truck No.	3529 G. J.							
Recorded By	MONTGOMERY							
Witness	COLBY							

SCHLUMBERGER WELL SURVEYING CORPORATION
DALLAS, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION SAN ARROYO WELL SAN ARROYO #5 COMPANY SINCLAIR OIL AND GAS COMPANY	COMPANY SINCLAIR OIL AND GAS COMPANY	Other Surveys ML
	WELL SAN ARROYO #5	Location of Well SEC. 25-16S-25E 2030' N/S 2290' W/E
	FIELD SAN ARROYO	Elevation: D.F.: _____ K.B.: _____ or G.L.: 5878
	LOCATION SEC. 25-16S-25E 2030' N/S-2290' W/E	FILING No. 35
	COUNTY GRAND	
	STATE UTAH	

RUN No.	ONE				
Date	8-29-60				
First Reading	4937 ^{3.6}				
Last Reading	342				
Feet Measured	4595				
Csg. Schlum.	342				
Csg. Driller	343				
Depth Reached	4943				
Bottom Driller	4940				
Depth Datum	GL				
Mud Nat.	GEL				
Dens. Visc.	10.0 65				
Mud Resist.	2.2 @ 90°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.2 @ 158°F	@ °F	@ °F	@ °F	@ °F
Rmf	1.5 @ 82°F	@ °F	@ °F	@ °F	@ °F
Rmc	1.9 @ 82°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	27'2"				
IND.	5FF40				
Opr. Rig Time	1 1/2 HR				
Truck No.	1523 GJ				
Recorded By	RUSEN				
Witness	MADDOX				

LUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT LOCATION SAN ARROYO #1 WELL COMPANY SINCLAIR OIL & GAS COMPANY	COMPANY	SINCLAIR OIL & GAS COMPANY	Location of Well (ML) Elevation: D.F.: 6001 K.B.: or G.L.: 5994 FILING No. 36
	WELL	SAN ARROYO #1	
	FIELD	WILDCAT	
	LOCATION	SEC. 26 16S 25E 2566/WL & 1712 WL	
	COUNTY	GRAND	
	STATE	UTAH	

RUN No.	ONE	TWO	THREE		
Date	8-19-55	9-7-55	9-27-55		
First Reading	4048 ^{32.0}	5106 ^{31.8}	5806 ^{38.0}		
Last Reading	230	4048	5106		
Feet Measured	3818	1058	700		
Csg. Schlum.	230	230	5088		
Csg. Driller	230	230	5101		
Depth Reached	4049	5107	5807		
Bottom Driller	4041	5113	5806		
Depth Datum	GL	GL	GL		
Mud Nat.	GEL	CAUSTIC	QUEB		
Density	9.8	9.9	9.7		
Viscosity	45	48	46		
Resist.	1.6 @ 75F	1.1 @ 92F	1.3 @ 70F	@ °F	@ °F
Res. BHT	36 @ 122F	72 @ 140F	55 @ 172F	@ °F	@ °F
pH	- @ - °F	- @ - °F	- @ - °F	@ °F	@ °F
Wtr. Loss	- CC 30 min.	- CC 30 min.	- CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	122	140	172		
Bit Size	8 3/4"	8 3/4"	6 1/4"		
Spcgs. - AM	16"	16"	16"		
A	64"	64"	64"		
AO	18' 8"	18' 8"	18' 8"		
Opr. Rig Time	2 HRS	1 HR	13 HRS		
Truck No.	782 GJ	782 GJ	782 GJ		
Recorded By	RUSEN	RANSOM	RUSEN		
Witness By	WILCOX	WILCOX	PARKER		

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SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

FIELD LOCATION WELL COMPANY	COMPANY: SINCLAIR OIL & GAS COMPANY	Other Surveys: 56-C #11
	WELL: SAN APROYO # 9	Location of Well SEC 27-16S-25E 990' FNL - 1600' FEL
	FIELD: SAN APROYO	
	LOCATION: SEC 27-16S-25E 990' FNL-1600' FEL	Elevation: K.B.: UNGRADED G.L.: 7326
	COUNTY: GRAND STATE: UTAH	FILING No. 37

RUN No.	ONE	TWO					
Date	9-13-62	10-4-62					
Reading	4092 ²⁹¹	5892 ²¹²					
Reading	322	4490					
Measured	4370	1402					
g. Schlom.	322	322					
g. Driller	320	320					
Depth Reached	4093	5893					
Bottom Driller	4094	5890					
Depth Datum	G.L.	G.L.					
Fluid Nat.	GEL-CHEM	GEL-CHEM					
Cons. Visc.	9.0 68	9.7 93					
Fluid Resist.	2.2 75	2.3 70	F	F	F	F	F
Res. BHT	1.3 126	1.2 139	F	F	F	F	F
Rinf	1.7 78	1.9 75	F	F	F	F	F
Rinc	1.3 126	2.5 70	F	F	F	F	F
pH	7.2	9.0	F	F	F	F	F
Wir. Loss	5.0 CC 30 min.	3.6 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	8 3/4"	8 3/4"					
Logs - AM	16"	16"					
IND	34 1/2"	34 1/2"					
IND	6FF40	6FF40					
Oper. Rig Time	1 1/2 HRS	2 HRS					
Truck No.	3529 G.J.	3529 G.J.					
Recorded By	MONTGOMERY	MONTGOMERY					
Witness	COLBY	COLBY					

165 26E

SCHEMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH
FIELD or LOCATION WILDCAT
WELL SAN ARROYO #2
COMPANY SINGLAIR OIL & GAS COMPANY

COMPANY SINGLAIR OIL & GAS COMPANY
WELL SAN ARROYO #2
FIELD WILDCAT
LOCATION SEC. 22-16S-26E
COUNTY GRAND *not in Grand Co.*
STATE UTAH

Location of Well
2640' FR S/L
2640' FR E/L
SEC. 22-16S-26E
ES (ML)
Elevation: D.F.:
K.B.:
or G.L. 7743'

FILING No. 38

RUN No.	ONE	TWO			
Date	3-5-56	4-6-56			
First Reading	6019 <i>22.1</i>	6831 <i>29.1</i>			
Last Reading	221	6019			
Feet Measured	5793	812			
Csg. Schlum.	221	221			
Csg. Driller	219	219			
Depth Reached	6020	6832			
Bottom Driller	6019	6835			
Depth Datum	GL	GL			
Mud Nat.	GEL CHEM	GEL CHEM			
" Density	9.9	9.5			
" Viscosity	53	110			
" Resist.	1.5 @ 63°F	2.0 @ 50°F	@ °F	@ °F	@ °F
" Res. BHT	0.8 @ 24°F	.64 @ 160°F	@ °F	@ °F	@ °F
" pH	8.3 @ °F	-- @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	7.5 CC 30 min.	7.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	124	160			
Bit Size	9"	8 3/4"			
Spcgs.—AM	16"	16"			
AM	64"	64"			
AO	18' 8"	18' 8"			
Opr. Rig Time	2 1/2 HRS	2 HRS			
Truck No.	782 GND JC	2791 CRTZ			
Recorded By	HILLER	COVEY			
Witnessed By	PARKER	COLBY			

SCHLUMBERGER WELL SURVEYING CORPORATION

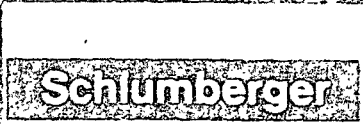
HOUSTON TEXAS



Induction-Electrical Log

COUNTY GRAND FIELD or LOCATION SAN ARROYO WELL SAN ARROYO UNIT #4 COMPANY SINCLAIR OIL AND GAS COMPANY	COMPANY SINCLAIR OIL AND GAS COMPANY	Other Surveys: ML
	WELL SAN ARROYO UNIT #4	Location of Well SEC. 30-16S-26E 1080' FSL 1800' FWL
	FIELD SAN ARROYO	Elevation: D.F. K.B.: 5643 or G.L.: 5637
	LOCATION SEC. 30-16S-26E 1080' FSL - 1800' FWL	
	COUNTY GRAND	FILING No. 39
	STATE UTAH	

RUN No.	ONE				
Date	8-3-59				
First Reading	4760	314			
Last Reading	340				
Feet Measured	4420				
Csg. Schlum.	340				
Csg. Driller	331				
Depth Reached	4766				
Bottom Driller	4760				
Depth Datum	GL - 6' BELOW KB				
Mud Nat.	GEL CHEM				
Dens. Visc.	8.9 70				
Mud Resist.	2.0 @ 95 °F	@ °F	@ °F	@ °F	@ °F
Res. BHT	1.4 @ 133 °F	@ °F	@ °F	@ °F	@ °F
Rmf	1.2 @ 133 °F	@ °F	@ °F	@ °F	@ °F
Rmc	1.3 @ 133 °F	@ °F	@ °F	@ °F	@ °F
pH	7.6 @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	5.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	8 3/4"				
Spcgs. — AM	16"				
MN	27' 2"				
IND.	40"				
Opr. Rig Time	2 HRS				
Truck No.	1517 GJ				
Recorded By	HANSON				
Witness	MARVIN				



INDUCTION - ELECTRICAL LOG

COUNTY GRAND
 FIELD BADGER WASH PROSPECT
 LOCATION 711FNL 820FEL
 WELL STATE 32-1
 COMPANY PALMER OIL & GAS

COMPANY PALMER OIL & GAS

WELL STATE 32-1

FIELD BADGER WASH PROSPECT

COUNTY GRAND STATE UTAH

LOCATION 711FNL 820FEL
 API SERIAL NO. SEC. TWP RANGE
 32 16S 26E

Other Services: **40**
 FDC-CNL-GR

Permanent Datum: GL, Elev.: 5517
 Log Measured From KB 11 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 5528
 D.F. --
 G.L. 5517

Date	8-20-78					
Run No.	ONE					
Depth-Driller	4347					
Depth-Logger (Schl.)	4353					
Btm. Log Interval	4347	36.2				
Top Log Interval	300					
Casing-Driller	8 5/8@	350	@	@	@	
Casing-Logger	320					
Bit Size	7 7/8					
Type Fluid in Hole	FGM					
Dens.	8.9	38				
Visc.						
pH	9.5	16ml	ml	ml	ml	ml
Fluid Loss						
Source of Sample	MUD TANK					
Rm @ Meas. Temp.	1.46@	82F	@ °F	@ °F	@ °F	
Rmf @ Meas. Temp.	1.25@	84F	@ °F	@ °F	@ °F	
Rmc @ Meas. Temp.	-- @	-- °F	@ °F	@ °F	@ °F	
Source: Rmf	M	--				
Rmc						
Rm @ BHT	.84 @	142F	@ °F	@ °F	@ °F	
TIME	Circulation Stopped	0800	8-20			
	Logger on Bottom	1430	8-20			
Max. Rec. Temp.		142F	°F	°F	°F	
Equip.	7759	G. J.				
Location						
Recorded By	GRTAYLOR					
Witnessed By Mr.	ROSENDAHL					

The well name, location and borehole reference data were furnished by the customer.

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Schlumberger

INDUCTION LOG

COUNTY GRAND FIELD BADGER WASH PROSPECT LOCATION 595FSL 1585FEL WELL FEDERAL 33-13 COMPANY PALMER OIL & GAS	COMPANY PALMER OIL & GAS CO			
	WELL FEDERAL 33-13			
	FIELD BADGER WASH PROSPECT			
	COUNTY GRAND		STATE UTAH	
LOCATION		SW ¹ / ₄ SW ¹ / ₄ 595FSL 1585FEL		
API SERIAL NO.		SEC.	TWP	RANGE
		33	16S	26E 15
			Other Services: 41 FDC-GR SNP-GR TAPE	

Permanent Datum: GL	Elev.: 5409	Elev.: K.B. 5420
Log Measured From: KB	11 Ft. Above Perm. Datum	D.F. --
Drilling Measured From: KB		G.L. 5409

Date	6-4-78								
Run No.	ONE								
Depth-Driller	4180								
Depth-Logger	4188								
Btm. Log Interval	4178	41.0							
Top Log Interval	340								
Casing-Driller	8 5/8 @ NA								
Casing-Logger	340								
Bit Size	7 7/8								
Type Fluid in Hole	AIR								
Dens.	Visc.	--	--						
pH	Fluid Loss	--	--ml						
Source of Sample		--							
Rm @ Meas. Temp.		-- @ --°F	@	°F	@	°F	@	°F	
Rmf @ Meas. Temp.		-- @ --°F	@	°F	@	°F	@	°F	
Rmc @ Meas. Temp.		-- @ --°F	@	°F	@	°F	@	°F	
Source: Rmf	Rmc	--	--						
Rm @ BHT		-- @ --°F	@	°F	@	°F	@	°F	
TIME	Circulation Stopped	--							
	Logger on Bottom	1130							
	Max. Rec. Temp.	145°		°F		°F		°F	
	Equip.	7759	G.J.						
	Location								
	Recorded By	J. WALLACE							
	Witnessed By	BALLANTYNE							

TIGHT HOLE

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

175 - 21E

Schlumberger

INDUCTION-ELECTRICAL LOG

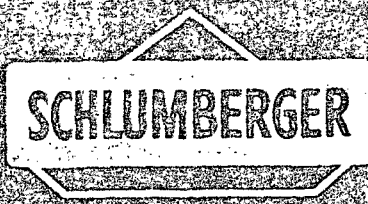
COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL 614 #1 COMPANY ANSCHUTZ CORPORATION	COMPANY ANSCHUTZ CORPORATION		
	WELL #1 FEDERAL 614		
	FIELD WILDCAT		
	COUNTY GRAND	STATE UTAH	
LOCATION	API Serial No. 14	Other Services:	
SE SW Sec. 3 Twp. 17S Rge. 21E		BHC-GR 42 CST	
Permanent Datum: GL, Elev. 8205		Elev.: K.B. 8216	
Log Measured From KB, 11 Ft. Above Perm. Datum		D.F.	
Drilling Measured From KB		G.L. 8205	
Date	8/11/74	8/28/74	
Run No.	ONE	TWO	
Depth—Driller	6101	9800	
Depth—Logger	6095	9804	
Btm. Log Interval	6094 20.0	9803 24.2	
Top Log Interval	302	6105	
Casing—Driller	9-5/8@ 302	7 @ 6105	@ @
Casing—Logger	302	6105	
Bit Size	8-3/4	6-1/4	
Type Fluid in Hole	FGM	FGM	
Dens.	9.0	58	
Visc.			
pH	12.0	6.0 ml	ml
Fluid Loss			
Source of Sample	PIT	PIT	
R _m @ Meas. Temp.	1.34 @ 82 °F	1.08 @ 86 °F	@ °F @
R _{mf} @ Meas. Temp.	1.13 @ 82 °F	.82 @ 86 °F	@ °F @
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F @
Source: R _{mf} R _{mc}	M	PIT	
R _m @ BHT	.93 @ 118°F	@ 181°F	@ °F @
Time Since Circ.	4.0 HOURS	1600 HOURS	
Max. Rec. Temp.	118 °F	181 °F	°F
Equip. Location	5660 FM	5602 G J	
Recorded By	GETIGER	SCHNORR	
Witnessed By	SHANNON-HARRELL		

SCHLUMBERGER

TEMPERATURE LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY FIELD or LOCATION WELL COMPANY	GRAND, UTAH	COMPANY	PACIFIC NATURAL GAS EXPLORATION COMPANY	Location of Well SEC 4-17S-21E 2840' FNL - 1770' FWL Elevation: D.F. 8147 K.B. 8148.5 or G.L. 8137
	SEGUNDO CANYON	WELL	SEGUNDO CANYON	
	SEGUNDO CANYON UNIT # 23-4		UNIT # 23-4	
	PACIFIC NATURAL GAS EXPLORATION COMPANY	FIELD	SEGUNDO CANYON	
		LOCATION	SEC 4-17S-21E	
			NE - SW	
		COUNTY	GRAND	
		STATE	UTAH	FILING No. 43
Date AUGUST 8, 1963 Time Started 1600 Time Finished 1800				
First Reading 9851 26.1				
Last Reading 6036				
Footage Measured 3815				
Max. Depth Reached 9852				
Bottom Driller 9842				
Hole Size 6 3/4"				
Casing Size 7 5/8"				
Depth Datum K.B.				
Mud Data Nature DRY-GAS DRLD. Resistivity @ °F				
Fluid Level -				
Max. Temp. 192				
Cementation Data Date Time Started Time Finished				
Circulation Data Date Time Started Time Finished				
A-Cement Top Determination				
1) Date Pressure Released Time Released				
2) Amount Cement				
3) Calculated Top				
4) Depth of Plug				
B-Location of Oil and Gas GAS ZONE DETERMINATION				
1) Casing Shoe Driller 6037				
2) Date Drilling Stopped AUGUST 26, 1963 Time Stopped				
Truck No. 2598 GRAND JUNCTION				
Recorded By MONTGOMERY				
Witnessed By LINDSAY				



SONIC LOG

WITH GALPER
 SCHLUMBERGER WELL SURVEYING CORPORATION
 HOUSTON, TEXAS

COUNTY GRAND, UTAH FIELD or LOCATION SEGUNDO CANYON WELL SEGUNDO CANYON UNIT # 23-4 COMPANY PACIFIC NAT. GAS	COMPANY	PACIFIC NATURAL GAS EXPLORATION		
		COMPANY		
	WELL	SEGUNDO CANYON UNIT # 23-4		
	FIELD	SEGUNDO CANYON		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	NE - SW 2840' FNL - 1770' FWL		Other Services: G.L. 43 I-ES, FDL, TEMP..
	Sec. 4	Twp. 17S	Rge. 21E	

Permanent Datum: G.L., Elev. 8137	Elev.: K.B. 8148.5
Log Measured From K.B., 11.5 Ft. Above Perm. Datum	D.F. 8147
Drilling Measured From K.B.	G.L. 8137

Date	8-15-63					
Run No.	ONE					
Depth—Driller	6040					
Depth—Logger	6038					
Btm. Log Interval	6036 11.1					
Top Log Interval	200					
Casing—Driller	10 3/4@	203	@	@	@	@
Casing—Logger	200					
Bit Size	9 7/8"					
Type Fluid in Hole	CONTROL X					
Dens.	9.7	57				
pH	Fluid Loss	8.0	7.4 ml	ml	ml	ml
Source of Sample FLOW LINE						
R _m @ Meas. Temp.	3.83 @ 71 °F	@	°F	@	°F	@ °F
R _{mf} @ Meas. Temp.	2.84 @ 72 °F	@	°F	@	°F	@ °F
R _{mc} @ Meas. Temp.	2.65 @ 100 °F	@	°F	@	°F	@ °F
Source: R _{mf}	R _{mc}	FP	C			
R _m @ BHT	2.3 @ 117 °F	@	°F	@	°F	@ °F
Time Since Circ.	5 HOURS					
Max. Rec. Temp.	117	°F	°F	°F	°F	°F
Equip. Location	4529	VERNA				
Recorded By	LEDY					
Witnessed By	CLUTTER					

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Sonic Log

COUNTY GRAND FIELD or LOCATION SEC. 9-17S-21E WELL SEGUNDO #1 COMPANY PACIFIC NATURAL GAS EXPLORATION COMPANY	COMPANY PACIFIC NATURAL GAS	Other Surveys IES-ML
	EXPLORATION COMPANY	GRN-CDM
	WELL SEGUNDO # 1	Location of Well 44
	FIELD WILDCAT	<i>X Copy</i>
	LOCATION SEC. 9-17S-21E 660' FR S/L & 1570' FR E/L	Elevation: K.B. 8352.4 D.F.: 8351 or G.L.: 8341
COUNTY GRAND	STATE UTAH	

Log Depths Measured From K.B.: 11.4 Ft. above G.L. *N.B.*

RUN No.	ONE	TWO	
Date	6-22-61	7-12-61	
First Reading	5950 <i>24.2</i>	7700 <i>14.9</i>	
Last Reading	2700	6344	
Feet Measured	3250	1356	
Csg. Schlum.	296	6344	
Csg. Driller	294	6345	
Depth Reached	5951	7705	
Bottom Driller	6335	9742	
Mud Nat.	CHEM-OIL	SALT-STARCH	
Dens. Visc.	9.9 59	10 65	
Mud Resist.	2.6 @ 80 °F	0.05 @ 68 °F	@ °F
" Res. BHT	1.6 @ 130 °F	0.026 @ 135 °F	@ °F
" pH	8.2 @ °F	6.0 @ °F	@ °F
" Wtr. Loss	6.3 CC 30 min	1.9 CC 30 min	CC 30 min
" Rmf	1.4 @ 130 °F	0.02 @ 135 °F	@ °F
Bit Size	11"	7 7/8"	
Spacing:			
T R ₁ 3 R:	2700 To 5950	6344 To 7700	To
T R ₁ R:	To	To	To
Opr. Rig Time	3 HRS.	2 HRS.	
Truck No.	1517 V.	1523 G.J.	
Recorded By	DANIELS	MONTGOMERY	
Witness	GREGORY	MILLER	

17S - 22E

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT FEDERAL NO. 915-1 WELL COMPANY THE ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORPORATION	
	WELL FEDERAL NO. 915-1	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION SW/NW	1794' FNL, 783' FWL	Other Services: FDC-GR CNL-GR 45
Sec. 13	Twp. 17S	Rge. 22E
Permanent Datum: GL, Elev. 6648		Elev.: K.B. 6659
Log Measured From KB, 11 Ft. Above Perm. Datum		D.F. 6658
Drilling Measured From KB		G.L. 6648
Date	12-23-73	1-13-74
Run No.	ONE	TWO
Depth—Driller	3430	7630
Depth—Logger	3441	7647
Btm. Log Interval	3435 23.3	7643 305
Top Log Interval	344	3424
Casing—Driller	9-5/8@342 @	7 @3427 @
Casing—Logger	344	3424
Bit Size	8-3/4	6-1/8
Type Fluid in Hole	F.G.M.	F.G.M.
Dens.	9.1	48
Visc.	10.5	5.2 ml
pH	10.0	-- ml
Fluid Loss	5.2 ml	ml
Source of Sample	CIRC.	CIRC.
R _m @ Meas. Temp.	2.70 @ 78 °F	2.22 @ 95 °F
R _{mf} @ Meas. Temp.	2.30 @ 78 °F	1.76 @ 72 °F
R _{mc} @ Meas. Temp.	1.89 @ 95 °F	1.24 @ 72 °F
Source: R _{mf} R _{mc}	--- @ --- °F	--- @ --- °F
R _m @ BHT	M ---	M ---
Time Since Circ.	2.22 @ 95 °F	.68 @ 179 °F
Max. Rec. Temp.	1-1/2 HRS.	2 HRS.
Equip. Location	95 °F	179 °F
Recorded By	5602 G.J.	5602 G.J.
Witnessed By	SCHNORR	BARGHOUTT
	MUELLER	MUELLER

The well name, location and borehole reference data were furnished by the customer.

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog

WITH GAMMA RAY

COUNTY GRAND, UTAH FIELD or LOCATION DIAMOND RIDGE WELL DIAMOND RIDGE UNIT #6 COMPANY SUNRAY MID - CONTINENT OIL CO.	COMPANY	SUNRAY MID - CONTINENT OIL CO.	Other Surveys	SL
	WELL	DIAMOND RIDGE UNIT #6	Location of Well	SEC. 14-17S-22E SE NW 96
	FIELD	DIAMOND RIDGE		
	LOCATION	SEC. 14-17S-22E SE NW		
	COUNTY	GRAND	Elevation: K.B.:	6664
	STATE	UTAH	D.F.:	
			or G.L.:	6652

Log Depths Measured From K.B. 12 Ft. above G.L.

RUN No.	ONE		
Date	6-30-61		
First Reading	3368	31 A	
Last Reading	1400		
Feet Measured	3228		
Csg. Schlum.	136		
Csg. Driller	136		
Depth Reached	3373		
Bottom Driller	3379		
Mud Nat.	SALT-OIL		
Dens. Visc.	9.9	39	
Mud Resist.	0.18 @ 83 °F	@ °F	@ °F
" Res. BHT	0.15 @ 110 °F	@ °F	@ °F
" pH	7.5 @ °F	@ °F	@ °F
" Wtr. Loss	4.2 CC 30 min	CC 30 min	CC 30 min
" Rmf	0.1 @ 83 °F	@ °F	@ °F
" Rmc	-- @ -- °F	@ °F	@ °F
Bit Size	1 1/2"		
Laterolog 3	a= ;l=	a= ;l=	a= ;l=
Laterolog 7	a= ;n=	a= ;n=	a= ;n=
Opr. Rig Time	4 HRS		
Truck No.	1523 GJ		
Recorded By	HAMILTON		
Witness	LOW		

FOLD HERE

175 23E



COMPENSATED FORMATION-DENSITY LOG Gamma-Gamma

COUNTY GRAND FIELD or LOCATION WESTWATER WELL M-14 STATE COMPANY WILLARD PEASE	COMPANY	WILLARD PEASE OIL & GAS CO		
	WELL	M-14 STATE	DUPLICATE COPY	
	FIELD	WESTWATER		
	COUNTY	GRAND	STATE	UTAH
Location:		API Serial No. _____		Other Services:
		NW NW		47
Sec. 2		Twp. 17S	Rge. 23E	

Permanent Datum:	GL	Elev.:	6844	Elev.: K.B.	6854
Log Measured From	KB	10 Ft. Above Perm. Datum		D.F.	----
Drilling Measured From	KB			G.L.	6844

Date	12/4/76					
Run No.	ONE					
Depth-Driller	6900					
Depth-Logger	6911					
Btm. Log Interval	6910	34.8				
Top Log Interval	5500					
Casing-Driller	7	@3023	@	@	@	@
Casing-Logger	2964					
Bit Size	6 1/4					
Type Fluid in Hole	GAS					
Fluid Level	6840					
Dens.	Visc.	----	--			
pH	Fluid Los	----	-- ml	ml	ml	ml
Source of Sample	----					
R _m @ Meas. Temp.	----	@--	°F	@	°F	@
R _{mf} @ Meas. Temp.	----	@--	°F	@	°F	@
R _{mc} @ Meas. Temp.	----	@--	°F	@	°F	@
Source: R _{mf}	R _{mc}	----	--			
R _m @ BHT	----	@--	°F	@	°F	@
Time Since Circ.	8 HRS					
Max. Rec. Temp.	183 °F					
Equip.	7759 GJ					
Recorded By	GEIGER					
Witnessed By	GORDON					

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WESTWATER WELL M-15 STATE COMPANY WILLARD PEASE	COMPANY WILLARD PEASE			
	WELL M-15 STATE			
	FIELD WESTWATER			
	COUNTY GRAND STATE UTAH			
LOCATION: NE SE		1870 FSL 1309 FEL		Other Services: 48
Sec. 2		Twp. 17S Rge. 23E		9
Permanent Datum: G.L. ; Elev.: 6861			Elev.: K.B. 6871	
Log Measured From KB , 10 Ft. Above Perm. Datum			D.F. _____	
Drilling Measured From KB			G.L. 6861	
Date	12/21/76			
Run No.	ONE			
Depth-Driller	6408			
Depth-Logger	6417			
Btm. Log Interval	6411 27.0			
Top Log Interval	2966			
Casing-Driller	7" @2972 @ @ @			
Casing-Logger	2966			
Bit Size	6 1/4			
Type Fluid in Hole	FGM			
Dens.	Visc.	9.0 140		
pH	Fluid Loss	--- --- ml ml ml ml		
Source of Sample	FLOWLINE			
R _m @ Meas. Temp.	1.30 @ 58 °F @ °F @ °F @ °F			
R _{mf} @ Meas. Temp.	.86 @ 58 °F @ °F @ °F @ °F			
R _{mc} @ Meas. Temp.	---- @ -- °F @ °F @ °F @ °F			
Source: R _{mf} R _{mc}	MEAS ---			
R _m @ BHT	.51 @ 146 °F @ °F @ °F @ °F			
TIME	Circulation Stopped	2:00		
	Logger on Bottom	7:00		
Max. Rec. Temp.	146 °F °F °F °F			
Equip.	Location	7759 G.J.		
Recorded By	GEIGER			
Witnessed By	LANG			

SCHLUMBERGER**INDUCTION - ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY <u>GRAND</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>DIAMOND RIDGE</u> UNIT NO. <u>7</u> COMPANY <u>SUNRAY D-X OIL CO</u>	COMPANY <u>SUNRAY D-X OIL COMPANY</u> WELL <u>DIAMOND RIDGE UNIT NO. 7</u> FIELD <u>WILDCAT</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> SE NW SW 1719' FSL, 1096' FWL. Sec. <u>5</u> Twp. <u>17S</u> Rge. <u>23E</u>				
Other Services: 49 SGR, ML					
Permanent Datum: <u>G.L.</u> , Elev. <u>6254</u> Log Measured From <u>K.B.</u> <u>15</u> Ft. Above Perm. Datum Drilling Measured From <u>K.B.</u>					
Elev.: K.B. <u>6269</u> D.F. _____ G.L. <u>6254</u>					
Date	6-15-63	7-7-63			
Run No.	ONE	TWO			
Depth - Driller	2670	7020			
Depth - Logger	2628	7025			
Btm. Log Interval	2627 ^{37.5}	7024 ^{36.1}			
Top Log Interval	170	2670			
Casing - Driller	10 3/4 @ 170'	7" @ 2670	@	@	
Casing - Logger	170	2670			
Bit Size	9 7/8"	6 1/16"			
Type Fluid in Hole	GEL	CL-CLS			
CHEMICAL					
Dens.	9.8	70	8.9	52	
pH	7.5	8.6 ml	9.5	6.0 ml	ml ml
Source of Sample	FLOW LINE		FLOW LINE		
R _m @ Meas. Temp.	3.0 @ 71 °F		1.33 @ 90 °F		@ °F @ °F
R _{mf} @ Meas. Temp.	2.7 @ 71 °F		0.73 @ 91 °F		@ °F @ °F
R _{mc} @ Meas. Temp.	1.8 @ 105 °F		1.7 @ 90 °F		@ °F @ °F
Source: R _{mf} R _{mc}	FP C		PRESS PRESS		
R _m @ BHT	2.1 @ 105 °F		0.62 @ 190 °F		@ °F @ °F
Time Since Circ.	2 HOURS		2 HOURS		
Max. Rec. Temp.	105 °F		105 °F		°F °F
Equip. Location	2598 G. J.		4529 VERNAL		
Recorded By	MONTGOMERY		LEDY		
Witnessed By	LOW		LOW		



BIRDWELL

Induction

COMPANY WILLARD PEASE OIL & GAS

WELL M-12

FIELD WESTWATER

COUNTY GRAND STATE UTAH

LOCATION:

SEC. 11 TWP. 17S RGE. 23E

OTHER SERVICES:
NONE

50

PERMANENT DATUM GROUND LEVEL ELEV. N/A
LOG MEASURED FROM KB 9 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB

ELEV. K.B. N/A
D.F. N/A
G.L.

DATE	13 JAN. 77	14 JAN. 77		
RUN NO.	ONE	TWO		
DEPTH-DRILLER	6608'	6608'		
DEPTH-LOGGER	6389'	6444'		
BTM. LOG INTER.	6370'	6439' 30.9		
TOP LOG INTER.	3050'	6200'		
CASING-DRILLER	7" @ 3049'	7" @ 3049'	@	@
CASING-LOGGER	3052'	NOT REACHED		
BIT SIZE	6-1/4"	6-1/4"		
TYPE FLUID IN HOLE	*	*		
DENS.	N/A	N/A	N/A	N/A
VISC.	N/A	N/A	N/A	N/A
pH	N/A	N/A	N/A	N/A
FLUID LOSS	N/A	N/A	N/A	N/A
SOURCE OF SAMPLE	NONE	NONE		
Rm@MEAS.TEMP.	* @ °F	* @ °F	@ °F	@ °F
Rmf@MEAS.TEMP.	* @ °F	* @ °F	@ °F	@ °F
Rmc@MEAS.TEMP.	* @ °F	* @ °F	@ °F	@ °F
SOURCE Rmf Rmc	* *	* *		
Rm @ B.H.T.	* @ °F	* @ °F	@ °F	@ °F
TIME SINCE CIRC.	14 HOURS	5 HOURS		
MAX. REC. TEMP.	°F	160 °F	°F	°F
EQUIP.	D-37	D-37		
LOCATION	3027	3027		
RECORDED BY	MORGAN	MORGAN		
WITNESSED BY	MR. HUNT	MR. HUNT		



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T FEDERAL #1 COMPANY OIL INCORPORATED	COMPANY OIL INCORPORATED	Location of Well
	WELL GOV'T FEDERAL #1	NE NE NE
	FIELD WILDCAT	ES (ML)
	LOCATION SEC. 13-17S-23E	Elevation: D.F.: K.B.: 5690 or G.L.:
COUNTY GRAND	STATE UTAH	FILING No. 51

RUN No.	ONE				
Date	6/7/57				
First Reading	5166 ^{34.9}				
Last Reading	204				
Feet Measured	4962				
Csg. Schlum.	204				
Csg. Driller	209				
Depth Reached	5167				
Bottom Driller	5165				
Depth Datum	KB				
Mud Nat.	OIL EMUL				
" Density	9.6				
" Viscosity	58				
" Resist.	1.5@ 76°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	75@150°F	@ °F	@ °F	@ °F	@ °F
" pH	8.5@ 76°F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	150				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A M'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR.				
Truck No.	2783CRTZ				
Recorded By	BACHMAN				
Witnessed By	WETHERELL				

MAST 76.6 26.2

SCHLUMBERGER

INDUCTION ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY Oil Inc.

WELL Westwater Unit E-4

FIELD Westwater

LOCATION Sec 14-17S-23E

SE NE

COUNTY Grand

STATE Utah.

Other Surveys

GRN, DR

Location of Well

Field
Print

Elevation: K.B.: 6681.7

D.F.:

or G.L. 6670.7

FILING No. 52

RUN No.	<u>ONE</u>				
Date	<u>5-15-62</u>				
First Reading	<u>6470</u>	<u>30.4</u>			
Last Reading	<u>2044</u>				
Feet Measured	<u>4426</u>				
Csg. Schlum.	<u>2044</u>				
Csg. Driller	<u>2050</u>				
Depth Reached	<u>6471</u>				
Bottom Driller	<u>6469</u>				
Depth Datum	<u>K.B.</u>				
Mud Nat.	<u>Gal. Chem</u>				
Dens. Visc.	<u>72</u>				
Mud Resist.	<u>95 @ 54 °F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>.34 @ 159 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	<u>.20 @ 159 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	<u>.80 @ 159 °F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>@ °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6 7/8"</u>				
Spcgs.—AM	<u>16"</u>				
MN	<u>34'6"</u>				
IND.	<u>6 FF40</u>				
Opr. Rig Time	<u>2 hrs.</u>				
Truck No.	<u>3529 G.J.</u>				
Recorded By	<u>Montgomery</u>				
Witness	<u>Rupinski</u>				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Balco</u>	Other Surveys <u>ML</u>
	<u>Petroleum Corp.</u>	Location of Well <u>Field</u>
	WELL <u>East Canyon</u>	<u>Print</u>
	<u>Govt. #1</u>	Elevation: D.F.: _____ K.B.: <u>5426</u> or G.L.: <u>5416</u>
	FIELD <u>W.C. 14</u>	
	LOCATION <u>Sec 25-17S-23E</u>	
	<u>33' N of S & 3289' W of E</u>	
	COUNTY _____	
	STATE <u>Utah</u>	FILING No. <u>53</u>

RUN No.	<u>010</u>				
Date	<u>2-23-60</u>				
First Reading	<u>5.526</u>	<u>29.4</u>			
Last Reading	<u>10.53</u>				
Feet Measured	<u>4473</u>				
Csg. Schlum.	<u>1053</u>				
Csg. Driller	<u>1053</u>				
Depth Reached	<u>5532</u>				
Bottom Driller	<u>5533</u>				
Depth Datum	<u>KB</u>				
Mud Nat.	<u>Chem 221</u>				
Dens. Visc.	<u>10.62</u>				
Mud Resist.	<u>3.5 @ 55°F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>1.7 @ 140°F</u>	@ °F	@ °F	@ °F	@ °F
Rmf	<u>1.15 @ 140°F</u>	@ °F	@ °F	@ °F	@ °F
Rmc	<u>1.3 @ 140°F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>- @ - °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>- CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>6 3/4"</u>				
Spcgs.—AM	<u>16"</u>				
MN					
IND.	<u>40"</u>				
Opr. Rig Time	<u>2 hrs</u>				
Truck No.	<u>2515</u>				
Recorded By	<u>BUTLER</u>				
Witness	<u>Rayce</u>				

175 24E

Schlumberger

SIDEWALL NEUTRON POROSITY LOG

COUNTY GRAND
 FIELD BRYSON CANYON
 LOCATION 1793FEL 638FSL
 WELL FED 3-15
 COMPANY PALMER

COMPANY PALMER OIL & GAS
 WELL FEDERAL 3-15
 FIELD BRYSON CANYON
 COUNTY GRAND STATE UTAH

LOCATION 1793FEL 638FSL SWSE
 API SERIAL NO. SEC. TWP RANGE
 3 17S 24E

Other Services:
 FDC-GR, IES-GR
340

Permanent Datum: GL; Elev.: 5924
 Log Measured From: KB 11 Ft. Above Perm. Datum
 Drilling Measured From: KB

Elev.: K.B. 5935
 D.F. -
 G.L. 5924

Date	2-24-79					
Run No.	ONE					
Depth-Driller	5215					
Depth-Logger (Schl.)	5227					
Btm. Log Interval	5225 40.1					
Top Log Interval	4200					
Casing-Driller	7	@	850	@	@	@
Casing-Logger	857					
Bit Size	6 1/4					
Type Fluid in Hole-	AIR					
Dens.	Visc.	-				
pH	Fluid Loss	-	ml	ml	ml	ml
Source of Sample	-					
Rm @ Meas. Temp.	-	@	°F	@	°F	@
Rmf @ Meas. Temp.	-	@	°F	@	°F	@
Rmc @ Meas. Temp.	-	@	°F	@	°F	@
Source: Rmf	Rmc	-				
Rm @ BHT	-	@	°F	@	°F	@
Circulation Stopped	-					
Logger on Bottom	2300					
Max. Rec. Temp.	166°F			°F	°F	°F
Equip.	Location	7726	G. J.			
Recorded By	OLSON					
Witnessed By Mr.	ROSENDAHL					

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

SCHLUMBERGER

**BOREHOLE COMPENSATED
SONIC LOG - GAMMA RAY**

COUNTY GRAND FIELD or LOCATION WESTWATER LOCATION M-7 WELL COMPANY OIL INC. - W. PEASE	COMPANY <u>OIL INCORPORATED - WILLARD PEASE</u> WELL <u>M - NO.7</u> FIELD <u>WESTWATER</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>960' FWL & 2595' FNL</u> Sec. <u>6</u> Twp. <u>17 S</u> Rge. <u>24 E</u>	Other Services: IES FDC 54
Permanent Datum: <u>GL</u> , Elev. <u>6083</u> Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>		Elev.: K.B. <u>6093</u> <u>U.S.</u> D.F. <u>---</u> G.I. <u>6083</u>
Date	4-14-70	
Run No.	ONE	
Depth—Driller	5600	
Depth—Logger	5597	
Bitm. Log Interval	5596 <i>296</i>	
Top Log Interval	SURFACE	
Casing—Driller	7" @ 1742	@ @ @
Casing—Logger	1742	
Bit Size	6 1/8	
Type Fluid in Hole	FGM	
Dens.	10.1	180
pH	---	---ml
Fluid Loss		ml
Source of Sample	MUDPIT	
R _m @ Meas. Temp.	3.02 @ 45 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	2.55 @ 49 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	2.30 @ 45 °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	M C	
R _m @ BHT	0.95 @ 142 °F	@ °F @ °F @ °F
Time Since Circ.	8 HOURS	
Max. Rec. Temp.	142 °F	°F °F °F
Equip. Location	4544 VERNAL	
Recorded By	C. DAHLE	
Witnessed By	MESSRS. WALSH & KREY	



BIRDWELL

Induction Electric Log

COMPANY WILLARD PEASE OIL & GAS

WELL M-10

FIELD ~~CISCO~~ WEST WATER

COUNTY GRAND STATE UTAH

LOCATION:

SEC. 6 TWP. 17S RGE. 24E

OTHER SERVICES:

GR FDL

15

55

PERMANENT DATUM	GROUND LEVEL	ELEV. N/A	ELEV. K.B. N/A
LOG MEASURED FROM	KB	10 FT. ABOVE PERM. DATUM	D.F.
DRILLING MEASURED FROM	KB		G.L. N/A

DATE	6 APR. 76						
RUN NO.	ONE						
DEPTH - DRILLER	6270'						
DEPTH - LOGGER	6275'						
BTM. LOG INTER.	6271' 15"						
TOP LOG INTER.	4750'						
CASING - DRILLER	7-7/8 @ 2470	@	@	@	@	@	@
CASING - LOGGER	NOT REACHED						
BIT SIZE	6-1/4"						
TYPE FLUID IN HOLE	MUD						
DENS.	VISC.						
pH	FLUID LOSS	8 ml		ml		ml	ml
SOURCE OF SAMPLE	PIT						
Rm@ MEAS. TEMP.	2.2Ω @ 66 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf@ MEAS. TEMP.	1.7Ω @ 67 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc@ MEAS. TEMP.	2Ω @ 68 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	M	M				
Rm @ B. H. T.	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	8 HOURS						
MAX. REC. TEMP.	114 °F	°F	°F	°F	°F	°F	°F
EQUIP. LOCATION	2896	GRAND	JUNCTION				
RECORDED BY	LENTZ						
WITNESSED BY	JIM						

SSC-557-B

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Electrical Log

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY <u>Oil,</u>	Other Surveys
	<u>Incorporated</u>	Location of Well
	WELL <u>Westwater Unit</u>	
	<u>C-7</u>	
	FIELD <u>Westwater</u>	
LOCATION <u>7-175-24E9</u>		
	<u>NE SE</u>	Elevation: D.F.: K.B.: <u>6043</u> or G.L.: <u>6039</u>
COUNTY <u>Grand</u>		FILING No. <u>56</u>
STATE <u>Utah</u>		

RUN No.	<u>One</u>								
Date	<u>7 May</u>	<u>1954</u>							
First Reading	<u>1135</u>	<u>62.6</u>							
Last Reading	<u>85</u>								
Feet Measured	<u>1050</u>								
Csg. Schlum.	<u>-</u>								
Csg. Driller	<u>-</u>								
Depth Reached	<u>1136</u>								
Bottom Driller	<u>1135</u>								
Depth Datum	<u>KB</u>								
Mud Nat.	<u>Water - Gel</u>								
Dens. Visc.	<u>10.1 46</u>								
Mud Resist.	<u>2.6 @ 67'</u>	F @ F	@ F	@ F	@ F	@ F	@ F	@ F	@ F
Res. BHT	<u>1.9 @ 90'</u>	F @ F	@ F	@ F	@ F	@ F	@ F	@ F	@ F
Rmf	<u>1.5 @ 90'</u>	F @ 1.8 @ 74'	F @ F	@ F	@ F	@ F	@ F	@ F	@ F
Rmc	<u>2.0 @ 90'</u>	F @ 2.4 @ 74'	F @ F	@ F	@ F	@ F	@ F	@ F	@ F
pH	<u>9.0 @</u>	F @ F	@ F	@ F	@ F	@ F	@ F	@ F	@ F
Wtr. Loss	<u>8.2 CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	<u>4 3/4"</u>								
Spcgs. - AM	<u>16"</u>								
AM	<u>64"</u>								
AO	<u>18'-8"</u>								
Opr. Rig Time	<u>1 hr</u>								
Truck No.	<u>1523</u>								
Recorded By	<u>Ed Mizer</u>								
Witness M.F.	<u>Ed Schuh</u>								

JUL 20 1958

SCHLUMBERGER WELL SURVEYING CORPORATION

SCHLUMBERGER

Induction Electrical Log

COUNTY GRAND
FIELD or
LOCATION WEST WATER UNIT
WELL FEDERAL #E2
COMPANY OIL INCORPORATED

COMPANY OIL INCORPORATED

Other Surveys

ML, CDM, FT

Location of Well

WELL FEDERAL #E2

57

FIELD WEST WATER UNIT

LOCATION SEC. 7-17S-24E 13

SW SE

Elevation: D.F.:
K.B.: 5869
or G.L.: 5858

COUNTY GRAND

STATE UTAH

FILING No

RUN No.	ONE	TWO						
Date	11-24-58	12-16-58						
First Reading	864	5282						
Last Reading	2669.6	870 39.0						
Feet Measured	938	4412						
Csg. Schlum.	---	870						
Csg. Driller	---	866						
Depth Reached	870	5288						
Bottom Driller	866	5286						
Depth Datum	KB	KB-11' ABOVE GL						
Mud Nat.	CHEM. GEL	CHEM. GEL						
Dens. Visc.	10.2 @ 54	10.6 @ 54						
Mud Resist.	3.2 @ 62	1.8 @ 75						
Res. BHT	2.4 @ 84	0.82 @ 164						
Rmf C	2.1 @ 84	0.74 @ 164						
Rmc C	2.1 @ 84	0.88 @ 164						
pH	-	9.5						
Wtr. Loss	5.0 CC 30 min.	4.6 CC 30 min.						
Bit Size	16"	16"						
Spchs. AM	27' 2"	27' 2"						
IND.	40"	40"						
Opr. Rig Time	1 HR	2 HRS						
Truck No.	1523 GJ	1523 GJ						
Recorded By	MIXA	MIXA						
Witness	WETHERELL	WETHERELL						

REMARKS CC USED SC 1 1/2
MUD SAMPLE FROM MUD PIT
12 1/4" TO 970 - 8 3/4" TO 3100 - 7 7/8" TO TD

Cartridge No. 274C
Panel No. 36B
Sonde No. 145C

11.7 30.6

Reproduced By
Four Corners Well Log Service
Dallas 2, Texas

REFERENCE K1079D

14 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

SCHLUMBERGER

INDUCTION - GAMMA RAY LOG
 SCHLUMBERGER WELL SURVEYING CORPORATION
 Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WESTWATER WELL WESTWATER UNIT # M-3 COMPANY OIL INCORPORATED	COMPANY	OIL INCORPORATED		
	WELL	WESTWATER UNIT # M-3		
	FIELD	WESTWATER		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	NW - NW		Other Services:
	Sec. 7	Twp. 17S	Rge. 24E	58 NONE

Permanent Datum: G.L., Elev. 7025	Elev.: K.B. 7034
Log Measured From K.B., 9 Ft. Above Perm. Datum	D.F. -
Drilling Measured From K.B.	G.L. 7025

Date	11-3-63				
Run No.	ONE				
Depth—Driller	6547				
Depth—Logger	6547				
Btm. Log Interval	6543 ^{27.9}				
Top Log Interval	10				
Casing—Driller	7" @ 2368	@	@	@	@
Casing—Logger	2366				
Bit Size	6 1/4"				
Type Fluid in Hole	DRY-GAS DRILLED				
Dens. Visc.	-				
pH Fluid Loss	- ml	ml	ml	ml	ml
Source of Sample	-				
R _m @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	-				
R _m @ BHT	- @ - °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	-				
Max. Rec. Temp.	151 °F	°F	°F	°F	°F
Equip. Location	2598 G. J.				
Recorded By	MONTGOMERY				
Witnessed By	SCHUH				

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 U. S. GEOLOGICAL SURVEY
 SALT LAKE CITY, UTAH

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SONNENTAG & SUTHERLAND SCREENING CORPORATION
DALLAS, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WESTWATER WELL BOOKCLIFFS #1-A COMPANY WILLARD PEASE DRILLING COMPANY	COMPANY	WILLARD PEASE	Other Surveys ML, CDM
		DRILLING COMPANY	
	WELL	BOOKCLIFFS #1-A	Location of Well SEC. 8-17S-24E SW NW State Log cc Elevation: D.F.: K.B.: 6136 or G.L.: 6128
	FIELD	WESTWATER	
	LOCATION	SEC. 8-17S-24E	
	SW NW		
	COUNTY	GRAND	
	STATE	UTAH	FILING No. 59

RUN No.	ONE	TWO	THREE		
Date	2-23-61	3-3-61	3-6-61		
First Reading	1343 ^{52.4}	5680 ^{33.7}	5851 ^{34.6}		
Last Reading	25	1410	5684		
Feet Measured	1318	4270	167		
Csg. Schlum.	25	1410	---		
Csg. Driller	25	1410	---		
Depth Reached	1349	5686	5857		
Bottom Driller	1348	5694	5865		
Depth Datum	K.B.	K.B.	K.B.		
Mud Nat.	GEL	GEL-CHEM	GEL-CHEM		
Dens. Visc.	9.2 45	9.5 50	9.8 55		
Mud Resist.	3.2 @ 70 °F	2.1 @ 60 °F	2.3 @ 63 °F	@ °F	@ °F
" Res. BHT	2.5 @ 90 °F	0.82 @ 156 °F	0.9 @ 162 °F	@ °F	@ °F
Rmf C	2.2 @ 90 °F	0.6 @ 156 °F	0.52 @ 162 °F	@ °F	@ °F
Rmc C	2.15 @ 90 °F	1.0 @ 156 °F	1.0 @ 162 °F	@ °F	@ °F
" pH	-- @ °F	-- @ °F	8.5 @ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	-- CC 30 min.	2.0 CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	7 7/8"	7 7/8"		
Spcgs. — AM	16"	16"	16"		
MN	27'2"	27'2"	27'2"		
IND.	5FF40	5FF40	5FF40		
Opr. Rig Time	1 HR	2 HRS	3 HRS		
Truck No.	1523 GJ	1523 GJ	1517 VNL		
Recorded By	MONTGOMERY	WARNER			
Witness	PEASE	PEASE	PEASE		

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



MICROLOGGING®

COUNTY GRAND UTAH FIELD or LOCATION BRYSON CANYON WELL BRYSON CANYON UNIT # 3 COMPANY TREND OIL COMPANY	COMPANY TREND OIL	Other Surveys I-ES, CDM
	COMPANY	
	WELL BRYSON CANYON UNIT	Location of Well SEC 8-17S-24E SW-SE-SW <i>60</i>
	UNIT # 3	
FIELD BRYSON CANYON		
LOCATION SEC 8-17S-24E <i>14</i>		
	SW-SE-SW	
COUNTY GRAND		Elevation: D.F.: _____
STATE UTAH		K.B.: 6832 or G.L.: 6822

Log Depths Measured From K. B. 10 Ft. above G. L.

RUN No.	TWO		
Date	JULY 17, 1962		
First Reading	6323	2577	
Last Reading	5300		
Feet Measured	1023		
Depth Reached	6324		
Bottom Driller	6320		
Mud Nat.	OIL-EMUL		
Dens.	8.9	55	
Visc.			
Mud Resist.	2.9 @	80 F	@ F
Res. BHT	1.65 @	140 F	@ F
pH	9 @	----	@ F
Wtr. Loss	4.8	CC 30 min	CC 30 min
Rmf	2.4 @	80 F	@ F
Rmc	---- @	----	@ F
Mud Log: Rm	1.6		
Depth	5750		
Bit Size	6 3/4"		
Sonde Type	PMS-A		
Pad Type	H		
MUD SOURCE	FURNISHED		
Truck No.	3529		
Recorded By	FEATHER		
Witness	CAMPBELL		

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Temperature Log

COUNTY GRAND, UTAH FIELD or LOCATION BRYSON CANYON WELL BRYSON CANYON UNIT #6-A COMPANY TREND OIL COMPANY	COMPANY TREND OIL	Location of Well
	COMPANY	SEC. 9-17S-24E
	WELL BRYSON CANYON	1105' FSL
	UNIT #6-A	1522' FEL
	FIELD BRYSON CANYON	SLM
	LOCATION SEC. 9-17S-24E	Elevation: D.F.: _____
1105' FSL - 1522' FEL SLM	K.B.: 5917	
COUNTY GRAND	or G.L.: 5907	
STATE UTAH	FILING No. 61	

Date 11-23-60 Time Started 0800 Time Finished 0900

First Reading 5253 40.2

Last Reading 2000

Footage Measured 3253

Max. Depth Reached 5254

Bottom Driller 5260

Hole Size 7 7/8"

Casing Size 5 1/2" - 15 1/2#

Depth Datum K.B.

Mud Data Nature WATER Resistivity -- @ -- °F

Fluid Level FULL

Max. Temp. 167°F

Cementation Data Date 11-22 Time Started _____ Time Finished 1830

Circulation Data Date 11-22 Time Started _____ Time Finished 1830

A-Cement Top Determination PROBABLE CEMENT TOP = 3300'

1) Date Pressure Released 11-23-60 Time Released 0800

2) Amount Cement 500 SACKS REGULAR CEMENT

3) Calculated Top 3200

4) Depth of Plug 5254

B-Location of Oil and Gas --

1) Casing Shoe Driller --

2) Date Drilling Stopped -- Time Stopped --

Truck No. 1527 GJ

Recorded By MONTGOMERY

Witnessed By JONES

FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH
 FIELD or LOCATION BRYSON CANYON
 WELL BRYSON CANYON
 COMPANY TREND OIL COMPANY
 UNIT #6-A

COMPANY TREND OIL
 COMPANY
 WELL BRYSON CANYON
 UNIT #6-A
 FIELD BRYSON CANYON
 LOCATION SEC. 9-17S-24E
 1105' FSL - 1522' FEL SLM
 COUNTY GRAND
 STATE UTAH

Other Surveys
 ML, CDM, TEMP
 Location of Well
 SEC. 9-17S-24E
 1105' FSL
 1522' FEL
 SLM
 Elevation: D.F.:
 K.B.: 5917
 or G.L.: 5907
 FILING No. 61

RUN No.	ONE				
Date	11-21-60				
First Reading	5286	7A3			
Last Reading	969				
Feet Measured	4317				
Csg. Schlum.	969				
Csg. Driller	965				
Depth Reached	5292				
Bottom Driller	5290				
Depth Datum	K.B.				
Mud Nat.	GEL, CHEM				
Dens. Visc.	10.0 52				
Mud Resist.	2.65 @ 65 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.04 @ 165 °F	@ °F	@ °F	@ °F	@ °F
Rmf M	2.4 @ 67 °F	@ °F	@ °F	@ °F	@ °F
Rmc	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ -- °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	6.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs. — AM	16"				
MN	27' 2"				
IND.	5 FF 40				
Opr. Rig Time	2 HRS				
Truck No.	1527 GJ				
Recorded By	MONTGOMERY				
Witness	CAMPBELL				

FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL BRYSON CANYON UNIT #2 COMPANY TREND OIL COMPANY	COMPANY	TREND OIL	Other Surveys
		COMPANY	ML
	WELL	BRYSON CANYON	Location of Well
		UNIT #2	(SE OF SW)-SLM
	FIELD	WILDCAT	SEC. 10-17S-24E
		(SE OF NW)-SLM	3322.3'FSL
LOCATION	SEC. 10-17S-24E	2110.2'FWL	
	3322.3'FSL - 2110.2'FWL	Elevation: D.F.:	
COUNTY	GRAND	K.B.: 5838.0	
STATE	UTAH	or G.L.: 5827.8	
		FILING No. 63	

RUN No.	ONE				
Date	10-13-60				
First Reading	5246 <small>40.1</small>				
Last Reading	1016				
Feet Measured	4230				
Csg. Schlum.	1016				
Csg. Driller	1014				
Depth Reached	5247				
Bottom Driller	5240				
Depth Datum	KB-10.5' ABOVE GL				
Mud Nat.	GEL-9% CRUDE				
Dens. Visc.	10.2/103				
Mud Resist.	3.68 @ 70°F	@	°F	@	°F
" Res. BHT	1.53 @ 168°F	@	°F	@	°F
Rmf	2.58 @ 70°F	@	°F	@	°F
Rmc	4.2 @ 70°F	@	°F	@	°F
" pH	7.0 @ °F	@	°F	@	°F
" Wtr. Loss	3.8 CC 30 min.	CC 30 min.		CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM'	64"				
AO	18'8"				
Opr. Rig Time	2 HRS				
Truck No.	1517 VNL				
Recorded By	ZIVLEY				
Witness	JONES				

ROCKY MOUNTAIN ENGINEERING CO.

GRAND JUNCTION, COLORADO

67

Company	Elevation	From	To
Well	Location	Depth Logged	5161
Field	Drilling Fluid	Date Logged	10-23-60 10-31-60
County	State	Engineers	BILL COVEY

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> Shale Sandstone Limestone Dolomite | <ul style="list-style-type: none"> Chert Conglomerate Coal | <ul style="list-style-type: none"> # Core No. # DST No. ○ Deviation |
| Oil Fluorescence
Trace <input type="checkbox"/>
Fair <input type="checkbox"/>
Good <input type="checkbox"/> | | |
| Remarks
NB New Bit
NR No Returns
CO Circulate Out | | |

DRILLING RATE IN MIN./FT.	LITHOLOGY		GAS UNITS				REMARKS
			All Combustible Gas				
			Oil Fluor.	Gas Other Than Methane	Cutting Gas	Mud Gas	
0	0	0	0	0	0	0	DRY ORANGE YELL FO' B&P SH
50	50	50	50	50	50	50	DK DRY GUMBO SHS
100	100	100	100	100	100	100	ODAL STRAS & DK DRY LIGNITIC SHS
150	150	150	150	150	150	150	DRY FO CARB SH
200	200	200	200	200	200	200	LT DRY VFO W-CEM CARB SH
250	250	250	250	250	250	250	AS ADV W/BLK LIG SH STRKE
300	300	300	300	300	300	300	DK CRT-BLK CARB SLTSTS
350	350	350	350	350	350	350	LT DRY F-WO CARB S&P SH
400	400	400	400	400	400	400	DK DRY CARB SLTSTS
450	450	450	450	450	450	450	DK DRY-BLK SLTST & SHS
500	500	500	500	500	500	500	YELL VR W-CEM SH
550	550	550	550	550	550	550	DRY VFO W-CEM W-SORT MD SH & SLTST
600	600	600	600	600	600	600	DRY YELL-ORANGE SH AS ADV
650	650	650	650	650	650	650	DK DRY SLTSTS S/DRY SOFT GUMBO SH
700	700	700	700	700	700	700	YELL SH AS ADV
750	750	750	750	750	750	750	DK DRY SHS W/STAKE DRY GUMBO SH
800	800	800	800	800	800	800	SH AS ADV W/SILTY
850	850	850	850	850	850	850	DRY SILTY SLTST & SH W/SD INCLUS
900	900	900	900	900	900	900	DK DRY SILTY SHS
950	950	950	950	950	950	950	DK DRY SILTY SHS AS ADV
1000	1000	1000	1000	1000	1000	1000	LT DRY FO W-CEM SH W/BLUE FLUO.
1050	1050	1050	1050	1050	1050	1050	DK DRY-BLK SHS
1100	1100	1100	1100	1100	1100	1100	SH AS ADV W/DRY SOFT GUMBO SH



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION BRYSON CANYON WELL BRYSON CANYON UNIT #5-A COMPANY TREND OIL COMPANY	COMPANY TREND OIL	Other Surveys
	COMPANY	ML
	WELL BRYSON CANYON	Location of Well
	UNIT #5-A	SEC. 12-17S-24E SW 1/4 - SE 1/4
	FIELD BRYSON CANYON	Elevation: D.F.: _____ K.B.: _____ or G.L.: 5804
	LOCATION SEC. 12-17S-24E SW 1/4 - SE 1/4	FILING No. 64
COUNTY GRAND	STATE UTAH	

RUN No.	ONE				
Date	10-31-60				
First Reading	5162 ^{29.0}				
Last Reading	936				
Feet Measured	4276				
Csg. Schlum.	936				
Csg. Driller	935				
Depth Reached	5163				
Bottom Driller	5161				
Depth Datum	KB				
Mud Nat.	GEL				
Dens. Visc.	9.2 55				
Mud Resist.	1.4 @ 65' F	@	F	@	F
" Res. BHT	0.7 @ 133' F	@	F	@	F
Rmf M	1.1 @ 75' F	@	F	@	F
Rmc M	1.6 @ 75' F	@	F	@	F
" pH	-- @ -- F	@	F	@	F
" Wtr. Loss	-- CC 30 min.	CC 30 min.		CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM'	64"				
AO	18'8"				
Opr. Rig Time	2 HRS				
Truck No.	1523 GJ				
Recorded By	RUSEN				
Witness	JONES				

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WATER WELL SURVEYING CORPORATION
HOUSTON TEXAS



Induction-Electrical Log

COUNTY GRAND
FIELD or LOCATION WESTWATER
LOCATION WESTWATER UNIT
WELL #E-3
COMPANY OIL, INCORPORATED

COMPANY OIL, INCORPORATED

Other Surveys

ML

Location of Well

WELL WESTWATER UNIT

#E-3

FIELD WESTWATER

LOCATION SEC. 17-17S-24E

NE NW

COUNTY GRAND

STATE UTAH

Elevation: D.F.: 6788
K.B.: 6789
or G.L.: 6775

FILING No. 51065

RUN No.	ONE	TWO	THREE	FOUR
Date	7-1-59	7-2-59	7-20-59	7-26-59
First Reading	1451 _{49.0}	1770 _{40.2}	6006 _{30.0}	6251
Last Reading	67	1451	1775	6006 _{34.1}
Feet Measured	1384	319	4231	245
Csg. Schlum.	67	---	1775	---
Csg. Driller	66	66	1770	1770
Depth Reached	1457	1776	6013	6257
Bottom Driller	1695	1770	6013	6272
Depth Datum	KB	KB	KB-14' ABOVE GL	KB-14' AGL
Mud Nat.	CHEM. GEL	CHEM. GEL	CHEM. GEL	CHEM. GEL
Dens. Visc.	8.5 25	8.5 35	9.7 62	9.7 52
Mud Resist.	2.35 @ 74 °F	2.4 @ 72 °F	1.5 @ 100 °F	@ °F 2.0 @ 80 °F
" Res. BHT	1.9 @ 90 °F	1.9 @ 90 °F	1.0 @ 150 °F	@ °F 0.95 @ 170 °F
Rmf	1.7 @ 90 °F	1.7 @ 90 °F	0.7 @ 150 °F	@ °F 0.6 @ 170 °F
Rmc	2.1 @ 90 °F	2.1 @ 90 °F	1.2 @ 150 °F	@ °F 1.1 @ 170 °F
" pH	8.5 @ °F	8.5 @ °F	0.0 @ °F	@ °F 10.2 @ °F
" Wtr. Loss	8.4 CC 30 min.	8.4 CC 30 min.	6.0 CC 30 min.	CC 30 min. 5.4 CC 30 min.
Bit Size	11"	11"	7 7/8"	7 7/8"
Spcgs.—AM	16"	16"	16"	16"
MN	27' 2"	27' 2"	27' 2"	
IND.	40"	40"	40"	40"
Opr. Rig Time	1 HR	1 HR	4 HRS	
Truck No.	2791 CRTZ	2791 CRTZ	1517 GJ	1523 GJ
Recorded By	FERGUSON	FERGUSON	HANSON	HANSON
Witness	SCHUH	SCHUH	SCHUH	SCHUH

FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY <u>GRAND, UTAH</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>#18 C-2</u> COMPANY <u>OIL, INC.</u>	COMPANY <u>OIL, INC.</u> WELL <u>#18 C-2</u> FIELD <u>WILDCAT</u> LOCATION <u>SEC. 18-17S-24E</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u>	Other Surveys <u>ML</u> Location of Well <u>780' FR W/L</u> <u>2490' FR N/L</u> <u>SEC. 18-17S-24E</u> Elevation: D.F.: _____ K.B.: _____ or G.L.: <u>5618'</u> FILING No. <u>66</u>
--	--	---

RUN No.	ONE				
Date	10-30-57				
First Reading	815.649				
Last Reading	34				
Feet Measured	781				
Csg. Schlum.	--				
Csg. Driller	23				
Depth Reached	816				
Bottom Driller	817				
Depth Datum	RDB				
Mud Nat.	CHEM-GEL				
Dens. Visc.	10.1 58				
Mud Resist.	4.5 @ 55 °F	@ °F	@ °F	@ °F	@ °F
Res. BHT	3.2 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Rmf	3.0 @ 30 °F	@ °F	@ °F	@ °F	@ °F
Rmc	2.7 @ 80 °F	@ °F	@ °F	@ °F	@ °F
pH	8.5 @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	5.3 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8" - 626 6 3/4" - 770 4 3/4" TO TD				
Spchs.—AM	16"				
A M'	64"				
AO	18'8"				
Opr. Rig Time	1 HR				
Truck No.	1746 FARM				
Recorded By	HAMILTON				
Witness	SCHUB				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WESTWATER WELL WESTWATER UNIT #C-8 COMPANY OIL INCORPORATED	COMPANY OIL INCORPORATED	Other Surveys NONE
	WELL WESTWATER UNIT #C-8	Location of Well
	FIELD WESTWATER	Elevation: D.F.: K.B.: 5613 or G.L.: 5609
	LOCATION SEC. 18-17S-24E SW SW	FILING No. 67
COUNTY GRAND	STATE UTAH	

RUN No.	ONE				
Date	5-13-59				
First Reading	1146 46.1				
Last Reading	92				
Feet Measured	1054				
Csg. Schlum.	---				
Csg. Driller	---				
Depth Reached	1147				
Bottom Driller	1147				
Depth Datum	KB-4 'ABOVE GL				
Mud Nat.	GEL				
Dens. Visc.	9.6 48				
Mud Resist.	3.0 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Res. BHT	3.0 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Rmf	2.7 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Rmc	2.5 @ 80 °F	@ °F	@ °F	@ °F	@ °F
pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	4 3/4"				
Spcgs.—AM	16"				
A	64"				
AO	18' 8"				
Opr. Rig Time	1 HR				
Truck No.	1523 GJ				
Recorded By	ROSEN				
Witness	SCHUH				

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Temperature Log

WESTWATER UNIT
 WESTWATER UNIT
 WESTWATER UNIT
 #D-2
 COMPANY OIL INCORPORATED

COMPANY OIL INCORPORATED	Location of Well
WELL: WESTWATER UNIT #D-2	SEC. 18-17S-24E NW NE
FIELD: WESTWATER	Elevation: D.F.: K.B.: 5794 or G.L.:
LOCATION: SEC. 18-17S-24E NW NE	FILING No. 68
COUNTY: GRAND	
STATE: UTAH	

Date: 4-9-61 Time Started: 0800 Time Finished: 0900

First Reading: 4395 (7)

Second Reading: 1500 (5)

Distance Measured: 2895

Actual Depth Reached: 4396

Bottom Driller: 4410

Cable Size: 6 1/8"

Casing Size: 4 1/2"

Depth Datum: K.B.

Well Data: Nature WATER Resistivity -- @ -- "F

Fluid Level: FULL

Max Temp: 175°F

cementation Data: Date 4-8-61 Time Started 2200 Time Finished 0300

irculation Data: Date Time Started Time Finished

A. Cement Top Determination

- 1) Date Pressure Released: 4-9-61 Time Released: 0300
- 2) Amount Cement: REGULAR CEMENT
- 3) Calculated Top: 3300
- 4) Depth of Plug: 4410

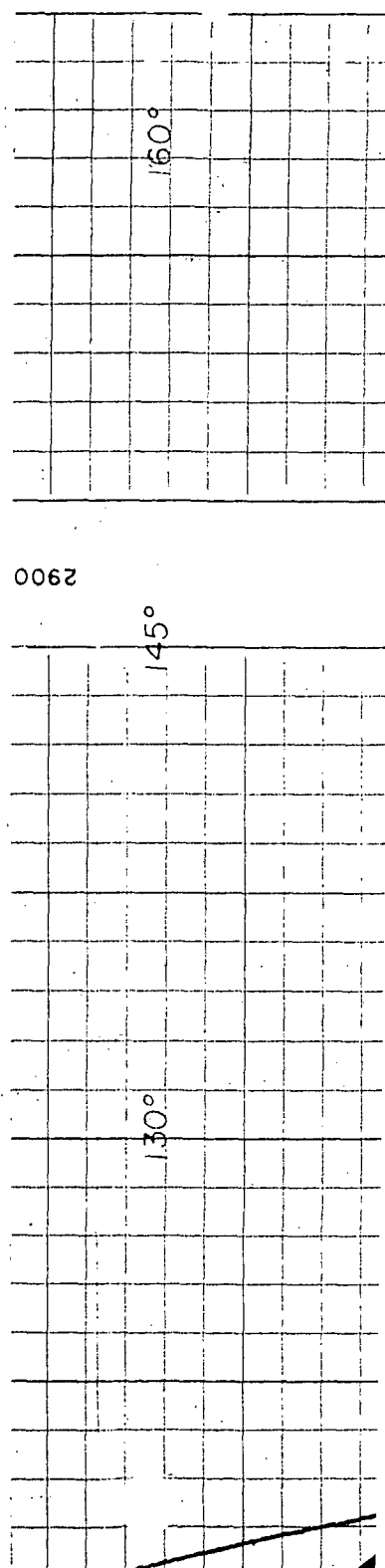
B. Location of Oil and Gas:

- 1) Casing Shoe Driller: --
- 2) Date Logging Stopped: -- Time Stopped: --

Well No. 1523 GJ

FOLD HERE

TEMPERATURE ° F.



RKS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WESTWATER WELL WESTWATER UNIT #D-2 COMPANY OIL INCORPORATED	COMPANY	OIL INCORPORATED	Other Surveys
	WELL	WESTWATER UNIT #D-2	CST, TEMP.
	FIELD	WESTWATER	Location of Well
	LOCATION	SEC. 18-17S-24E NW NE	
	COUNTY	GRAND <i>2</i>	Elevation: D.F.:
	STATE	UTAH	K.B.: 5794 or G.L.:
			FILING No. 68

RUN No.	ONE				
Date	4-7-61				
First Reading	4402 <i>40.2</i>				
Last Reading	807				
Feet Measured	3595				
Csg. Schlum.	807				
Csg. Driller	806				
Depth Reached	4403				
Bottom Driller	4406				
Depth Datum	K.B.				
Mud Nat.	GEL-CHEM				
Dens. Visc.	9.2 42				
Mud Resist.	1.5 @ 65 F	@	F	@	F
Res. BHT	0.66 @ 148 F	@	F	@	F
Rmf C	0.45 @ 148 F	@	F	@	F
Rmc C	0.95 @ 148 F	@	F	@	F
pH	9.0 @	@	F	@	F
Wtr. Loss	7.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	6 1/8"				
Spchs.—AM	16"				
AM'	64"				
AO	18' 8"				
Opr. Rig Time	2 HRS				
Truck No.	1523 GJ				
Recorded By	MONTGOMERY				
Witness	WETHERALL & SCHUH				

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY FIELD or LOCATION WELL	GRAND WESTWATER WESTWATER UNIT NO. 2	COMPANY OIL RESOURCES	COMPANY OIL RESOURCES		
			WELL WESTWATER UNIT NO. 2 <i>CS</i>		
			FIELD WESTWATER		
			COUNTY GRAND STATE UTAH		
COUNTY FIELD or LOCATION WELL	GRAND WESTWATER WESTWATER UNIT NO. 2	COMPANY OIL RESOURCES	LOCATION 967' FNL & 2480' FEL		Other Services: FDC-GR CNL 69
			Sec. 18 Twp. 17S Rge. 24E		
Permanent Datum: GL, Elev. 5749			Elev.: K.B. 5759		
Log Measured From KB, 10 Ft. Above Perm. Datum			D.F. ---		
Drilling Measured From KB			G.L. 5749		
Date	2-22-72				
Run No.	ONE				
Depth—Driller	5951				
Depth—Logger	5957				
Btm. Log Interval	5956 315				
Top Log Interval	928				
Casing—Driller	8 5/8@923		@	@	@
Casing—Logger	928				
Bit Size	7 7/8				
Type Fluid in Hole	CHEM GEL				
Dens.	Visc.	8.9	50		
pH	Fluid Loss	9.0	6.0 ml	ml	ml
Source of Sample	FLOWLINE				
R _m @ Meas. Temp.	1.18 @ 66 °F	@	°F	@	°F
R _{mt} @ Meas. Temp.	0.94 @ 66 °F	@	°F	@	°F
R _{mc} @ Meas. Temp.	1.05 @ 66 °F	@	°F	@	°F
Source: R _{mt}	R _{mc}	M	C		
R _m @ BHT	.50 @ 154 °F	@	°F	@	°F
Time Since Circ.	4 HOURS				
Max. Rec. Temp.	154	°F	°F	°F	°F
Equip. Location	5640	VERNAL			
Recorded By	MIXA/DANTI				
Witnessed By	KREY & WALSH				

17 S 25 E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION NW BAR X WELL GOVERNMENT #1 COMPANY B. W. HANCOCK	COMPANY B. W. HANCOCK	Location of Well ML Elevation: D.F.: Km K.B.: 5386 or G.L.: 5375
	WELL GOVERNMENT #1	
	FIELD NW BAR X	
	LOCATION SEC. 3 17S 25E C SE SE	
	COUNTY GRAND	
STATE UTAH	FILING No. S.J.R. 70	

RUN No.	ONE				
Date	8-15-56				
First Reading	4117 ^{32.4}				
Last Reading	202				
Feet Measured	3915				
Csg. Schlum.	202				
Csg. Driller	200				
Depth Reached	4118				
Bottom Driller	4133				
Depth Datum	KB				
Mud Nat.	CHEM. GEL				
" Density	10				
" Viscosity	40				
" Resist.	1.2 @ 80°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.8 @ 125°F	@ °F	@ °F	@ °F	@ °F
" pH	8.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	8.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	125				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A	64"				
AO	18' 8"				
Opr. Rig Time	1 HR				
Truck No.	782 GJ				
Recorded By	FERGUSON				
Witnessed By	OUTGLEY				

FOLD HERE

SCHLUMBERGER

TEMPERATURE LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL WILDCOW UNIT GOVERNMENT # 1 COMPANY ALPINE OIL COMPANY INC.	COMPANY	ALPINE OIL COMPANY	Location of Well
		INC.	SEC 4-17S-25E 1320'FSL - 2640'FEL
	WELL	WILDCOW UNIT	
		GOVERNMENT # 1	
	FIELD	WILDCAT	Elevation: D.F.: - K.B.: 5656 or G.L.: 5648
	LOCATION	SEC 4-17S-25E	
		1320'FSL - 2640'FEL	
	COUNTY	GRAND	FILING No. <u>71</u>
	STATE	UTAH	
Date <u>2-4-64</u> ✓ Time Started <u>1400</u> Time Finished <u>1500</u>			
First Reading <u>4607</u> <u>46.7</u>			
Last Reading <u>3500</u>			
Footage Measured <u>1107</u>			
Max. Depth Reached <u>4608</u>			
Bottom Driller <u>4600</u>			
Hole Size <u>6 1/4"</u>			
Casing Size <u>7"</u>			
Depth Datum <u>K.B.</u>			
Mud Data Nature <u>DRY-AIR DRLD.</u> Resistivity <u>@</u> °F			
Fluid Level <u>-</u>			
Max. Temp. <u>169° F</u>			
Cementation Data Date Time Started Time Finished			
Circulation Data Date Time Started Time Finished			
A-Cement Top Determination			
1) Date Pressure Released Time Released			
2) Amount Cement			
3) Calculated Top			
4) Depth of Plug			
B-Location of Oil and Gas <u>GAS ZONE DETERMINATION</u>			
1) Casing Shoe Driller <u>373</u>			
2) Date Drilling Stopped <u>2-4-64</u> ✓ Time Stopped			
Truck No. <u>2598 GRAND JUNCTION</u>			
Recorded By <u>MONTGOMERY</u>			
Witnessed By <u>CARTER & EVANS</u>			

TEMP

Schlumberger

INDUCTION - ELECTRICAL LOG

COMPANY Hancock

WELL Government No. 20

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION: API Serial No. _____

Sec. 9 Twp. 17S Rge. 25E 9

Other Services:

F06-GR

~~72~~ 72

Permanent Datum: GL; Elev.: 5483
 Log Measured From KB, 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 5493
 D.F. —
 G.L. 5483

Date	<u>4-6-75</u>				
Run No.	<u>ONE</u>				
Depth—Driller	<u>3805</u>				
Depth—Logger	<u>3805</u>				
Btm. Log Interval	<u>3804-369</u>				
Top Log Interval	<u>200</u>				
Casing—Driller	<u>7 @ 120</u>	@	@	@	@
Casing—Logger	—				
Bit Size	<u>6 1/4</u>				
Type Fluid in Hole	<u>F6M</u>				
Dens.	<u>10.6</u>	<u>51</u>			
pH	<u>8.0</u>	<u>3.6 ml</u>	ml	ml	ml
Source of Sample	<u>Flowline</u>				
R _m @ Meas. Temp.	<u>2.98 @ 65 °F</u>	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>2.10 @ 65 °F</u>	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>— @ — °F</u>	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>Meas —</u>				
R _m @ BHT	<u>1.51 @ 128 °F</u>	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped <u>14:00</u>				
	Logger on Bottom <u>18:30</u>				
Max. Rec. Temp.	<u>128</u>	°F	°F	°F	°F
Equip.	<u>5602</u>	<u>GJ</u>			
Recorded By	<u>Walker-Geiger</u>				
Witnessed By	<u>Robinson</u>				

The well name, location and holehead information data were furnished by the customer.

SCHEIDTBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION BAR X WELL BAR X UNIT #6 COMPANY AMERICAN METAL COMPANY, LTD.	COMPANY AMERICAN METAL	Location of Well
	COMPANY, LTD.	C SE NE SEC. 11-17S-25E
	WELL BAR X UNIT #6	<i>Noted</i> C# 16 7-16 ES (ML)
	FIELD BAR X	Elevation: D.F.: K.B. 5332' or G.L.:
	LOCATION SEC. 11-17S-25E	
	COUNTY GRAND	
	STATE UTAH	FILING No. 73

RUN No.	ONE				
Date	5-2-56				
First Reading	3896 ^{32.7}				
Last Reading	161				
Feet Measured	3735				
Csg. Schlum.	161				
Csg. Driller	161				
Depth Reached	3897				
Bottom Driller	2900				
Depth Datum	KB				
Mud Nat.	GEL CHEM				
" Density	10.5				
" Viscosity	70				
" Resist.	1.1 @ 80°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.7 @ 121°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	10 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	121				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM	64"				
AO	18' 8"				
Opr. Rig Time	1 1/2 HRS				
Truck No.	1773 FARM				
Recorded By	COVEY				
Witnessed By	CATES				

FOLD HERE

SCHUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION BAR-X WELL UNIT #3 COMPANY THE AMERICAN METAL COMPANY LTD.	COMPANY THE AMERICAN METAL COMPANY LTD	Location of Well
	WELL UNIT #3	
	FIELD BAR-X	ML
	LOCATION SEC. 12 17S 25E	
	C NE SW	
	COUNTY GRAND	Elevation: D.F.: K.B.: 5292 or G.L.: 5280
STATE UTAH	FILING No. 74	

RUN No.	ONE	TWO			
Date	11-11-55	11-28-55			
First Reading	2997 ^{40.1}	3735 ^{52.1}			
Last Reading	166	2997			
Feet Measured	2831	738			
Csg. Schlum.	166	-			
Csg. Driller	166	-			
Depth Reached	2998	3736			
Bottom Driller	3090	3735			
Depth Datum	KB	KB			
Mud Nat.	GEL-CHEM	GEL-CHEM			
" Density	10.2	9.9			
" Viscosity	51	50			
" Resist.	1.93 @ 58 F	1.2 @ 60 F	@ °F	@ °F	@ °F
" Res. BHT	1.0 @ 117 F	.62 @ 118 F	@ °F	@ °F	@ °F
" pH	8.5 @ - F	- @ - F	@ °F	@ °F	@ °F
" Wtr. Loss	7.6 CC 30 min.	- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. F	117	118			
Bit Size	8 3/4"	8 3/4"			
Spcgs.—AM	16"	16"			
A	64"	64"			
AO	18'8"	18'8"			
Opr. Rig Time	1 HR	1 HR			
Truck No.	782 GJ	782 GJ			
Recorded By	HILLER	RUSEN			
Witnessed By	OATES	CARTER			

FOLD HERE



BIRDWELL

Induction Electric Log

COMPANY A LANSDALE

WELL #1 LANSDALE - BAR X

FIELD BAR X

COUNTY GRAND STATE UTAH

LOCATION: SW NE
1506' FNL, 1506' FEL
SEC. 14 TWP. 17S RGE. 25E **7**

OTHER SERVICES:
GR FDL
75

PERMANENT DATUM GROUND LEVEL ELEV. 5239'
LOG MEASURED FROM KB 13 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KB

ELEV. K.B. 5252'
D.F. _____
G.L. 5239'

DATE	7 APR. 76						
RUN NO.	ONE						
DEPTH-DRILLER	3900'						
DEPTH-LOGGER	3962'						
BTM. LOG INTER.	3956' 31.8						
TOP LOG INTER.	110'						
CASING-DRILLER	8-5/8 @ 100KB			@	@	@	@
CASING-LOGGER	110KB						
BIT SIZE	7-7/8"						
TYPE FLUID IN HOLE	MUD						
DENS.	VISC.	10					
pH	FLUID LOSS	8.4 ml		ml	ml	ml	ml
SOURCE OF SAMPLE	FLOWLINE						
Rm@ MEAS. TEMP.	2.2Ω @ 66 °F			@ °F	@ °F	@ °F	@ °F
Rmf@ MEAS. TEMP.	1.4Ω @ 65 °F			@ °F	@ °F	@ °F	@ °F
Rmc@ MEAS. TEMP.	2Ω @ 63 °F			@ °F	@ °F	@ °F	@ °F
SOURCE Rmf	Rmc	M M					
Rm @ B.H.T.	1.18 @ 120°F			@ °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	3 HOURS						
MAX. REC. TEMP.	120 °F			°F	°F	°F	°F
EQUIP. LOCATION	2896 GRAND JUNCTION						
RECORDED BY	LENTZ						
WITNESSED BY	MR. ROBINSON						

SC-657-B

	COMPANY: American Metal
	WELL: #1 GOV.L.
	FIELD: W Bar X (W)
	LOCATION: C SW SW 15-17S-25E
	COUNTY: Grand STATE: Utah

76

DATE	7-6-55				
FIRST READING	3811	35.4			
LAST READING	3456				
FOOTAGE MEASURED	355				
CSG SHOT SCHEDULE	3456				
CSG SHOT DRILLER	3460				
MAX. DEPTH RECORDED	3814				
BOTTOM DRILLER	3815				
DEPTH DATUM	DF				
MUD NATURE					
• DENSITY	10				
• VISCOSITY	80				
• RESISTIVITY	1.5 90				
• RESISTIVITY (MT)	1.1 125				
• PH					
• WATER LOSS					
MAXIMUM TEMP.	125				
BIT SIZE	6 1/4"				
SPACINGS - IN	2"				
A.M.	1 1/2"				
E. S. REG TIME	1 hr				
TRUCK NO.	782 GJ				
RECORDED BY	Rusen				
WITNESSED BY	Hogan				

REMARKS
 Mud sample from mud pit.
 * Crude Oil, Gel, Caustic, Queb.

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY -ohms. m ² /m
		0 Micro Inverse 1" x 1" 20
		0
		0 Micro Normal 2" 20
	CSG 3456	0

HOLE SIZE IN INCHES
 7 8 9 D

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SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION WELL GOVERNMENT #35 COMPANY HANCOCK	COMPANY <u>HANCOCK</u>			
	WELL <u>GOVERNMENT NO. 35</u>			
	FIELD <u>WILDCAT</u>			
	COUNTY <u>GRAND</u>		STATE <u>UTAH</u>	
LOCATION				
API SERIAL NO		SEC	TWP	RANGE
		17	17S	25E
Other Services:				
IES 77				

Permanent Datum: <u>GL</u>	Elev.: <u>5511</u>
Log Measured From <u>KB</u>	Elev.: K.B. <u>5521</u>
Drilling Measured From <u>KB</u>	D.F. _____
	G.L. <u>5511</u>

Date	5-4-75		
Run No.	ONE		
Depth-Driller	3691		
Depth-Logger	3683		
Btm. Log Interval	3632	34.7	
Top Log Interval	1500		
Casing-Driller	7 @150	@	@
Casing-Logger			
Bit Size	6-1/4		
Type Fluid in Hole	GEL		
Dens.	3.6	52	
pH	9.5	1.8 ml	ml
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	8.2 @74	F	@ F
Rmf @ Meas. Temp.	3.2 @76	F	@ F
Rmc @ Meas. Temp.	@	F	@ F
Source: Rmf Rmc	MEAS		
Rm @ BHT	@121	F	@ F
TIME	Circulation Stopped 5 HOURS		
	Logger on Bottom		
Max. Rec. Temp.	121	F	F
Equip. Location	4111 GJ		
Recorded By	THOMPSON-BRUCKMAN		
Witnessed By Mr.	ROBINSON-HANCOCK		

RETURN TO CABPER

The well name location and location of the well is shown on the well log.



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL WEST BAR X #1 COMPANY BURTON W. HANCOCK	COMPANY BURTON W. HANCOCK	Location of Well NE $\frac{1}{4}$ - NW $\frac{1}{4}$ SEC. 21-17S-25E
	WELL WEST BAR X #1	
	FIELD WILDCAT	ES
	LOCATION SEC. 21-17S-25E	
	COUNTY GRAND	Elevation: D.F.: _____ K.B.: _____ or G.L.: 5485
	STATE UTAH	FILING No. 78

RUN No.	ONE				
Date	2-21-54				
First Reading	4094				
Last Reading	3516				
Feet Measured	578				
Csg. Schlum.	3516				
Csg. Driller	3516				
Depth Reached	4094				
Bottom Driller	4130				
Depth Datum	KB				
Mud Nat.	QUEB-GEL-SODA ASH				
" Density	9.3				
" Viscosity	40				
" Resist.	2.0 @ 60 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.0 @ 122 °F	@ °F	@ °F	@ °F	@ °F
" pH	8 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	9 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	122				
Bit Size	6-1/4"				
Spcgs.—AM	16"				
AM*	64"				
AO	18*8"				
Opr. Rig Time	1 HR.				
Truck No.	1714 FARM				
Recorded By	DANIELS				
Witness By	HANCOCK				

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INDUCTION ELECTRICAL LOG

COUNTY GRAND
 FIELD WILDCAT
 LOCATION NESE
 WELL BAR CREEK UNIT #3
 COMPANY WILLARD PEASE O & GAS

COMPANY WILLARD PEASE OIL & GAS
 WELL BAR CREEK UNIT #3
 FIELD WILDCAT
 COUNTY GRAND STATE UTAH

LOCATION NESE
 API SERIAL NO. SEC. TWP RANGE
 S23 T17S R25E 9

Other Services: 79
 FDC-CNL-GR

Permanent Datum: GL, Elev.: 5180
 Log Measured From: KB, 10 Ft. Above Perm. Datum
 Drilling Measured From: KB

Elev.: K.B. 5190
 D.F. --
 G.L. 5180

Date	10-24-77			
Run No.	ONE			
Depth-Driller	3280			
Depth-Logger (Schl.)	3288			
Btm. Log Interval	3282	24.4		
Top Log Interval	180			
Casing-Driller	8 5/8 @ 179	@	@	@
Casing-Logger	180			
Bit Size	7 7/8			
Type Fluid in Hole	FGM			
Dens.	8.8	125		
Visc.				
pH	--	-- ml	ml	ml
Fluid Loss				
Source of Sample	MUDPIT			
Rm @ Meas. Temp.	.388 @ 55°F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.31 @ 55°F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ --°F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	CALC	--	
Rm @ BHT	.23 @ 95°F	@ °F	@ °F	@ °F
Circulation Stopped	2000			
Logger on Bottom	2230			
Max. Rec. Temp.	95°F	°F	°F	°F
Equip.	7759	4111		
Location				
Recorded By	POVICH-TAYLOR			
Witnessed By Mr.	OUIGLEY			

The well name, location and borehole reference data were furnished by the customer.

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Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION NESE WELL BAR CREEK UNIT #3 COMPANY WILLARD PEASE O & G	COMPANY WILLARD PEASE OIL & GAS	
	WELL BAR CREEK UNIT #3	
	FIELD WILDCAT	
	COUNTY GRAND STATE UTAH	
LOCATION NESE	Other Services: IES <i>88</i> 79	
API SERIAL NO.	SEC. S23	TWP. T17S
		RANGE R25E

Permanent Datum: GL	Elev.: 5180
Log Measured From KB	Elev.: K.B. 5190
Drilling Measured From KB	D.F. --
	G.L. 5180

Date	10-24-77			
Run No.	ONE			
Depth-Driller	3280			
Depth-Logger	3286			
Btm. Log Interval	3285 ²⁴⁴			
Top Log Interval	1950			
Casing-Driller	8 578@ 179	@	@	@
Casing-Logger	--			
Bit Size	7 778			
Type Fluid in Hole	FGM			
Dens.	8.8	125		
Visc.	--	-- ml	ml	ml
pH				
Fluid Loss				
Source of Sample	MUDPIT			
Rm @ Meas. Temp.	.388@ 12F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.31 @ 55F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ --F	@ °F	@ °F	@ °F
Source: Rmf	C			
Rmc	--			
Rm @ BHT	.23 @ 95F	@ °F	@ °F	@ °F
Circulation Stopped	2000			
Logger on Bottom	0600 10-25			
Max. Rec. Temp.	95F	°F	°F	°F
Equip.	7759	4111		
Location				
Recorded By	POVICH-TAYLOR			
Witnessed By Mr.	QUIGLEY			

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



MICROLOGGING®

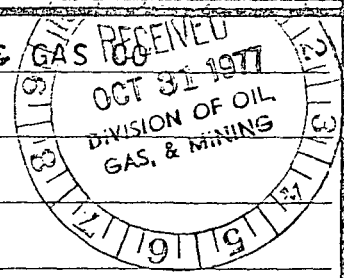
COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T #2 COMPANY AMERICAN METAL COMPANY, LTD.	COMPANY AMERICAN METAL COMPANY, LTD.	Other Surveys ES
	WELL GOV'T #2	Location of Well
	FIELD WILDCAT	Elevation: D.F.: -- K.B.: 5133 or G.L.: 5127
	LOCATION SEC. 24 17S 25E C SE SW	FILING No. 81
COUNTY GRAND	STATE UTAH	

RUN No.	ONE				
Date	12-17-56				
First Reading	2818.433				
Last Reading	1900				
Feet Measured	918				
Depth Reached	2821				
Bottom Driller	2820				
Depth Datum	KB				
Mud Nat.	CHEM GEL				
Dens.	9.7	42			
Mud Resist.	1.8 @ 53°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	.9 @ 118°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min	CC 30 min	CC 30 min	CC 30 min	CC 30 min
" Rmf BHT	.55 @ 118°F	@ °F	@ °F	@ °F	@ °F
" Rmc BHT	1.0 @ 118°F	@ °F	@ °F	@ °F	@ °F
Mud Log: Rm	1.0				
Limit	UPPER				
Depth	2450'				
Bit Size	7 7/8"				
Sonde Type	WRS-T				
Pad Type	H				
Opr. Rig Time	2 HRS.				
Truck No.	1523 GJ				
Recorded By	RUSEN				
Witness	DALEY				

Schlumberger

WILDCAT - FIELD

COUNTY GRAND FIELD WILDCAT LOCATION 24-17S-25E WELL BAR CREEK UNIT #2 COMPANY WILLARD PEASE O & G	COMPANY	WILLARD PEASE OIL & GAS CO		
	WELL	BAR CREEK UNIT #2		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION			
API SERIAL NO.	SEC. 24	TWP. 17S	RANGE 25E	10
Other Services:				82
				FDC-CNL-GR



Permanent Datum:	GL	Elev.:	5135
Log Measured From:	KB	10 Ft. Above Perm. Datum	
Drilling Measured From:	KB		
Elev.:	K.B. 5145	D.F. --	G.L. 5135

Date	10-18-77		
Run No.	ONE		
Depth-Driller	2966		
Depth-Logger (Schl.)	2966		
Btm. Log Interval	2960	26.1	
Top Log Interval	165		
Casing-Driller	8 5/8 @ 163	@	@
Casing-Logger	165		
Bit Size	7 7/8		
Type Fluid in Hole	FGM		
Dens.	9.0	81	
pH	Fluid Loss	--	-- ml
Source of Sample	MUD TANK		
Rm @ Meas. Temp.	.58 @ 77F	@ °F	@ °F
Rmf @ Meas. Temp.	.44 @ 77F	@ °F	@ °F
Rmc @ Meas. Temp.	.87 @ 77F	@ °F	@ °F
Source: Rmf	Rmc	CALC	CALC
Rm @ BHT	.40 @ 109F	@ °F	@ °F
TIME	Circulation Stopped	1600	
	Logger on Bottom	1800	
Max. Rec. Temp.	109F °F		
Equip.	Location	7759	G.J.
Recorded By	BRATTON		
Witnessed By Mr.	OUIGLEY		

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL GOVERNMENT #6 COMPANY BURTON W. HANCOCK	COMPANY	BURTON W. HANCOCK	Other Surveys	GR
	WELL	GOVERNMENT #6	Location of Well	SEC. 30-17S-25E NE SW
	FIELD	WILDCAT	Elevation: D.F.:	K.B.: 5303 or G.L.: 5297
	LOCATION	SEC. 30-17S-25E NE SW	COUNTY	GRAND
	STATE	UTAH	FILING No.	83

RUN No.	ONE				
Date	11-30-60				
First Reading	4275				
Last Reading	1650				
Feet Measured	2625				
Csg. Schlum.	---				
Csg. Driller	168				
Depth Reached	4276				
Bottom Driller	4297				
Depth Datum	K.B. -6' ABOVE G.L.				
Mud Nat.	WATER				
Dens. Visc.	-- --				
Mud Resist.	0.35 @ 60' F	@	F	@	F
Res. BHT	0.14 @ 152' F	@	F	@	F
Rmf	-- @ --' F	@	F	@	F
Rmc	-- @ --' F	@	F	@	F
pH	-- @ --' F	@	F	@	F
Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM	64"				
AO	18'8"				
Opr. Rig Time	1 HR				
Truck No.	1527 GJ				
Recorded By	MONTGOMERY				
Witness	QUIGLEY				

FOLD HERE

175 26E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND FIELD or LOCATION BAR-X WELL W. A. PETERSON "A" UNIT # 1 COMPANY TENNESSEE GAS TRANSMISSION CO.	COMPANY TENNESSEE GAS <i>Handwritten</i> Other Surveys
	TRANSMISSION CO.
	WELL W. A. PETERSON
	"A" UNIT #1
	FIELD BAR-X
LOCATION SEC. 8-17S-26E <i>2</i>	ML Location of Well Elevation: D.F.: 5277.2 K.B.: 5277.6 or G.L.: 5271.0
NW NE	
COUNTY GRAND	FILING No. <i>84</i>
STATE UTAH	

RUN No.	ONE				
Date	9-17-58				
First Reading	3890 <i>70.5</i>				
Last Reading	265				
Feet Measured	3625				
Csg. Schlum.	265				
Csg. Driller	264				
Depth Reached	3896				
Bottom Driller	3896				
Depth Datum	KB*				
Mud Nat.	GEL				
Dens. Visc.	8.7 65				
Mud Resist.	0.92 @ 80 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.68 @ 116 °F	@ °F	@ °F	@ °F	@ °F
Rmf	0.60 @ 116 °F	@ °F	@ °F	@ °F	@ °F
Rmc	0.90 @ 116 °F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	27' 2"				
IND.	40"				
Opr. Rig Time	2 HRS				
Truck No.	1517 GJ				
Recorded By	BACHMAN				
Witness	THOMPSON				

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION BAR-X EXTENSION WELL BAR-X UNIT #5 COMPANY THE AMERICAN METAL CO., LTD.	COMPANY THE AMERICAN METALS CO., LTD.	Location of Well
	WELL BAR-X UNIT #5	C-SE-NE SEC. 17-17S-26E
	FIELD BAR-X EXTENSION	ES (ML)
	LOCATION SEC. 17-17S-26E	Elevation: D.F.: K.B.: 5213 or G.L.: 5202
COUNTY GRAND	STATE UTAH	FILING No. 85

RUN No.	ONE				
Date	2/5/56				
First Reading	3633	21'			
Last Reading	150				
Feet Measured	3483				
Csg. Schlum.	150				
Csg. Driller	150				
Depth Reached	3634				
Bottom Driller	3532				
Depth Datum	KB				
Mud Nat.	GEL-CHEM				
" Density	10.5				
" Viscosity	43				
" Resist.	1.4 @ 48°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	.68 @ 105°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	7 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	105				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM'	64"				
AO	18' 8"				
Opr. Rig Time	2 HRS				
Truck No.	1786 FARM				
Recorded By	MONTGOMERY				
Witnessed By	OATES				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND UTAH FIELD or LOCATION BAR-X EXTENSION WELL BAR-X #4 COMPANY THE AMERICAN METAL CO. LTD.	COMPANY THE AMERICAN METAL CO., LTD.	Location of Well
	WELL BAR-X #4	C-NE-NE SEC. 18-17S-26E
	FIELD BAR-X EXTENSION	ES (ML)
	LOCATION SEC. 18-17S-26E	Elevation: D.F.: K.B.: 5158 or G.L.:
COUNTY GRAND	STATE UTAH	FILING No. 86

RUN No.	ONE				
Date	1/12/56				
First Reading	3600 ^{32.9}				
Last Reading	166				
Feet Measured	3434				
Csg. Schlum.	166				
Csg. Driller	170				
Depth Reached	3601				
Bottom Driller	3599				
Depth Datum	KB				
Mud Nat.	GEL				
" Density	9.7				
" Viscosity	50				
" Resist.	2.0 @ 42°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	8 @ 116°F	@ °F	@ °F	@ °F	@ °F
" pH	9.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	4.3 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	116				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A M'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR				
Truck No.	1714 FARM				
Recorded By	KIMBALL				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL S. BAR X GOVERNMENT #3 COMPANY AMERICAN CLIMAX PETROLEUM CORP.	COMPANY AMERICAN CLIMAX	Other Surveys
	PETROLEUM CORP.	CDM
	WELL S. BAR X	Location of Well
	GOVERNMENT #3	SEC. 19-17S-26E C NE NE
FIELD WILDCAT	LOCATION SEC. 19-17S-26E	Elevation: D.F.:
C NE NE	COUNTY GRAND	K.B.: 5107
STATE UTAH		or G.L.: 5101
		FILING No. 87

RUN No.	ONE				
Date	10-27-58				
First Reading	3281 -27.2				
Last Reading	152				
Feet Measured	3129				
Csg. Schlum.	152				
Csg. Driller	152				
Depth Reached	3282				
Bottom Driller	3279				
Depth Datum	KB 6.0' ABOVE GL				
Mud Nat.	CHEMICAL				
Dens. Visc.	8.9 54				
Mud Resist.	.71 @ 75	@	@	@	@
Res. BHT	.59 @ 100	@	@	@	@
Rmf C	.40 @ 100	@	@	@	@
Rmc C	.3 @ 100	@	@	@	@
pH	11.0 @	@	@	@	@
Wtr. Loss	7.5 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR.				
Truck No.	2783 CRTZ.				
Recorded By	PHILLIPS				
Witness	MR. QUIGLEY & MR. HUBBARD				

Schlumberger

INDUCTION ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION BAR CREEK WELL FEDERAL #1 ANSCHUTZ COMPANY WILLARD PEASE	COMPANY WILLARD PEASE OIL & GAS	
	WELL FEDERAL #1 ANSCHUTZ	
	FIELD BAR CREEK	
	COUNTY GRAND STATE UTAH	
LOCATION: NW SE API Serial No. _____		Other Services: 88
Sec. 19 Twp. 17S Rge. 26E 11		GDC-CNL-GR

Permanent Datum: <u>G.L.</u> ; Elev.: _____	Elev.: K.B. <u>5070</u>
Log Measured From <u>KB</u> , <u>10</u> Ft. Above Perm. Datum	D.F. <u>----</u>
Drilling Measured From <u>KB</u>	G.L. <u>5060</u>

Date	1/3/77	1/6/77		
Run No.	ONE	TWO		
Depth-Driller	2222	2740		
Depth-Logger	2226	2742		
Btm. Log Interval	2222 ²⁶⁴	2736 ²⁸³		
Top Log Interval	159	157		
Casing-Driller	8 5/8 @ 160	8 5/8 @ 160	@	@
Casing-Logger	159	157		
Bit Size	7 7/8	7 7/8		
Type Fluid in Hole	FGM	FGM		
Dens.	---	9.3	70	
Visc.	---	---	---	
pH	---	---	---	
Fluid Loss	---	---	---	
Source of Sample	FLOW LINE	FLOW LINE		
R _m @ Meas. Temp.	.87 @ 48 °F	1.69 @ 57 °F	@	°F
R _{mf} @ Meas. Temp.	.74 @ 48 °F	.89 @ 57 °F	@	°F
R _{mc} @ Meas. Temp.	--- @ --- °F	2.5 @ 57 °F	@	°F
Source: R _{mf} R _{mc}	MEAS ---	M. C		
R _m @ BHT	.50 @ 82 °F	1.0 @ 86 °F	@	°F
TIME Circulation Stopped	2200 1/2	3 HRS.		
Logger on Bottom	400 1/3			
Max. Rec. Temp.	82 °F	86 °F		°F
Equip. Location	7759 G.J.	7674 VERNAL		
Recorded By	GEIGER	LIGHTNER & KILMAN		
Witnessed By	TRULL	OUGLY		

Schlumberger

DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD BAR CREEK LOCATION NE/NW WELL BAR CREEK UNIT NO. 4 COMPANY WILLARD PEASE OIL & GAS CO.	COMPANY WILLARD PEASE OIL & GAS COMPANY			
	WELL BAR CREEK UNIT NO. 4			
	FIELD BAR CREEK			
	COUNTY GRAND		STATE UTAH	
LOCATION	NE/NW			Other Services: 89 FDC/CNL/GR
API SERIAL NO.	SEC. 30	TWP 17S	RANGE 26E	

Permanent Datum: GROUND LEVEL	Elev.: 5060	Elev.: K.B. 5070
Log Measured From KB	10 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 5060

Date	10-8-78					
Run No.	ONE					
Depth-Driller	2546					
Depth-Logger	2534					
Btm. Log Interval	2528	36.0				
Top Log Interval	210					
Casing-Driller	8-5/8 @ 213		@	@	@	@
Casing-Logger	210					
Bit Size	7-7/8					
Type Fluid in Hole	FGM					
Dens.	Visc.	NA	120?			
pH	Fluid Loss	NA	NA ml	ml	ml	ml
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	1.54 @ 60F	@	°F	@	°F	@
Rmf @ Meas. Temp.	1.03 @ 60F	@	°F	@	°F	@
Rmc @ Meas. Temp.	2.27 @ 60F	@	°F	@	°F	@
Source: Rmf	Rmc	C	C			
Rm @ BHT	0.95 @ 101F	@	°F	@	°F	@
TIME	Circulation Stopped	0400				
	Logger on Bottom	0700				
Max. Rec. Temp.	101	°F	°F	°F	°F	°F
Equip.	Location	7726 GRAND JUNCTION				
Recorded By	LAUDE					
Witnessed By	MR. DON OUGLEY					

The well name, location and borehole reference data were furnished by the customer.

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Schlumberger

COMPENSATED NEUTRON
FORMATION DENSITY

SI-MULTANEOUS

COUNTY GRAND
FIELD BAR CREEK
LOCATION NE/NW
WELL BAR CREEK UNIT NO. 4
COMPANY WILLARD PEASE OIL & GAS CO.

COMPANY WILLARD PEASE OIL & GAS COMPANY
WELL BAR CREEK UNIT NO. 4
FIELD BAR CREEK
COUNTY GRAND STATE UTAH
LOCATION NE/NW
API SERIAL NO. 30 SIC. 17S RANGE 26E
Other Services: DIL 89

Permanent Datum: GROUND LEVEL; Elev.: 5060
Log Measured From KB, 10ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5070.
D.F. --
G.L. 5060

Date	<u>10-8-78</u>				
Run No.	<u>ONE</u>				
Depth-Driller	<u>2546</u>				
Depth-Logger	<u>2534</u>				
Bm. Log Interval	<u>2532</u>	<u>245</u>			
Top Log Interval	<u>1200</u>				
Casing-Driller	<u>8-5/8</u>	<u>213</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>210</u>				
Bit Size	<u>7-7/8</u>				
Type Fluid in Hole	<u>FGM</u>				
Dens.	<u>NA</u>	<u>120?</u>			
PH	<u>NA</u>	<u>NA</u>	<u>ml</u>		<u>ml</u>
Fluid Loss	<u>NA</u>				
Source of Sample	<u>MUDTANK</u>				
Rm @ Meas. Temp.	<u>1.54</u>	<u>@ 60 °F</u>	<u>@</u>	<u>@</u>	<u>@</u>
Rmf @ Meas. Temp.	<u>1.03</u>	<u>@ 60 °F</u>	<u>@</u>	<u>@</u>	<u>@</u>
Rmc @ Meas. Temp.	<u>2.27</u>	<u>@ 60 °F</u>	<u>@</u>	<u>@</u>	<u>@</u>
Source: Rmf	<u>C</u>	<u>C</u>			
Rmc	<u>C</u>	<u>C</u>			
Rm @ BHT	<u>0.95</u>	<u>@ 101°F</u>	<u>@</u>	<u>@</u>	<u>@</u>
Ⓜ Circulation Stopped	<u>0400</u>				
Ⓜ Logger on Bottom	<u>0900</u>				
Max. Rec. Temp.	<u>101</u>	<u>°F</u>		<u>°F</u>	<u>°F</u>
Equip. Location	<u>7726</u>	<u>GRAND JUNCTION</u>			
Recorded By	<u>LAUDE</u>				
Checked By Mr.	<u>DON QUIGLEY</u>				

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The well name, location and borehole reference data were furnished by the customer.

Schlumberger

DUAL INDUCTION-LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD BAR CREEK LOCATION NE/NE WELL BAR CREEK #5 COMPANY WILLARD PEASE OIL & GAS CO.	COMPANY WILLARD PEASE OIL & GAS CO. Anschutz			
	WELL BAR CREEK #5			
	FIELD BAR CREEK			
	COUNTY GRAND STATE UTAH			
	LOCATION NE/NE			
API SERIAL NO.	SEC 30	TWP 17 S	RANGE 26 E	Other Services: 90 FDC-CNI-GR TAPING

Permanent Datum: GROUND LEVEL; Elev.: 5003	Elev.: K.B. 5013
Log Measured From KB 10 Ft. Above Perm. Datum	D.F.
Drilling Measured From KB	G.L. 5003

Date	SEPT. 25, 1978		
Run No.	ONE		
Depth-Driller	2350		
Depth-Logger	2353		
Btm. Log Interval	2347	94.4	
Top Log Interval	163		
Casing-Driller	8-5/8 @ 150	@	@
Casing-Logger	163		
Bit Size	7-7/8		
Type Fluid in Hole	FGM		
Dens.	8.5	90	
pH	---	---	ml
Fluid Loss	---	---	ml
Source of Sample	MUD TANK		
Rm @ Meas. Temp.	1.06 @78 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.921 @78 °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.59 @78 °F	@ °F	@ °F
Source: Rmf	M	C	
Rm @ BHT	.68 @121 °F	@ °F	@ °F
TIME	Circulation Stopped	0700	
	Logger on Bottom	1100	
	Max. Rec. Temp.	121 °F	°F
Equip.	Location	7726	4111 GRAND JUNCTION
Recorded By	BRATTON		
Witnessed By	MR. DON QUIGLEY		

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL GOV'T #1-A COMPANY ROCK ISLAND REF. CORP. & W.R. GIBSON JR.	COMPANY ROCK ISLAND REFINING CORP. & W.R. GIBSON JR.	Location of Well ROCK ISLAND REFINING CORP. SINCLAIR BUILDING FT. WORTH, TEXAS
	WELL GOV'T #1-A FIELD WILDCAT LOCATION SEC. 30 17S 26E 16 SE SE COUNTY GRAND STATE UTAH	Elevation: D.F. --- K.B. 5010 or G.L. 5004
		FILING No. 91

RUN No.	ONE				
Date	3-19-57				
First Reading	2100 ^{44.3}				
Last Reading	173				
Feet Measured	1927				
Csg. Schlum.	173				
Csg. Driller	163				
Depth Reached	2101				
Bottom Driller	2100				
Depth Datum	KB				
Mud Nat.	CHEM. GEL				
" Density	10.3				
" Viscosity	44				
" Resist.	1.4 @ 74°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.05 @ 102°F	@ °F	@ °F	@ °F	@ °F
" pH	9.0 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	8.8 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	102				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A	64"				
AO	18'8"				
Opr. Rig Time	1 HR				
Truck No.	1517 GJ				
Recorded By	BELL				
Witnessed By	SCHWARTZ				

ROCK ISLAND REFINING CORP.
 SINCLAIR BUILDING
 FT. WORTH, TEXAS

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON
FORMATION DENSITY

COMPANY A. LANSDALE

WELL FEDERAL 31-3

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION SE NE 1984' FNL 666' FEL

Other Services: 92
DIL
TAPING

API SERIAL NO. SEC. TWP. RANGE
31 17S 26E

Permanent Datum: GL; Elev.: 4969
Log Measured From KB, 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4979
D.F. -
G.I. 4969

Date	<u>July 25 1978</u>						
Run No.	<u>ONE</u>						
Depth-Driller	<u>3139</u>						
Depth-Logger	<u>3139</u>						
Bit. Log Interval	<u>3137 3/4</u>						
Top Log Interval	<u>174</u>						
Casing-Driller	<u>10 5/8 @ 163</u>	@	@	@			
Casing-Logger	<u>174</u>						
Bit Size	<u>8 3/4</u>						
Type Fluid in Hole	<u>FGM</u>						
Dens.	Visc.	<u>8.9</u>	<u>45</u>				
pH	Fluid Loss	<u>9.0</u>	<u>5.8</u> ml	ml	ml	ml	
Source of Sample	<u>MUDTANK</u>						
Rm @ Meas. Temp.	<u>1.15 @ 94</u> °F	@	°F	@	°F	@	°F
Rmf @ Meas. Temp.	<u>1.01 @ 94</u> °F	@	°F	@	°F	@	°F
Rmc @ Meas. Temp.	<u>1.73 @ 94</u> °F	@	°F	@	°F	@	°F
Source: Rmf	Rmc	<u>m</u>	<u>c</u>				
Rm @ BHT	<u>1.05 @ 105</u> °F	@	°F	@	°F	@	°F
TIME	Circulation Stopped	<u>0900</u>					
	Logger on Bottom	<u>1630</u>					
	Max. Rec. Temp.	<u>105</u> °F	°F	°F	°F	°F	°F
Equip.	Location	<u>7726</u>	<u>4111</u>				
Recorded By	<u>LAUDE</u>						
Witnessed By Mr.	<u>JACOBS</u>						

The well name, location and borehole reference data were furnished by the customer.

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185

20E

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COMPANY THE ANSCHUTZ CORP

WELL STATE 411-2

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION	SW/NE		
API SERIAL NO.	SEC.	TWP.	RANGE
	23	18S	20E

Other Services: **93**
 DIL, BHC-GR
 TAPING, CNL

Permanent Datum: GL; Elev.: 8934
 Log Measured From KB, 18 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 8952
 D.F. -
 G.L. 8934

Date	10-19-78	10-31-78	12-5-6-78	12-19-20-78
Run No.	ONE	TWO	THREE	FOUR
Depth-Driller	4705	5453	9870	10786
Depth-Logger	4714	5449	9871	10789
1. Log Interval	4713 22.8	5447 19.7	9869 22.5	10787/5453
5 Log Interval	80	3418	5453	9770 647
Logging-Driller	20" @ 68	20 @ 58	13 3/8 @ 5452	13 3/8 @ 5452
Logging-Logger	80	80	5453	5453 5453
Tool Size	17 1/2	17 1/2	12 1/4	SEE REMARKS
Fluid in Hole	FRESH MUD	FGM	KCL AQUAGEL	FGM
Visc.	8.9	60	9.0	59
Fluid Loss	8.2	10ml	9.0	7.6ml
Source of Sample	PIT	TANK	TANK	TANK
@ Meas. Temp.	2.90 @ 76°F	2.47 @ 65°F	.434 @ ~58°F	.84 @ 56°F
if @ Meas. Temp.	2.47 @ 69°F	1.74 @ 60°F	.369 @ ~58°F	.386 @ 59°F
c @ Meas. Temp.	- @ °F	3.70 @ 65°F	- @ °F	1.26 @ 56°F
Source: Rmf Rmc	MEAS -	M C	MEAS CALC	M C
@ BHT	2.4 @ 110°F	1.55 @ 110°F	.16 @ 173°F	- @ 176°F
Rotation Stopped	0030	1030	0500	830
Logger on Bottom	1900	1930	1730	2330
Rec. Temp.	110°F	110°F	173°F	176°F
Location	5768 FARM	7759 G.J.	7759 G.J.	7759 G.J.
Recorded By	BRAAF	KRABACHER	KRABACHER	OLSON/KRAB.
Checked By Mr.	HELMKE	HELMKE	HELMKE	HELMKE

The well name, location and borehole reference data were furnished by the customer.

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ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

Grand Junction, Colorado

93

COMPANY ANSCHUTZ CORP.

LOCATION SW NE Sec. 23 T18 S R. 20E.

FROM TO

WELL STATE No. 411 WELL No. 2

COUNTY GRAND

DEPTH LOGGED 2796' 10,786

FIELD WILDCAT

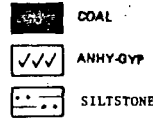
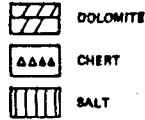
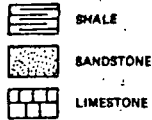
STATE UTAH

DATE LOGGED 18 SEP 78 19 DEC 78

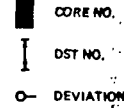
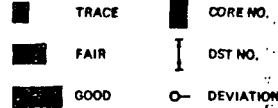
ELEVATION 6934' GL

DRILLING FLUID

ENGINEERS LARRY THRASHER MARK EDEN



OIL SHOW



MB - NEW BIT
NR - NO RETURNS
CO - CIRCULATE OUT
NS - NO SAMPLE
TO - TRIP GAS

DRILLING RATE IN MIN/FT.	LITHOLOGY		OIL SHOW	CHROMATOGRAPH HYDROCARBONS IN PARTS PER MILLION M * 1000 ppm					REMARKS							
	DEPTH FEET	PERCENT SEC		TOTAL GAS	METHANE	ETHANE	PROPANE	BUTANES	PENTANES	WT	VIS	WL	CKE	PH		
				MOBILIZED 18 SEP 78 FOR ONE-MAN LOGGING. LOST D.P. FISHING UNIT ON STBY 18-24 SEP 78. RECALLED TO LOCATION 25 SEP 78. REAMING TO BOTTOM. LOST CIRCULATION. 2200 BBL. RESUME DRILLING 127 SEP 78.												
	2800			75	30	75	100	125	150	175	200	225	250	275	300	total gas: ppm
				80	75	30	75	100	125	150	175	200	225	250	275	8.5 7.5 15.2 1/32th 8.0 4000 CI 20% LCM
	20														SH-dull red, pts mott w/gy, blky, pts slty & sdy, sft- m firm, calc	
	40														SS-wh, f gr, w cons, pts silt, sm clr floa grains	
	60														NO RETURN ON CARBIDE LAGS DUE LOST CIRC & HOLE VOLUME/COND.	
	80														LAG TIME EST. = 55 MINUTES	
	2900														SH-aa, mstly mott and spotted lt gy, wh, and lt red	
	20														ABNT CYGS IN SPLS 8.6 43 14.2 1/32 8.5 LCM 15%, CHROMATES 400ppm, CHLORIDES 3900ppm	
	40															
	60														SH-aa	
	80														SS-wh, lt gy, w cons, silt-f gr, ang, p srt, v calc	
	3000														TR LS	
	0 34'														8.8 47 12.4 1/32 9.0 CI 3890 Chromates 600 LCM 25%	
	20														SS-aa, pts sdp, tite, feld, f-m gr, sm hvy blk ml (magnetite)	
	40															
	60															
	80														VPS. INSUFFICIENT SPLS W/ ABNT LOST CIRCULATION MATERIAL.	
															SAMPLES UNUSABLE	



BOREHOLE COMPENSATED SONIC LOG

COUNTY GRAND WILDCAT FIELD 23-18S-20E LOCATION STATE 411-2 WELL STATE 411-2 COMPANY ANSCHUTZ

COMPANY THE ANSCHUTZ CORP

WELL STATE 411-2

FIELD WILDCAT

COUNTY GRAND STATE UTAH

LOCATION _____

API SERIAL NO.	SEC.	TWP	RANGE
	<u>23</u>	<u>18S</u>	<u>20E</u>

Other Services:
 DIL, FDC-CNL
 TAPING, CNL
93 ~~94~~

Permanent Datum: GL ; Elev.: 8934

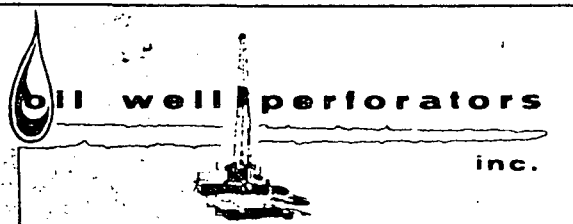
Log Measured From KB 18 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 8952
 D.F. -
 G.L. 8934

Date	<u>12-20-78</u>					
Run No.	<u>FOUR</u>					
Depth-Driller	<u>10786</u>					
Depth-Logger (Schl.)	<u>10789</u>					
Btm. Log Interval	<u>10786</u> <small>21.1</small>					
Top Log Interval	<u>5453</u>					
Casing-Driller	<u>13 3/8</u>	<u>5452</u>	@	@	@	@
Casing-Logger	<u>5453</u>					
Bit Size	<u>9 7/8 TO 9869 12 1/4 TO CSG</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>9.0</u>	<u>56</u>			
pH	Fluid Loss	<u>10</u>	<u>64 ml</u>	ml	ml	ml
Source of Sample	<u>TANK</u>					
Rm @ Meas. Temp.	<u>.84</u>	@ <u>56 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	<u>.39</u>	@ <u>59 °F</u>	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	<u>1.26</u>	@ <u>56 °F</u>	@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	<u>M</u>	<u>C</u>				
Rm @ BHT	<u>-</u>	@ <u>176 °F</u>	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	<u>12-19 0830</u>				
	Logger on Bottom	<u>12-20 0900</u>				
Max. Rec. Temp.	<u>176 °F</u>		°F	°F	°F	°F
Equip.	Location	<u>7759</u>	<u>G.J.</u>			
Recorded By	<u>OLSON/KRABACHER</u>					
Witnessed By Mr.	<u>HELMRE</u>					

The well name, location and borehole reference data were furnished by the customer.

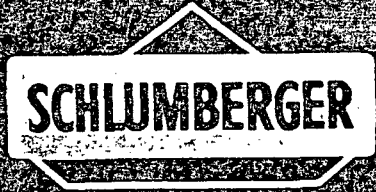


O.W.P. TEMPERATURE LOG

COMPANY ANSCHULTZ CORP. WELL STATE # 411-2 FIELD WILDCAT County GRAND State UTAH File	COMPANY THE ANSCHULTZ CORP. WELL STATE # 411-2 FIELD WILDCAT COUNTY GRAND STATE UTAH Location Sec. 12 Twp 18S Rge 20E Permanent Datum GROUND LEVEL Elev. 8934 Log Measured From K.B. OR 18' ABOVE GROUND LEVEL DF. Drilling Measured From K.B. OR 18' ABOVE GROUND LEVEL GL 8934 Other Logs 93 Elevation KB. 8952 DF. GL 8934																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Type Log</td> <td>CEMENT TOP LOCATION <input checked="" type="checkbox"/></td> </tr> <tr> <td>Run No.</td> <td>ONE</td> </tr> <tr> <td>Date</td> <td>11/3/78</td> </tr> <tr> <td>Total Depth Driller</td> <td>5452</td> </tr> <tr> <td>Present Depth Driller</td> <td>5452</td> </tr> <tr> <td>Total Depth O.W.P.</td> <td>5407 15.8</td> </tr> <tr> <td>Survey Begins</td> <td>4000</td> </tr> <tr> <td>Survey Ends</td> <td>5407</td> </tr> <tr> <td>Truck Number</td> <td>#527</td> </tr> <tr> <td>Location</td> <td>VERNAL</td> </tr> <tr> <td>Type fluid in Hole</td> <td>WATER</td> </tr> <tr> <td>Salinity PPM Cl</td> <td></td> </tr> <tr> <td>Weight lb./gal.</td> <td></td> </tr> <tr> <td>Fluid Level</td> <td></td> </tr> <tr> <td>Max. Hole Temp.</td> <td>98° F.</td> </tr> <tr> <td>Recorded By</td> <td>OSHIER</td> </tr> <tr> <td>Witnessed By</td> <td>MR. HARVEY</td> </tr> </table>		Type Log	CEMENT TOP LOCATION <input checked="" type="checkbox"/>	Run No.	ONE	Date	11/3/78	Total Depth Driller	5452	Present Depth Driller	5452	Total Depth O.W.P.	5407 15.8	Survey Begins	4000	Survey Ends	5407	Truck Number	#527	Location	VERNAL	Type fluid in Hole	WATER	Salinity PPM Cl		Weight lb./gal.		Fluid Level		Max. Hole Temp.	98° F.	Recorded By	OSHIER	Witnessed By	MR. HARVEY
Type Log	CEMENT TOP LOCATION <input checked="" type="checkbox"/>																																		
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Recorded By	OSHIER																																		
Witnessed By	MR. HARVEY																																		
BORE HOLE RECORD				CASING RECORD																															
Run	Bit	From	To	Size	Wt.	From	To																												
				13 3/8"	68	SURFACE	5452'																												

TEMP

18 S 22E



SONIC LOG

(WITH GALIPER)

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BOOK CLIFFS UNIT-FEDERAL NO. 4 COMPANY GULF OIL CORP.	COMPANY	GULF OIL CORPORATION		
	WELL	BOOK CLIFFS UNIT-FEDERAL NO. 4		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
LOCATION		NW SE		Other Services:
Sec. 4		Twp. 18S		Rge. 22E
				I-ES 95

Permanent Datum:	G.L.	Elev. 5655	Elev.: K.B. 5655
Log Measured From	K.B.	11 Ft. Above Perm. Datum	D.F.
Drilling Measured From	K.B.		G.L. 5644

Date	12/21/63			
Run No.	ONE			
Depth—Driller	5435			
Depth—Logger	5436			
Btm. Log Interval	5433 ^{31.2}			
Top Log Interval	4200			
Casing—Driller	8 5/8 @ 1447	@	@	@
Casing—Logger	-			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEM GEL			
Dens.	Visc.	10.3	64	
pH	Fluid Loss	7.5	88 ml	ml ml ml ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	6.14 @ 68 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.73 @ 72 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	5.00 @ 70 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS CHART			
R _m @ BHT	3.0 @ 144 °F	@ °F	@ °F	@ °F
Time Since Circ.	5 1/2 HOURS			
Max. Rec. Temp.	144 °F	°F	°F	°F
Equip. Location	4544 VERNAL			
Recorded By	LEDY			
Witnessed By	FICKINGER			

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY GRAND FIELD DIAMOND CANYON UNIT LOCATION 3850FWL 730FSL WELL NO. 1 FEDERAL 078 COMPANY THE ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP			
	WELL NO. 1 FEDERAL 078			
	FIELD DIAMOND CANYON UNIT			
	COUNTY GRAND		STATE UTAH	
LOCATION 3850FWL 730FSL			Other Services:	
			DIL 96	
			CDR	
API SERIAL NO.	SEC.	TWP.	RANGE	
	15	18S	22E	

Permanent Datum: GL	Elev.: 6055	Elev.: K.B. 6065
Log Measured From KB	10 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 6055

Date	6-8-78					
Run No.	ONE					
Depth-Driller	7030					
Depth-Logger	7025					
Btm. Log Interval	7023 34.7					
Top Log Interval	112					
Casing-Driller	7"	@ 2760	@	@	@	@
Casing-Logger	--					
Bit Size	6 1/2					
Type Fluid in Hole	FGM					
Dens.	Visc.	9.2	44			
pH	Fluid Loss	7.6	10.6ml	ml	ml	ml
Source of Sample	MUDTANK					
Rm @ Meas. Temp.	.554 @	71°F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.482 @	71°F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @	--°F	@ °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	M	--				
Rm @ BHT	.21 @	183°F	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	~2000	6-8			
	Logger on Bottom	0530	6-9			
	Max. Rec. Temp.	183°F	°F	°F	°F	°F
Equip.	Location	7759	G.J.			
Recorded By	GRTAYLOR					
Witnessed By Mr.	ALLRED/COLLINS					

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER**INDUCTION ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND UTAH FIELD or LOCATION SEC 29-18S-22E WELL BOOKCLIFF UNIT #5 COMPANY TEXACO, INC.	COMPANY <u>TEXACO, INC.</u>
	WELL <u>BOOK CLIFFS UNIT #5</u>
	FIELD <u>BOOK CLIFFS</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
LOCATION <u>390' FSL, 760' FEL</u>	Other Services: 97
Sec. <u>29</u> Twp. <u>18 S</u> Rge. <u>22E</u>	BS-GRC

Permanent Datum: G.L., Elev. 5996
 Log Measured From K.B., 11 Ft. Above Perm. Datum
 Drilling Measured From K.B.

Elev.: K.B. 6007
 D.F. -
 G.L. 5996

Date	6-11-66			
Run No.	0NF			
Depth—Driller	5600			
Depth—Logger	5598			
Btm. Log Interval	5597 ^{30.6}			
Top Log Interval	2033			
Casing—Driller	7 5/8@ 2041	@	@	@
Casing—Logger	2033			
Bit Size	6 3/4			
Type Fluid in Hole	CHEMICALS FRESH GEL			
Dens.	8.5	45		
pH	10.8	5.3 ml	ml	ml
Fluid Loss				
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	0.95 @ 78 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.95 @ 76 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.16 @ 75 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS PRESS			
R _m @ BHT	0.51 @ 145 °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS			
Max. Rec. Temp.	145 °F	°F	°F	°F
Equip.	4538	G.J.		
Location				
Recorded By	MONTGOMERY			
Witnessed By	MC CANN			

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SCHLUMBERGER WELL SURVEYING CORPORATION

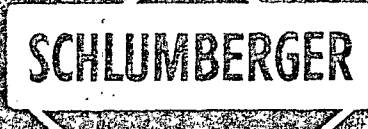
HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND FIELD or LOCATION SEC. 32-18S-22E WELL GREAT YELLOWSTONE BOOK CLIFFS #1 COMPANY GREAT YELLOWSTONE CORPORATION	COMPANY	GREAT YELLOWSTONE CORPORATION	Other Surveys SL - FT Location of Well Elevation: D.F.: K.B.: 5825 or G.L.: 5813 FILING No. 98
	WELL	GREAT YELLOWSTONE BOOK CLIFFS #1	
	FIELD	WILDCAT	
	LOCATION	SEC. 32-18S-22E SE SE	
	COUNTY	GRAND	
	STATE	UTAH	

RUN No.	ONE	TWO			
Date	5-4-61	5-13-61			
First Reading	1797 ^{24.4}	5703 ^{34.2}			
Last Reading	123	1721			
Feet Measured	1674	3982			
Csg. Schlum.	123	1721			
Csg. Driller	122	1721			
Depth Reached	1798	5704			
Bottom Driller	1800	5700			
Depth Datum	K.B.	K.B.			
Mud Nat.	WATER	GEL-CHEM			
Dens. Visc.	- -	9.5 42			
Mud Resist.	7.6 @ 81 °F	5.0 @ 68 °F	@ °F	@ °F	@ °F
" Res. BHT	7.6 @ 80 °F	2.0 @ 158 °F	@ °F	@ °F	@ °F
Rmf	5.48 @ 81 °F	1.5 @ 158 °F	@ °F	@ °F	@ °F
Rmc	8.9 @ 81 °F	1.6 @ 158 °F	@ °F	@ °F	@ °F
" pH	- @ °F	9.0 @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC30 min.	3.8 CC30 min.	CC30 min.	CC30 min.	CC30 min.
Bit Size	12 1/4" CSG.	TO 1650.	7 7/8	1650 -TD	RUN-2 77/8
Spcls. - AM	15"	16"			
MN	34'6"	34'6"			
IND.	6FF40	6FF40			
Opr. Rig Time	2 HRS	4 HRS			
Truck No.	1517 C	1517 V			
Recorded By		WARNER			
Witness		OSMOND			



INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL BOOKCLIFF # 3 COMPANY GULF OIL CORPORATION	COMPANY	GULF OIL CORPORATION	Other Surveys SL/C
	WELL	BOOKCLIFFS # 3	
	FIELD	WILDCAT	Elevation: D.F.: 5872 K.B.: or G.L.: 5863
	LOCATION	SEC. 33-18S-22E SW NE	
	COUNTY	GRAND	FILING No. <i>99/22</i>
	STATE	UTAH	

RUN No.	ONE	TWO			
Date	8-6-62	8-12-62			
First Reading	1802 ^{41.5}	5386 ^{76.4}			
Last Reading	195	1802			
Feet Measured	1607	3584			
Csg. Schlum.	195	1802			
Csg. Driller	193	1801			
Depth Reached	1803	5387			
Bottom Driller	1800	5814			
Depth Datum	KB	KB			
Mud Nat.	GEL-CHEM	GEL & WATER			
Dens. Visc.	9.8 45	9.2 60			
Mud Resist.	6.2 @ 70 °F	5.72 @ 93 °F	@ °F	@ °F	@ °F
" Res. BHT	4.7 @ 92 °F	4.22 @ 126 °F	@ °F	@ °F	@ °F
Rmf	5.3 @ 72 °F	3.98 @ 93 °F	@ °F	@ °F	@ °F
Rmc	-- @ -- °F	3.12 @ 93 °F	@ °F	@ °F	@ °F
" pH	-- @ °F	8.5 @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	8.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	7 7/8"			
Spcgs.—AM	16"	16"			
MN	34'6"	34'6"			
IND.	6FF40	6FF40			
Opr. Rig Time	1 HOUR	2 HOURS			
Truck No.	3529 GJ	2517 V.			
Recorded By	MONTGOMERY	LANGILL			
Witness	FICKINGER	FICKINGER			

185

23E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL GOVERNMENT #1 COMPANY WILLARD PEASE DRILLING COMPANY	COMPANY WILLARD PEASE	Other Surveys
	DRILLING COMPANY	SL/C
	WELL GOVERNMENT #1	Location of Well
	FIELD WILDCAT	SEC. 3-18S-23E
	LOCATION SEC. 3-18S-23E	2340' FEL
	2340' FEL - 3700' FNL	3700' FNL
COUNTY GRAND	Elevation: D.F.:	K.B.: 6244
STATE UTAH		or G.I.: 6238
		FILING No. 100

RUN No.	ONE	THIS LOG WAS MADE WITH THE <h3 style="font-size: 2em;">New</h3> <h2 style="font-size: 3em;">DEEP INDUCTION</h2> <h2 style="font-size: 3em;">TOOL</h2> <p><i>"Another Schlumberger First"</i></p>				
Date	5-15-61					
First Reading	6010 ²⁴¹					
Last Reading	2055					
Feet Measured	3955					
Csg. Schlum.	2055					
Csg. Driller	2050					
Depth Reached	6011					
Bottom Driller	6010					
Depth Datum	K. B.					
Mud Nat.	GEL-CHEM					
Dens. Visc.	9.4 41					
Mud Resist.	3.4 @ 78°F					
" Res. BHT	1.8 @ 147°F					
Rmf M	2.9 @ 77°F					
Rmc C	1.6 @ 147°F					
" pH	7.6 @ °F					
" Wtr. Loss	14.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	
Bit Size	6 1/4"					
Spcgs.—AM	16"					
MN	34' 6"					
IND.	6FF40					
Opr. Rig Time	2 HRS					
Truck No.	1523 GJ					
Recorded By	MONTGOMERY					
Witness	PEASE					

SCL 11188E

Schlumberger

**DUAL INDUCTION LOG
WITH LINEAR CORRELATION LOG**

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY STALLWORTH OIL & GAS, INC.
WELL FEDERAL No. 4-1
FIELD WILDCAT
COUNTY GRAND STATE UTAH

Location. API Serial No. 667' FNL, 1027' FEL
Sec. 4 Twp. 18S Rge. 23E

Other Services:
FDC/CNL/CR
FIL 101

Permanent Datum: GROUND LEVEL; Elev.: 6496
Log Measured From K13 11 Ft. Above Perm. Datum
Drilling Measured From K13

Elev.: K.B. 6507
D.F. -
G.L. 6496

Date	<u>16 DEC 1977</u>						
Run No.	<u>ONE</u>						
Depth-Driller	<u>7050</u>						
Depth-Logger	<u>7062</u>						
Btm. Log Interval	<u>7056^{30"}</u>						
Top Log Interval	<u>2588</u>						
Casing-Driller	<u>7 @ 2588</u>	@	@	@	@	@	@
Casing-Logger	<u>2588</u>						
Bit Size	<u>6 1/4</u>						
Type Fluid in Hole	<u>FGM</u>						
Fluid Level	<u>FULL</u>						
Dens.	Visc.	<u>9.0</u>	<u>45</u>				
pH	Fluid Loss	<u>10.5</u>	<u>8.0 ml</u>	ml	ml	ml	ml
Source of Sample	<u>MUDPIT</u>						
Rm @ Meas. Temp.	<u>1.54 @ 62°F</u>	@	°F	@	°F	@	°F
Rmf @ Meas. Temp.	<u>1.36 @ 66°F</u>	@	°F	@	°F	@	°F
Rmc @ Meas. Temp.	<u>2.29 @ 62°F</u>	@	°F	@	°F	@	°F
Source: Rmf	Rmc	<u>M</u>	<u>C</u>				
Rm @ BHT	<u>0.58 @ 167°F</u>	@	°F	@	°F	@	°F
Time Since Circ.	<u>6 HOURS</u>						
Max. Rec. Temp.	<u>167 °F</u>			°F	°F	°F	°F
Equip.	Location	<u>5619</u>	<u>GJ</u>				
Recorded By	<u>LAUBG</u>						
Witnessed By	<u>MR. FARRINGTON & MR. GORDON</u>						

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

SCHLUMBERGER**INDUCTION ELECTRICAL LOG**

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL # 2 COMPANY WILLARD PEASE	COMPANY WILLARD PEASE DRILLING COMPANY	
	WELL FEDERAL # 2	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION NE - SE - NE	Other Services: NONE 102	
Sec. 10	Twp. 18S	Rge. 20E 23E
Permanent Datum: G.L., Elev. 6154		Elev.: K.B. 6164
Log Measured From K.B., 10 Ft. Above Perm. Datum		D.F. -
Drilling Measured From K.B.		G.L. 6154
Date	11-16-64	
Run No.	ONE	
Depth—Driller	5946	
Depth—Logger	5948	
Btm. Log Interval	5947 ^{14"}	
Top Log Interval	2091	
Casing—Driller	7" @2090	@ @ @ @
Casing—Logger	2091	
Bit Size	6 1/4"	
Type Fluid in Hole	GEL - CHEMICAL	
Dens.	Visc.	- 95
pH	Fluid Loss	- - ml ml ml ml
Source of Sample	FLOW LINE	
R _m @ Meas. Temp.	2.9 @ 58 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	2.24 @ 65 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	- @ - °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	PRESS -	
R _m @ BHT	1.3 @ 134 °F	@ °F @ °F @ °F
Time Since Circ.	4 HOURS	
Max. Rec. Temp.	134 °F	°F °F °F
Equip. Location	2598 G.J.	
Recorded By	MONTGOMERY	
Witnessed By	DOUGLAS	

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Schlumberger

INDUCTION -

LOG

COUNTY GRAND	FIELD or WILDCAT	LOCATION 1 FED 273	WELL	COMPANY ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORP				
					WELL #1 FEDERAL 273				
					FIELD WILDCAT				
					COUNTY GRAND		STATE UTAH		
LOCATION: SW SW			API Serial No.			Other Services: 103			
Sec. 28		Twp. 18S		Rge. 23E		13			

Permanent Datum: G.L.	Elev.: 5637	Elev.: K.B. 5647
Log Measured From K.B.	10 Ft. Above Perm. Datum	D.F. -
Drilling Measured From K.B.		G.L. 5637

Date	5/27/77					
Run No.	TWO					
Depth-Driller	5460					
Depth-Logger	5468					
Btm. Log Interval	5461 21.0					
Top Log Interval	4400					
Casing-Driller	@ 1359			@	@	@
Casing-Logger	-					
Bit Size	7 7/8					
Type Fluid in Hole	GEL					
Dens.	NA					
Visc.	NA					
pH	NA			ml	ml	ml
Fluid Loss	NA					
Source of Sample	PIT					
R _m @ Meas. Temp.	245 @ 74 °F			@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	20 @ 72 °F			@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- @ °F			@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	CELL					
R _m @ BHT	17 @ 114 °F			@ °F	@ °F	@ °F
TIME	Circulation Stopped 0500/27					
	Logger on Bottom 1600/27					
Max. Rec. Temp.	114 °F			°F	°F	°F
Equip. Location	7759 G.J.					
Recorded By	THOMPSON					
Witnessed By	ALLRED					

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COMPENSATED

Densilog

FILE NO. R-422	COMPANY THE ANSCHUTZ CORPORATION		
	WELL FEDERAL 273 #1		
	FIELD WILDCAT		
	COUNTY GRAND	STATE	UTAH
LOCATION:		Other Services	
SW/SW		DIFL 103	
SEC 28	TWP 18S	RGE 23E	

Permanent Datum	GROUND LEVEL	Elev. 5637	Elevations: KB 5647
Log Measured from	R.K.B.	10 Ft. Above Permanent Datum	DF 5646
Drilling Measured from	R.K.B.		GL 5637

Date	5/26/77			
Run No.	ONE			
Depth—Driller	5427			
Depth—Logger	5412			
Bottom Logged Interval	5410 27.6			
Top Logged Interval	4200			
Casing—Driller	8 5/8 @ 1352	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEM GEL			
Density and Viscosity	40			
pH and Fluid Loss		cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.22 @ 64 °F	@ °F	@ °F	@ °
Rmf @ Meas. Temp.	.19 @ 64 °F	@ °F	@ °F	@ °
Rmc @ Meas. Temp.	.28 @ 70 °F	@ °F	@ °F	@ °
Source of Rmf and Rmc	M M			
Rm @ BHT	.10 @ 133 °F	@ °F	@ °F	@ °
Time Since Circ.	8 HOURS			
Max. Rec. Temp. Deg. F.	133 °F	°F	°F	°
Equip. No. and Location	6089 RSVLT			
Recorded By	MCCALL			
Witnessed By	SCHULZ			

185

24E

Schlumberger

CONTINUOUS DIRECTIONAL SURVEY

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 258-2 COMPANY THE ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP		
	WELL FEDERAL 258-2		
	FIELD WILDCAT		
	COUNTY GRAND STATE UTAH		
Location: SE SE		Other Services: DIL-GR 105 BHC-GR	
Sec. 5 Twp. 18S Rge. 24E			
Permanent Datum: GL; Elev.: 5158		Elev.: K.B. 5168	
Log Measured From KB, 10 Ft. Above Perm. Datum		D.F. --	
Drilling Measured From KB		G.I. 5158	
Date	4-15-78		
Run No.	ONE		
Depth-Driller	2766		
Depth-Logger	2767		
Btm. Log Interval	2767 37.5		
Top Log Interval	195		
Casing-Driller	8 5/8 @ 204	@	@
Casing-Logger	--		
Bit Size	6 3/4		
Type Fluid in Hole	OIL		
Dens.	Visc.	--	--
pH	Fluid Loss	-- ml	ml
Source of Sample	--		
R _m @ Meas. Temp.	-- @ -- °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	-- @ -- °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ -- °F	@ °F	@ °F
Source: R _{mf} R _{mc}	-- --		
R _m @ BHT	-- @ -- °F	@ °F	@ °F
Circulation Stopped	--		
Logger on Bottom	0200 4-16		
Max. Rec. Temp.	108 °F	°F	°F
Equip. Location	7759 G.J.		
Recorded By	GRTAYLOR		
Witnessed By	POWELL/WELLS		

SWS-1166-G

The well name, location and borehole reference data were furnished by the customer.

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SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY _____
 FIELD _____
 LOCATION _____
 WELL _____
 COMPANY _____

COMPANY The Anschutz Corporation

WELL Federal 258 - 3

FIELD Wildcat

COUNTY Grand STATE Utah

LOCATION	845' FNL		
	1837' FNL		
API SERIAL NO.	SEC.	TWP.	RANGE
	5	18S	24E

Other Services:
 DIL 106

Permanent Datum: Ground level; Elev.: 5245
 Log Measured From KB, 9 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 5254
 D.F. -
 G.L. 5245

Date	<u>June 20, 1978</u>					
Run No.	<u>one</u>					
Depth-Driller	<u>4627</u>					
Depth-Logger	<u>4606</u>					
Btm. Log Interval	<u>4604 33"</u>					
Top Log Interval	<u>2620</u>					
Casing-Driller	<u>7 7/8 @ 216</u>	@	@	@		
Casing-Logger	<u>-</u>					
Bit Size	<u>6 1/2"</u>					
Type Fluid in Hole	<u>Fom</u>					
Dens.	Visc.	<u>9.5</u>	<u>44</u>			
pH	Fluid Loss	<u>8</u>	<u>37.6 ml</u>	ml	ml	ml
Source of Sample	<u>mudtank</u>					
Rm @ Meas. Temp.	<u>278 @ 75</u>	'F	@	'F	@	'F
Rmf @ Meas. Temp.	<u>202 @ 75</u>	'F	@	'F	@	'F
Rmc @ Meas. Temp.	<u>- @ -</u>	'F	@	'F	@	'F
Source: Rmf	Rmc	<u>m</u>	<u>-</u>			
Rm @ BHT	<u>15 @ 135</u>	'F	@	'F	@	'F
Circulation Stopped	<u>2230 6-20</u>					
Logger on Bottom	<u>0500 6-22</u>					
Max. Rec. Temp.	<u>135</u>			'F	'F	'F
Equip.	Location	<u>7759</u>	<u>65</u>			
Recorded By	<u>GR Taylor</u>					
Witnessed By Mr.	<u>Wells Mr. Helmke</u>					



COMPENSATED

Densilog

FILE NO. R-435	COMPANY THE ANSCHUTZ CORPORATION		
	WELL #1 FEDERAL 258		
	FIELD WILDCAT		
	COUNTY GRAND	STATE	UTAH
	LOCATION: NW/SE		Other Services DIFL 107
	SEC 5	TWP 18S	RGE 24E
Permanent Datum	GROUND LEVEL		Elev. 5050
Log Measured from	R.K.P.	8	Ft. Above Permanent Datum
Drilling Measured from	R.K.B.		
			Elevations: KB 5058 DF 5057 GL 5050
Date	4/27/77		
Run No.	ONE		
Depth—Driller	4768		
Depth—Logger	4775		
Bottom Logged Interval	4773 29.4		
Top Logged Interval	3000		
Casing—Driller	8-5/8@310	@	@
Casing—Logger	NOT LOGGED		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEM GEL		
Density and Viscosity	9.0	39	
pH and Fluid Loss	9.0	6.2 cc	cc
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	.70 @ 70 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.56 @ 78 °F	@ °F	@ °F
Rmc @ Meas. Temp.	.85 @ 80 °F	@ °F	@ °F
Source of Rmf and Rmc	M	M	
Rm @ BHT	.38 @ 129 °F	@ °F	@ °F
Time Since Circ.	7 HOURS		
Max. Rec. Temp. Deg. F.	129 °F	°F	°F
Equip. No. and Location	6089 RSVLT		
Recorded By	MCCALL		
Witnessed By	SCHULZ & STAMPER		

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DUAL INDUCTION-LATEROLOG
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT LOCATION 2035FEL 653FNL WELL FEDERAL 258-5 COMPANY ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP			
	WELL FEDERAL 258-5			
	FIELD WILDCAT			
	COUNTY GRAND		STATE UTAH	
LOCATION 2035FEL 653FNL			Other Services:	
API SERIAL NO. SEC. TWP RANGE			FDC-CNL-GR TAPING 108	
8 18S 24E				

Permanent Datum: GL	Elev.: 5147	Elev.: K.B. 5157
Log Measured From KB	10 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 5147

Date	7-5-78			
Run No.	ONE			
Depth-Driller	4423			
Depth-Logger	4415			
Btm. Log Interval	4409 31.8			
Top Log Interval	222			
Casing-Driller	7 5/8@ 224	@	@	@
Casing-Logger	222			
Bit Size	6 1/2			
Type Fluid in Hole	FGM			
Dens.	8.5	38		
pH	12	N/A ml.	ml	ml
Source of Sample	MUDTANK			
Rm @ Meas. Temp.	.277@ 96F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.243@ 96F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.416@ 96F	@ °F	@ °F	@ °F
Source: Rmf	MEAS			
Rmc	CALC			
Rm @ BHT	.215@ 128F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	1200		
	Logger on Bottom	1730		
Max. Rec. Temp.		128F	°F	°F
Equip.	Location	7726	4111	
Recorded By	LAUDE			
Witnessed By	HELMKE/WELLS			

SWS-160B-J

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH
FIELD or LOCATION WILDCAT
WELL BOOK CLIFFS #2
COMPANY GREAT WESTERN DRILLING COMPANY

COMPANY GREAT WESTERN DRILLING COMPANY
WELL BOOK CLIFFS #2
FIELD WILDCAT
LOCATION SEC. 10-18S-24E 16
COUNTY GRAND
STATE UTAH

Other Surveys
SGR
Location of Well
625' FR S/L
440' FR E/L
SEC. 10-18S-24E
Elevation: D.F.:
K.B.: 4933
or G.L.: 4924.4
FILING No. 109

RUN No.	ONE				
Date	10-6-59				
First Reading	2350 43.5				
Last Reading	186				
Feet Measured	2164				
Csg. Schlum.	186				
Csg. Driller	186				
Depth Reached	3056				
Bottom Driller	3050				
Depth Datum	KB				
Mud Nat.	OIL EMULSION				
Dens. Visc.	8.9 43				
Mud Resist.	1.7 @ 57 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	.85 @ 120 °F	@ °F	@ °F	@ °F	@ °F
Rmf	1.15 @ 120 °F	@ °F	@ °F	@ °F	@ °F
Rmc	- @ - °F	@ °F	@ °F	@ °F	@ °F
" pH	6 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	2.4 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	8 3/4 TO 2467	7 7/8 TO TD			
Spcgs.—AM	16"				
MN	27' 2"				
IND.	40"				
Opr. Rig Time	1 1/2 HOUR				
Truck No.	2516 FARM				
Recorded By	HAMILTON				
Witness	MR. PRICHET				

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WELEX

Gamma - Induction

COMPANY	WELL	FIELD	County	State	COMPANY <u>NEARBURG & INGRAM</u>
					WELL <u>#1 LARSEN</u>
					FIELD <u>WILD CAT</u>
					COUNTY <u>Grand</u> STATE <u>UTAH</u>
				Location <u>660' FSL & 666' FEI</u>	Other Services: <u>none 110</u>
				Sec. <u>110</u> Twp <u>185</u> Rge <u>24E</u>	

Permanent Datum <u>Ground level</u> Elev. <u>5008</u>	Elev.: K.B. <u>5019</u>
Log Measured From <u>DERRICK FLOOR</u> ft. Above Perm. Datum	D.F. <u>5018</u>
Drilling Measured From <u>"</u>	G.L. <u>5008</u>

Date	<u>12-24-62</u>			
Run No.	<u>(1) IND.</u>	<u>(1) GAMMA</u>		
Depth-Driller	<u>3223</u>	<u>3223</u>		
Depth-Welex	<u>3287</u>	<u>3198</u>		
Btm. Log Inter.	<u>3282.5</u>	<u>3196.5</u>		
Top Log Inter.	<u>90</u>	<u>90</u>		
Casing-Driller	<u>9 5/8 @ 90</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Welex	<u>90</u>			
Bit Size	<u>7/8"</u>			
Type Fluid in Hole	<u>AIR DRILLED</u>			
Dens. Visc.				
pH Fluid Loss	ml	ml	ml	ml
Source of Sample				
R _{in} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source R _{mf} R _{mc}				
R _{in} @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ.				
Max. Rec. Temp.	<u>108°F @</u>	<u>°F @</u>	<u>°F @</u>	<u>°F @</u>
Equip. Location	<u>400L FARM</u>			
Recorded By	<u>F.L. SLOTT</u>			
Witnessed By	<u>MR HARR</u>			

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LAHOH AA .05845

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GAMMA RAY - NEUTRON

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH
FIELD or LOCATION WILDCAT
WELL #A-1 FEDERAL
COMPANY BIG HORN-POWER RIVER CORPORATION

COMPANY BIG HORN - POWER RIVER CORPORATION

WELL # A-1 FEDERAL

FIELD WILDCAT

COUNTY GRAND STATE UTAH

Location: 2060'FNL - 1742'FEL

Other Services:
///

Sec. 21 Twp. 18S Rge. 24E

NONE

Permanent Datum: G.L.; Elev.: 4994
Log Measured From K.B., 10 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 5004
D.F. -
G.L. 4994

Date	4-19-65
Run No.	ONE
Type Log	GRN
Depth—Driller	2891
Depth—Logger	2885
Bottom logged interval	2884 34.8
Top logged interval	10
Type fluid in hole	FORMATION WATER
Salinity, PPM Cl.	-
Density	-
Level	2758'
Max rec. temp., deg F.	106
Operating rig time	1 1/2 HOURS
Recorded by	MONTGOMERY
Witnessed by	HARR

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	7 7/8	CSG	T.D.	10 3/4		SURF	165

185

25E

182 231

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL BOB LONG - FEDERAL # 1 COMPANY BOB LONG & BOB HOWELL	COMPANY	BOB LONG & BOB HOWELL			
	WELL	BOB LONG - FEDERAL # 1			
	FIELD	WILDCAT			
	COUNTY	GRAND	STATE	UTAH	
	LOCATION	C SE NE		Other Services: 7 112 NONE CC	
Sec.	15	Twp.	18S	Rge.	25E

Permanent Datum:	G. L.	Elev.	4786	Elev.: K.B.	-
Log Measured From	G. L.	0	Ft. Above Perm. Datum	D.F.	-
Drilling Measured From	G. L.			G.L.	4786

Date	11-8-64			
Run No.	ONE			
Depth—Driller	1890			
Depth—Logger	1889			
Btm. Log Interval	1888 ^{7/8"}			
Top Log Interval	102			
Casing—Driller	7"	@ 102	@	@
Casing—Logger	102			
Bit Size	6 1/4"			
Type Fluid in Hole	GEL - CHEMICAL			
Dens.	10.0	38		
pH	Fluid Loss	-	- ml	ml
Source of Sample	FLOW LINE			
R _m @ Meas. Temp.	1.57	@ 67 °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.30	@ 67 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-	@ - °F	@ °F	@ °F
Source: R _{mf} R _{mc}	PRESS CHART			
R _m @ BHT	1.2	@ 89 °F	@ °F	@ °F
Time Since Circ.	1 HOUR			
Max. Rec. Temp.	89	°F	°F	°F
Equip.	Location	2598	G. J.	
Recorded By	MONTGOMERY			
Witnessed By	HOWELL			

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SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION HARLEY DOME WELL HARLEY GOVT. #2 COMPANY BELCO PETROLEUM COMPANY	COMPANY BELCO PETROLEUM CORP.	Other Surveys MI
	WELL HARLEY GOVT. #2	Location of Well 2140' N OF S/L 500' E OF W/L SEC. 19-18S-25E
	FIELD HARLEY DOME	Elevation: D.F.: K.B.: 4900' or G.L.: 4892'
	LOCATION SEC. 19-18S-25E	FILING No. 113
	COUNTY GRAND	STATE UTAH

RUN No.	ONE				
Date	3-29-60				
First Reading	1973 37.9				
Last Reading	112				
Feet Measured	1861				
Csg. Schlum.	112				
Csg. Driller	112				
Depth Reached	1979				
Bottom Driller	1980				
Depth Datum	KB				
Mud Nat.	GEL				
Dens. Visc.	9.2 54				
Mud Resist.	1.6 @ 63 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.08 @ 92 °F	@ °F	@ °F	@ °F	@ °F
Rmf	.89 @ 92 °F	@ °F	@ °F	@ °F	@ °F
Rmc	1.1 @ 92 °F	@ °F	@ °F	@ °F	@ °F
" pH	- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	- CC30 min.	CC30 min.	CC30 min.	CC30 min.	CC30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN					
IND.	5FF40				
Opr. Rig Time					
Truck No.	2516 FARM				
Recorded By	DILLI				
Witness	MR. HARSTON & MR. ROYCE				

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION SW/SE WELL FED 1-23 COMPANY A. LANSDALE	COMPANY <u>A. LANSDALE</u>		
	WELL <u>FEDERAL 1-23</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
LOCATION <u>SW/SE</u>		Other Services:	
<u>849FSL 60IFEL</u>		<u>DIL TAPING</u>	
API SERIAL NO.	SEC.	TWP.	RANGE
<u>23</u>	<u>18S</u>	<u>25E</u>	<u>114</u>

Permanent Datum: <u>GL</u> , Elev.: <u>4704</u>	Elev.: K.B. <u>4713</u>
Log Measured From <u>KB</u> , <u>9</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>KB</u>	G.L. <u>4704</u>

Date	<u>1-16-79</u>				
Run No.	<u>ONE</u>				
Depth-Driller	<u>2793</u>				
Depth-Logger	<u>2801</u>				
Btm. Log Interval	<u>2799</u> ^{26.1}				
Top Log Interval	<u>500</u>				
Casing-Driller	<u>9 7/8 @ 189</u>	@	@	@	@
Casing-Logger	<u>191</u>				
Bit Size	<u>6 1/2</u>				
Type Fluid in Hole	<u>FGM</u>				
Dens.	Visc.	<u>9.5</u>	<u>54</u>		
pH	Fluid Loss	<u>7.5</u>	ml	ml	ml
Source of Sample	<u>FLOWLINE</u>				
Rm @ Meas. Temp.	<u>2.21 @ 63F</u>	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	<u>1.11 @ 63F</u>	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	<u>3.32 @ 63F</u>	@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	<u>M</u>	<u>C</u>		
Rm @ BHT	<u>1.52 @ 95F</u>	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	<u>2200</u>			
	Logger on Bottom	<u>0300 (1-17)</u>			
	Max. Rec. Temp.	<u>95F</u>	°F	°F	°F
Equip.	Location	<u>7726</u>	<u>G.J.</u>		
Recorded By	<u>OLSON</u>				
Witnessed By Mr.	<u>JACOBS</u>				

The well name, location and borehole reference data were furnished by the customer.

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SCHLUMBERGER TOOL AND EQUIPMENT CORPORATION



Electrical Log

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL # 1B COMPANY TEXOTA OIL COMPANY	COMPANY	TEXOTA OIL COMPANY	Location of Well ML Elevation: D.F.: K.B.: 4806 or G.L.: 4798
	WELL	FEDERAL # 1B	
	FIELD	WILDCAT	
	LOCATION	SEC. 29 T8S 25E 12 NW NW SW	
	COUNTY	GRAND	
	STATE	UTAH	
			FILING No. 115

RUN No.	ONE				
Date	11-20-55				
First Reading	1490 ^{36.6}				
Last Reading	222				
Feet Measured	1268				
Csg. Schlum.	222				
Csg. Driller	222				
Depth Reached	1491				
Bottom Driller	1534				
Depth Datum	KB				
Mud Nat.	GEL				
" Density	10.0				
" Viscosity	62				
" Resist.	1.8 @ 65 °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.5 @ 80 °F	@ °F	@ °F	@ °F	@ °F
" pH	= @ = °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5.4 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	80				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A	64"				
AO	18' 8"				
Opr. Rig Time	1 HR				
Truck No.	782 G.J				
Recorded By	RUSEN				
Witness By	CLIFF				

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

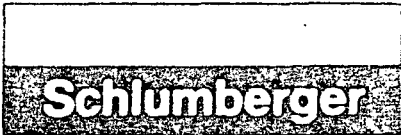


Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL HARLEY GOV'T #1 COMPANY BELCO PETROLEUM CORPORATION	COMPANY BELCO PETROLEUM CORPORATION	Other Surveys GRN, ML
	WELL HARLEY GOV'T #1	Location of Well SEC. 30-18S-25E 2140'S/N 2140'W/E
	FIELD WILDCAT	Elevation: D.F.: _____ K.B.: 4831 or G.L.: _____
	LOCATION SEC. 30-18S-25E 2140'S/N-2140'W/E	FILING No. <u>164</u>
	COUNTY GRAND	
	STATE UTAH	

RUN No.	ONE				
Date	3-16-60				
First Reading	1198 ^{9.7}				
Last Reading	177				
Feet Measured	1021				
Csg. Schlum.	177				
Csg. Driller	177				
Depth Reached	1205				
Bottom Driller	1235				
Depth Datum	KB				
Mud Nat.	GEL				
Dens. Visc.	9.0	55			
Mud Resist.	1.9@ 66°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.48@ 85°F	@ °F	@ °F	@ °F	@ °F
Rmf	1.5@ 66°F	@ °F	@ °F	@ °F	@ °F
Rmc	2.2@ 66°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	12.0CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	27'2"				
IND.	5 ff40				
Opr. Rig Time	1 HR				
Truck No.	1523 GJ				
Recorded By	COVEY				
Witness	ROYCE				

185 26c



COMPUTER
PROCESSED 116
LOG

COMPANY A. LANSDALE
 WELL A. LANSDALE 2-18
 FIELD WILDCAT
 COUNTY GRAND STATE UTAH
 LOCATION SEC. 18-18S-26E; NW/NE; 657' FNL; 1983' FEL
 ELEVATION KB 4873 DF ---- GL 4864

Schlumberger Cyberlook
 WEBSITE COMPUTATION
 A CSU Service

Date	11/6/78						
Run No.	ONE						
Depth-Driller	2629						
Depth-Logger	2637						
Btm. Log Interval	2620	32.7					
Top Log Interval	CSG						
Casing-Driller	9-5/8	@	163	@	@	@	@
Casing-Logger	167						
Bit Size	8-3/4"						
Type Fluid in Hole	FGM						
Dens.	Visc.	9.2	77				
pH	Fluid Loss	NA	NA ml	ml	ml	ml	ml
Source of Sample	MUD PIT						
Rm @ Meas. Temp.	2.12	@	65 °F	@	@	@	F
Rmf @ Meas. Temp.	1.86	@	65 °F	@	@	@	F
Rmc @ Meas. Temp.	---	@	-- °F	@	@	@	F
Source: Rmf	Rmc	MEAS. --					
Rm @ BHT	1.32	@	98 °F	@	@	@	F
TIME	Circulation Stopped	0200	11/6				
	Logger on Bottom	0700	11/6				
Max. Rec. Temp.	98	°F		°F	°F	°F	°F
Equip.	Location	8043	CSPR.				
Recorded By	ROSSMILLER						
Witnessed By Mr.	JACOBS						

The well name, location and borehole reference data were furnished by the customer.

FCLC 116E

T 19 S 18 E

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND FIELD or LOCATION WILDCAT WELL TUSCHER CREEK # 1 COMPANY SHAMROCK OIL & GAS CORPORATION	COMPANY	SHAMROCK OIL & GAS CORPORATION	Other Surveys	SL-C
	WELL	TUSCHER CREEK # 1	Location of Well	
	FIELD	WILDCAT	<i>Confidential</i>	Elevation: D.F.: _____
	LOCATION	SEC. 36-19S-18E SE SE 1007' FSL 402' FEL		K.B.: 5975 or G.L.: 5964
COUNTY	GRAND	FILING No.	117	
STATE	UTAH			

RUN No.	ONE	TWO			
Date	7-18-61	8-12-61			
First Reading	2200 ^{45'}	6427			
Last Reading	312	2197			
Feet Measured	1888	4230			
Csg. Schlum.	314	2197			
Csg. Driller	311	2196			
Depth Reached	2201	6428			
Bottom Driller	2201	6429			
Depth Datum	K. B.	K. B.			
Mud Nat.	GEL	GF			
Dens. Visc.	9.8 40.44	8.8 55			
Mud Resist.	2.5 @ 74°F	1.66 @ 92°F	@ °F	@ °F	@ °F
" Res. BHT	175 @ 106°F	@ °F	@ °F	@ °F	@ °F
Rmf	2.4 @ 74°F	1.16 @ 81°F	@ °F	@ °F	@ °F
Rmc	2.3 @ 74°F	1.60 @ 92°F	@ °F	@ °F	@ °F
" pH	@ °F	8.0 @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	11.6 CC 30 min.	3.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	8-3/4"			
Spchs.—AM	16"	16"			
MN	34'6"	34'6"			
IND.	6FF40	6FF40			
Opr. Rig Time	2 HRS.	2-1/2 HR			
Truck No.	1523 GJ	1593			
Recorded By	MONTGOMERY	MONTGOMERY			
Witness	FOWLER	THOMAS			

195

21 E

Schlumberger

INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL #1 FEDERAL 1-418 COMPANY ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORPORATION	
	WELL NO. 1 FEDERAL 1-418	
	FIELD WILDCAT	
	COUNTY GRAND	STATE UTAH
LOCATION NW/NW/NE	2	Other Services: CNL-FDC-GR
Sec. 23 Twp. 19S Rge. 21E		118
Permanent Datum: G.L., Elev. 6965		Elev.: K.B. 6975
Log Measured From K.B., 10 Ft. Above Perm. Datum		D.F. ----
Drilling Measured From K.B.		G.L. 6955
Date	5-29-72	
Run No.	ONE	
Depth—Driller	6713	
Depth—Logger	6712	
Btm. Log Interval	6711 21.4	
Top Log Interval	2194	
Casing—Driller	8-5/8@2190	@ @ @
Casing—Logger	2194	
Bit Size	6-3/4	
Type Fluid in Hole	FGM	
Dens.	9.3	38
Visc.	7.2	6.0 ml
pH		ml ml ml ml
Fluid Loss		
Source of Sample	FLOWLINE	
R _m @ Meas. Temp.	4.26 @ 76 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	3.47 @ 76 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	2.6 @ 76 °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	M C	
R _m @ BHT	2.22 @ 152 °F	@ °F @ °F @ °F
Time Since Circ.	5 HOURS	
Max. Rec. Temp.	152 °F	°F °F °F °F
Equip. Location	7647 VERNAL	
Recorded By	FARR	
Witnessed By	LARSEN QUIGLEY	

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

Schlumberger

COMPENSATED NEUTRON POROSITY
WITH
SIMULTANEOUS FDC POROSITY CURVE

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 773 NO. 1 COMPANY ANSCHUTZ CORP. INC.	COMPANY THE ANSCHUTZ CORPORATION, INC. WELL FEDERAL 773 NO. 1 FIELD WILDCAT COUNTY GRAND STATE UTAH LOCATION NW SE Sec. 29 Twp. 19S Rge. 21E Permanent Datum: GI, Elev. 6420 Log Measured From KB, 10 Ft. Above Perm. Datum Drilling Measured From KB Other Services: FDC-GR, IES 119 Elev.: K.B. 6430 D.F. - G.I. 6420																																																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Date</td> <td>11-19-71</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Run No.</td> <td>ONE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Depth—Driller</td> <td>4760</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Depth—Logger</td> <td>4761</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Btm. Log Interval</td> <td>4745.254</td> <td>800</td> <td></td> <td></td> </tr> <tr> <td>Top Log Interval</td> <td>3500</td> <td>100</td> <td></td> <td></td> </tr> <tr> <td>Casing—Driller</td> <td>8 5/8@ 776</td> <td>@</td> <td>@</td> <td>@</td> </tr> <tr> <td>Casing—Logger</td> <td>7 7/8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bit Size</td> <td>7 7/8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Type Fluid in Hole</td> <td>FRESH GEL MUD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dens.</td> <td>9.4</td> <td>46</td> <td></td> <td></td> </tr> <tr> <td>Visc.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>pH</td> <td>8</td> <td>5.2 ml</td> <td>ml</td> <td>ml</td> </tr> <tr> <td>Fluid Loss</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Source of Sample</td> <td>FLOWLINE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>R_m @ Meas. Temp.</td> <td>1.96 @ 60 °F</td> <td>@</td> <td>@</td> <td>@ °F</td> </tr> <tr> <td>R_{mf} @ Meas. Temp.</td> <td>1.60 @ 60 °F</td> <td>@</td> <td>@</td> <td>@ °F</td> </tr> <tr> <td>R_{mc} @ Meas. Temp.</td> <td>-- @ -- °F</td> <td>@</td> <td>@</td> <td>@ °F</td> </tr> <tr> <td>Source: R_{mf} R_{mc}</td> <td>M --</td> <td></td> <td></td> <td></td> </tr> <tr> <td>R_m @ BHT</td> <td>1.0 @ 117 °F</td> <td>@</td> <td>@</td> <td>@ °F</td> </tr> <tr> <td>Time Since Circ.</td> <td>6 HRS.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Max. Rec. Temp.</td> <td>117 EST. °F</td> <td>°F</td> <td>°F</td> <td>°F</td> </tr> <tr> <td>Equip. Location</td> <td>5616 VERNAL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Recorded By</td> <td>ED MIXA</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Witnessed By</td> <td>MR. DON QUIGLEY</td> <td></td> <td></td> <td></td> </tr> </table>		Date	11-19-71				Run No.	ONE				Depth—Driller	4760				Depth—Logger	4761				Btm. Log Interval	4745.254	800			Top Log Interval	3500	100			Casing—Driller	8 5/8@ 776	@	@	@	Casing—Logger	7 7/8				Bit Size	7 7/8				Type Fluid in Hole	FRESH GEL MUD				Dens.	9.4	46			Visc.					pH	8	5.2 ml	ml	ml	Fluid Loss					Source of Sample	FLOWLINE				R _m @ Meas. Temp.	1.96 @ 60 °F	@	@	@ °F	R _{mf} @ Meas. Temp.	1.60 @ 60 °F	@	@	@ °F	R _{mc} @ Meas. Temp.	-- @ -- °F	@	@	@ °F	Source: R _{mf} R _{mc}	M --				R _m @ BHT	1.0 @ 117 °F	@	@	@ °F	Time Since Circ.	6 HRS.				Max. Rec. Temp.	117 EST. °F	°F	°F	°F	Equip. Location	5616 VERNAL				Recorded By	ED MIXA				Witnessed By	MR. DON QUIGLEY			
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TEMPERATURE LOG

COUNTY GRAND FIELD or WILDCAT LOCATION WILDCAT WELL 1 STATE 635 COMPANY ANSCHUTZ CORP	COMPANY _____	ANSCHUTZ CORPORATION
		WILLARD PEASE GAS & OIL
	WELL _____	1 STATE 635
	FIELD _____	WILDCAT
	COUNTY _____ STATE _____	GRAND UTAH
	LOCATION _____	Other Services: _____
	SW NE	DIL-GR 120
	Sec. 32 Twp. 19S Rge. 21E	

Permanent Datum: G.L. _____; Elev.: _____	Elev.: K.B. 6173
Log Measured From K.B. _____, 11 Ft. Above Perm. Datum	D.F. _____
Drilling Measured From K.B. _____	G.L. 6162

Date	6/6/76				
Run No.	ONE				
Depth-Driller	4493				
Depth-Logger	3603				
Btm. Log Interval	3606	49.0 °C/ft			
Top Log Interval	150				
Casing-Driller	8 5/8	@	346	@	@
Casing-Logger	346				
Casing Size	1 8 5/8	To	346	To	To
	2 -	To		To	To
Casing Weight	1 -				
	2 -				
Casing Thickness	1 -				
	2 -				
Bit Size	1 7 7/8	To	4493	To	To
	2 -	To		To	To
Type Fluid in Hole	AIR TO 1700 FORMATION WATER TO TD				
Dens.	Visc.	-			
Time Since Circ.	3 HOURS				
BHT	148				
Equip.	Location	7759	GJ		
Recorded By	GETGER				
Witnessed By	QUIGLEY				

Schlumberger

INDUCTION - GAMMA RAY LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL 1 STATE 635 COMPANY ANSCHUTZ CORP.	COMPANY ANSCHUTZ CORPORATION WILLARD PEASE OIL & GAS	
	WELL 1 STATE 635	
	FIELD WILDCAT	
	COUNTY GRAND STATE UTAH	
LOCATION SW NE Sec. 32 Twp. 19S Rge. 21E		Other Services: HRT-GRN 120
Permanent Datum: G.L. _____, Elev. 6162 Log Measured From K.B. _____, 11 Ft. Above Perm. Datum Drilling Measured From K.B. _____		Elev.: K.B. 6173 D.F. - G.L. 6162
Date	6/6/76	
Run No.	ONE	
Depth—Driller	4493	
Depth—Logger	3606	
Btm. Log Interval	3600 51.1°C/ft	
Top Log Interval	346	
Casing—Driller	8 5/8 @ 346	@ @ @
Casing—Logger	346	
Bit Size	7 7/8	
Type Fluid in Hole	FORMATION WATER TO 1600	
Dens.	Visc.	-
pH	Fluid Loss	- ml ml ml ml
Source of Sample	-	
R _m @ Meas. Temp.	- @ °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	- @ °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	- @ °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	-	
R _m @ BHT	- @ °F	@ °F @ °F @ °F
Time Since Circ.	3.5 HOURS	
Max. Rec. Temp.	152 °F	°F °F °F °F
Equip. Location	7759 G.J.	
Recorded By	GEIGER	
Witnessed By	QUIGLEY	

GEOLOGICAL WELL LOG

121

OPERATOR THE ANSCHUTZ CORPORATION ELEV. W.P. 6527
 WELL FEDERAL 769 NO. 1 ELEV. GR. 6514
 LOCATION NE SW SEC. 19 TWP. 12 S. RGE. 21 E.
 COUNTY GRAND STATE UTAH
 CONTRACTOR PEASE DRILLING CO. FIG. NO. 2
 SPUD April 7, 1978 COMPLETED May 2, 1978 STATUS D.A.A.
 LOG I.D. 5399 DRILLER I.D. 5400

CASING 8 5/8" at 1600 feet with 675 socks. REMARKS: Sample quality fair in Mesaverde, poor to very poor in Dakota, fair to good in Cedar Mt. in Entrada.

GEOLOGIST: A. Wayne Powell

DEPTH (ft)	DRILLING TIME Min Per Foot				SHOWS per foot	POW all G-P	LITH	GR Size VI-C	DESCRIPTION
	5	10	15	20					
0									Mud. Br. l. Part. of. 65 ft. gy. sh. M. sly. fg. silst. ll. gy. yll. fr. mar. M. sh. mat. M. Enky. lac. sly. l. sdy. silst. ll. m. gy. fr. mar. sff. org. pit. calc. thin sh. AR. few lat. ss. grs. gy. h. f. s.d. s. r. f. sdy. som. cly. fil. v. calc.
10									ss. ll. gal. fr. l. ss. grs. fg. som. org. s.d. s. rd. p. sly. som. cly. fil. calc. thin sh. mat. gy. sly. calc. som. par. ss. br. l. ss. grs. fg. l. vfg. s.d. f. sdy. calc. opp's. org. fa. gy. ch. som. par.
20									silst. m. gy. st. org. calc. sw. ss. m. a. sh. gy. dk. gy. st. pty. sl. calc. l. calc. fr. m. gn. sh.
30									sh. m. dk. gy. st. pty. sl. calc. m. calc. thin. silst. gy. m. org. fa. vfg. ss.
40									thin. ss. ll. gy. spt. M. fg. s.d. f. sdy. sh. cly. fil. m. calc. P. Par. sh. m. dk. gy. st. pty. par. sly. m. calc. m. few stars. silst. gy. m. org. pit. sdy.
50									sh. m. dk. sly. l. grid. fa. v. org. silst.
60									ss. ll. gy. spt. st. vfg. f. sly. calc. mod. sly. in prt. few br. sh. incl. sl. cly. fil. P. Par.
70									sh. gy. dk. gy. st. enky. m. pty. lac. sly. m. calc. f. ss. ll. gy. spt. fg. vfg. m. a. pt. v. org. P. v. P. Par.
80									silst. gy. som. ll. gy. m. pit. org. calc. mod. ss. ll. gy. gy. m. vfg. s.d. f. sdy. m. sly. l. pit. org. calc. P. v. P. Par.
90									sh. gy. dk. gy. st. enky. m. calc. ss. ll. gy. gy. m. vfg. m. a. p. v. P. Par.
100									sh. gy. dk. gy. st. enky. m. calc. ss. ll. gy. gy. m. vfg. m. a. p. v. P. Par.
110									ss. ll. gy. st. vfg. s.d. f. sdy. sh. m. sly. m. sh. calc. f. d. Par.
120									silst. gy. ll. gy. st. enky. pit. org. calc. sl. carb. at org. sh. m. dk. gy. st. ss. m. gy. l. ss. grs. few cl. fg. s.d. f. sdy. sl. cly. fil. P. Par. silst. sh. m. a. ss. ll. gy. spt. st. fg. l. vfg. s.d. m. cly. fil. v. calc. P. Par.
130									sh. dk. gy. dk. st. pty. s. enky. pit. carb. r. sly. silst. dk. gy. org.
140									ss. ll. gy. spt. st. vfg. s.d. cly. fil. no. B. sh. dk. gy. dk. A.A.
150									silst. ss. A.A.
160									sh. dk. gy. dk. mod. sly. A.A.
170									ss. ll. gy. spt. st. vfg. fg. s.d. f. sdy. mod. cly. fil. sl. calc. v. P. Par.
180									ss. ll. gy. spt. st. vfg. s.d. f. sdy. mod. cly. fil. sl. calc. P. v. P. Par.
190									silst. gy. m. org. sh. gy. st. pty. ss. ll. gy. vfg. fg. A.A. P. Par.
200									silst. l. sh. gy. dk. gy. sl. calc. A.A.
210									ss. wh. ll. gy. sl. spt. st. fg. s.d. f. sdy. D. org. mod. at. sl. sly. calc. P. Par.
220									silst. l. sh. gy. dk. gy. A.A.
230									ss. wh. ll. gy. cl. m. fg. A.A. P. Par.
240									sh. gy. dk. gy. A.A.
250									ss. wh. ll. gy. fa. A.A. P. Par.

Schlumberger

STIMULATED SEOUS

COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY GRAND FIELD WILDCAT LOCATION NESW 1630FWL 1490FSL WELL FEDERAL 769-1 COMPANY THE ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP WELL FEDERAL 769-1 FIELD WILDCAT COUNTY GRAND STATE UTAH LOCATION NE SW 1630FWL 1490FSL Other Services: DIL 121 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">API SERIAL NO.</td> <td style="width:25%;">SEC.</td> <td style="width:25%;">TWP.</td> <td style="width:25%;">RANGE</td> </tr> <tr> <td></td> <td>19</td> <td>19S</td> <td>21E</td> </tr> </table>	API SERIAL NO.	SEC.	TWP.	RANGE		19	19S	21E																																																																																																																															
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	19	19S	21E																																																																																																																																					
Permanent Datum: GL; Elev.: 6514 Log Measured From KB, 9 Ft. Above Perm. Datum Drilling Measured From KB Elev.: K.B. 6523 D.F. -- G.L. 6514																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Date</td><td>5-1-78</td><td></td><td></td><td></td></tr> <tr><td>Run No.</td><td>ONE</td><td></td><td></td><td></td></tr> <tr><td>Depth--Driller</td><td>5400</td><td></td><td></td><td></td></tr> <tr><td>Depth--Logger</td><td>5399</td><td></td><td></td><td></td></tr> <tr><td>Btm. Log Interval</td><td>5398 28.4</td><td></td><td></td><td></td></tr> <tr><td>Top Log Interval</td><td>50</td><td></td><td></td><td></td></tr> <tr><td>Casing--Driller</td><td>8 5/8 @ 1600</td><td>@</td><td>@</td><td>@</td></tr> <tr><td>Casing--Logger</td><td>--</td><td></td><td></td><td></td></tr> <tr><td>Bit Size</td><td>7 7/8</td><td></td><td></td><td></td></tr> <tr><td>Type Fluid in Hole</td><td>FGM</td><td></td><td></td><td></td></tr> <tr><td>Dens.</td><td>9.0</td><td>39</td><td></td><td></td></tr> <tr><td>pH</td><td>11.0</td><td>9.8 ml</td><td>ml</td><td>ml</td></tr> <tr><td>Source of Sample</td><td>MUDTANK</td><td></td><td></td><td></td></tr> <tr><td>Rm @ Meas. Temp.</td><td>.547 @ 70 F</td><td>@ °F</td><td>@ °F</td><td>@ °F</td></tr> <tr><td>Rmf @ Meas. Temp.</td><td>.299 @ 70 F</td><td>@ °F</td><td>@ °F</td><td>@ °F</td></tr> <tr><td>Rmc @ Meas. Temp.</td><td>-- @ -- F</td><td>@ °F</td><td>@ °F</td><td>@ °F</td></tr> <tr><td>Source: Rmf</td><td>M</td><td></td><td></td><td></td></tr> <tr><td>Rmc</td><td>--</td><td></td><td></td><td></td></tr> <tr><td>Rm @ BHT</td><td>.28 @ 135 F</td><td>@ °F</td><td>@ °F</td><td>@ °F</td></tr> <tr><td>TIME</td><td></td><td></td><td></td><td></td></tr> <tr><td>Circulation Stopped</td><td>1400 5-01</td><td></td><td></td><td></td></tr> <tr><td>Logger on Bottom</td><td>2100 5-01</td><td></td><td></td><td></td></tr> <tr><td>Max. Rec. Temp.</td><td>135 F</td><td>°F</td><td>°F</td><td>°F</td></tr> <tr><td>Equip.</td><td>7759 G.J.</td><td></td><td></td><td></td></tr> <tr><td>Location</td><td></td><td></td><td></td><td></td></tr> <tr><td>Recorded By</td><td>GRTAYLOR</td><td></td><td></td><td></td></tr> <tr><td>Witnessed By Mr.</td><td>ALLRED/POWELL</td><td></td><td></td><td></td></tr> </table>		Date	5-1-78				Run No.	ONE				Depth--Driller	5400				Depth--Logger	5399				Btm. Log Interval	5398 28.4				Top Log Interval	50				Casing--Driller	8 5/8 @ 1600	@	@	@	Casing--Logger	--				Bit Size	7 7/8				Type Fluid in Hole	FGM				Dens.	9.0	39			pH	11.0	9.8 ml	ml	ml	Source of Sample	MUDTANK				Rm @ Meas. Temp.	.547 @ 70 F	@ °F	@ °F	@ °F	Rmf @ Meas. Temp.	.299 @ 70 F	@ °F	@ °F	@ °F	Rmc @ Meas. Temp.	-- @ -- F	@ °F	@ °F	@ °F	Source: Rmf	M				Rmc	--				Rm @ BHT	.28 @ 135 F	@ °F	@ °F	@ °F	TIME					Circulation Stopped	1400 5-01				Logger on Bottom	2100 5-01				Max. Rec. Temp.	135 F	°F	°F	°F	Equip.	7759 G.J.				Location					Recorded By	GRTAYLOR				Witnessed By Mr.	ALLRED/POWELL			
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SWS-1872-H

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

SIMULTANEOUS

Schlumberger

**COMPENSATED NEUTRON-
FORMATION DENSITY**

COUNTY GRAND FIELD or WILDCAT LOCATION NO. 1 FEDERAL 772 WELL COMPANY ANSCHUTZ CORP., INC.	COMPANY	THE ANSCHUTZ CORPORATION,		
		INCORPORATED		
	WELL	NO. 1 FEDERAL 772		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH

Location:	API Serial No. 01048	Other Services:
	SW/SW	IES 122
Sec. 21	Twp. 19S	FDC-GR
	Rge. 21E	

Permanent Datum:	GL	Elev.: 6755	Elev.: K.B. 6767
Log Measured From	KB	12 Ft. Above Perm. Datum	D.F. 6766
Drilling Measured From	KB		G.L. 6755

Date	5-9-74						
Run No.	ONE						
Depth-Driller	5230						
Depth-Logger	5210						
Btm. Log Interval	5209 39.9						
Top Log Interval	4140						
Casing-Driller	7	@ 1183	@	@	@	@	@
Casing-Logger	----						
Bit Size	6-1/8						
Type Fluid in Hole	FORMATION WATER						
Fluid Level	FULL						
Dens.	Visc.	----	--				
pH	Fluid Los	----	-- ml	ml	ml	ml	ml
Source of Sample	PIT						
R _m @ Meas. Temp.	----	@ -- °F	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	0.52	@ 78 °F	@ °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	----	@ -- °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf}	R _{mc}	M	--				
R _m @ BHT	----	@ -- °F	@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HRS						
Max. Rec. Temp.	165 °F			°F	°F	°F	°F
Equip.	5602 G.J.						
Location	BARGHOULT						
Recorded By	QUIGLEY						
Witnessed By							

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INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION BULL CANYON WELL FEDERAL 773 #2 COMPANY ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORPORATION			
	WELL FEDERAL 773 NO. 2			
	FIELD BULL CANYON			
	COUNTY GRAND		STATE UTAH	
	LOCATION SE SE		16	
Sec. 29		Twp. 19S Rge. 21E		
Other Services: FDG-GR CNL 123				
Permanent Datum: G.L., Elev. 6281			Elev.: K.B. 6290	
Log Measured From K.B., 9 Ft. Above Perm. Datum			D.F. 6289	
Drilling Measured From K.B.			G.L. 6281	
Date	4-9-72			
Run No.	ONE			
Depth—Driller	4775			
Depth—Logger	4769			
Btm. Log Interval	4768 32.1			
Top Log Interval	455			
Casing—Driller	8-5/8@ 445	@	@	
Casing—Logger	455			
Bit Size	7-7/8			
Type Fluid in Hole	FGM			
Dens.	Visc.	9.6	66	
pH	Fluid Loss	NA	NA ml	
Source of Sample	FLOWLINE			
R _m @ Meas. Temp.	1.44 @ 88 °F	@ °F	@ °F	
R _{mf} @ Meas. Temp.	.834 @ 88 °F	@ °F	@ °F	
R _{mc} @ Meas. Temp.	2.10 @ 88 °F	@ °F	@ °F	
Source: R _{mf} R _{mc}	M C			
R _m @ BHT	.95 @ 135 °F	@ °F	@ °F	
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	135 °F	°F	°F	
Equip. Location	5619 FARM.			
Recorded By	MC MATH			
Witnessed By	D. QUIGLEY			

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION CISCO WILDCAT GOVERNMENT #1 WELL CISCO WILDCAT GOVERNMENT #1 COMPANY BELCO PETROLEUM CORPORATION	COMPANY BELCO PETROLEUM CORPORATION	Other Surveys SL
	WELL GOVERNMENT #1	Location of Well SEC. 34-19S-21E 660' NSL 1980' WEL
	FIELD CISCO WILDCAT	124
	LOCATION SEC. 34-19S-21E 660' NSL - 1980' WEL	Elevation: D.F.: K.B.: 5877 or G.L.: 5867
	COUNTY GRAND STATE UTAH	FILING No. 524

RUN No.	ONE				
Date	1-21-60				
First Reading	3944				
Last Reading	300				
Feet Measured	3644				
Csg. Schlum.	300				
Csg. Driller	303				
Depth Reached	3950				
Bottom Driller	3950				
Depth Datum	KB-10' ABOVE GL				
Mud Nat.	GEL, CAUSTIC, QUEB.				
Dens. Visc.	10.0 60				
Mud Resist.	1.9 @ 62°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	0.85 @ 140°F	@ °F	@ °F	@ °F	@ °F
Rmf	0.56 @ 140°F	@ °F	@ °F	@ °F	@ °F
Rmc	1.00 @ 140°F	@ °F	@ °F	@ °F	@ °F
" pH	9.5 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5.0 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	27 1/2"				
IND.	40"				
Opr. Rig Time	3 HRS				
Truck No.	1523 GJ				
Recorded By	HANSON				
Witness	ROYCE				

19S

22E

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY FIELD or LOCATION WELL	GRAND, UTAH WILDCAT BOOKCLIFFS #2	COMPANY CORPORATION	GULF OIL CORPORATION	COMPANY	GULF OIL	Other Surveys SL-C	
				WELL	BOOKCLIFFS #2		Location of Well SEC. 4-19S-22E CENTER
				FIELD	WILDCAT		Elevation: K.B.: 5706
				LOCATION	SEC. 4-19S-22E CENTER		D.F.: or G.L.: 5695
				COUNTY	GRAND		FILING No. 126
				STATE	UTAH		

RUN No.	ONE	TWO			
Date	9-2-61	9-19-61			
First Reading	1690 ^{39.9}	5213 ^{32.6}			
Last Reading	165	1690			
Feet Measured	1525	3523			
Csg. Schlum.	165	1690			
Csg. Driller	166	1689			
Depth Reached	1691	5214			
Bottom Driller	1690	5215			
Depth Datum	K.B.	K.B.			
Mud Nat.	GEL	GEL-CHEM			
Dens. Visc.	9.2 50	9.1 40			
Mud Resist.	1.42@ 72°F	6.3@ 63°F	@ °F	@ °F	@ °F
" Res. BHT	1.16@ 88°F	2.9@ 147°F	@ °F	@ °F	@ °F
Rmf C	1.10@ 72°F	6.0@ 75°F	@ °F	@ °F	@ °F
Rmc C	2.13@ 72°F	-- @ --°F	@ °F	@ °F	@ °F
" pH	-- @ °F	-- @ °F	@ °F	@ °F	@ °F
" Wtr. Loss	-- CC 30 min.	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	12 1/4"	7 7/8"-3200, 6 3/4"-TD			
Spcgs.—AM	16"	16"			
MN	34'6"	34'6"			
IND.	6FF40	6FF40			
Opr. Rig Time	1 HOUR	2 HOURS			
Truck No.	2517 VNL	1523 GJ			
Recorded By	LANGILL	MONTGOMERY			
Witness	FICKINGER	FICKINGER			

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INDUCTION - GAMMA RAY LOG

COUNTY GRAND
 FIELD or LOCATION W.C.
 WELL BOOKCLIFFS FED #6-1
 COMPANY WILLARD PEASE O&G

COMPANY WILLARD PEASE OIL & GAS

WELL BOOKCLIFFS FED #6-1

FIELD W. C.

COUNTY GRAND STATE UTAH

LOCATION

Sec. 6 Twp. 19S Rge. 22E

Other Services:

127

Permanent Datum: G.L. , Elev. 6115
 Log Measured From KB , 10 Ft. Above Perm. Datum
 Drilling Measured From KB

Elev.: K.B. 6125
 D.F. ---
 G.L. 6115

Date	2/20/77				
Run No.	ONE				
Depth—Driller	6253				
Depth—Logger	6253				
Btm. Log Interval	6247				
Top Log Interval	100				
Casing—Driller	7" @ 2471	@	@	@	@
Casing—Logger	2467				
Bit Size	6 1/4				
Type Fluid in Hole	AIR + FORM. WATER				
Dens.	Visc.	--	--		
pH	Fluid Loss	--	--ml	ml	ml
Source of Sample	--				
R _m @ Meas. Temp.	-- @ --°F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	-- @ --°F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	-- @ --°F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	---				
R _m @ BHT	-- @ --°F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS				
Max. Rec. Temp.	165°F	°F	°F	°F	°F
Equip. Location	7759 G.J.				
Recorded By	GEIGER				
Witnessed By	HUNT				

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL TEJAS NO. 1 COLO. UTAH LIVESTOCK COMPANY TEJAS GAS CORP.	COMPANY		TEJAS GAS CORPORATION	
	WELL		TEJAS NO. 1 COLO.-UTAH LIVESTOCK	
	FIELD		WILDCAT	
	COUNTY		GRAND	STATE
LOCATION		Sec. 13 Twp. 19S Rge. 22E		Other Services: FDC-GR CNL-GR 128
Permanent Datum:		GL	Elev. 5216	
Log Measured From		KB	12 Ft. Above Perm. Datum	
Drilling Measured From		KB		
Elev.:		K.B.	5228	
		D.F.	----	
		G.L.	5216	
Date	8-14-73			
Run No.	ONE			
Depth—Driller	4406			
Depth—Logger	4393			
Btm. Log Interval	4392	28.6		
Top Log Interval	260			
Casing—Driller	7-7/8 @ 250	@	@	@
Casing—Logger	260			
Bit Size	6-3/4			
Type Fluid in Hole	GEL			
Dens.	Visc.	8.5	80	
pH	Fluid Loss	---	-- ml	ml
Source of Sample	PIT			
R _m @ Meas. Temp.	2.8 @ 84 °F	@	°F	@ °F
R _{mf} @ Meas. Temp.	2.8 @ 87 °F	@	°F	@ °F
R _{mc} @ Meas. Temp.	5.6 @ 87 °F	@	°F	@ °F
Source: R _{mf}	R _{mc}	M	C	
R _m @ BHT	1.96 @ 120 °F	@	°F	@ °F
Time Since Circ.	4 HRS.			
Max. Rec. Temp.	120	°F	°F	°F
Equip. Location	7660	G. J.		
Recorded By	STRAWN			
Witnessed By	TOTHILL			

Schlumberger

DUAL INDUCTION - LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT LOCATION 2480'FNL 2310'FEL WELL FEDERAL 261 #1 COMPANY THE ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP			
	WELL FEDERAL 261 #1			
	FIELD WILDCAT			
	COUNTY GRAND		STATE UTAH	
LOCATION 2480'FNL 2310'FEL		Other Services:		
SW NE		FDC-CNL-GR		
API SERIAL NO. SEC. TWP RANGE		BGT-CDR		
15 19S 22E 7		129		

Permanent Datum: GL	Elev.: 5562	Elev.: K.B. 5570
Log Measured From KB 8 Ft. Above Perm. Datum		D.F. --
Drilling Measured From KB		G.L. 5562

Date	1-16-78			
Run No.	ONE			
Depth-Driller	5780			
Depth-Logger	5778			
Btm. Log Interval	5772 28.1			
Top Log Interval	1441			
Casing-Driller	8 5/8 @ 1437	@	@	@
Casing-Logger	1441			
Bit Size	6 3/4 @ CSG/5515, 6 1/2 @ 5515/TD			
Type Fluid in Hole	FGM			
Dens.	9.0	57		
Visc.				
pH	9.0	5.2ml	ml	ml
Fluid Loss				
Source of Sample	MUDTANK			
Rm @ Meas. Temp.	.405 @ 64°F	@	°F	@ °F
Rmf @ Meas. Temp.	.337 @ 64°F	@	°F	@ °F
Rmc @ Meas. Temp.	-- @ --°F	@	°F	@ °F
Source: Rmf	M			
Rmc	--			
Rm @ BHT	.19 @ 140°F	@	°F	@ °F
Circulation Stopped	1800 1-16			
Logger on Bottom	2230 1-16			
Max. Rec. Temp.	140°F		°F	°F
Equip.	7759	G.J.		
Location				
Recorded By	TAYLOR			
Witnessed By	POWELL, WELLS			

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

195

23 E

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 262 NO. 1 COMPANY ANSCHUTZ CORP.	COMPANY	THE ANSCHUTZ CORP., INC.		
	WELL	FEDERAL 262 NO. 1		
	FIELD	WILDCAT		
	COUNTY	GRAND	STATE	UTAH
	LOCATION	NE/SW		Other Services: FDC-GR CNL-GR
	Sec.	7	Twp.	19S Rge. 23E
				130

Permanent Datum:	G.L.	Elev.	5265	Elev.: K.B.	5275
Log Measured From	K.B., 10	Ft. Above Perm. Datum		D.F.	----
Drilling Measured From	K.B.			G.L.	5265

Date	5-15-72				
Run No.	ONE				
Depth—Driller	4680				
Depth—Logger	4680				
Btm. Log Interval	4679	33.9			
Top Log Interval	291				
Casing—Driller	8-5/8@295	@	@	@	@
Casing—Logger	291				
Bit Size	7-7/8				
Type Fluid in Hole	CHEM GEL				
Dens.	9.7	40			
Visc.					
pH	10.0	5.4ml	ml	ml	ml
Fluid Loss					
Source of Sample	PIT				
R _m @ Meas. Temp.	1.48 @ 72 °F	1.48 @ 72 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.10 @ 72 °F	1.10 @ 72 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	3.50 @ 72 °F	3.50 @ 72 °F	@ °F	@ °F	@ °F
Source: R _{mf}	M	C			
R _{mc}					
R _m @ BHT	0.75 @ 138 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS				
Max. Rec. Temp.	138 °F	°F	°F	°F	°F
Equip.	5640 VERNAL				
Location					
Recorded By	DANTI, SHEPPARD				
Witnessed By	DON QUIGLEY				

The well name, location and borehole reference data were furnished by the customer.

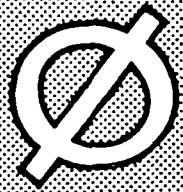
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Dresser Atlas

Combination Logging Systems

DRESSER

Compensated **Densilog**
Compensated **Neutron**



FILE NO. R-417	COMPANY THE ANSCHUTZ CORPORATION		
	WELL FEDERAL 263 #1		
	FIELD WILDCAT		
	COUNTY GRAND	STATE	UTAH
	LOCATION: NW/SE		Other Services DIFL/CDL
	SEC 10	TWP 19S	RGE 23E

Permanent Datum	GROUND LEVEL	Elev.	5140	Elevations:
Log Measured from	R.K.B.	8	Ft. Above Permanent Datum	KB 5148
Drilling Measured from	R.K.B.			DF 5147
				GL 5140

Date	5/13/77			
Run No.	ONE			
Service Order	39211			
Depth—Driller	4423			
Depth—Logger	4419			
Bottom Logged Interval	4417 30.5			
Top Logged Interval	3200			
Casing—Driller	8 5/8" 250	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	7 7/8"			
Type Fluid in Hole	GEL MIST			
Density and Viscosity				
pH and Fluid Loss		cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.36 @ 76 °F	@	°F	@ °F
Rmf @ Meas. Temp.	.40 @ 76 °F	@	°F	@ °F
Rmc @ Meas. Temp.	.33 @ 75 °F	@	°F	@ °F
Source of Rmf and Rmc	M M		°F	
Rm @ BHT	.21 @ 125 °F	@	°F	@ °F
Time Since Circ.	8.5 HOURS			
Max. Rec. Temp. Deg. F.	125 °F		°F	°F °F
Equip. No. and Location	6089 RSVLT			
Recorded By	MCCALL			
Witnessed By	MR. SCHULZ			



SCANDIUM-NEUTRON
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY FIELD LOCATION WELL COMPANY	COMPANY <u>The Anschutz Corporation</u>			
	WELL <u>Federal 335-3</u>			
	FIELD <u>Wildcat</u>			
	COUNTY <u>Grand</u> STATE <u>Utah</u>			
LOCATION	<u>690' FSL, 1610' FEL</u>	Other Services: <u>DIC</u>		
API SERIAL NO	SEC. <u>19</u>	TWP. <u>19S</u>	RANGE <u>2SE</u>	132

Permanent Datum: <u>Ground level</u> ; Elev.: <u>5169</u>	Elev.: K.B. <u>5178</u>
Log Measured From <u>K.B.</u> , <u>9</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>K.B.</u>	G.L. <u>5169</u>

Date	<u>Feb. 13, 1978</u>					
Run No.	<u>one</u>					
Depth-Driller	<u>3770</u>					
Depth-Logger	<u>3794</u>					
Btm. Log Interval	<u>3793</u>	<u>31.7</u>				
Top Log Interval	<u>2500</u>					
Casing-Driller	<u>8 5/8 @ 218</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>-</u>					
Bit Size	<u>see remarks</u>					
Type Fluid in Hole	<u>flom</u>					
Dens.	<u>8.5</u>	<u>S2</u>				
pH	<u>7.5</u>	<u>-</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>
Source of Sample	<u>mud tank</u>					
Rm @ Meas. Temp.	<u>2.02 @ 62</u>	<u>F</u>	<u>@</u>	<u>F</u>	<u>@</u>	<u>F</u>
Rmf @ Meas. Temp.	<u>1.49 @ 62</u>	<u>F</u>	<u>@</u>	<u>F</u>	<u>@</u>	<u>F</u>
Rmc @ Meas. Temp.	<u>- @ -</u>	<u>F</u>	<u>@</u>	<u>F</u>	<u>@</u>	<u>F</u>
Source: Rmf	<u>m</u>	<u>-</u>				
Rm @ BHT	<u>1.07 @ 117</u>	<u>F</u>	<u>@</u>	<u>F</u>	<u>@</u>	<u>F</u>
TIME	Circulation Stopped	<u>0630 2-13</u>				
	Logger on Bottom	<u>1300 2-13</u>				
	Max. Rec. Temp.	<u>117</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>
Equip.	Location	<u>7759</u>	<u>G.J.</u>			
Recorded By	<u>TAYLOR</u>					
Witnessed By Mr.	<u>Powell Mr. Wells</u>					

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

Schlumberger

SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY GRAND FIELD COTTONWOOD CREEK LOCATION 1880FNL 1982FEL WELL FEDERAL 335-1 COMPANY ANSCHUTZ CORP	COMPANY THE ANSCHUTZ CORP	
	WELL FEDERAL 335-1	
	FIELD COTTONWOOD CREEK AREA	
	COUNTY GRAND STATE UTAH	
LOCATION	1880FNL 1982FEL	
API SERIAL NO.	SEC.	TWP.
	20	19S
		23E
Other Services:		
DIL		
		133

Permanent Datum: GL	Elev.: 5041	Elev.: K.B. 5050
Log Measured From KB	9 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 5041

Date	3-31-78		
Run No.	ONE		
Depth-Driller	3551		
Depth-Logger	3551		
Btm. Log Interval	3550 30.3		
Top Log Interval	2500		
Casing-Driller	8 5/8 @ 220	@	@
Casing-Logger	--		
Bit Size	6 3/4		
Type Fluid in Hole	FGM		
Dens.	9.4	104	
Visc.			
pH	9	12 ml	ml
Fluid Loss			
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	.439 @ 68 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.289 @ 68 °F	@ °F	@ °F
Rmc @ Meas. Temp.	-- @ -- °F	@ °F	@ °F
Source: Rmf	M	--	
Rmc			
Rm @ BHT	.27 @ 110 °F	@ °F	@ °F
TIME	Circulation Stopped 2400 3-31		
	Logger on Bottom 0600 4-01		
Max. Rec. Temp.	110 °F	°F	°F
Equip.	5642	G.J.	
Location			
Recorded By	GRTAYLOR		
Witnessed By Mr.	POWELL/WELLS		

The well name, location and borehole reference data were furnished by the customer.

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DUAL INDUCTION - LATEROLO
WITH LINEAR CORRELATION LOG

COUNTY GRAND FIELD WILDCAT	LOCATION CHRIS JOUFLAS NO 1 WELL	COMPANY FRANK ADAMS & MARK DIZDAR, TRUSTEE	COMPANY FRANK B. ADAMS & MARK	
			DIZDAR, TRUSTEE	
			WELL CHRIS JOUFLAS NO. 1	
			FIELD WILDCAT	
COUNTY GRAND		STATE UTAH		
LOCATION 1980' FSL & 660 FWL			Other Services: FDC - CNL	
API SERIAL NO. SEC. TWP RANGE			144	
20 19S 12 23E				

Permanent Datum: G.L.	Elev.: 5065	5075
Log Measured From: K.B. 10 Ft. Above Perm. Datum		Elev.: K.B. 50
Drilling Measured From: K.B.		D.F. _____
		G.L. 50

Date	5/14/77				
Run No.	ONE				
Depth-Driller	3325				
Depth-Logger	3324				
Btm. Log Interval	3318 35.7				
Top Log Interval	229				
Casing-Driller	7"	@	230	@	@
Casing-Logger	229				
Bit Size	6 1/4				
Type Fluid in Hole	GEL				
Dens.	8.8	67			
Visc.					
pH	-	6.4ml		ml	ml
Fluid Loss					
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	4.26@	56 °F	@	°F	@
Rmf @ Meas. Temp.	3.40@	55 °F	@	°F	@
Rmc @ Meas. Temp.	-	@ °F	@	°F	@
Source: Rmf	CELL -				
Rmc					
Rm @ BHT	2.1 @	116 °F	@	°F	@
Circulation Stopped	9 HOURS				
Logger on Bottom	-				
Max. Rec. Temp.	116	°F	°F	°F	°F
Equip.	7759 G.J.				
Location					
Recorded By	THOMPSON				
Witnessed By	ADAMS				

SWS-1608.G 35.7 °C / 96 °F



COMPENSATED

COMPENSATED

Densilog
Neutron

FILE NO. R-413	COMPANY THE ANSCHUTZ CORPORATION		
	WELL FEDERAL 266 #1		
	FIELD WILDCAT		
	COUNTY GRAND	STATE	UTAH
	LOCATION: SW/NE		Other Services DIFL/CDL
	SEC 24	TWP 19S	RGE 23E 134
Permanent Datum	GROUND LEVEL	Elev. 4825	Elevations: KB 4833
Log Measured from	R.K.B.	8 Ft. Above Permanent Datum	DF 4832
Drilling Measured from	R.K.B.		GL 4825
Date	5/6/77		
Run No.	ONE		
Depth—Driller	3460		
Depth—Logger	3444		
Bottom Logged Interval	3442 29.6		
Top Logged Interval	2000		
Casing—Driller	8 5/8 @ 215	@	@
Casing—Logger	NOT LOGGED		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEM GEL		
Density and Viscosity	8.9 300		
pH and Fluid Loss	N.A. N.A. cc	cc	cc
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	.9 @ 72 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.9 @ 72 °F	@ °F	@ °F
Rmc @ Meas. Temp.	.88 @ 70 °F	@ °F	@ °F
Source of Rmf and Rmc	M M		
Rm @ BHT	@ 107 °F	@ °F	@ °F
Time Since Circ.	6 HOURS		
Max. Rec. Temp. Deg. F.	107 °F	°F	°F
Equip. No. and Location	6089 RSVLT		
Recorded By	MCCALL & SUTTON		
Witnessed By	MR. SCHULZ.		

Schlumberger

INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL 267 NO. 1 COMPANY THE ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORPORATION WELL FEDERAL 267 NO. 1 FIELD WILDCAT COUNTY GRAND STATE UTAH LOCATION SW SW Sec. 26 Twp. 19S Rge. 23E			
	Other Services: FDC - GR CNL - GR <div style="text-align: right; font-size: 1.2em;">135</div>			
Permanent Datum: G. L. _____, Elev. 4862 Log Measured From KB _____, 10 Ft. Above Perm. Datum Drilling Measured From KB _____				
Elev.: K.B. 4872 D.F. ---- G.L. 4862				
Date	6-29-72			
Run No.	ONE			
Depth—Driller	3201			
Depth—Logger	3204			
Btm. Log Interval	3203 36.4			
Top Log Interval	296			
Casing—Driller	8 5/8 @ 296	@	@	@
Casing—Logger	296			
Bit Size	7 7/8			
Type Fluid in Hole	CHEM- GEL			
Dens.	9.5	60		
Visc.				
pH				
Fluid Loss	- -	- - ml	ml	ml
Source of Sample	CIRC			
R _m @ Meas. Temp.	1.65 @ 82 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.30 @ 82 °F	0.93 @ 115 °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	- - @ - - °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	M - -			
R _m @ BHT	1.2 @ 115 °F	@ °F	@ °F	@ °F
Time Since Circ.	5 HOURS			
Max. Rec. Temp.	115 °F	°F	°F	°F
Equip. Location	7022 FARM			
Recorded By	MARTIN			
Witnessed By	QUIGLEY			

The well name, location and borehole reference data were furnished by the customer.

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Schlumberger

COMPENSATED FORMATION DENSITY LOG

Gamma-Gamma

COUNTY GRAND FIELD or LOCATION WILDCAT WELL ANSCHUTZ NO. 2 FEDERAL 267 COMPANY ANSCHUTZ CORP.	COMPANY	THE ANSCHUTZ CORPORATION			
	WELL	ANSCHUTZ NO. 2 FEDERAL 267			
	FIELD	WILDCAT			
	COUNTY	GRAND	STATE	UTAH	
Location:		SE/SE	Other Services:		
Sec.	27	Twp.			19S
			16		
					136

Permanent Datum:	GL	Elev.:	4880	Elev.: K.B.	4892
Log Measured From	KD	12	Ft. Above Perm. Datum	D.F.	4891
Drilling Measured From	KB			G.L.	4880

Date	10-12-73				
Run No.	ONE				
Depth-Driller	2902				
Depth-Logger	2437*				
Btm. Log Interval	2436	39.6			
Top Log Interval	110				
Casing-Driller	7-5/8@	110	@	@	@
Casing-Logger	110				
Bit Size	6-3/4				
Type Fluid in Hole	AIR DRILLED				
Fluid Level					
Dens.	Visc.				
pH	Fluid Los	ml	ml	ml	ml
Source of Sample					
R _m @ Meas. Temp.	@	°F	@	°F	@
R _{mf} @ Meas. Temp.	@	°F	@	°F	@
R _{mc} @ Meas. Temp.	@	°F	@	°F	@
Source: R _{mf}	R _{mc}				
R _m @ BHT	@	°F	@	°F	@
Time Since Circ.					
Max. Rec. Temp.	104	°F	°F	°F	°F
Equip.	Location	7660	G.J.		
Recorded By	DARGHOOTT				
Witnessed By	QUIGLEY				

Schlumberger

INDUCTION-ELECTRICAL LOG

COUNTY FIELD or LOCATION WELL COMPANY	GRAND CISCO SPRINGS KEWANEE 1 FEDERAL WILLARD PEASE OIL & GAS	COMPANY <u>WILLARD PEASE</u> WELL <u>KEWANEE #1 FEDERAL</u> FIELD <u>CISCO SPRINGS</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u>	Location: <u>API 43-09-30249</u> <u>C-NW-NW</u> N.A.	Other Services: <u>72</u> <u>GR-FDC-CNL</u> <u>137</u>
	Sec. <u>28</u> Twp. <u>19S</u> Rge. <u>23E</u>		4	
	Permanent Datum: <u>G.L.</u> ; Elev.: <u>N.A.</u>		Elev.: K.B. <u>- 4990</u>	
	Log Measured From <u>K.B.</u> <u>10</u> Ft. Above Perm. Datum		D.F. <u>-</u>	
Drilling Measured From <u>K.B.</u>		G.L. <u>4980</u>		

Date	2/11/76						
Run No.	ONE						
Depth-Driller	3360						
Depth-Logger	3364						
Btm. Log Interval	3363 38.5						
Top Log Interval	148						
Casing-Driller	7 5/8 @ 151			@	@	@	@
Casing-Logger	148						
Bit Size	6 3/4						
Type Fluid in Hole	GEL						
Dens.	Visc.	8.8 45					
pH	Fluid Loss	11	8.4 ml		ml		ml
Source of Sample	FLOWLINE						
Rm @ Meas. Temp.	1.19 @ 84 °F		@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.79 @ 56 °F		@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ - °F		@ °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	MUD PRESS					
Rm @ BHT	.85 @ 122 °F		@ °F	@ °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	0500					
	Logger on Bottom	0730					
	Max. Rec. Temp.	122 °F		°F	°F	°F	°F
	Equip.	Location	7.5 C.J.				
	Recorded By	ETTER					
	Witnessed By	TRULL					

RETURN TO CASPER

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

Schlumberger

INDUCTION ELECTRICAL LOG

COUNTY GRAND FIELD WILDCAT LOCATION SW/SE WELL BOWERS 1-36 COMPANY BOWERS OIL & GAS	COMPANY <u>BOWERS OIL & GAS, EXPLORATION</u>		
	WELL <u>BOWERS STATE 1-36</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>		
	LOCATION <u>395FSL 1780FEL SW/SE</u>		Other Services: FDC-CNL-GR TAPING 342
	API SERIAL NO.	SEC. <u>36</u>	

Permanent Datum: <u>GL</u> ; Elev.: <u>4806</u>	Elev.: K.B. <u>4813</u>
Log Measured From <u>KB</u> <u>7</u> Ft. Above Perm. Datum	D.F. <u>-</u>
Drilling Measured From <u>KB</u>	G.I. <u>4806</u>

Date	<u>2-28-79</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>2800</u>					
Depth-Logger (Schl.)	<u>2803</u>					
Btm. Log Interval	<u>2797</u> <u>30.6</u>					
Top Log Interval	<u>1800</u>					
Casing-Driller	<u>7"</u>	<u>@ 200</u>		<u>@</u>	<u>@</u>	<u>@</u>
Casing-Logger	<u>206</u>					
Bit Size	<u>6 1/4</u>					
Type Fluid in Hole	<u>FGM</u>					
Dens.	Visc.	<u>8.7</u>	<u>110</u>			
pH	Fluid Loss	<u>9.0</u>	<u>5</u> ml		ml	ml
Source of Sample	<u>MUDTANK</u>					
Rm @ Meas. Temp.	<u>1.06</u>	@ <u>60</u> F		@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	<u>.431</u>	@ <u>60</u> F		@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	<u>-</u>	@ <u>-</u> °F		@ °F	@ °F	@ °F
Source: Rmf	Rmc	<u>EMT</u>	<u>-</u>			
Rm @ BHT	<u>.63</u>	@ <u>98</u> F		@ °F	@ °F	@ °F
TIME	Circulation Stopped	<u>1300</u>	<u>3-1</u>			
	Logger on Bottom	<u>1500</u>				
Max. Rec. Temp.	<u>98</u> F			°F	°F	°F
Equip.	Location	<u>7726</u>	<u>G.J.</u>			
Recorded By	<u>OLSON</u>					
Witnessed By Mr.	<u>BURKHARTER</u>					

SW9-877-N

The well name, location and borehole reference data were furnished by the customer.

195 24E 125E

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL # 1-D COMPANY TEXOTA OIL COMPANY	COMPANY TEXOTA OIL CO. <hr/> WELL FEDERAL # 1-D <hr/> FIELD WILDCAT LOCATION SEC. 14-19S-24E 8 <hr/> COUNTY GRAND <hr/> STATE UTAH	Location of Well SE-NE SEC. 14-19S-24E ES (ML) Elevation: D.F.: K.B.: 4674' or G.L.: 4665'.
		FILING No. 138

RUN No.	ONE				
Date	12/17/55				
First Reading	2604 31.5				
Last Reading	154				
Feet Measured	2450				
Csg. Schlum.	154				
Csg. Driller	160				
Depth Reached	2605				
Bottom Driller	2600				
Depth Datum	KB 8.5' ABOVE GL				
Mud Nat.	GEL				
" Density	9.8				
" Viscosity	51				
" Resist.	4.2 @ 63°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	2.4 @ 96°F	@ °F	@ °F	@ °F	@ °F
" pH	-- @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	96				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
AM'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR.				
Truck No.	2783 FARM				
Recorded By	DENNIS				
Witnessed By	CLIFF				

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS



Electrical Log

COUNTY: GRAND
FIELD OR WILDCAT
LOCATION: SEC. 35-19S-24E
WELL: HENR.OID.FEDERAL #2
COMPANY: THE CARRIER OIL CO.

COMPANY: THE CARRIER OIL
COMPANY
WELL: HENR.OID.FEDERAL #2
FIELD: WILDCAT
LOCATION: SEC. 35-19S-24E
COUNTY: GRAND
STATE: UTAH
PLING No. DML 20, 254

Location of Well
ES (ML)
C SE SW
139
Elevation: D.F.: 4576
K.B.:
or G.L.:

RUN NO. ONE

Date	10-1-55				
First Reading	1598				
Last Reading	125				
Footage Measured	1473				
Cog Shoe Sclison	125				
Cog Shoe Driller	125				
Depth Reached	1599				
Bottom Driller	1400				
Depth Datum	K.R.				
Mud Nature	GEL, CAUSTIC, QUEB				
Density	9.8				
Viscosity	53				
Resistivity	1.2 @ 60 °F	000 °F	000 °F	000 °F	000 °F
Resistivity BHT	.84 @ 81 °F	000 °F	000 °F	000 °F	000 °F
pH	— @ °F	000 °F	000 °F	000 °F	000 °F
Water Loss	— CC/30 Min	CC/30 Min	CC/30 Min	CC/30 Min	CC/30 Min
Maximum Temp. °F	81				
Bit Size	7 7/8"				
Spacings — AM	16"				
A.M.	64"				
AO	18 1/2"				
E.S. Rig Time	1 HOUR				
Truck No.	782 G.J				
Recorded by	RUSEN				
Witnessed by	KEEBLER				

REMARKS

MUD SAMPLE FROM FLOW LINE.

A RILEY REPRODUCTION

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SPONTANEOUS-POTENTIAL
millivolts

SCHLUB

RESISTIVITY
—ohms. m²/m.

1" = 100'

SCHLUMBERGER

INDUCTION - ELECTRICAL LOG

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY GRAND, UTAH FIELD or LOCATION SEIBER NOSE WELL PROMONTORY - UTI # 3 COMPANY PROMONTORY OIL	COMPANY	PROMONTORY OIL COMPANY		
	WELL	PROMONTORY UTI # 3-35		
	FIELD	SEIBER NOSE		
	COUNTY	GRAND	STATE	UTAH
LOCATION	SW - NW - SE		Other Services:	
Sec. 35	Twp. 19S	Rge. 24E	NONE 140	

Permanent Datum: G.L. _____, Elev. 4575	Elev.: K.B. - _____
Log Measured From G.L. _____, 0 Ft. Above Perm. Datum	D.F. - _____
Drilling Measured From G.L. _____	G.L. 4575

Date	6-1-64				
Run No.	ONE				
Depth—Driller	1580				
Depth—Logger	1576				
Btm. Log Interval	1575. 33.6				
Top Log Interval	100				
Casing—Driller	7" @ 99	@	@	@	@
Casing—Logger	-				
Bit Size	6 1/4"				
Type Fluid in Hole	GEL - CHEMICAL				
Dens.	Visc.	10.2	.39		
pH	Fluid Loss	-	- ml	ml	ml
Source of Sample	PITS				
R _m @ Meas. Temp.	2.24 @ 70 °F	@ °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	1.75 @ 80 °F	@ °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.90 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	CHART CHART				
R _m @ BHT	2.0 @ 80 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	-				
Max. Rec. Temp.	80 °F	°F	°F	°F	°F
Equip. Location	2598 G. J.				
Recorded By	MONTGOMERY				
Witnessed By	BUSH & JACOBS				

SCHLUMBERGER

INDUCTION-ELECTRICAL LOG

COUNTY	COMPANY <u>Gunnison Drilling Co</u>	
	WELL <u>Huskey State #1</u>	
	FIELD <u>Sieber Nose</u>	
	COUNTY <u>Grand</u>	STATE <u>Utah</u>
	FIELD or LOCATION WELL	LOCATION <u>2100' E. W. Line</u> <u>790' S. N. Line</u> <u>24</u> <u>8</u>
COMPANY	Sec. <u>36</u> Twp. <u>19S</u> Rge. <u>24E</u>	

Permanent Datum: <u>G.L.</u> , Elev. <u>9647</u>	Elev.: K.B. _____
Log Measured From <u>G.L.</u> , <u>0</u> Ft. Above Perm. Datum	D.F. _____
Drilling Measured From <u>S.L.</u>	G.L. <u>4647</u>

Date	<u>10-13-68</u>		
Run No.	<u>1</u>		
Depth—Driller	<u>1502</u>		
Depth—Logger	<u>1476</u>		
Btm. Log Interval	<u>1475.630</u>		
Top Log Interval	<u>.44</u>		
Casing—Driller	<u>7" @ 100</u>	@	@
Casing—Logger	<u>-</u>		
Bit Size	<u>5/8 @ 1300</u>	<u>6/8 @ T.D.</u>	
Type Fluid in Hole	<u>Air Mist</u>		
Dens. Visc.	<u>- -</u>		
pH Fluid Loss	<u>-</u>	<u>- ml</u>	<u>ml</u>
Source of Sample	<u>Circ</u>		
R _m @ Meas. Temp.	<u>1.04 @ 69°F</u>	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>1.02 @ 69°F</u>	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>.6 @ 102°F</u>	@ °F	@ °F
Source: R _{mf} R _{mc}	<u>M</u>	<u>C</u>	
R _m @ BHT	<u>0.7 @ 102°F</u>	@ °F	@ °F
Time Since Circ.	<u>1 hr</u>		
Max. Rec. Temp.	<u>102</u> °F	°F	°F
Equip. Location	<u>4529</u>	<u>4316</u>	
Recorded By	<u>McFarland & Thomas</u>		
Witnessed By	<u>Huskey & S. Tava</u>		



BIRDWELL

Gamma Ray-Neutron

COMPANY BURTON HANCOCK

WELL #10-A

FIELD BAR X

COUNTY GRAND STATE UTAH

LOCATION:

SEC. 4 TWP. 19S RGE. 25E

OTHER SERVICES
GRC PSJ
CCL
V3D **142**

PERMANENT DATUM GROUND LEVEL, ELEV. 5594'
LOG MEASURED FROM KB, 9 Ft. Above Perm. Datum
DRILLING MEASURED FROM KB

ELEV. K.B. 5603'
D.F. 5602'
G.L. 5594'

DATE	11 NOV. 76		
RUN NO.	ONE		
TYPE LOG	NL GRS.		
DEPTH - DRILLER	4095'		
DEPTH - LOGGER	4085'		
BTM. LOG. INTER.	4084' 42.8		
TOP LOG. INTER.	3600'		
TYPE FLUID IN HOLE	WATER		
SALINITY PPM CL.	FRESH		
DENSITY LB./GAL.	N/A		
LEVEL	FULL		
MAX. REC. TEMP. - °F	147°		
OPER. RIG TIME	1.5 HRS		
RECORDED BY	MARTINEZ		
WITNESSED BY	MR. HANCOCK		
LOCATION	GRAND JUNCTION, COLO		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1		0	178'	7"	N/A	0	178'
	6-1/4"	178'	4095'	4-1/2"	N/A	0	4094'

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Electrical Log

COUNTY GRAND, UTAH FIELD or LOCATION WILDCAT WELL FEDERAL # 1C COMPANY TEXOTA OIL CO.	COMPANY	TEXOTA OIL CO.	Location of Well	
	WELL	FEDERAL # 1C	SW-SW	
	FIELD	WILDCAT	SEC. 30-19S-25E	
	LOCATION	SEC. 30-19S-25E 5	ES	
	COUNTY	GRAND	(ML)	
STATE	UTAH	Elevation: D.F.:		
		K.B.: 4598'		
		or G.L.: 4593'		
		FILING No. 143		

RUN No.	ONE				
Date	12/4/55				
First Reading	1954 45.7				
Last Reading	195				
Feet Measured	1759				
Csg. Schlum.	195				
Csg. Driller	184				
Depth Reached	1955				
Bottom Driller	1958				
Depth Datum	KB				
Mud Nat.	GEL				
" Density	9.6				
" Viscosity	58				
" Resist.	1.3 @ 54° F	@ ° F	@ ° F	@ ° F	@ ° F
" Res. BHT	0.7 @ 100° F	@ ° F	@ ° F	@ ° F	@ ° F
" pH	9.5 @ ° F	@ ° F	@ ° F	@ ° F	@ ° F
" Wtr. Loss	6 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. ° F	100				
Bit Size	7 7/8"				
Spcgs.—AM	16"				
A M'	64"				
AO	18' 8"				
Opr. Rig Time	1 HR.				
Truck No.	1714 FARM				
Recorded By	KIMBALL				
Witnessed By	CLIFF				



STIMULATED SIMULTANEOUS
COMPENSATED NEUTRON
FORMATION DENSITY

GRAND COUNTY CALF CANYON FIELD SE SW LOCATION STATE 7265 #1 WELL ANSCHUTZ CORP. COMPANY	COMPANY THE ANSCHUTZ CORP			
	WELL STATE 7265 #1			
	FIELD CALF CANYON			
	COUNTY GRAND		STATE UTAH	
	LOCATION	SE SW		
API SERIAL NO.		SEC.	TWP.	RANGE
		2	20S	21E
Other Services:				
DIL. TAPING 343				

Permanent Datum: GL	Elev.: 5637	Elev.: K.B. 5648
Log Measured From KB	11 Ft. Above Perm. Datum	D.F. --
Drilling Measured From KB		G.L. 5637

Date	8-21-78			
Run No.	ONE			
Depth-Driller	3500			
Depth-Logger	3503			
Btm. Log Interval	3501 39.6			
Top Log Interval	1494			
Casing-Driller	7 5/8 @ 231	@	@	@
Casing-Logger	226			
Bit Size	6 1/2			
Type Fluid in Hole	FGM			
Dens.	Visc.	N/A		
pH	Fluid Loss	N/A ml	ml	ml
Source of Sample	TANK			
Rm @ Meas. Temp.	2.19 @ 68F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.39 @ 68F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.28 @ 68F	@ °F	@ °F	@ °F
Source: Rmf	Rmc	M	C	
Rm @ BHT	1.25 @ 127F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	0200		
	Logger on Bottom	0830		
Max. Rec. Temp.	127F	°F	°F	°F
Equip.	Location	7726	4111	
Recorded By	LAUDE			
Witnessed By Mr.	HELMKE/HARVEY			

SWS-1872-J

The well name, location and borehole reference data were furnished by the customer. FOLD HERE

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DUAL INDUCTION - LATEROLOG

WITH LINEAR CORRELATION LOG

COUNTY <u>GRAND</u>		COMPANY <u>SUPRON ENERGY</u>	
FIELD <u>CALF CANYON</u>		WELL <u>2-20-21 #1</u>	
LOCATION <u>330 FNL 1980 FEL</u>		FIELD <u>CALF CANYON</u>	
WELL <u>2-20-21 #1</u>		COUNTY <u>GRAND</u> STATE <u>UTAH</u>	
COMPANY <u>SUPRON ENERGY</u>		Other Services: FDC-CNL-GR TAPING	
LOCATION	330 FNL 1980 FEL		145
API SERIAL NO.	SEC.	TWP	
	2	20S	RANGE 21W
Permanent Datum: <u>GROUND LEVEL</u> ; Elev.: <u>5762</u>			Elev.: K.B. <u>5772</u>
Log Measured From <u>KB</u> <u>10</u> Ft. Above Perm. Datum			D.F. _____
Drilling Measured From <u>KELLY BUSHING</u>			G.L. <u>5762</u>
Date	10-14-78		
Run No.	ONE		
Depth-Driller	3676		
Depth-Logger	3676		
Btm. Log Interval	3670 ^{33.3}		
Top Log Interval	196		
Casing-Driller	8-5/8@ 193	@	@
Casing-Logger	196		
Bit Size	7-7/8		
Type Fluid in Hole	FGM		
Dens.	89	Visc.	63
pH	Fluid Loss	10.5	-- ml
Source of Sample	MUD TANK		
Rm @ Meas. Temp.	2.42 @ 70°F	@	@ °F
Rmf @ Meas. Temp.	1.92 @ 70°F	@	@ °F
Rmc @ Meas. Temp.	3.63 @ 70°F	@	@ °F
Source: Rmf	M	Rmc	C
Rm @ BHT	1.5 @ 118°F	@	@ °F
TIME	Circulation Stopped	0300	
	Logger on Bottom	0930	
Max. Rec. Temp.	118 °F	°F	°F
Equip.	Location	7726	4111
Recorded By	OLSON/BRATTON		
Witnessed By	DON OUIGLEY		

The well name, location and borehole reference data were furnished by the customer.

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SIMULTANEOUS
**COMPENSATED NEUTRON-
 FORMATION DENSITY**

COUNTY	GRAND	STATE	UTAH
FIELD	WILDCAT	WELL	ANSCHUTZ CC NO. 1
LOCATION	SEC. 3 20S 21E	COMPANY	WILLARD PEASE OIL & GAS CO.
WELL	ANSCHUTZ CC NO. 1	FIELD	WILDCAT
COMPANY	WILLARD PEASE OIL & GAS CO.	COUNTY	GRAND
LOCATION	SW SE	Other Services:	IES
API SERIAL NO.	SEC. 3	TWP. 20S	RANGE 21E

146

Permanent Datum:	GL	Elev.:	5695
Log Measured From:	KB	11 Ft. Above Perm. Datum	
Drilling Measured From:	KB		
		Elev.:	K.B. 5706
			D.F. 5705
			G.I. 5695

Date	2-4-77			
Run No.	ONE			
Depth-Driller	3287			
Depth-Logger	3200			
Btm. Log Interval	3208 43.7-42.0			
Top Log Interval	1800 2500			
Casing-Driller	8-5/8@150	@	@	@
Casing-Logger	147			
Bit Size	7-7/8			
Type Fluid in Hole	FGM			
Dens.	Visc.			
pH	Fluid Loss	ml	ml	ml
Source of Sample	PIT			
Rm @ Meas. Temp.	1.95 @ 68 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.25 @ 68 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source: Rmf Rmc	MEA ---			
Rm @ BHT	1.06 @ 125 °F	@ °F	@ °F	@ °F
TIME	Circulation Stopped	2-4 2200		
	Logger on Bottom	2.5 1000		
Max. Rec. Temp.	28 °F	°F	°F	°F
Equip.	Location	7656 FARM		
Recorded By	MC BRIDE			
Witnessed By Mr.	OUIGLEY			



DUAL INDUCTION GUARD LOG

COMPANY WILLARD PEASE OIL & GAS COMPANY WELL CALF CANYON #2 FIELD WILDCAT County GRAND State UTAH	COMPANY WILLARD PEASE OIL & GAS COMPANY			
	WELL CALF CANYON #2			
	FIELD WILDCAT			
	COUNTY GRAND		STATE UTAH	
Location		996' FWL 1393' FSL	Other Services: CDL/LNDPL	
Sec. 3	Twp. 20S	Rge. 21E	2 147	
Permanent Datum GROUND LEVEL		Elev. 5796	Elev.: K.B. 5805	
Log Measured From KELLY FUSHING 9		Ft. Above Perm. Datum		D.F. -
Drilling Measured From KELLY FUSHING				G.L. 5796
Date	7-28-77			
Run No.	ONE			
Depth—Driller	3805			
Depth—Welex	3802			
Btm. Log Inter.	3800 39.3			
Top Log Inter.	208			
Casing—Driller	8 5/8 @ 210	@	@	@
Casing—Welex	208			
Bit Size	7 7/8			
Type Fluid in Hole	MUD - GEL			
Dens. Visc.	NA			
pH Fluid Loss	NA ml	ml	ml	ml
Source of Sample	PIT			
R _m @ Meas. Temp.	1.1 @ 84 °F	@ °F	@ °F	@ °F
R _{ml} @ Meas. Temp.	1.0 @ 80 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.3 @ 80 °F	@ °F	@ °F	@ °F
Source R _m R _{mc}	MEASURED			
R _m @ BHT	.69 @ 133°F	@ °F	@ °F	@ °F
Time Since Circ.	4 HOURS			
Max. Rec. Temp.	133°F @ TD	°F @	°F @	°F @
Equip. Location	0716 VERNAL			
Recorded By	E. CALLAHAN			
Witnessed By	MR. D. QUIGLEY & MR. D. REESE			

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INDUCTION - ELECTRICAL LOG

COUNTY GRAND FIELD CALF CANYON LOCATION CALF CANYON #3 WELL CALF CANYON #3 COMPANY WILLARD PEASE	COMPANY <u>WILLARD PEASE OIL & GAS CO.</u> WELL <u>CALF CANYON # 3</u> FIELD <u>CALF CANYON</u> COUNTY <u>GRAND</u> STATE <u>UTAH</u> LOCATION <u>SE-NW</u> <u>1766' & 3020' FSL</u> Other Services: <u>NONE</u> <div style="text-align: right; font-size: 24px; font-weight: bold;">148</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">API SERIAL NO.</td> <td style="width:15%;">SEC.</td> <td style="width:20%;">TWP</td> <td style="width:40%;">RANGE</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">20S</td> <td style="text-align: center;">21E 6</td> </tr> </table>	API SERIAL NO.	SEC.	TWP	RANGE		3	20S	21E 6
API SERIAL NO.	SEC.	TWP	RANGE						
	3	20S	21E 6						
Permanent Datum: <u>GROUND LEVEL</u> ; Elev.: <u>5858</u> Log Measured From <u>KB</u> <u>10</u> Ft. Above Perm. Datum Drilling Measured From <u>KB</u>		Elev.: K.B. <u>5868</u> D.F. _____ G.L. <u>5858</u>							
Date	<u>1-2-78</u>								
Run No.	<u>ONE</u>								
Depth-Driller	<u>3940</u>								
Depth-Logger (Schl.)	<u>3943</u>								
Btm. Log Interval	<u>3937 343</u>								
Top Log Interval	<u>165</u>								
Casing-Driller	<u>8 5/8 @ 167</u> @ @ @								
Casing-Logger	<u>165</u>								
Bit Size	<u>7 7/8</u>								
Type Fluid in Hole	<u>FGM</u>								
Dens.	Visc.	<u>9</u>	<u>78</u>						
pH	Fluid Loss	<u>NA</u>	<u>NA ml</u>						
Source of Sample	<u>FLOWLINE</u>								
Rm @ Meas. Temp.	<u>1.85 @ 75°F</u>	@ °F	@ °F						
Rmf @ Meas. Temp.	<u>1.16 @ 75°F</u>	@ °F	@ °F						
Rmc @ Meas. Temp.	<u>1.2 @ 75°F</u>	@ °F	@ °F						
Source: Rmf	<u>M</u>	<u>C</u>							
Rm @ BHT	<u>1.1 @ 125°F</u>	@ °F	@ °F						
TIME	Circulation Stopped								
	Logger on Bottom								
Max. Rec. Temp.	<u>125°F</u>	°F	°F						
Equip.	Location	<u>7674</u>	<u>VERNAL</u>						
Recorded By	<u>BRADLEY</u>								
Witnessed By Mr.	<u>QUIGLEY</u>								

The well name, location and borehole reference data were furnished by the customer.

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**DUAL INDUCTION - LATEROLOG
WITH LINEAR CORRELATION LOG**

COUNTY GRAND FIELD WILDCAT LOCATION 668' FSL 2047' FEL WELL FEDERAL 4970-1 COMPANY THE ANSCHUTZ CORP.	COMPANY THE ANSCHUTZ CORPORATION			
	WELL FEDERAL 4970-1			
	FIELD WILDCAT			
	COUNTY GRAND		STATE UTAH	
LOCATION	668' FSL 2047' FEL			Other Services: FDC-CNL-GR TAPING 149
API SERIAL NO.	SEC. 4	TWP 20S	RANGE 21E	

Permanent Datum: GROUND LEVEL	Elev.: 6094	Elev.: K.B. 6104
Log Measured From KB 10 Ft. Above Perm. Datum		D.F. --
Drilling Measured From KB		G.L. 6094

Date	OCT. 15, 1978		
Run No.	ONE		
Depth-Driller	4200		
Depth-Logger	4197		
Btm. Log Interval	4191 31.7		
Top Log Interval	203		
Casing-Driller	8-5/8@ 190	@	@
Casing-Logger	203		
Bit Size	6-3/4		
Type Fluid in Hole	KCI - DRIS PAC		
Dens.	9.3	Visc.	45
pH	10.0	Fluid Loss	8.8 ml
Source of Sample	TANK		
Rm @ Meas. Temp.	.254 @ 67F	@ °F	@ °F
Rmf @ Meas. Temp.	.25 @ 67F	@ °F	@ °F
Rmc @ Meas. Temp.	.38 @ 67F	@ °F	@ °F
Source: Rmf	M	Rmc	C
Rm @ BHT	.17 @ 124F	@ °F	@ °F
TIME	Circulation Stopped 10/14 2130		
	Logger on Bottom 130		
Max. Rec. Temp.	124 °F	°F	°F
Equip.	7759	Location	GRAND JUNCT ION
Recorded By	KRABACHER		
Witnessed By	BURKHALTER & POWELL		

The well name, location and borehole reference data were furnished by the customer.

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