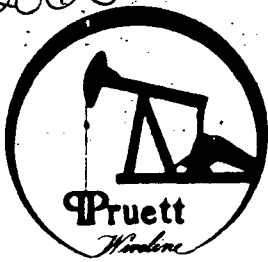


610206

PRUETT WIRELINE SERVICE

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(805) 589-2768



SUB-SURFACE TEMPERATURE SURVEY

COMPANY Sunedco FIELD Grass Valley WELL NAME USA 11-36

TOTAL DEPTH --- WELL STATUS Static BOMB HUNG @ --- DATE 6-28-80

CASING 2700' CASING PRESSURE --- TIME ON BOTTOM 3:29pm ELEMENT RANGE 100-580°

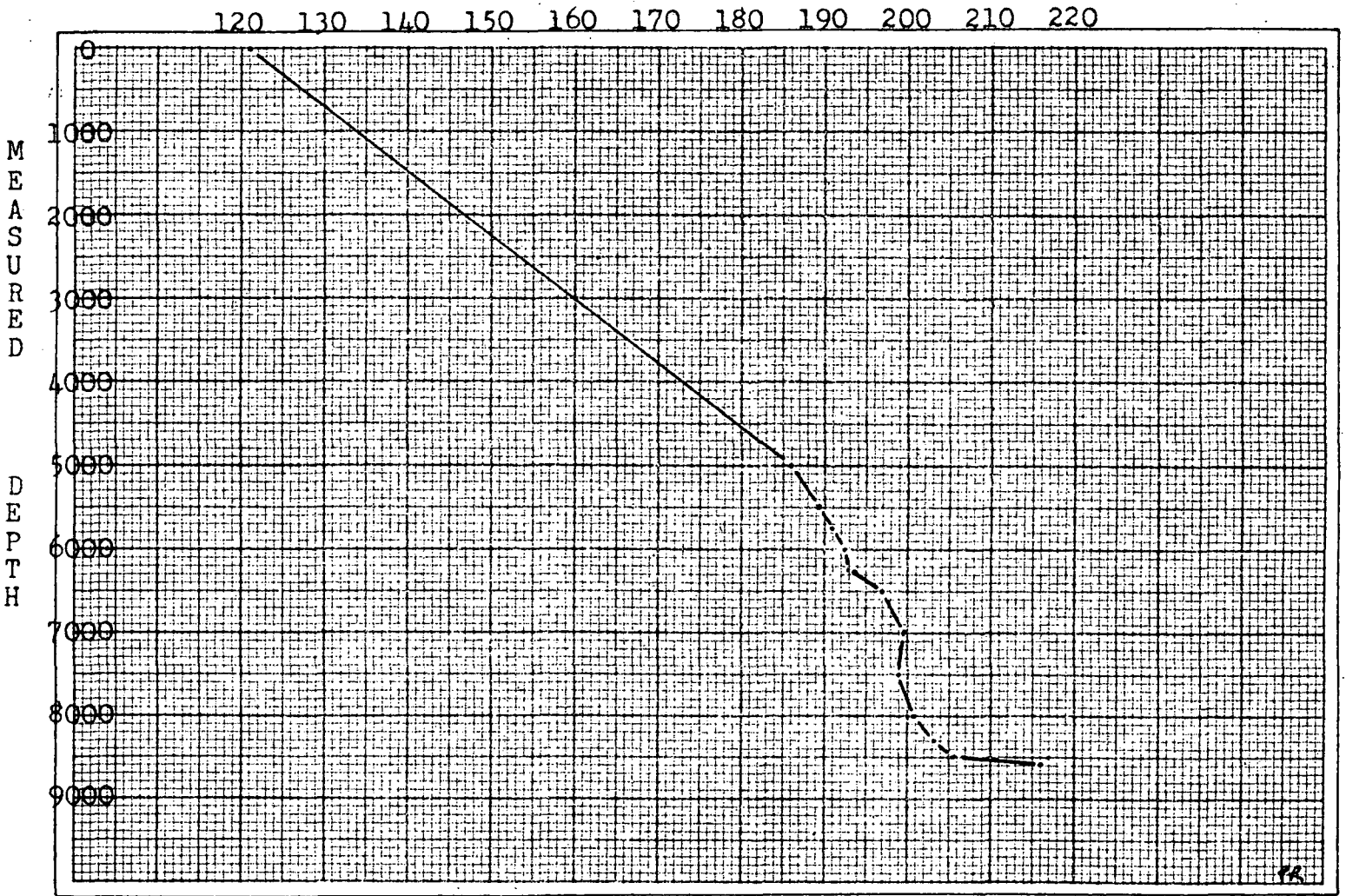
LINER --- TUBING PRESSURE --- TIME OFF BOTTOM 3:49pm ZERO POINT Rig Floor

PERFORATIONS --- ZONE --- SHUT IN --- ELEVATION ---

MPP --- MAX. °F 216.42° ON PRODUCTION --- PICKUP 8575'

TUBING DETAIL --- PURPOSE Temperature Survey *

TEMPERATURE



DEPTH	TEMPERATURE
0	121.05
5000	186.11
5500	189.68
5750	191.16
6000	192.63
6250	193.05
6500	197.26

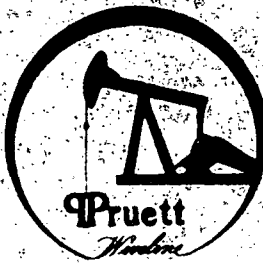
SURVEY DATA
*With 10 minute stops
and 20 minute stop at
Pickup.

DEPTH	TEMPERATURE
7000	199.79
7500	198.95
8000	200.84
8300	203.37
8500	205.47
8575	216.42

(TEMPERATURE TRAVERSE ON June 28, 1980 was unreadable. * G Doolan
Instrument stuck on ledge at approx. 6000'. When fishing
for lost tools, instrument dropped to bottom of well. Max. Temp. 235.58°.)

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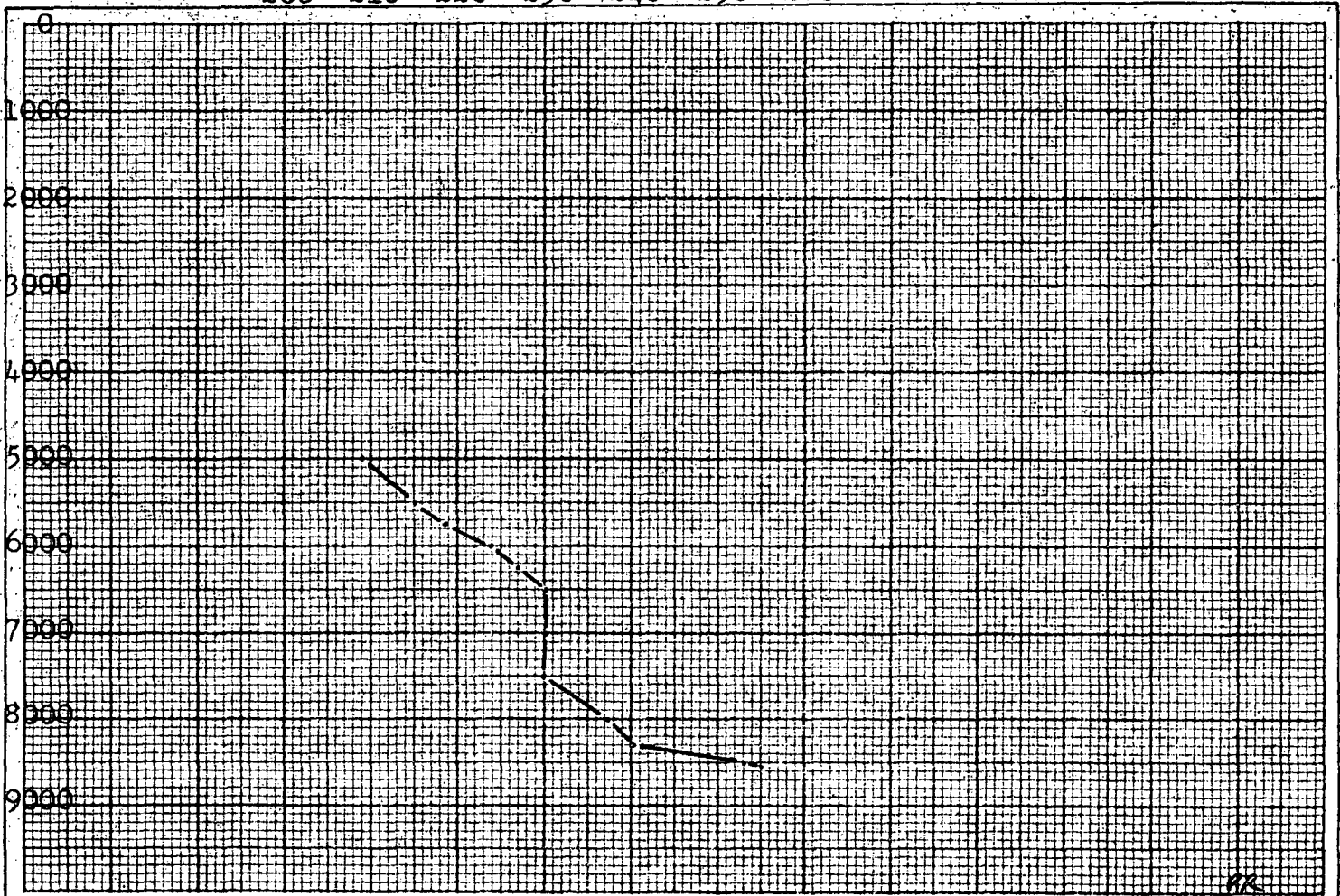
SUB-SURFACE TEMPERATURE SURVEY

COMPANY Sunedco FIELD Grass Valley WELL NAME USA 11-26
 TOTAL DEPTH --- WELL STATUS Static BOMB HUNG @ none DATE 6-30-80
 CASING --- CASING PRESSURE --- TIME ON BOTTOM 11:44 ELEMENT RANGE 100-580°
 LINER --- TUBING PRESSURE --- TIME OFF BOTTOM 12:14 ZERO POINT rig floor
 PERFORATIONS --- ZONE --- SHUT IN --- ELEVATION ---
 MPP --- MAX °F 255.37° ON PRODUCTION --- PICKUP 8565'
 TUBING DETAIL --- PURPOSE Temperature Survey *

TEMPERATURE

200 210 220 230 240 250 260

MEASURED DEPTH



DEPTH	TEMPERATURE
5000	209.26
5500	215.37
5750	218.74
6000	224.00
6250	226.92
6500	230.32

SURVEY DATA

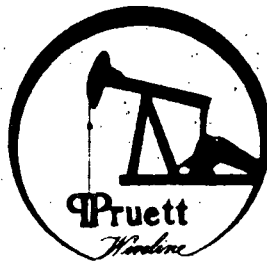
*with 10 minute stops
and 30 minute stop
at Pickup.

DEPTH	TEMPERATURE
7000	230.32
7500	230.11
8000	237.47
8300	240.42
8500	253.26
8565	255.37

G Doolan

PRUETT WIRELINE SERVICE

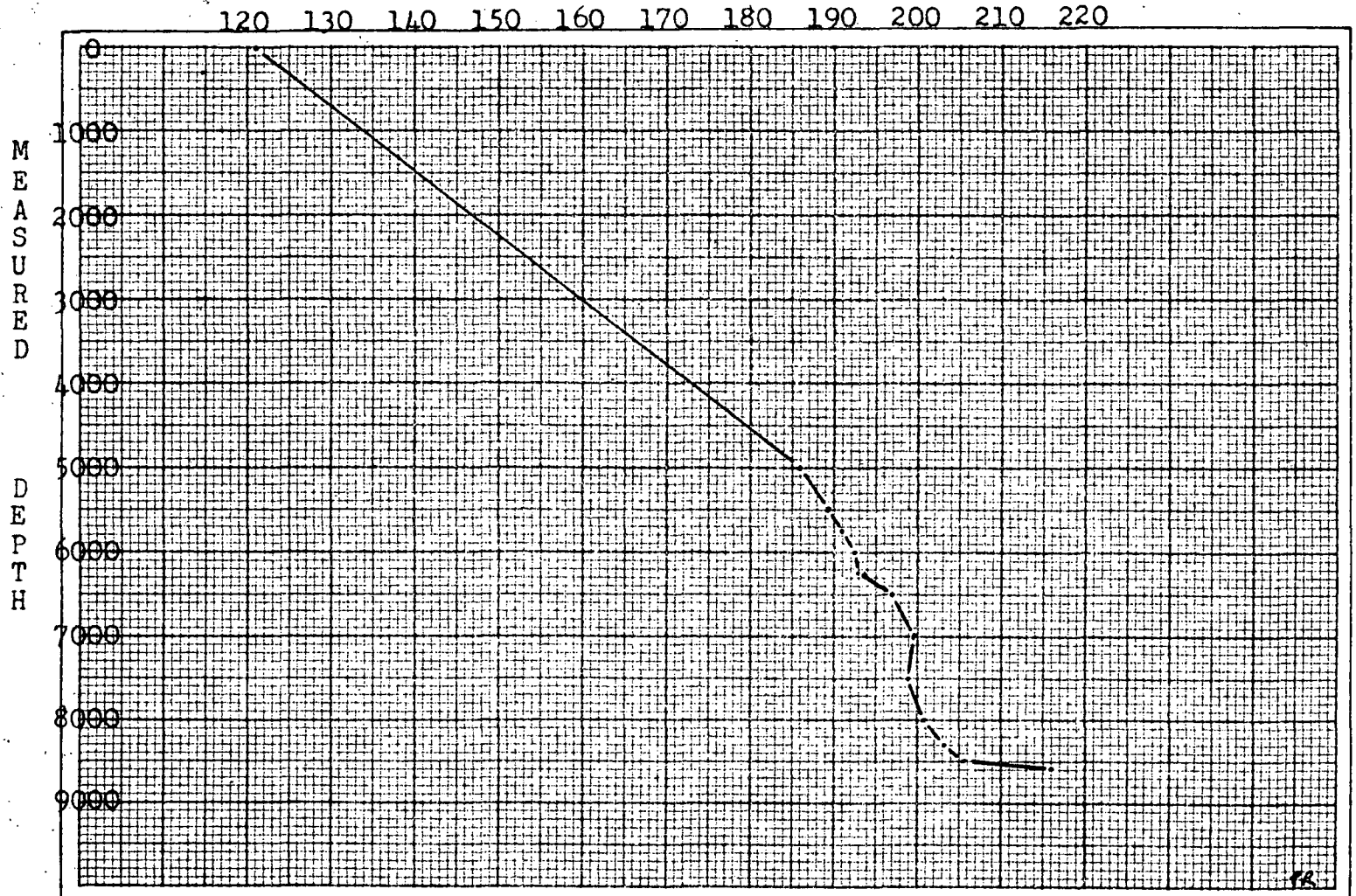
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(805) 589-2768



SUB-SURFACE TEMPERATURE SURVEY

COMPANY Suneco **FIELD** Grass Valley **WELL NAME** USA 11-36
TOTAL DEPTH --- **WELL STATUS** Static **BOMB HUNG @** --- **DATE** 6-28-80
CASING 2700' **CASING PRESSURE** --- **TIME ON BOTTOM** 3:29pm **ELEMENT RANGE** 100-580°
LINER --- **TUBING PRESSURE** --- **TIME OFF BOTTOM** 3:49pm **ZERO POINT** Rig Floor
PERFORATIONS --- **ZONE** --- **SHUT IN** --- **ELEVATION** ---
MPP --- **MAX. °F** 216.42° **ON PRODUCTION** --- **PICKUP** 8575'
TUBING DETAIL --- **PURPOSE** Temperature Survey *

TEMPERATURE



DEPTH	TEMPERATURE
0	121.05
5000	186.11
5500	189.68
5750	191.16
6000	192.63
6250	193.05
6500	197.26

SURVEY DATA

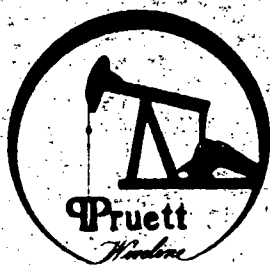
*With 10 minute stops
and 20 minute stop at
Pickup.

DEPTH	TEMPERATURE
7000	199.79
7500	198.95
8000	200.84
8300	203.37
8500	205.47
8575	216.42

(TEMPERATURE TRAVERSE ON June 28, 1980 was unreadable. G Doolan
Instrument stuck on ledge at approx. 6000'. When fishing
for lost tools, instrument dropped to bottom of well. Max. Temp. 235.58°.)

PRUETT WIRELINE SERVICE

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SUB-SURFACE TEMPERATURE SURVEY

11-36

COMPANY Sunedco FIELD Grass Valley WELL NAME USA 17-36

TOTAL DEPTH ---- WELL STATUS Static BOMB HUNG @ none DATE 6-30-80

CASING ---- CASING PRESSURE ---- TIME ON BOTTOM 11:44 ELEMENT RANGE 100-580°

LINER ---- TUBING PRESSURE ---- TIME OFF BOTTOM 12:14 ZERO POINT rig floor

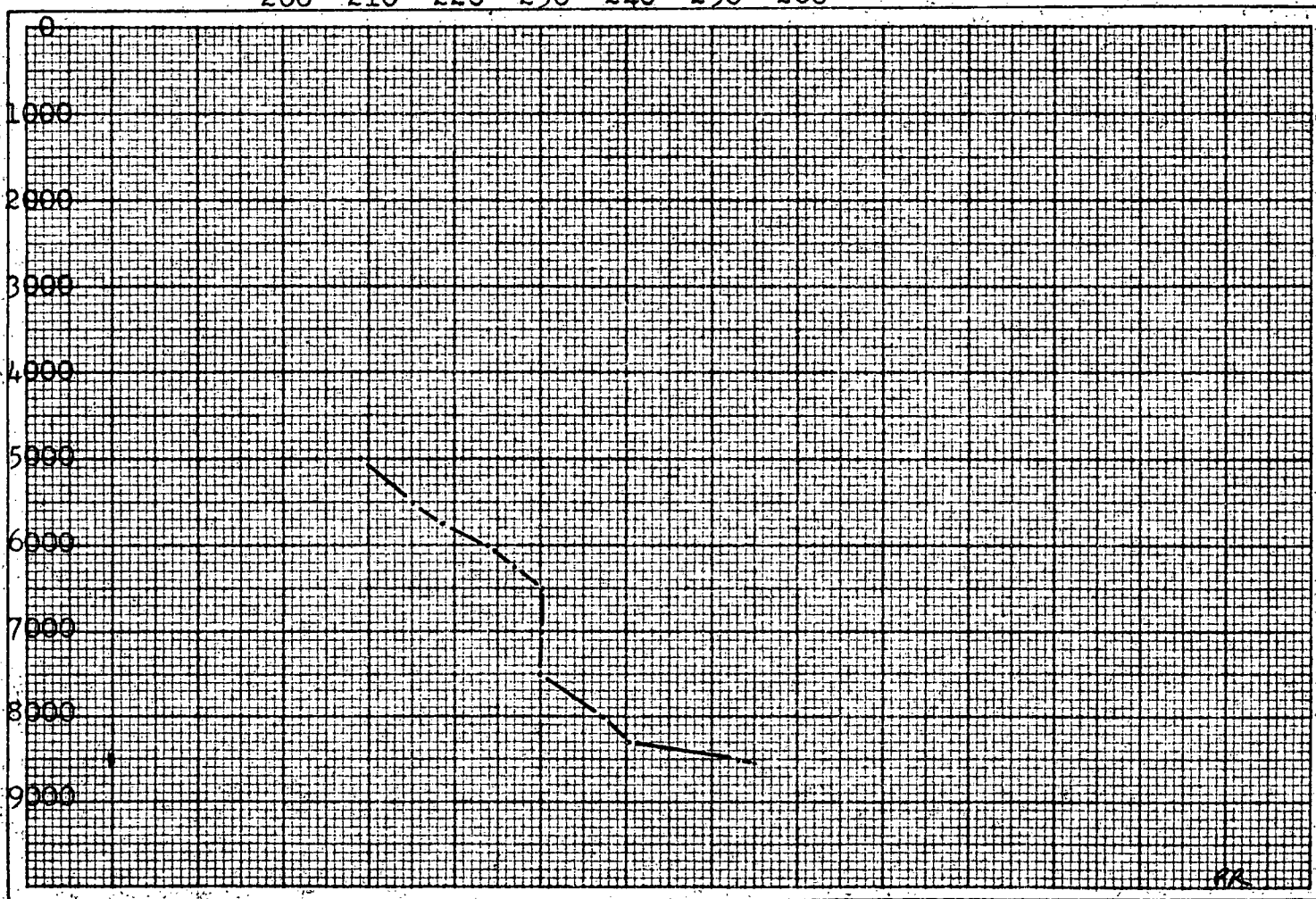
PERFORATIONS ---- ZONE ---- SHUT IN ---- ELEVATION ----

MPP ---- MAX. °F 255.37° ON PRODUCTION ---- PICKUP 8565'

TUBING DETAIL ---- PURPOSE Temperature Survey *

TEMPERATURE

200 210 220 230 240 250 260



DEPTH TEMPERATURE

5000 209.26
5500 215.37
5750 218.74
6000 224.00
6250 226.92
6500 230.32

SURVEY DATA

*with 10 minute stops
and 30 minute stop
at Pickup.

DEPTH TEMPERATURE

7000 230.32
7500 230.11
8000 237.47
8300 240.42
8500 253.26
8565 255.37

G Doolan

DAILY DRILLING - WORKOVER LOG

LEASE / WELL

USA 11-36

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SPUDED May 15,

1980

ELEVATIONS: GND. _____ BH _____ DF _____ RDB _____

CASING RECORD

PIPE SIZE	HOLE	SEAT	F. C.	CEMENTING DATA: Sacks, Kind, etc.	
Conductor:					
Surface:					
Intermed:					
Oil String:					

DATE	DEPTH TODAY	FOOT-AGE	DEGREES OFF		MUD		REMARKS (Activity) (Formation) (D.S.T.) (Coring) (etc.)
			DEG.	DEPTH	WT	VIS	
5-15	150	150			8.4	58	Rig up, mix mud, rig repairs, drilling to 150'.
5-16	325	175			8.5	45	Survey at 150', drilling, circulate, short trip, wait on Howco and casing crew, had three flats on Howco and casing crew truck, rig up to run 20" casing, ran three jts. of 20" casing stop, tried to work casing by bridge, POOH with casing, stood back and laid down 1 jt., made up 26" bit and TIH to 90'.
5-17	325	0			8.5	45	TIH and ream from 80' to 130', circulate and condition mud and wait on stab., POOH, pick up 26" steel stabilizer from 70' to 325', rig up and ran 8 joints of 20" 94# K55, set 320', circulate and rig up Howco and cement with 800 sacks Class G with 3% CaCl, cement in place at 9:45 p.m., waiting on cement.
5-18	325	0	0	150	8.8	57	Waiting on cement, cut off 20" and nipple up 20" hydril, test to 200# on Hydril and manifold, pick up bottom hole assembly and TIH to 314', tag cement, drilling cement and float shoe, circulate and condition mud, POOH to pick up stabilizer.
			0	300			
5-19	1585	1260	0	440	9.1	43	Drilling, ream from 1,536' to 1,576', short trip, circulate and survey.
			1/2	1020			
			1/2	1267			
			3/4	1513			
5-20	2199	614	3/4	1764	9.0	37	Drilling, trip for bit, survey.
			1/2	2039			
5-21	2634	435	1/2	2321	9.0	38	Drilling, survey and short trip.
5-22	2705	71			9.0	40	Drilling to depth of 2,705', circulate, POOH and TIH, clean up run - no fill, rig up to run 13 3/8" 61# casing, running 2,700' of 13 3/8" 61# K55 casing, B&W shoe on bottom, float collars at 2 jts. above shoe, circulate, prep. to cement job.
5-23	2705	0			9.0	42	Circulate, condition after getting casing to

DATE	DEPTH TODAY	FOOT-AGE	DEGREES OFF		MUD		REMARKS (Activity) (Formation) (D.S.T.) (Coring) (etc.)
			DEG.	DEPTH	WT	VIS	
5-23							bottom, cementing 13 3/8 at 2,701' with 18 bbls. of water ahead followed by 28 bbls. sepolite flush mixed 1,576 sacks of 1:1 pearlite, 40% SSA-1, .5% CFR-2, 3% gel, .1% HR7, .25# per sack Flocele, tail cement consisting of 185 sacks Class G, 40% SSA-1, .75 CFR2, .1% HR7, 25# per sack of Flocele, displace with 402 bbls. mud, bumped plug, recover 25% of the 100% excess to surface, cement did not fall back, in place at 4 a.m., waiting on cement, cut off 13 3/8 casing, set out 20" hydril, load out same, break cement sheath, orange peel 20" and 30", dress top of 13 3/8" casing, set on WKM.
5-24	2701	0			8.6	45	Weld on casing head and nipple up, change ram blocks in H&H gate as they were upside down, rebuild kill line and manifold line, run in test plug, test blind rams to 1,000 psi for 30 minutes in presence of USGS man at midnight.
5-25	3136	436	1/2	2961	8.8	42	TIH to 2,603', tag cement, test pipe rams to 1,000# OK by USGS man, drill out shoe at 2,701', drilling, POOH after survey to change BHA, change BHA, TIH to 2,798', ream from 2,798' to 3,085' because of addition of stabilizers.
5-26	3683	546	1/2	3222	9.0	41	Drilling, survey.
			1/2	3467			
5-27	3891	208	3/4	3716	9.0	39	Drilling, survey & POOH, TIH to 2,778', reaming from 2,778' to 3,068', circulate and condition hole and mud, ream from 3,068' to 3,192'.
5-28	4185	294	1 1/2	3966	8.9	39	Ream and circulate 3,195' to 3,891', drilling, circulate and survey.
			1 1/2	4025			
			1 3/4	4149			
5-29	4294	109	1 1/2	4254	9.0	40	Drilling to 4,254', POOH, tight spot 3,590' to 2,860', TIH with new bit to 2,876', reaming from 2,876' to 4,254', drilling.
5-30	4630	340	1 3/4	4521	9.1	40	Drilling, reaming after short trip, short trip.
5-31	4957	327	2	4647			Drilling, trip, circulate and survey.
6-1	5300	343	4	5300	8.9	45	Drilling, short trips, circulate and survey.
6-2	5526	226	3 1/2	5420	8.9	40	Drilling, trip time, pooh and TIH for bit #8, reaming from 5,260' to 5,300', circulate and survey.
6-3	5832	306	3 1/2	5545	9.0	40	Drilling, circulate and survey, short trips.
			3	5669			
6-4	5976	144	3 1/2	5887	8.9	39	Drilling and survey with bit #8, POOH with bit #8, change stabilizers, dress reamer with new cutters, check jars and shock sub, pick up bit #9, TIH, drilling twisted off, POOH, left 12 1/2 reamer and bit

DAILY DRILLING - WORKOVER LOG

LEASE / WELL

USA 11-36

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SUDDDED

May 15 1980

ELEVATIONS: GND. _____ BH _____ DF _____ RDB _____

CASING RECORD

PIPE SIZE	HOLE	SEAT	F. C.	CEMENTING DATA: Sacks, Kind, etc.
Conductor:				
Surface:				
Intermed:				
Oil String:				

DATE	DEPTH TODAY	FOOT-AGE	DEGREES OFF		MUD		REMARKS (Activity) (Formation) (D.S.T.) (Coring) (etc.)
			DEG.	DEPTH	WT	VIS	
6-4							in hole due to failure of bit sub washed out, TIH to screw into fish at midnight.
6-5	6001	25			9.0	40	Fishing, TIH, circulate at fish, screw into fish, established circulation, pumped fish free, chain out, lay down fish, Magna-Flux drill collars and subs, picked up new BHA, TIH, checking tool joints on Hevi-Wall, hit bridge at 5,877', spot reamed to TD, drilling, one of the mud pumps went down around midnight due to electrical short not able to run optimum hydraulics.
6-6	6062	61			8.9	39	Drilling with one mud pump due to electrical failure, POOH on even stands, dressed near bit reamer, changed out worn out drilling jars, partial TIH at midnight.
6-7	6160	98	1½	6098	8.9	45	TIH to 6,002', ream to 6,062', circulate and survey, drilling with bit #10 average 4.9'/Hr.
6-8	6280	120	NG	6280	9.0	45	Drilling, trip, circulate and survey.
6-9	6395	115			9.0	40	Trip for bit, ream after trip 6,240' to 6,280', drilling.
6-10	6528	103	1½	6528	8.9	39	Drilling, survey, POOH for bit and reamer cutter change.
6-11	6630	102			9.0	38	TIH to 6,452', reaming after trip, drilling.
6-12	6755	125			9.0	37	Drilling with Bit #12
6-13	6857	102	2½	6809	9.0	37	Drilling to 6,809', survey and POOH, TIH with Bit #13, stopped at 6,793', break circulation, washed out fill to 6,809', drilling to 6,857' at midnight.
6-14	7056	199			9.0	42	Drilling with Bit #13 and one pump.
6-15	7205	149	3½	7121	8.9	42	Drilling with Bit #13, POOH to change bit, survey.

DATE	DEPTH TODAY	FOOT-AGE	DEGREES OFF		MUD		REMARKS (Activity) (Formation) (D.S.T.) (Coring) (etc.)
			DEG.	DEPTH	WT	VIS.	
6-16	7312	107			9.0	36	Finish POOH, change bit, RIH 11' fill, drilling with Bit #14.
6-17	7438	126	4 3/4	7363	9.0	37	Drilling with Bit #14, survey for direction.
6-18	7519	81	5 1/2	7546	8.9	38	Drilling with Bit #14, survey, POOH, change bit reamers and stabilizer, RIH - no fill, drilling with Bit #15.
6-19	7635	116	5 1/2	7550	9.0	40	Drilling, survey.
6-20	7737	102	4 3/4	7643	9.0	38	Drilling, survey.
			5	7733			
6-21	7809	72			9.0	35	Drilling, trip for Bit #16, POOH and TIH - no problems, cut off drilling line.
6-22	7924	115	5 1/2	7859	8.9	38	Drilling with Bit #16, survey at 7,859'.
6-23	8022	98	5 1/2	7952	8.9	39	Drilling with Bit #16, directional Wireline survey
			5 1/2	8044			
6-24	8144	122	5 1/2	8044	9.0	39	Drilling with Bit #16, survey.
			5 1/2	8137			
6-25	8258	114			9.06	46	Drilling, POOH for bit change, drop junk sub, pick up Bit #17, TIH to 8,161', circulate for trip.
6-26	8421	163	5 1/2	8258	9.0	38	Drilling, survey.
			5 3/4	8352			
6-27	8565	144	5 1/2	8444	8.9	32	Drilling, circulate and condition hole, survey dev.
			5 1/2	8565			
6-28	8565	0			9.0	37	POOH, short trip, TIH 35' fill, circulate and condition hole and mud, POOH to log, set back drill collars, run temp. surveys, stuck same on second run at 5,700', pulled line in two at key seat, making up four-prong spear to fish wireline and instruments at midnight.
6-29	8565	0			9.0	40	TIH with spear, picking up wireline to 8,397' at 6:00, circulate, POOH, recovered all of fish, attempt to run electric logs - failed, repairing short in log line of Dresser Atlas, running DI, FL, BHC, AL, Cal at midnight.
6-30	8565	0			9.0	46	Finish electric log Dresser Atlas, CDL GR logs, running Pruitt Wireline Services, temp. surveys, both stops, and travers charts at midnight.

DRILLING CONTRACTOR

FIELD Grand Valley 24 HR. PERIOD ENDING 12 Mid Night REPORT NO. 1
 LEASE USA - 11-33 A.M. DATE 8-15-80 WELL NO. _____
 DATE SPUDDED 8-15-80 DAYS SINCE SPUDDED IN _____
 DEPTH 150' FORMATION 2700' HOLE MADE 150 HRS. DRLG. _____
 MUD WT. 8.4 VIS. 52 WL _____ CHL _____ TYPE STAL LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS 15 pH 10

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE	30	42	35	
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BOH = 26" Bit; 2 1/2" Seat; 5-8' DC Run
Spud at 8-P.M. 8-15-80

20 Hr. R.V. mud Mud
1 Hr. Rig Boon (Rock Swell)
3 Hr. Drill to 150'

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>1 RR</u>	DEPTH OUT	
SIZE	<u>26</u>	DEPTH IN	<u>0</u>
MAKE	<u>RTC</u>	FEET MADE	<u>150</u>
TYPE	<u>OS3AJ</u>	HRS. DRILLED	<u>3</u>
SER. NO.	<u>OC. 655</u>	WT. ON BIT	<u>5-20</u>
NO. & SIZE JETS	<u>1</u>	REV. PER MIN.	<u>60</u>
		CONDITION	
LINER SIZE		GAL. PER MIN.	
LENGTH STROKE		AN. VEL.	
STROKES/MIN.		JET VEL.	
PRESSURE		BIT H.P.	

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT! RIG NO. _____

SIGNATURE _____

FIELD Grass Valley 24 HR. PERIOD ENDING _____ REPORT NO. 2
 LEASE 75 R A.M. DATE 5-16-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN _____ WELL NO. 1126
 DEPTH 325 FORMATION Sd. + mud HOLE MADE 175 HRS. DRLG. 731
 MUD WT. 5.5 VIS. 45 WL _____ CHL _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS _____ PH _____

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS:

1/4 hr Survey @ 150
7:30 H.P. Done
10 min circ. & lost Trip. w/losses & casing lost
Had 3 flats on hoses & casing w/lost Trip.
5 1/4 hr. P.D. to form 90' casing Run 3 Jts of 20"
Casing stop, tried to work casing for bridge
0 POOH w/ casing stop. Back & laid down 175
3/4 hr. Made up 26" bit & T.I.N. to 90'

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$			TO DATE \$		
WELL COST PREVIOUS \$	TODAY \$			TO DATE \$		
BIT NO.	<u>RR</u>	DEPTH OUT	<u>325</u>			
SIZE	<u>26</u>	DEPTH IN	<u>0</u>			
MAKE	<u>NTC</u>	FEET MADE	<u>325</u>			
TYPE	<u>OS3AS</u>	HRS. DRILLED	<u>10314</u>			
SER. NO.		WT. ON BIT	<u>5.20</u>			
NO. & SIZE JETS	<u>open</u>	REV. PER MIN.	<u>60</u>			
		CONDITION				
LINER SIZE		GAL. PER MIN.				
LENGTH STROKE		AN. VEL.				
STROKES/MIN.		JET VEL.				
PRESSURE		BIT H.P.				

DRILLING CONTRACTOR - FILL IN ON FIRST AND LAST REPORT

RIG NO.

SIGNATURE

DAILY DRILLING REPORT

FIELD Gross Valley 24 HR. PERIOD ENDING _____ REPORT NO. 3
 LEASE USA 11-36 A.M. DATE 5-12-80
 DATE SPUDED 5-15-80 WELL NO. _____
 DAYS SINCE SPUDED IN _____
 DEPTH 225 FORMATION _____ HOLE MADE _____ HRS. DRLG. _____
 MUD WT. S.S. VIS. 4.5 WL _____ CHL _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS _____ pH _____

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS:

9 1/2 Hr. T.I.H + Perm from 80' - 130'
 2 Hr. Cir + Cemented + w.o. stab.
 3 Hr. 4004 P.V. 26" steel stab from 70' - to 325'
 4 1/2 Hr. R.V. + Perm 8J+ d- 20" 9 1/4" # K55
 set 320'
 2 Hr. Cir + Perm Nowers + Cont w/ 4005 + Case G
 w/ 3% cut Cont in 2 case @ 9:45 PM.
 2 Hr. W.O.C.

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.		DEPTH OUT	
SIZE		DEPTH IN	
MAKE		FEET MADE	
TYPE		HRS. DRILLED	
SER. NO.		WT. ON BIT	
NO. & SIZE JETS		REV. PER MIN.	
		CONDITION	
LINER SIZE		GAL. PER MIN.	
LENGTH STROKE		AN. VEL.	
STROKES MIN.		JET VEL.	
PRESSURE		BIT H.P.	

DRILLING CONTRACTOR - FILL IN ON FIRST AND LAST REPORT

RIG NO.

SIGNATURE

DAILY DRILLING REPORT

REPORT NO. 4
 FIELD San Juan 24 HR. PERIOD ENDING 11-15-80 A.M. DATE 5-78-80
 LEASE USA 11-36 WELL NO. _____
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 2
 DEPTH 325 FORMATION _____ HOLE MADE _____ HRS. DRLG. _____
 MUD WT. 8.8 VIS. 57 WL 35 CHL 300 TYPE _____ LCM _____
 OIL _____ SD _____ PV 1 YP 21 SOLIDS _____ pH 10.5

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>150</u>			<u>0°</u>	DRIVE				
<u>300'</u>			<u>0°</u>	CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: ROA - Bit-F.S.-S.S.- 9-8" D.C. - Cover.
8 Hr. U.I.O.C.
1 1/2 Hr. Cut off 20" - U.V. 20" Reg. Drill
1/2 Hr. Test 1/2 200' on Hardbit + Mud. Mud.
1 1/2 Hr. P.U. Bit + T.I.H.T. 214' Top Cont.
2 Hr. Dily Cont + Front Side in + Cover Mud.
1 Hr. P.O.H. to R.O. 56h.

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>2</u>	DEPTH OUT				
SIZE	<u>1 7/8</u>	DEPTH IN	<u>325</u>			
MAKE	<u>HTC</u>	FEET MADE				
TYPE	<u>OSG 1K</u>	HRS. DRILLED				
SER. NO.	<u>11V 378</u>	WT. ON BIT				
NO. & SIZE JETS	<u>3-20"</u>	REV. PER MIN.				
		CONDITION				
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>750</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>60-76</u>			
STROKES/MIN.	<u>120</u> <u>2 pumps</u>	JET VEL.				
PRESSURE	<u>750</u>	BIT H.P.				

DRILLING CONTRACTOR - FILL IN ON FIRST AND LAST REPORT! RIG NO. _____
 SIGNATURE _____

15 55
2 29

FIELD GRASS VALLEY 1260 24 HR. PERIOD ENDING _____
 LEASE USA REPORT NO. 5
 DATE SPUNDED 5-15- A.M. DATE 5-29-60
 DEPTH 1585 FORMATION gravel-clay HOLE MADE 1260 HRS. DRLG. 20
 MUD WT. 9.1 VIS. 43 WL 21 CHL 100 TYPE g-2.0 LCM _____
 OIL _____ SD 1 PV 11 YP 25 SOLIDS 4.5 PH 9

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.	
440	0			DRIVE				
1020	1/2			CONDUCTOR				
1267	1/2			SURFACE				
1513	3/4			INTERMED.				
				OTHER				

REMARKS: BHA lost sub, stuck sub, 1 DC, stuck, 1 DC, stuck
10 DC lower

20 hr data
1 hr return 1536 to 1576
1 hr short trip
2 hr circ + survey

MUD COST PREVIOUS \$		TODAY \$	TO DATE \$	DISCHARGE PRESSURE		VOLUME OF AIR		CFM
WELL COST PREVIOUS \$		TODAY \$	TO DATE \$					
BIT NO.	<u>2</u>			DEPTH OUT				
SIZE	<u>1 7/8</u>			DEPTH IN	<u>325</u>			
MAKE	<u>HTC</u>			FEET MADE				
TYPE	<u>OSC 16J</u>			HRS. DRILLED				
SER. NO.	<u>VV 378</u>			WT. ON BIT	<u>15-20</u>			
NO. & SIZE JETS	<u>3-20</u>			REV. PER MIN.	<u>65</u>			
				CONDITION				
LINER SIZE	<u>0</u>			GAL. PER MIN.	<u>630</u>			
LENGTH STROKE	<u>16</u>			AN. VEL.	<u>59-68</u>			
STROKES/MIN.	<u>108</u>			JET VEL.				
PRESSURE	<u>1000</u>			BIT H.P.	<u>63 1/2</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

FIELD Cross Valley

24 HR. PERIOD ENDING Midnight

REPORT NO. 6

LEASE USA

A.M. DATE 5-20-80

DATE SPUDDED 5-

DAYS SINCE SPUDDED IN

DEPTH 2199

FORMATION Sd - Sand - Gravel

HOLE MADE 614

HRS. DRLG. 20

MUD WT. 9.0

VIS. 37

WLC 25

CHL 200

TYPE Gel

LCM

OIL

SD 1/2

PV 6

YP 21

SOLIDS 4.8

pH 9

E.C. SURVEYS

CASING RECORD

DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
1764	3/4°			DRIVE	20	26	320	
2039	1/4°			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS:

BHA. Same

20 Hr. Dily.
3 Hr. Trip for Bit
1 Hr. Survey

NUMBER OF COMPRESSORS

DISCHARGE PRESSURE

VOLUME OF AIR

CFM

MUD COST PREVIOUS \$		TODAY \$	TO DATE \$	
WELL COST PREVIOUS \$		TODAY \$	TO DATE \$	
BIT NO.	<u>2</u>	<u>3</u>	DEPTH OUT	<u>1857</u>
SIZE	<u>17 1/2</u>	<u>17 1/2</u>	DEPTH IN	<u>325</u>
MAKE	<u>HTC</u>	<u>Saw</u>	FEET MADE	<u>1532</u>
TYPE	<u>MSC 3163</u>	<u>M 44N</u>	HRS. DRILLED	<u>26 1/2</u>
SER. NO.	<u>VV 378</u>	<u>859910</u>	WT. ON BIT	<u>20</u>
NO. & SIZE JETS	<u>3-20</u>	<u>3-20</u>	REV. PER MIN.	<u>70</u>
			CONDITION	<u>2-2-IN</u>
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>680</u>
LENGHT STROKE	<u>16</u>		AN. VEL.	<u>59-69</u>
STROKES/MIN.	<u>108</u>		JET VEL.	
PRESSURE	<u>1000</u>		BIT H.P.	<u>31 per Min.</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

RIG NO.

SIGNATURE

DAILY DRILLING REPORT

FIELD LUC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 7
 LEASE 157 A.M. DATE 5-21-80 WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 6
 DEPTH 2634 FORMATION SAND-CLAY HOLE MADE 435 HRS. DRLG. 23
 MUD WT. 9.0 VIS. 38 #L 25 CHL 200 TYPE 6-76 LCM
 OIL — SD 2 PV 13 YP 26 SOLIDS 48 MM 9.2

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>2521</u>			<u>114</u>				
				DRIVE			
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>
				SURFACE			
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS BEFORE

23 HRS. DRLG.
1 HRS. SURVEY AND SHORT TRIP.

TEMP: FLOWLINE 122°
 INJECTION 119°

(DEPTH: 2705 GUDAM
5-22-80)

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>5</u>	DEPTH OUT	<u>INC</u>
SIZE	<u>1 1/2</u>	DEPTH IN	<u>1857</u>
MAKE	<u>SECURITY</u>	FEET MADE	<u>777</u>
TYPE	<u>MARIN</u>	HRS. DRILLED	<u>33.5</u>
SER. NO.	<u>854910</u>	WT. ON BIT	<u>30</u>
NO. & SIZE JETS	<u>3-20</u>	REV. PER MIN.	<u>60</u>
		CONDITION	<u>INC.</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>750</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>67 28 76 28</u>
STROKES/MIN.	<u>120</u>	JET VEL.	
PRESSURE	<u>1300</u>	BIT W.P.	<u>1971/HR</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

SIGNATURE [Signature]

254 2

FIELD WC/GROSS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 822
 LEASE USA A.M. DATE 5-25-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 7 WELL NO. 11-56
 DEPTH 2705 FORMATION SAND-SHALE HOLE MADE 71 HRS. DRLG. 6
 MUD WT. 9.0 VIS. 40 WL 25 CHL 200 TYPE CEL LCM
 OIL - SD .5 PV 11 YP 26 SOLIDS 4.5 PH 92

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE				
				CONDUCTOR	20	2 1/2	320	
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS BEFORE

6 HRS: DRILLING TO DEPTH OF 2705

3 HRS: CIRC

2 HRS: POOH AND TIF CLEAN UP RUN NO FILL

2 HRS: RIG UP TO RUN 13 3/8" 61# CSG.

9 HRS: RUNNING 2700' OF 13 3/8" 61# K-55 CSG. BAW SHOE ON BOTTOM, FLOAT COLLARS AT 2 JTS ABOVE SHOC.

2 HRS: CIRC, PREP TO CEMENT JOB

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>3</u>	DEPTH OUT	<u>2705</u>
SIZE	<u>17 1/2</u>	DEPTH IN	<u>1857</u>
MAKE	<u>SEC</u>	FEET MADE	<u>848</u>
TYPE	<u>HYDR</u>	HRS. DRILLED	<u>41</u>
SER. NO.	<u>859910</u>	WT. ON BIT	<u>20/30</u>
NO. & SIZE JETS	<u>20-20-20</u>	REV. PER MIN.	<u>80</u>
LINER SIZE	<u>6</u>	CONDITION	<u>1-7- IN</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>750</u>
STROKES/MIN.	<u>120</u>	AN. VEL.	<u>67 DP - 76 DC</u>
PRESSURE	<u>300</u>	SETWE.	<u>12 FT/IN</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John A. Beckwith

IRIG NO 2

DAILY DRILLING REPORT

FIELD WC / GRASS Valley 24 HR. PERIOD ENDING _____ REPORT NO. 9
 LEASE USA A.M. DATE 5-23-8
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN 8 WELL NO. 11-36
 DEPTH 2705 FORMATION clay + sand HOLE MADE _____ HRS. DRLG. _____
 MUD WT. 9.0 VIS. 42 WL 20 CHL 200 TYPE Hel LCM _____
 OIL _____ SD 15 PV 12 YP 16 SOLIDS 4.5 pH 9.2

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE	20	26	320	
				CONDUCTOR				
				SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: 1 Hr Circ, cont after getting csg to btwn.
3 HR cementing 13 3/8" at 2701' with
 18 bbls of water ahead followed by
 28 bbls of separate fresh mixed
 1576 sx of 110 Pearlite, 40% SSA
 .5% CFR-2, 3% Sel, .1% HR-7,
 .25 # per sack floccs
 tail cont consisting of 185 sx
 class B, 40% SSA-1, .75 CFR 2,
 .1% HR 7, 25 #/sx of floccs
 Displace w 402 bbls mud, bumper
 plug, recover 25% of the 100%
 excess to surface, cont did not
 fall bench, in place at 4 pm
12 HR WOC
8 HR cut off 13 3/8" csg, set out 20"
 hydroil load out same break cont
 sheath, orange peel 20" + 30",
 drew up of 13 3/8" csg, set on WK at

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____ CFM	
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
BIT NO.		DEPTH OUT			
SIZE		DEPTH IN			
MAKE		FEET MADE			
TYPE		HRS. DRILLED			
SER. NO.		WT. ON BIT			
NO. & SIZE JETS		REV. PER MIN.			
		CONDITION			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>410</u>		
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>881</u>		
STROKES/MIN.	<u>65</u>	JET VEL.			
PRESSURE	<u>580</u>	BIT H.P.			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. 2
 SIGNATURE _____

DAILY DRILLING REPORT.

10
5-24-86

LEASE USA WELL NO. 11-36
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN 9
 DEPTH 2701 FORMATION Clay + Sand HOLE MADE 0 HRS. DRLG. 0
 MUD WT. 8.6 VIS. 45 WL 40 CHL 200 TYPE Gel LCM _____
 OIL _____ SD 1.5 PV 11 YP 16 SOLIDS 3.2 pH 12.2

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: 21 HRS - Weld on casing head + make up
 chg row blocks in H+H gate
 as they were upside down,
 rebuild of hill line + manifold
 line,
3 HRS Run in test plug, test blend
 ramps to 1000 PSI for 30 min
 in presence of WGS man.
 at midnight

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	DEPTH OUT
SIZE	DEPTH IN
MAKE	FEET MADE
TYPE	HRS. DRILLED
SER. NO.	WT. ON BIT
NO. & SIZE JETS	REV. PER MIN.
	CONDITION
LINER SIZE	GAL. PER MIN.
LENGTH STROKE	AN. VEL.
STROKES/MIN.	JET VEL.
PRESSURE	BIT H.P.

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) 2 RIG NO. 2
 SIGNATURE _____ JB

DAILY DRILLING REPORT

FIELD WVC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 5-25-80 REPORT NO 11
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 10
 DEPTH 3136 FORMATION CLAYSTONE HOLE MADE 436 HRS. DRG. _____
 MUD WT. 8.8 VIS. 42 WL 30 CHL 150 TYPE GEL LCM -
 OIL _____ SD 5 PV 13 YP 19 SOLIDS 3.4 PH 11.3

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>2961</u>			<u>1/2°</u>	DRIVE				
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>	
				SURFACE	<u>15 1/2</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA; BIT, BIT SUB, SHOCK SUB, 12-8" DC, XD

5 HRS: T1H TO 2603' TAG CEMENT, TEST PIPE RUNS TO 1000' OK BY USGS MAN, DRILL OUT SHOE AT 2701'

9 HRS: DRILLING

4 HRS: POOH, AFTER SURVEY TO CHANGE BHA

2 HRS: CHANGE BHA

4 HRS: T1H TO 2798', REAM FROM 2798-3085. BECAUSE OF ADDITION OF STABILIZERS.

MIDNIGHT RIGDAM
5-26-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>4</u>	DEPTH OUT	
SIZE	<u>17 1/4</u>	DEPTH IN	<u>2700</u>
MAKE	<u>REED</u>	FEET MADE	<u>436</u>
TYPE	<u>FD-51</u>	HRS. DRILLED	<u>6</u>
SER. NO.	<u>900401</u>	WT. ON BIT	<u>1520</u>
NO. & SIZE JETS	<u>16/16/16</u>	REV. PER MIN.	<u>90</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>687</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>134' / MIN DP 195' / MIN DC</u>
STROKES/MIN.	<u>109</u>	JET VEL.	<u>-</u>
PRESSURE	<u>1800</u>	BIT H.P.	<u>48 FT / HR</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE [Signature]

RBM 2

FIELD W. GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT A.M. DATE 5-26-62
 LEASE USA WELL NO. 11-36
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 11
 DEPTH 3683 FORMATION Claystone HOLE MADE 546 HRS. DRLG. 27
 MUD WT. 9 VIS. 41 WL 26 CHL 150 TYPE Gel LCM _____
 OIL _____ SD .5 PV 18 YP 20 SOLIDS 4.8 pH 10.4

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
3222			1/4°	DRIVE				
3467			1/2°	CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: Bat, bit sub, ss, 1 DC, stab, 1 DC, stab, 10 DC's @ x0

23 HRS only
1 HR survey

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____ CFM	
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
BIT NO. <u>4</u>	DEPTH OUT <u>done</u>	SIZE <u>12 1/4</u>	DEPTH IN <u>2700</u>	MAKE <u>Reed</u>	FEET MADE <u>983</u>
TYPE <u>FP51</u>	HRS. DRILLED <u>33</u>	SER. NO. <u>900 YD 1</u>	WT. ON BIT <u>20-25,000</u>	NO. & SIZE JETS <u>3 16's</u>	REV. PER MIN. <u>90</u>
LINER SIZE <u>6</u>	GAL. PER MIN. <u>695</u>	LENGTH STROKE <u>16</u>	AN. VEL. <u>DP-136' min 197-DC</u>	STROKES/MIN. <u>110</u>	JET VEL. _____
PRESSURE <u>1800</u>	BIT #P-RATE <u>28' / HR</u>				

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. 2
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD LEACH H.S. (Grass Valley) 24 HR. PERIOD ENDING _____
 LEASE USA REPORT NO. 13
 A.M. DATE 5-27-80
 WELL NO. 11-36
 DATE SPUDED _____ DAYS SINCE SPUDED IN _____
 DEPTH 3891 FORMATION limestone HOLE MADE 208 HRS. DRLG. 10
 MUD WT. 9.0 VIS. 3.7 WL 18 CHL 125 TYPE gel LCM _____
 OIL _____ SD 12 PV 7 YP 14 SOLIDS 4.6 PH 10.4

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
3716	3/4			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA bit near bit 3 at name, shock out 1 DC
stab 1 DC stab 10 DC lower 12 jts longest
10 hrs dly
4 hrs survey + POOH
1 TH to 2773
5 hr reaming 2778 to 3068
1 hr circ cold hole + mud
1 hr ream 3069 to 3192

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>4</u>	DEPTH OUT	<u>3891</u>			
SIZE	<u>12/4</u>	DEPTH IN	<u>2701</u>			
MAKE	<u>REED</u>	FEET MADE	<u>1190</u>			
TYPE	<u>FP51</u>	HRS. DRILLED	<u>43</u>			
SER. NO.	<u>900 4D1</u>	WT. ON BIT	<u>20</u>			
NO. & SIZE JETS	<u>3-16</u>	REV. PER MIN.	<u>70</u>			
		CONDITION	<u>3-4-3/6</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>630</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>123/179</u>			
STROKES/MIN.	<u>100 (2 pumps)</u>	JET VEL.				
PRESSURE	<u>1900</u>	BIT H.P.	<u>21 FT/HR</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD LEACH H.S 24 HR. PERIOD ENDING _____
 LEASE USA REPORT NO. 14
 DATE SPUDDED _____ A.M. DATE 5-28-60
 DEPTH 4185 FORMATION craystone HOLE MADE 294 HRS. DRLG. 19
 MUD WT. 8.9 VIS. 3.5 WL 15 CHL 100 TYPE gal LCM _____
 OIL _____ SD 1/4 PV 6 YP 7 SOLIDS 4.1 PH 10

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
3966	1 1/4			CONDUCTOR				
4025	1 1/4			SURFACE				
4149	1 3/4			INTERMED.				
				OTHER				

REMARKS: BAA ditto

3 1/2 seam + circ 3195 to 3391
19 dily
1 1/2 circ & survey

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$		TODAY \$	TO DATE \$
WELL COST PREVIOUS \$		TODAY \$	TO DATE \$
BIT NO.	<u>5</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>3391</u>
MAKE	<u>HTC</u>	FEET MADE	<u>294</u>
TYPE	<u>22</u>	HRS. DRILLED	<u>19</u>
SER. NO.	<u>866W</u>	WT. ON BIT	<u>25</u>
NO. & SIZE JETS	<u>3-16</u>	REV. PER MIN.	<u>60</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>616 630</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>123/129</u>
STROKES/MIN.	<u>100</u>	JET VEL.	<u>1800</u>
PRESSURE	<u>1800</u>	BIT H.P.	<u>15</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____

SIGNATURE _____

DAILY DRILLING REPORT

FIELD Brass Valley 24 HR. PERIOD ENDING Midnight REPORT NO. 15
 LEASE USA 10-36 A.M. DATE 5-29-80
 DATE SPUDDED 14 DAYS SINCE SPUDDED IN _____ WELL NO. _____
 DEPTH 4294 FORMATION Siltstone Sandstone HOLE MADE 109 HRS. DRIG. 13
 MUD WT. 9.0 VIS. 90 WL 14 CHL 100 TYPE Gel LCM _____
 OIL _____ SD 14 @ 60 PV 7 YP 12 SOLIDS 9.8 pH 10.9

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
4254	1 1/2			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: B.H.A. Bit - Ream - S.S. - 1-8" DC - stab - 1-8" DC -
stab - 10-8" DC. xover. Jaws - H.W.

12 Hr. Dilg to 4254'
4 Hr. P80 H. Tight spot - 3590' - 2860'
3 Hr. TIN w/ New Bit to 2876' - 0
4 Hr. Reaming from 2876 - 4254 (Spotted)
1 Hr. Dilg

Temp - 140° - 135°

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>5</u>	<u>6</u>	DEPTH OUT	<u>4254</u>		
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>3891</u>	<u>4254</u>	
MAKE	<u>HTC</u>	<u>HTC</u>	FEET MADE	<u>363</u>	<u>20</u>	
TYPE	<u>J22</u>	<u>J-33</u>	HRS. DRILLED	<u>26 1/4</u>	<u>1</u>	
SER. NO.	<u>866 W</u>	<u>BR 995</u>	WT. ON BIT	<u>25</u>	<u>25/25</u>	
NO. & SIZE JETS	<u>16's</u>	<u>16's</u>	REV. PER MIN.	<u>50</u>	<u>50</u>	
LINER SIZE	<u>6</u>		CONDITION	<u>4-5-IN</u>		
LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>630</u>		
STROKES/MIN.	<u>100</u>		AN. VEL.	<u>123-179</u>		
PRESSURE	<u>1700</u>		JET VEL.			
			BIT H.P.	<u>8.3 FPM H.</u>		

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

FIELD LEACH H.S 24 HR. PERIOD ENDING _____ REPORT NO. 10
 LEASE USA A.M. DATE 5-30
 DATE SPUDED 4/2 DAYS SINCE SPUDED IN 15 WELL NO. 11-36
 DEPTH 4630 FORMATION sandstone HOLE MADE 340 HRS. DRLG. 22 1/2
 MUD WT. 9.1 VIS. 4.0 WL 10 CHL 100 TYPE gal LCM _____
 OIL _____ SD 4 PV 8 YP 12 SOLIDS 5 pH 7.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
4521	1 3/4			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA ditto 529.90'

22 1/2 hrs dila
1 reaming after short trip
1/2 short trip

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$			TO DATE \$		
WELL COST PREVIOUS \$	TODAY \$			TO DATE \$		
BIT NO.	<u>6</u>	DEPTH OUT	<u>4254</u>			
SIZE	<u>12/4</u>	DEPTH IN	<u>4254</u>			
MAKE	<u>ATC</u>	FEET MADE	<u>376</u>			
TYPE	<u>J-33</u>	HRS. DRILLED	<u>22 1/2</u>			
SER. NO.	<u>BR 995</u>	WT. ON BIT	<u>25</u>			
NO. & SIZE JETS	<u>3-16</u>	REV. PER MIN.	<u>50</u>			
		CONDITION				
LINER SIZE	<u>4 1/2 6</u>	GAL. PER MIN.	<u>630</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>123/179</u>			
STROKES/MIN.	<u>100</u>	JET VEL.				
PRESSURE	<u>1600</u>	BIT H.P.	<u>15</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

REPORT NO. 17
 FIELD LEACH H.S 24 HR. PERIOD ENDING _____ A.M. DATE 5-31
 LEASE USA WELL NO. 11-36
 DATE SPUDED _____ DAYS SINCE SPUDED IN 16
 DEPTH 4957 FORMATION sand & basalt HOLE MADE 327 HRS. DRLG. 15
 MUD WT. _____ VIS. _____ WL _____ CHL _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS _____ pH _____

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
4647	2			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA bit bit sub, near bit reamer, shock sub, 1 D.C., stab,
1 D.C., stab 10 D.C., cover up & dndrlg gear
15 hrs drlg
8 trip
1 circ a survey

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>6</u>	<u>7</u>	DEPTH OUT	<u>4730</u>		
SIZE	HTC <u>12/4</u>	<u>12/4</u>	DEPTH IN	<u>4254</u>	<u>4730</u>	
MAKE	<u>HTC</u>	<u>Smith</u>	FEET MADE	<u>476</u>	<u>227</u>	
TYPE	<u>J-33</u>	<u>F-3</u>	HRS. DRILLED	<u>31</u>	<u>9/4</u>	
SER. NO.	<u>BR 995</u>	<u>048 TX</u>	WT. ON BIT	<u>25</u>	<u>25</u>	
NO. & SIZE JETS	<u>3-16</u>	<u>3-16</u>	REV. PER MIN.	<u>50</u>	<u>50</u>	
			CONDITION	<u>3-4-in</u>		
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>630</u>		
LENGTH STROKE	<u>16</u>		AN. VEL.	<u>123/129</u>		
STROKES/MIN.	<u>100</u>		JET VEL.			
PRESSURE	<u>1600</u>		BIT H.P.	<u>15.4</u>	<u>24.5</u>	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

REPORT NO. 18
 FIELD W.C. / GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 6-1-86
 LEASE LISA WELL NO. 11-36
 DATE SPUDED 5-15-86 DAYS SINCE SPUDED IN 17
 DEPTH 5300 FORMATION DAVOLT HOLE MADE 343 HRS. DRLG. 21 3/4
 MUD WT. 8.9 VIS. 45 WL. 12 CHL. 100 TYPE GEN. SERVICE LCM
 OIL - SD 0.25 PY 6 YP 6 SOLIDS 40 PH 10

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
5300			4°	DRIVE			
				CONDUCTOR	20	26	328
				SURFACE	13 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS BEFORE

21 3/4 HRS: DRLG
1 HRS: SHORT TRIPS
1 1/4 HRS CIRC AND SURVEY

DEPTH AT 6:00 AM 5309

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$	TODAY \$	TO DATE \$
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$
BIT NO. <u>1</u>	DEPTH OUT <u>5300</u>	
SIZE <u>12 1/4</u>	DEPTH IN <u>4730</u>	
MAKE <u>SMITH</u>	FEET MADE <u>570</u>	
TYPE <u>F-3</u>	HRS. DRILLED <u>52</u>	
SER. NO. <u>0487X</u>	WT. ON BIT <u>22</u>	
NO. & SIZE JETS <u>16-16-16</u>	REV. PER MIN. <u>66</u>	
LINER SIZE <u>6</u>	CONDITION <u>6-4 IN</u>	
LENGTH STROKE <u>16</u>	GAL. PER MIN. <u>630</u>	
STROKES/MIN. <u>100</u>	AN. VEL. <u>123.00 - 179.00</u>	
PRESSURE <u>1700</u>	JET VEL. <u>-</u>	
	BIT H.P. <u>15.7 F/IN</u>	

DRILLING CONTRACTOR: FILL IN ON FIRST AND LAST REPORT

RBM 2

FIELD: LEACH H.S. 24 HR. PERIOD ENDING _____
 LEASE: USA REPORT NO. 18
 DATE SPUNDED _____ A.M. DATE 6-2
 DEPTH: 5300 FORMATION: conglomerates HOLE MADE: 343 HRS. DRLG. 21 3/4
 MUD WT. 8.9 VIS. 45 WL 12 CHL 100 TYPE gelasep LCM
 OIL SD 1/4 PV 6 YP 6 SOLIDS 4.0 PH 10

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
5300	4			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: 21 3/4 dila
1 short trips
1/4 air & survey

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>7</u>	DEPTH OUT	<u>5300</u>			
SIZE	<u>12 1/4</u>	DEPTH IN	<u>4730</u>			
MAKE	<u>Smith</u>	FEET MADE	<u>570</u>			
TYPE	<u>F-3</u>	HRS. DRILLED	<u>32</u>			
SER. NO.	<u>048TK</u>	WT. ON BIT	<u>25</u>			
NO. & SIZE JETS	<u>3-16</u>	REV. PER MIN.	<u>60</u>			
LINER SIZE	<u>6</u>	CONDITION	<u>6-4 in</u>			
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>630</u>			
STROKES/MIN.	<u>100</u>	AN. VEL.	<u>123/179</u>			
PRESSURE	<u>1000</u>	JET VEL.				
		BIT H.P.	<u>15.7</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT): _____ RIG NO. _____
 SIGNATURE _____

FIELD WC - GRAD VALLEY 24 HR. PERIOD ENDING 12 AM A.M. DATE 6-2-80
 LEASE USA WELL NO. 11-34
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 18
 DEPTH 3526 FORMATION GRANITE HOLE MADE 226 HRS. DRLG. 18
 MUD WT. 8.9 VIS. 40 WL 15 CHL 150 TYPE CLAY-SLIME
 OIL SD .25 PV 5 YP 5 SOLIDS 4 pH 11.0

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>520</u>			<u>3'12</u>	DRIVE				
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>	
				SURFACE	<u>13 3/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: ~~123~~ BHA: SAME AS 4180
 18 hrs drilling
 5 hrs TRIP TIME, POOH & TIT FOR
 BIT #8
 1/2 REAMING FROM 5260 TO 5300
 1/2 CIRC. + SURVEY

(5571 FT. AT 4 AM 6380)

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____ CFM	
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
BIT NO.	<u>8</u>	DEPTH OUT		DEPTH IN	<u>5300</u>
SIZE	<u>12 1/4</u>	FEET MADE	<u>226</u>	HRS. DRILLED	<u>18</u>
MAKE	<u>SEC.</u>	WT. ON BIT	<u>25</u>	REV. PER MIN.	<u>65</u>
TYPE	<u>5-86-7</u>	CONDITION	<u>INC.</u>	GAL. PER MIN.	<u>617</u>
SER. NO.	<u>931494</u>	AN. VEL.	<u>151 D.P., 176 D.C.</u>	JET VEL.	<u>400 FT PER. SECOND</u>
NO. & SIZE JETS	<u>15-15-15</u>	JET VEL.	<u>FT. PER. HR.</u>	<u>12.5</u>	
LINER SIZE	<u>6</u>				
LENGTH STROKE	<u>16</u>				
STROKES/MIN.	<u>48</u>				
PRESSURE	<u>1750</u>				

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD WVC / GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 20
 LEASE USA A.M. DATE 6-3-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 19 WELL NO. 11-36
 DEPTH 5832 FORMATION RYOLITE HOLE MADE 3060 HRS. DRLG. 22
 MUD WT. 9.0 VIS. 40 WL 17 CHL 150 TYPE LCM
 OIL - SD .22 PV 10 YP 10 SOLIDS 4.2 PH 10.9

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>5545</u>			<u>3 1/4"</u>	DRIVE			
<u>5669</u>			<u>30</u>	CONDUCTOR	<u>20</u>	<u>26</u>	<u>520</u>
				SURFACE	<u>13 1/2</u>	<u>17 1/2</u>	<u>2700</u>
				INTERMED.			
				OTHER			

REMARKS BHA: SAME AS 6-2-80

22 HRS: DRILLING
1 HR: CIRC AND SURVEY
1 HR: SHORT TRIPS

CRITICAL MUD VELOCITY: 201.30 FT/MIN 588 T @ 6:00 AM 6-4-80
ANNULAR PRESSURE LOSS: 19.93 PSI 3 1/4" DEVI
ECD AP : 9.07 #/GAL

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CPM _____
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>8</u>	DEPTH OUT	<u>-</u>
SIZE	<u>12 1/4</u>	DEPTH IN	<u>5300</u>
MAKE	<u>SEC</u>	FEET MADE	<u>532</u>
TYPE	<u>S 86 F</u>	HRS. DRILLED	<u>41</u>
SER. NO.	<u>931-45</u>	WT. ON BIT	<u>25</u>
NO. & SIZE JETS	<u>15-15-15</u>	REV. PER MIN.	<u>55</u>
		CONDITION	<u>INC</u>
INNER SIZE	<u>6</u>	GAL. PER MIN.	<u>617</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>121 DP 176 DC</u>
STROKES/MIN.	<u>98</u>	JET VE.	<u>400 FT/SEC</u>
PRESSURE	<u>1750</u>	BIT H.P.	

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

RBH 2

DAILY DRILLING REPORT

FIELD W/C/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 21
 LEASE USA A.M. DATE 6-4-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 20 WELL NO. 11-36
 DEPTH 5976 FORMATION RYOLITE HOLE MADE 144 HRS. DRLG. 13
 MUD WT. 8.9 VIS. 39 WL 15 CHL 150 TYPE GE/SEP LCM -
 OIL - SD .25 PY 4 YP 1 SOLIDS 3.9 M 10.5

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
5887			3'4	CONDUCTOR	20	26	320	
				SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS 6-3-80

5 HRS: DRLG AND SURVEY WITH BIT #8
6 HRS: PDDH W/ BIT #8, CHANGE STABILIZERS, DRESS REAMER WITH NEW CUTTERS, CHECK JARS AND SHOCK SUB, PICK UP BIT #9 T.H.
8 HRS: DRLG, TWISTED OFF
3 HRS: PDDH, LEFT 12 1/4 REAMER AND BIT IN HOLE DUE TO FAILURE OF BIT SUB WASHED OUT
2 HRS: T.H. TO SCREEN INTO FISH AT MIDNIGHT 12:00 AM 6-5-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$	
BIT NO.	8	9	DEPTH OUT	5887	5976
SIZE	12 1/4	12 1/4	DEPTH IN	5300	5887
MAKE	SEC	HTC	FEET MADE	587	89
TYPE	586F	J-33	HRS. DRILLED	45 1/4	8 1/4
SER. NO.	931495	VE-304	WT. ON BIT	25130	25130
NO. & SIZE JETS	15-15-15	14-15-15	REV. PER MIN.	50160	55160
LINER SIZE	6		CONDITION	6 1/5 IN	INC
LENGTH STROKE	16		GAL. PER MIN.	617	
STROKES/MIN.	98		AN. VEL.	121 DP 176 DC	
PRESSURE	1750		JET VEL.	400 FT/SEC	
			BHP/P.	11.8 HP/HR	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE [Signature] IRIG NO 2

DAILY DRILLING REPORT

FIELD WIC/ GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 27
 LEASE USA A.M. DATE 6-5-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 21 WELL NO. 11-36
 DEPTH 6001 FORMATION GRANITE HOLE MADE 25 HRS. DRLG. 9
 MUD WT. 9.0 VIS. 40 WL 150 CHL 150 TYPE LCM
 OIL - SD 0.25 PV 9 YP 11 SOLIDS 4.0 PH 10.9

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEY.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	20	26	320	
				SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT REAMER, SHOCK SUB, 1-8" DC, STAB, 1-8" DC, STAB, 10-8" DC'S,
UP JAR

6 HRS: FISHING, TIM CIRC AT FISH, SCREW INTO FISH, ESTABLISHED
CIRC PUMPED FISH FREE, CHAIN OUT, LAY DOWN FISH

6 HRS: MAGNA-FLUX DC'S + SUBS, PICKED UP NEW BHA

3 HRS: TIM CHECKING TOOL JOINTS ON HEVI-WALL, HIT BRIDGE AT
577', SPOT REAMER TO T.D.

9 HRS: DRLG

ONE OF THE MUD PUMPS WENT DOWN AROUND MIDNIGHT DUE TO
ELECTRICAL SHORT NOT ABLE TO RUN OPTIMUM HYDRAULICS, WILL BE REPAIRED
6-6-80

CRITICAL MUD VELOCITY: 213 FT/MIN
ANN. PRESSURE LOSS : 23.11 PSI
ECD DP : 9.07 #/GAL

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	9	DEPTH OUT	-
SIZE	12 1/4	DEPTH IN	5887
MAKE	HTC	FEET MADE	116
TYPE	J-23	HRS. DRILLED	17.25
SER. NO.	VE-304	WT. ON BIT	25-30
NO. & SIZE JETS	14-15-15	REV. PER MIN.	50-55
		CONDITION	1AC
LINER SIZE	6	GAL. PER MIN.	440
LENGTH STROKE	16	AN. VEL.	80 FT/MIN DP - 116 FT/MIN DC
STROKES/MIN.	65	JET VEL.	260 FT/SEC
PRESSURE	1100	BIT H.P.	278 HP

FIELD UK/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12
 LEASE USA REPORT NO 23
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 22 A.M. DATE 6-6-80
 DEPTH 6062 FORMATION GRANITE, QUARTZ HOLE MADE 61-485 WELLS NO 11-36
 MUD WT. 8.9 VIS. 39 WL 14 CHL 125 TYPE GE/DRUG LCM
 OIL - SD NIL PV 5 YP 6 SOLIDS 3.9 PH 11.3

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEY.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	20	26	320	
				SURFACE	13 3/4	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA; BIT REAMER, SHOCK SUB, 1-8"DX, STAB, 18"DC, STAB, 10-8"DC'S
XC, DOWN, UP, DRUG JARS.

16 HRS. DRUG, WITH ONE HUP PUMP DUE TO ELECTRICAL FAILURE

8 HRS. POOH ON EVEN STANDS DRESSED NEAR BIT REAMER,
CHANGED OUT WORN OUT DRUG JARS. PARTIAL T.W.H.
AT 12 AM MIDNIGHT 6-7-80.

6070' AT 6:00 AM 6-7-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	SIZE	MAKE	TYPE	SER. NO.	NO. & SIZE JETS	DEPTH OUT	DEPTH IN	FEET MADE	HRS. DRILLED	WT. ON BIT	REV. PER MIN.	CONDITION
9	12 1/4	HTC	U-33	YE-300	14-15-15	6062	5887	175	33	30	65-65	5-6-18 OUT
10	12 1/4	HTC	U-44	2460A	14-15-15							

LINER SIZE 6 GAL. PER MIN. 554
 LENGTH STROKE 16 AN. VEL. 109 DP 158 DC
 STROKES/MIN. 88 JET VEL. 360 FT/SEC
 PRESSURE 1800 RATE 4 FT/HR

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) IRIG NO _____

SIGNATURE [Signature] RBH 2

FIELD WIL GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 6-7-80 24
 LEASE USA WELL NO. 1136
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 23
 DEPTH 6160 FORMATION GRANITE-QUARTZITE HOLE MADE 98 HRS. DRLG. 28
 MUD WT. 8.9 VIS. 45 WL 12 CHL 12.5 TYPE GEL-SAVELCM
 OIL - SD NIL PV 12 YP 15 SOLIDS 3.9 PH 11.3

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
6098			1 1/2	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	13 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BUR: SAME AS 6-6-80

2 1/2 HRS: TIH TO 6002
1/2 HR: REAM TO 6062
1 HR: CIRC AND SURVEY
20 HRS: DRLG WITH BIT #10 AVERAGE 4.9 FT/HR

CRITICAL MUD ANN. VELOCITY 265.81'/MIN
ANN. PRESSURE LOSS 34.96 PSI
ECD AP 9.01 #/9AL

MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$	

BIT NO.	<u>10</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6020</u>
MAKE	<u>HTC</u>	FEET MADE	<u>98</u>
TYPE	<u>J-44</u>	HRS. DRILLED	<u>28</u>
SER. NO.	<u>DA-246</u>	WT. ON BIT	<u>35/40</u>
NO. & SIZE JETS	<u>14-15-15</u>	REV. PER MIN.	<u>40/55</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>554</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>109 DP - 158 DS</u>
STROKES/MIN.	<u>88</u>	JET VEL.	<u>300 FT/SEC</u>
PRESSURE	<u>1800</u>	BIT W.P.	<u>4.90 FT/HR</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

SIGNATURE [Signature]

RBM 2

FIELD WV/GRASS VALLEY 24 HR. PERIOD ENDING Midnight 12 REPORT NO 25
 LEASE USA A.M. DATE 6-8-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 24 WELL NO. 11-36
 DEPTH 6280 FORMATION GRANITE-QUARTZITE HOLE MADE 120 HRS. DRLG. 23
 MUD WT. 9.0 VIS 45 WL 12 CHL 100 TYPE GEL LCM
 OIL --- SD NIL PV 20 YP 23 SOLIDS 4 PH 10.7

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEY.	SIZE	HOLE SIZE	SEAT	F.C.
6280			106000	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	13 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-7-80

23 HRS: DRLG
1/2 HR: TRIP
1/2 HR: OIRC AND SURVEY

CRITICAL ANN VELOCITY: 355.73 FT/MIN
ANNULAR PRESSURE LOSS: 47.16 PSI
ECD DP : 9.14 #/GAL

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>10</u>	DEPTH OUT	<u>6280</u>
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6062</u>
MAKE	<u>HTC</u>	FEET MADE	<u>218</u>
TYPE	<u>J-44</u>	MRS. DRILLED	<u>43.25</u>
SER. NO.	<u>DA-246</u>	WT. ON BIT	<u>35</u>
NO. & SIZE JETS	<u>14-15-15</u>	REV. PER MIN.	<u>50</u>
LINER SIZE	<u>6</u>	CONDITION	<u>RT-6-5-IN</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>554</u>
STROKES/MIN.	<u>88</u>	AN. VEL.	<u>109 DP, 158 DG</u>
PRESSURE	<u>1800</u>	JET VEL.	<u>360 FT/MIN</u>
			<u>5.22 FT/HR</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)
 SIGNATURE [Signature]

RBM IRIG NO 2

DAILY DRILLING REPORT

WELL LLC/GRASS VALLEY 24 HR. PERIOD ENDING HIGHWAY 12 A.M. DATE 6-7-80 26
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 25
 DEPTH 6295 FORMATION GRANITE HOLE MADE 115 HRS. DRLG. 19 1/2
 MUD WT. 9.0 VIS. 40 #L 12 CHL 100 TYPE CLAY-SEPIUM CM
 OIL - SD NIL PV 7 YP 4 SOLIDS 4 M 0.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	<u>20</u>	<u>36</u>	<u>520</u>	
				SURFACE	<u>13 3/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT, JUNK SUB, LEANER, STACK SUB, 1DC, STABL, 1DC STABL, 10 DC, X0
DOWN JARS, UP JARS

4 HRS: TRIP FOR BIT #
1 1/2 HR: REAM AFTER TRIP 6240-6280
19 1/2 HRS: DRILLING

TEMP: 143 OUT
135 IN

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>11</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6280</u>
MAKE	<u>SMITH</u>	FEET MADE	<u>115</u>
TYPE	<u>F 4</u>	HRS. DRILLED	<u>19 1/2</u>
SER. NO.	<u>AF 4459</u>	WT. ON BIT	<u>35</u>
NO. & SIZE JETS	<u>15-15-15</u>	REV. PER MIN.	<u>45</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>55 4</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>109-158</u>
STROKES MIN.	<u>98</u>	JET VEL.	<u>360 FT/SEC</u>
PRESSURE	<u>1800</u>	PROP.	<u>5.9 FT/HL</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT. RIG NO. 2
 SIGNATURE John D. Bradley RBM

DAILY DRILLING REPORT

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 27
 LEASE USA A.M. DATE 6-16-80
 DATE SPUNNED 5-15-80 DAYS SINCE SPUNNED IN 26 WELL NO 11-3
 DEPTH 6528 FORMATION GRANITE MOLE MADE 103 HRS. DRLG. 21
 MUD WT. 8.9 VIS. 39 WL 12 CH. 100 TYPE GEL LCM
 OIL - SD NIL PV 8 YP 9 SOLIDS 3.9 PH 11

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
6528			1 1/2	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	133 1/2	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-9-80

HRS: DRLE

1/2 HR: SURVEY

2 1/2 HRS: POOH FOR BIT AND REAPER CUTTER CHANGE

CRITICAL AV: 187.58 FT/MIN
DP: 22.80 PSI
ECD: 8.97 #/GAL

TEMP: 138° F OUT
127° F IN

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				

BIT NO.	<u>11</u>	DEPTH OUT	<u>6528</u>
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6280</u>
MAKE	<u>SMITH</u>	FEET MADE	<u>248</u>
TYPE	<u>F4</u>	HRS. DRILLED	<u>40 1/2</u>
SER. NO.	<u>AE 4054</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>15 15 15</u>	REV. PER MIN.	<u>50</u>
LINER SIZE	<u>6</u>	CONDITION	<u>BT 6-4-CUT 1/16"</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>529</u>
STROKES/MIN.	<u>84</u>	AN. VEL.	<u>104 IP 150' DR</u>
PRESSURE	<u>1500</u>	JET VE.	<u>326 FT/SEC</u>
		ROD VE.	<u>4.9 FT/HR</u>

DRILLING CONTRACTOR: FILL IN ON PDS AND LAST REPORT

RBH 2

DAILY DRILLING REPORT

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 28
 LEASE LISA A.M. DATE 6-11-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 27 WELL NO. 11-36
 DEPTH 6630 FORMATION GRANITE HOLE MADE 102 HRS. DRLG. 20 1/2
 MUD WT. 9.0 VIS. 38 WL 12 CH. 125 TYPE GEL - LCM -
 OIL - SD - PV 11 YP 11 SOLIDS 4 PH 10.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE				
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>	
				SURFACE	<u>13 3/4</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS 6-10-80

2 3/4 HRS: TH TO 6452
3/4 HR: REAMING AFTER TRIP
20 1/2 HRS: DRILLING

MUD COST PREVIOUS \$		TODAY \$	TO DATE \$
WELL COST PREVIOUS \$		TODAY \$	TO DATE \$
BIT NO.	<u>R2</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6528</u>
MAKE	<u>SEC</u>	FEET MADE	<u>102</u>
TYPE	<u>H-89 TF</u>	HRS. DRILLED	<u>20 1/2</u>
SER. NO.	<u>828150</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>1575-15</u>	REV. PER MIN.	<u>40</u>
LINER SIZE	<u>6</u>	CONDITION	<u>INC</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>529</u>
STROKES/MIN.	<u>84</u>	AN. VEL.	<u>104 DP - 150 DC</u>
PRESSURE	<u>1500</u>	JET VEL.	<u>326 FT/SEC</u>
			<u>4.98 FT/HR</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) SIGNATURE [Signature] RBH 2

DAILY DRILLING REPORT

REPORT NO. 229
 FIELD W.C. GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT A.M. DATE 6-12-8
 LEASE USA WELL NO. 11-36
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 28
 DEPTH 6755 FORMATION Granite HOLE MADE 125 HRS. DRLG. 24
 MUD WT. 9 VIS. 37 WL 11 CHL 150 TYPE Gel LCM
 OIL — SD — PV 11 YP 11 SOLIDS 4 pH 10.8

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: Same
24 HRS - Drlg. with bit #12
Depth at 6 AM 6788'
Temp 140 in 130 mt

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____		CFM _____
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____		
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____		
BIT NO.	<u>12</u>	DEPTH OUT		DEPTH IN	<u>6528</u>	
SIZE	<u>12 1/4</u>	FEET MADE		HRS. DRILLED	<u>22 1/2</u>	
MAKE	<u>SEC</u>	WT. ON BIT		REV. PER MIN.	<u>40</u>	
TYPE	<u>M 89 TF</u>	CONDITION			<u>ANC.</u>	
SER. NO.	<u>828150</u>	GAL. PER MIN.		AN. VEL.	<u>106 DP</u>	<u>154 DC</u>
NO. & SIZE JETS	<u>3 15.5</u>	JET VEL.		BIT M.P. RATE	<u>338' / SECOND</u>	
LINER SIZE	<u>6</u>				<u>5.21' / HR.</u>	
LENGTH STROKE	<u>16</u>					
STROKES/MIN.	<u>86</u>					
PRESSURE	<u>1700</u>					

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 30
 LEASE USA A.M. DATE 6-13-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 29 WELL NO. 11-36
 DEPTH 6857 FORMATION GRANITE HOLE MADE 102 HRS. DRLG. 17
 MUD WT. 9.0 VIS. 37 WL 12 CHL 100 TYPE GEL LCM -
 OIL - SD NIL PV 10 YP 9 SOLIDS 4 PH 10.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
6809			2 1/2°	CONDUCTOR	20	26	320	
				SURFACE	133/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT REAMER, SHOCK SUB, 1 DC, STLB, 1 DC, STLB, 10 DC, X0, DOWN
SARS, UP SARS

10 HRS: DRLG TO 6809'
3 HRS: SURVEY AND POOH
2 HRS: PICK UP CUP TESTER, T1H 60' TEST BOE FOR 30MIN AT 1000'
1 1/2 HRS: T1H WITH BIT 13 STOPPED AT 6793'
1/2 HR: BREAK CIRC, WASHED OUT FILL TO 6809'
7 HRS: DRLG TO 6857' 12:00 AM MIDNIGHT 6-14-80

TEMP: 142° OUT
130° IN

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	SIZE	MAKE	TYPE	SER. NO.	NO. & SIZE JETS	DEPTH OUT	DEPTH IN	FEET MADE	HRS. DRILLED	WT. ON BIT	REV. PER MIN.	CONDITION
12	12 1/4	SEC	H-89-TF	828150	15-15-15	6809	6528	281	54 1/2	40	40	187-4-5-IN
12	12 1/4	SMITH	F-5	AE-4397	14-15-15			48	7	40	40	INC

LINER SIZE 6 GAL. PER MIN. 530
 LENGTH STROKE 16 AN. VEL. 104-DR 151-DK
 STROKES/MIN. 84 JET VEL. 345 FT/SEC
 PRESSURE 1750 6" / HR

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ IRIG NO. _____

SIGNATURE John B. ...

RBM 2

FIELD GRASS 24 HR. PERIOD ENDING _____ REPORT NO. 31
 LEASE USA A.M. DATE 6-14-80
 DATE SPUDED _____ WELL NO. _____
 DEPTH 7056 FORMATION granite DAYS SINCE SPUDED IN _____ HRS. DRLG. 20
 MUD WT. 7.0 VIS. 42 WL 12 CHL 100 TYPE J LCM _____
 OIL _____ SD _____ PV 14 YP 12 SOLIDS 0 pH 10.5

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: B4A same letter
24 hrs dly w/ bit = 13 + 1 pump
118/136

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>13</u>	DEPTH OUT	<u>6007</u>			
SIZE	<u>12/4</u>	DEPTH IN	<u>6309</u>			
MAKE	<u>Smith</u>	FEET MADE	<u>247</u>			
TYPE	<u>F-5</u>	HRS. DRILLED	<u>31</u>			
SER. NO.	<u>AE 4397</u>	WT. ON BIT	<u>40</u>			
NO. & SIZE JETS	<u>1-14 2-15</u>	REV. PER MIN.	<u>40</u>			
		CONDITION	<u>me</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>305</u>			
LENGTH STROKE	<u>10</u>	AN. VEL.	<u>72/104</u>			
STROKES MIN.	<u>530</u>	JET VEL.	<u>235</u>			
PRESSURE	<u>1200</u>	BIT H.P.	<u>9.3</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

WELL DRILLING REPORT

FIELD Yucca Valley 24 HR. PERIOD ENDING _____ REPORT NO. 32
 LEASE USA A.M. DATE 5-15-55
 DATE SPUDED _____ DAYS SINCE SPUDED IN 31 WELL NO. 1135
 DEPTH 720.5 FORMATION gravel HOLE MADE 149 HRS. DRLG. 21
 MUD WT. 5 VIS. 4.2 WL 14 CHL 100 TYPE 40 LCM _____
 OIL _____ SD _____ PV 7 YP 7 SOLIDS 3.0 PH 13.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
7121	3/4			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BAA = ditto

21 dls w/ bit = 13
2 1/2 P.O.H. to chg bit
1/2 survey

lost 35 bbl mud @ 7137

113/135

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>13</u>	DEPTH OUT	<u>720.5</u>
SIZE	<u>12 1/2</u>	DEPTH IN	<u>630.9</u>
MAKE	<u>Smith</u>	FEET MADE	<u>89.6</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>52</u>
SER. NO.	<u>AE 4397</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>1-14 2-15</u>	REV. PER MIN.	<u>40</u>
LINER SIZE	<u>6</u>	CONDITION	<u>45-in.</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>35</u>
STROKES MIN.	<u>77</u>	AN. VEL.	<u>75/138</u>
PRESSURE	<u>1700</u>	JET VEL.	<u>512</u>
		BIT H.P.	<u>7.1</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____

SIGNATURE _____

FIELD Grass Valley 24 HR. PERIOD ENDING _____ REPORT NO. 33
 LEASE USA A.M. DATE 6-16-81
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 32
 DEPTH 7312 FORMATION TRIPOLI HOLE MADE 107 HRS. DRLG. 20 1/2
 MUD WT. 9 VIS. 3 WL 13 CHL 13 TYPE SA LCM _____
 OIL _____ SD _____ PV 7 YP 2 SOLIDS _____ pH 10.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: R4F = dited
5/2 lined 2004 chs bot RTH 11 ft
20% hole w/ bot 0-14

122/147

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>12</u>	DEPTH OUT	
SIZE	<u>12 1/2</u>	DEPTH IN	<u>7205</u>
MAKE	<u>ALL</u>	FEET MADE	<u>107</u>
TYPE	<u>10 9-5</u>	HRS. DRILLED	<u>20 1/2</u>
SER. NO.	<u>928 413</u>	WT. ON BIT	<u>20</u>
NO. & SIZE JETS	<u>1-13 2-14</u>	REV. PER MIN.	<u>30</u>
		CONDITION	<u>fine</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>254</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>150 199</u>
STROKES/MIN.	<u>30</u>	JET VEL.	<u>350</u>
PRESSURE	<u>1750</u>	BIT H.P.	<u>5.2</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT: _____ RIG NO. _____
 SIGNATURE _____

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 6-17-80 REPORT NO. 34
 LEASE LSA WELL NO. 11-36
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 33
 DEPTH 7438 FORMATION GRANITE HOLE MADE 126 HRS. DRLG. 23 1/4
 MUD WT. 9.0 VIS. 37 WL 14 CH. 100 TYPE GEL LCM -
 OIL - SD NIL PV 10 YP 9 SOLIDS 4 PH 10.8

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>7362</u>			<u>43/4</u>	DRIVE			
				CONDUCTOR	<u>20</u>	<u>2 1/2</u>	<u>320</u>
				SURFACE	<u>13 3/4</u>	<u>17 1/2</u>	<u>2700</u>
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-16-80

23 1/4 HRS: DRLG WITH BIT #14
3/4 HR: SURVEY FOR DIRECTION

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$	TODAY \$	TO DATE \$
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$
BIT NO. <u>14</u>	DEPTH OUT	
SIZE <u>12 1/4</u>	DEPTH IN <u>7205</u>	
MAKE <u>SEC</u>	FEET MADE <u>233</u>	
TYPE <u>H89TF</u>	HRS. DRILLED <u>43 1/2</u>	
SER. NO. <u>928418</u>	WT. ON BIT <u>40</u>	
NO. & SIZE JETS <u>13-14-14</u>	REV. PER MIN. <u>40</u>	
	CONDITION <u>INC</u>	
LINER SIZE <u>6</u>	GAL. PER MIN. <u>504</u>	
LENGTH STROKE <u>16</u>	AN. VEL. <u>126</u>	
STROKES/MIN. <u>80</u>	JET VEL. <u>310 FT/SEC</u>	
PRESSURE <u>1250</u>	JET PRESS. <u>2.36 FT/HR</u>	

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT
 SIGNATURE [Signature] RSM 2

FIELD Grass Valley 24 HR. PERIOD ENDING _____ REPORT NO. 35
 LEASE USA U A.M. DATE 6-19
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN _____ WELL NO. 11-36
 DEPTH 7519 FORMATION granite HOLE MADE 81 HRS. DRILG. 1672
 MUD WT. 89 VIS. 33 WL 15 CHL 100 TYPE oil LCM _____
 OIL _____ SD _____ PV 9 YP 5 SOLIDS 41 PH 10.5

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>7546</u>	<u>5/4</u>			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA bit reamer bit sub stuck sub, 1 DC stab also 1 DC stab 10 DC cover

3/4 dily with bit #14
1/2 subvey
6/4 POOH by bit reamers + stab RIT no fill
13/4 RIT dily w/ bit #15

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$		TODAY \$		TO DATE \$		
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$		
BIT NO.	<u>14</u>	<u>15</u>	DEPTH OUT	<u>7455</u>		
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>7205</u>	<u>7455</u>	
MAKE	<u>Lee</u>	<u>Smith</u>	FEET MADE	<u>250</u>	<u>64</u>	
TYPE	<u>M89TF</u>	<u>F-5</u>	HRS. DRILLED	<u>46 3/4</u>	<u>13 1/4</u>	
SER. NO.	<u>928418</u>	<u>AE 4267</u>	WT. ON BIT	<u>40</u>	<u>40</u>	
NO. & SIZE JETS	<u>2-14 1-13</u>	<u>1-13 - 2-14</u>	REV. PER MIN.	<u>40</u>	<u>40</u>	
			CONDITION	<u>1-2-1N</u>		
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>472</u>		
LENGTH STROKE	<u>16</u>		AN. VEL.	<u>92/132</u>		
STROKES/MIN.	<u>75</u>		JET VEL.	<u>352</u>		
PRESSURE	<u>1600</u>		BIT H.P.	<u>5.3</u>	<u>48</u>	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DRILLING REPORT

FIELD Cross Valley 24 HR. PERIOD ENDING _____
 LEASE USA _____
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN _____
 DEPTH 7635 FORMATION gabano HOLE MADE 116 HRS. DRLG. 25 1/2
 MUD WT. 9 VIS. 400 WL 15 CHL 100 TYPE gel LCM _____
 OIL _____ SD _____ PV 12 YP 13 SOLIDS 4 pH 10.7

REPORT NO. 36
 A.M. DATE 6-19
 WELL NO. 11-36

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
7550	5 1/4			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA ditto
23 1/2 dls
1/2 survey
132/142
200 max. read

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CEM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>15</u>	DEPTH OUT				
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7455</u>			
MAKE	<u>Smith</u>	FEET MADE	<u>180</u>			
TYPE	<u>F-5</u>	HRS. DRILLED	<u>37 1/2</u>			
SER. NO.	<u>AE 0267</u>	WT. ON BIT	<u>40</u>			
NO. & SIZE JETS	<u>1-13 2-14</u>	REV. PER MIN.	<u>40</u>			
		CONDITION	<u>inc</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>472</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>92/134</u>			
STROKES/MIN.	<u>75</u>	JET VEL.	<u>352</u>			
PRESSURE	<u>1650</u>	BIT H.P.	<u>49</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

REPORT NO 57
 FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 6-20-80
 LEASE USA WELL NO 15-26
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 36
 DEPTH 7737 FORMATION GRANITE HOLE MADE 102 HRS. DRLG. 22 1/2
 MUD WT. 9.0 VIS. 38 WL 15 CHL 100 TYPE GEL LCM
 OIL 30 PV 12 YP 11 SOLIDS 4.8 PH 10.5

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
7643			4 3/4°	DRIVE			
7733			5°	CONDUCTOR	20	26	320
				SURFACE	13 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA. SAME AS BEFORE

22 1/2 HRS: DRILLING

1 1/2 HR: SURVEY

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>1</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7455</u>
MAKE	<u>SHMT</u>	FEET MADE	<u>282</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>59 3/4</u>
SER. NO.	<u>RE-4267</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>13-14-14</u>	REV. PER MIN.	<u>40</u>
		CONDITION	<u>INC</u>

LINER SIZE 6 GAL. PER MIN. 470
 LENGTH STROKE 16 AN. VEL. 92 DP 134 DC
 STROKES/MIN. 75 JET VEL. 352 FT/SEC
 PRESSURE 1750 BIT H.P. 4.5 FT/HR

DRILLING CONTRACTOR: FILL IN ON FIRST AND LAST REPORT

DRM 1810 NO 2

REPORT NO 58
 FIELD WC/ GRASS VALLEY 24 HR PERIOD ENDING MIDNIGHT 12 A.V. DATE 6-21-80
 LEASE USA WELL NO 11-36
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 37
 DEPTH 7809 FORMATION GRAWITE HOLE MADE 72 HRS. DRLG. 17
 MUD WT. 9.0 VIS. 35 WL 14 CHL 100 TYPE GEL LCV -
 OIL - SD NIL PY 7 YP 6 SOLIDS 418 PH 10.3

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE			
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>
				SURFACE	<u>13 3/8</u>	<u>17 1/2</u>	<u>2700</u>
				INTERMED.			
				OTHER			

REMARKS: BHA: BIT LUMP SUB, REAMER, FLOAT SUB, SHOCK SUB, 1-8" DC, STAB, 1-8" DC, STAB, 10 8" DC, X0 DOWN JARS, UP JARS, X0, HW

17 HRS: DRILLING
6 HRS: TRIP FOR BIT #16 POOH AND TTH NO PROBLEMS
1 HR: OUT OF DRILLING LINE

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>15</u>	<u>16</u>	DEPTH OUT	<u>7775</u>	
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>7455</u>	<u>7775</u>
MAKE	<u>SMITH</u>	<u>SMITH</u>	FEET MADE	<u>320</u>	<u>34</u>
TYPE	<u>F-5</u>	<u>F-5</u>	HRS. DRILLED	<u>68 3/4</u>	<u>7 1/2</u>
SER. NO.	<u>AE4267</u>	<u>AE5587</u>	WT. ON BIT	<u>40</u>	<u>40</u>
NO. & SIZE JETS	<u>13-14-14</u>	<u>13-14-14</u>	REV. PER MIN.	<u>40</u>	<u>40</u>
			CONDITION	<u>6-4-1N</u>	<u>INC</u>
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>472</u>	
LENGTH STROKE	<u>16</u>		AN. VEL.	<u>92 DP, 1340C</u>	
STROKES/MIN.	<u>75</u>		JET VE.	<u>352 FT/SEC</u>	
PRESSURE	<u>1750</u>		BIT H.P.	<u>423 FT/HL</u>	

REPORT NO. 39
 DATE 6-22-80
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 38
 DEPTH 7924 FORMATION GRANITE HOLE MADE 115 MRS. DRLG. 23 1/2
 MUD WT 8.9 VIS. 38 WL 13 CHL 100 TYPE GEL LCM -
 OIL - SD - PY 7 YP 7 SOLIDS 40 # 10.2

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
7859			5'14"	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	133/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-21-80

23 1/2 HRS: DRLG WITH BIT # 16
1/2 HR. SURVEY AT 7859'

DEPTH LIPOAM 6-23-80
IS 7950'

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CPM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>16</u>	DEPTH OUT	
SIZE	<u>12 1/2</u>	DEPTH IN	<u>7775</u>
MAKE	<u>SMITH</u>	FEET MADE	<u>149</u>
TYPE	<u>F-5</u>	MRS. DRILLED	<u>21</u>
SER. NO.	<u>AE-3587</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>13-14-14</u>	REV. PER MIN.	<u>40</u>
LINER SIZE	<u>6</u>	CONDITION	<u>INC</u>
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>472</u>
STROKES/MIN.	<u>75</u>	AN. VEL.	<u>92 FT/MIN DP, 134 FT/MIN DC</u>
PRESSURE	<u>1750</u>	JET VEL.	<u>352 FT/SEC</u>
DRILLING CONTRACTOR	<u>RBM</u>	BIT M.P.	<u>4.89 FT/HR</u>

SIGNATURE John St. Bond
 R10 NC 2

LOGGING REPORT

FIELD W.C. Gross Valley 24 HR. PERIOD ENDING Mid 12⁰⁰ REPORT NO. 40
 LEASE USA - 11 36 A.M. DATE 6-23-80 WELL NO. 1F36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 39
 DEPTH 8022 FORMATION Granite HOLE MADE 98' HRS. DRLG. 23 1/4
 MUD WT. 8.9 VIS. 39 WL 13 CHL 100 TYPE Gel LCM
 OIL SD PV 9 YP 14 SOLIDS 4.0 PH 10.1

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
7952			5 1/4	CONDUCTOR	20	26	320	
8044			5 1/2	SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA - Same as 6-22-80

23 1/4 drlg. w/Bit #16
3/4 Directional Wireline survey

152 out chiller off
142 " chiller on

206 MRT

(Depth at 6 Am 6-24-80 - 8047)

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>16</u>	DEPTH OUT	<u>-</u>
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7775</u>
MAKE	<u>Smith</u>	FEET MADE	<u>247</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>54 1/4</u>
SER. NO.	<u>AE 3587</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>13-14-14</u>	REV. PER MIN.	<u>40 RPM</u>
		CONDITION	<u>INC.</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>346</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>68/m D.P., 98/min DC,</u>
STROKES/MIN.	<u>55</u>	JET VEL.	<u>258/sec.</u>
PRESSURE	<u>1000</u>	BIT	<u>4.21 / Rev.</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

RIG NO. 2

SIGNATURE _____

DAILY DRILLING REPORT

FIELD CU 24 HR. PERIOD ENDING _____ REPORT NO. 41
 LEASE USA A.M. DATE 6-24-80
 DATE SPUDED _____ WELL NO. 11-36
 DEPTH 8144 FORMATION BASALT DAYS SINCE SPUDED IN _____ HRS. DRLG. 2 1/2
 MUD WT. 9.0 VIS. 39 WL 10 CHL 100 TYPE _____ LCM _____
 OIL _____ SD _____ PV 16 YP 11 SOLIDS 4.8 pH 10

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.	
<u>8044</u>	<u>5 1/2°</u>			DRIVE				
<u>8137</u>	<u>5 1/2°</u>			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA - sand

2 1/2 only with bit #16
1 1/2 survey

next temp ~ wellhead 213°

171 not 156° F out
148° F in

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____ CFM	
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____	
BIT NO.	<u>16</u>	DEPTH OUT		DEPTH IN	<u>7,775</u>
SIZE	<u>12 1/4</u>	FEET MADE			<u>369</u>
MAKE	<u>SMITH</u>	HRS. DRILLED			<u>76 1/4</u>
TYPE	<u>F 5</u>	WT. ON BIT			<u>35/38</u>
SER. NO.	<u>AE 3581</u>	REV. PER MIN.			<u>50</u>
NO. & SIZE JETS	<u>13, 14, 11</u>	CONDITION			<u>AW</u>
LINER SIZE	<u>4</u>	GAL. PER MIN.			<u>474</u>
LENGTH STROKE	<u>16</u>	AN. VEL.			<u>92 DP 124 DC</u>
STROKES/MIN.	<u>75</u>	JET VEL.			<u>352' / second</u>
PRESSURE	<u>1750</u>	BIT #. PRATE			<u>5.42' / HR</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD W/C GRASS VALLEY 24 HR PERIOD ENDING MIDNIGHT 12 REPORT NO 42
 LEASE USA A.N. DATE 6-25-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 41 WELL NO. 11-26
 DEPTH 8258 FORMATION INSALT HOLE MADE 114 MRS. DRG. 173/4
 MUD WT. 9.06 VIS. 46 WL 4 CHL 100 TYPE CEL LCM -
 OIL - SD 25 PV 23 TP 24 SOLIDS 4.8 PH 9.8

B.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT
				CONDUCTOR	20	26	320
				SURFACE	133 1/2	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: BIT BEARER, BIT SUB, SNICK-SUB, 1-8" DC, STBL, 1-8" DC STAB,
10-8" DC, XC, DOWN JARS, UP JARS XC

17 3/4 HOURS: DRLE

6 HOURS: PROH FOR BIT CHANGE, DROP JUNK SUB, PICK UP
BIT #17 TIL TO 8161'

1/4 HOUR: CIRCULATE FOR TRIP

TEMP: 161°F OUT, 156°F IN COOLER OFF 12:00 PM TO 11:54 PM 6-25-80

MUD LOSS: FROM 8180' TO 8260' HAVE EXPERIENCED 5 BBL/HR LOSS

TEMP: ON MAXIMUM READING FOR 15 MIN. 225°F

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$				
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$				
BIT NO.	<u>16</u>	<u>17</u>	DEPTH OUT	<u>8161</u>		
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>7775</u>	<u>8161</u>	
MAKE	<u>SHIM</u>	<u>HTC</u>	FEET MADE	<u>386</u>	<u>97</u>	
TYPE	<u>F-6</u>	<u>13-111</u>	MRS. DRILLED	<u>80</u>	<u>14 1/2</u>	
SER. NO.	<u>AE-3581</u>	<u>148-BF</u>	WT. ON BIT	<u>35</u>	<u>35/40</u>	
NO. & SIZE JETS	<u>13-14-14</u>	<u>13-14-14</u>	REV. PER MIN.	<u>50</u>	<u>50</u>	
LINER SIZE	<u>6</u>		CONDITION	<u>4-4-1N</u>	<u>UNC</u>	
LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>504</u>		
STROKES/MIN	<u>80</u>		AN. VEL	<u>99 DP 145 DC</u>		
PRESSURE	<u>1750</u>		JET VEL	<u>375 FT/SEC</u>		
			BIT M.P	<u>64 FT/MIN</u>		

DAILY DRILLING REPORT

REPORT NO. 43
 A.M. DATE 6-26-80
 WELL NO. 11-36

FIELD GRASS VALLEY 24 HR. PERIOD ENDING _____
 LEASE USA
 DATE SPURRED _____ DAYS SINCE SPURRED IN 42
 DEPTH 8421 FORMATION amphibolite HOLE MADE 165 HRS. DRLG. 25
 MUD WT. 9 VIS. 35 WL 13 CHL 100 TYPE gel LCM _____
 OIL _____ SD 14 PV 13 YP 12 SOLIDS 4.5 PH 10.8

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
8258	5 1/2			DRIVE				
8352	5 3/4			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA - ditto

23 hr drlg
1 survey

133 / 144 mud chiller on for 13 hr

MRT 237
238 @ 8352 mud chiller on

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>17</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>8161</u>
MAKE	<u>HTC</u>	FEET MADE	<u>260</u>
TYPE	<u>J-44</u>	HRS. DRILLED	<u>37 1/2</u>
SER. NO.	<u>148 BF</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>1-B 2-14</u>	REV. PER MIN.	<u>45</u>
		CONDITION	
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>504</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>99/143</u>
STROKES/MIN.	<u>80</u>	JET VEL.	<u>375</u>
PRESSURE	<u>1750</u>	BIT H.P.	<u>7.8</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ RIG NO. _____
 SIGNATURE _____

DAILY DRILLING REPORT

FIELD WUG/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 444
 LEASE USA A.M. DATE 6-27-80 WELL NO. 11-36
 DATE SPudded 5-15-80 DAYS SINCE SPudded IN _____
 DEPTH 8565 FORMATION AMTIBOLITE HOLE MADE 144 HRS. DRLG 21.5
 MUD WT 8.9 VIB. 32 WL 11 CHL. 1.00 TYPE GEL LCV _____
 OIL _____ SD .25 PV 5 TP 5" SOLIDS 2.6 PH 10.4

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEVI.	SIZE	HOLE SIZE	SEAT	F.C.	
8444			5'12"	DRIVE				
8565			5'12"	CONDUCTOR	20	26	320	
				SURFACE	13 7/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS 6-26-80

21 1/2 HRS. DRLG
1 1/4 HRS. CIRC AND CONDITION HOLE
1 1/4 HRS. SURVEY DEV.

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	<u>17</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>8161</u>
MAKE	<u>HTC</u>	FEET MADE	<u>404</u>
TYPE	<u>U-44</u>	HRS. DRILLED	<u>54</u>
SER. NO.	<u>148-BF</u>	WT. ON BIT	<u>38</u>
NO. & SIZE JETS	<u>13-14-14</u>	REV. PER MIN.	<u>45-50</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>504</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>99.0P 143.0C</u>
STROKES/MIN.	<u>80</u>	JET VE.	<u>378 FT/SEC</u>
PRESSURE	<u>1750</u>	BIT VE.	<u>6.7 FT/HC</u>

DRILLING CONTRACTOR _____

SIGNATURE Thomas Bedensted

RBM 2

DAILY DRILLING REPORT

FIELD WC GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 45
 LEASE USA A.M. DATE 6-28-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 44 WELL NO. 11-36
 DEPTH 8565 FORMATION ANTHOLITE HOLE MADE C HRS. DRILL. 0
 MUD WT. 9.0 VIS. 37 WL 10 CML 100 TYPE GEL LCM -
 OIL - SD NIL PV 7 YP 6 SOLIDS 5.0 PH 10.3

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>
				SURFACE	<u>133/8</u>	<u>17 1/2</u>	<u>2700</u>
				INTERMED.			
				OTHER			

REMARKS: BHA: SUB, SPEAR

- 5 HRS: POOH, SHORT TRIP TH 55' FILL
- 4 HRS: CIRC CONDITION HOLE AND MUD
- 3 1/2 HRS: POOH TO LOG SET BACK DRILL COLLARS
- 11 HRS: RUN TEMP SURVEYS, STUCK SAME ON SECOND RUN AT 5700' PULLED LINE INTO AT KEY SEAT
- 1 1/2 HR: MAKING UP FOUR PRONG SPEAR TO FISH WIRELINE AND INSTRUMENTS AT MIDNIGHT 12:00 AM 6-29-80

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CPM
MUD COST PREVIOUS \$		TODAY \$		TO DATE \$		
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$		
BIT NO.	<u>17</u>	DEPTH OUT	<u>8565</u>			
SIZE	<u>12 1/4</u>	DEPTH IN	<u>8161</u>			
MAKE	<u>HTC</u>	FEET MADE	<u>404</u>			
TYPE	<u>W-44</u>	HRS. DRILLED	<u>59</u>			
SER. NO.	<u>148-BF</u>	WT. ON BIT	<u>38-40</u>			
NO. & SIZE JETS	<u>13-14-14</u>	REV. PER MIN.	<u>45</u>			
LINER SIZE	<u>6</u>	CONDITION	<u>BT-6-4-1N</u>			
LENGTH STROKE	<u>16</u>	GAL PER MIN.	<u>-</u>			
STROKES/MIN.	<u>-</u>	AN. VEL.	<u>-</u>			
PRESSURE	<u>-</u>	JET VEL.	<u>-</u>			
		BIT H.P.	<u>-</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John W. Bordin Field

RBM 2

DAILY DRILLING REPORT

FIELD WUC / GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 46
 LEASE USA A.M. DATE 6-24-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 45 WELL NO. 1436
 DEPTH 8365 FORMATION ALTHUSOLITE HOLE MADE 0 HRS. DRLG. 0
 MUD WT. 9.0 VIS. 4.0 WL 10 CHL 100 TYPE GEL LCM
 OIL --- SD NIL PV 9 YN 11 SOLIDS 5.0 PM 10

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	<u>30</u>	<u>26</u>	<u>320</u>	
				SURFACE	<u>13 1/2</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA: SPEAR. Bot SUB. NW

6 HRS: T1H WITH SPEAR. PICKING UP WIRE LINE TO 8397' AT 6:00 CIRC.

4 HRS: PDPH. RECOVERED ALL OF FISH.

7 HRS: ATTEMPT TO RUN ELECTRIC LOGS. FAILED. REPAIRING SHORT IN LOG LINE OF DRESSER ATLAS

7 HRS: RUNNING DI, FL, BHC, RL, CAL AT MIDNIGHT 12:00 AM 6-20-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM
 MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	DEPTH OUT	DEPTH IN
SIZE	FEET MADE	
MAKE	HRS. DRILL ED	
TYPE	WT. ON BIT	
SER. NO.	REV. PER MIN.	
NO. & SIZE JETS	CONDITION	
LINER SIZE	GAL. PER MIN.	<u>536</u>
LENGTH STROKE	AN. VEL.	<u>105</u>
STROKES/MIN.	FT VEL.	
PRESSURE	BIT H.P.	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE Robert D. Bostwick RBH 2

DAILY DRILLING REPORT

REPORT NO. 47
 FIELD WIC/GRASS VALLEY 24 HR PERIOD ENDING MIDNIGHT 13 A.M. DATE 6-30-80
 LEASE USA WELL NO. 11-34
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 46
 DEPTH 8565 FORMATION ANTHROBOLITE HOLE MADE 8 HRS DRILLG. 0
 MUD WT. 9.0 VIS 46 WL 10 CHL 100 TYPE GEL LCM
 OIL - SD 111 PY 10 YF 11 SOLIDS 5.0 PH 10.0

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>520</u>	
				SURFACE	<u>1 3/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS _____

7 HRS: FINISH ELECTRICAL LOG (DRESSER ATLAS) CDL GR LOGS
17 HRS: RUNNING FRUIT WIRE LINE SERVICES, TEMP SURVEYS
BOTH STOPS, AND TRAVERS BARTS' AT MIDNIGHT 12:00 AM 7-1-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	DEPTH OUT
SIZE	DEPTH IN
MAKE	FEET MADE
TYPE	HRS. DRILLED
SER. NO.	WT. ON BIT
NO. & SIZE JETS	REV. PER MIN.
	CONDITION
LINER SIZE	GAL. PER MIN.
LENGTH STROKE	AN. VEL.
STROKES/MIN.	JET VEL.
PRESSURE	BIT H.P.

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John D. ...

RBM 2

DAILY DRILLING REPORT

FIELD W.C./GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 48
 LEASE LISA A.M. DATE 7-1-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 47 WELL NO. 11-56
 DEPTH 8565 FORMATION ANTHILLOLITE HOLE MADE _____ HRS. DRLG _____
 MUD WT. _____ VIS. _____ WL WATER CHL _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YF _____ SOLIDS _____ PH _____

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE CONDUCTOR	<u>20</u>	<u>26</u>	<u>30</u>	
				SURFACE INTERMED.	<u>13 3/8</u>	<u>17 1/2</u>	<u>2700</u>	
				OTHER				

REMARKS

4HRS: RUNNING CONTINUOUS TEMP SURVEY SUCCESSFULLY.
 2HRS: TIE W/ DC'S, HW, AND 10 STDS. OF 5" DP
 7HRS: PUGH LAYING DOWN: 10 STDS OF DP, 12 JTS HW, 12 JTS DC'S, 12 1/4 TOOLS STABL. REVERS ETC.
 1 1/2 HRS: TIE WITH 5" DP TO 7100'
 9 1/2 HRS: SET 50 SACK CUT PLUG CONSISTING OF 40% SSA-1, .75% CFR-2, 3% HR-7 AT 7100' 3:40 PM. PUGH SETTING BACK 2700' DP, LAYING DOWN THE REMAINDER. PICKED UP EZSY TOOL TIE WITH SAME SET AT 2572' 10:40 PM, PRESSURE UP BACK SIDE 500 PSI, BREAK DOWN FORMATION AT 900 PSI, SQUEEZED 130 SXS CUT CONSISTING OF 40% SSA-1, .75% CFR-2, GOT OFF OF EZSY, PULLED 1 STD, SPOTTED 30 SXS CUT CONSISTING OF 40% SSA-1, .75% CFR-2 ON TOP OF EZSY, CLEARED PIPE W/ 30 BK WATER AT MIDNIGHT 12:00 AM 7-2-80

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CFM

MUD COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____
 WELL COST PREVIOUS \$ _____ TODAY \$ _____ TO DATE \$ _____

BIT NO.	DEPTH OUT
SIZE	DEPTH IN
MAKE	FEET MADE
TYPE	HRS. DRILLED
SER. NO.	WT. ON BIT
NO. & SIZE JETS	REV. PER MIN.
	CONDITION

LINER SIZE 6 GAL. PER MIN. _____
 LENGTH STROKE 16 AN. VEL. _____
 STROKES/MIN. _____ JET VEL. _____
 PRESSURE _____ BIT H.P. _____

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

INR NC

RBY

2

DAILY DRILLING REPORT

FIELD W/GRASS VALLEY 24 HR. PERIOD ENDING NOON HURDLEAT REPORT NO. 20
 LEASE USA DATE 7-2-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 48 WELL NO. 11-36
 DEPTH 8565 FORMATION --- HOLE MADE --- MRS. DRLG ---
 MUD WT. --- VIS --- WL --- CHL --- TYPE --- LCM ---
 OIL --- SD --- PV --- WATER YF --- SOLIDS --- PH ---

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	20	26	30	
				SURFACE	13 1/4	17 1/2	27 00	
				INTERMED.				
				OTHER				

REMARKS: _____

4 HRS: POOH LAYING DOWN 81 JTS OF DP. 7 1/4" WITH 60 JTS, POOH LAYING DOWN SAME
 1 HR: AT 60' IN PICKED UP KELLEY, PUMPED 9 BBL'S WATER AHEAD, SET 30 SACK CUT PLUG CONSISTING OF 40% SSA-1, 75% CER-2, DISPLACED WITH 2 BBL'S OF WATER TO CLEAR LINES.
 5 HRS: WASHED B.O.E. CLEAN FOR SAFETY MEASURE, DISMANTLED AND SET OUT BOPE STACK IN 3 COMPONENTS, LOAD DRILL PIPE.
 2 HRS: CUT DEF C.S.G. HEAD, 6 1/2' BELOW SURFACE WELD ON CAP WITH HANDLE. RELEASED RIG AT 12:00 PM NOON 7-2-80
 D&A AT 8565' DEPTH
 LAST REPORT

MUD COST PREVIOUS \$		TODAY \$		TO DATE \$								
MUD COST PREVIOUS \$		TODAY \$		TO DATE \$								
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$								
BIT NO.	SIZE	MAKE	TYPE	SER. NO.	NO. & SIZE JETS	DEPTH OUT	DEPTH IN	FEET MADE	MRS. DRILLED	WT. ON BIT	REV. PER MIN.	CONDITION
LINER SIZE				GAL. PER MIN.				AN. VEL.				
LENGTH STROKE				JET VEL.				BIT M.P.				
STROKES/MIN.				PRESSURE				BIT M.P.				

DRILLING CONTRACTOR (BILL IN ON FIRST AND LAST REPORT) SIGNATURE [Signature] RBH 2