

FIELD Guadalupe 24 HR. PERIOD ENDING 12 Mid Night REPORT NO. 1
 LEASE US-15-80 A.M. DATE 8-15-80 WELL NO. _____
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN _____
 DEPTH 150' FORMATION GIT HOLE MADE 150 HRS. DRLG. _____
 MUD WT. 8.4 VIS. 52 WL _____ CHL _____ TYPE ST LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS 5 pH 12

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" Est; bit Sub. 5-8' DC over.
Spudded @ 8-P.M. 8-15-80
20 Hr. R.D. Mid Night
1 Hr. Rig Repair (Pock Sump)
3 Hr. D.D. to 150'
1

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>LTC</u>		FEET MADE	<u>150</u>		
TYPE	<u>OS3AJ</u>		HRS. DRILLED	<u>3</u>		
SER. NO.	<u>DC-655</u>		WT. ON BIT	<u>5-20</u>		
NO. & SIZE JETS	<u>2-20</u>		REV. PER MIN.	<u>60</u>		
	<u>1</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 USA A.M. DATE 5-16-80
 DATE SPUDDED 5-15-80 WELL NO. 1136
 DEPTH 325 FORMATION Sd. + Muel HOLE MADE 175 HRS. DRLG. 220
 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.		SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS:

1/4 Hr Survey @ 150
9:30 AM. D.L.R.
10 Jan Circ. - Lost Trip, w/ Hoses & Pumps "120"
Had 3 flats on hoses & using mud truck.
5/4 Hr. P.D. to form 80" casing Run 3 Jts @ 20"
Casing stop, tried to work down for bridge
0 P.O.H. w/ casing stand back & used mud 175
3/4 Hr. Made up 20" bit & T.I.H. 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>20</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>520</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. 12
 LEASE USA 11-36 A.M. DATE 5-17-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN _____ WELL NO. _____
 DEPTH 325 FORMATION _____ HOLE MADE _____ HRS. DRLG. _____
 MUD WT. 8.5 VIS. 45 WL _____ CHL _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YP _____ SOLIDS _____ pH _____

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

REMARKS:
 9 1/2 Hr. T.I.H + Ran from 80' - 130'
 2 Hr. Cir + Conn Head + W.O. stab.
 3 Hr. 400# P.V. 26" steel stab from 70' - to 325'
 4 1/2 Hr. R.V. + Ran 8 Jt + 20" 94# K55
 set 320'
 2 Hr. Cir + Run Newer + Cont w/ 200# Class G
 w/ 3% coal Cut in 2 line @ 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 U.S.A. 11-36 24 HR. PERIOD ENDING 11-15-80 A.M. DATE 5-18-80
 LEASE U.S.A. 11-36 WELL NO. _____
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 2
 DEPTH 325 FORMATION _____ HOLE MADE _____ HRS. DRLG. _____
 MUD WT. 8.8 VIS. 57 WL 35 CHL 300 TYPE 100 LCM _____
 OIL _____ SD _____ PV 10 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: ROH - Bit-F.S. - S.S. - 9" = 8" D.C. - COVER.
8 Hr. U.O.C.
1 1/2 Hr. Cut off 20" = 11.0. 20" R.D. Drill
1/2 Hr. Test 1 1/2 200' on R.D. with 4 1/2" mud.
1 1/2 Hr. R.D. test + TINTO 314' Test Cut.
2 Hr. D.R. Cont + Final 500' air & Cond. Mud.
1 Hr. P.O.H. to P.O. 54h.

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		DEPTH IN	<u>325</u>	
SIZE	<u>1 7/8"</u>	FEET MADE		HRS. DRILLED		
MAKE	<u>HTC</u>	WT. ON BIT		REV. PER MIN.		
TYPE	<u>OSG 1K</u>	CONDITION		GAL. PER MIN.	<u>75h</u>	
SER. NO.	<u>11V 276</u>	AN. VEL.		JET VEL.	<u>100-116</u>	
NO. & SIZE JETS	<u>3-20"</u>	BIT H.P.				
LINER SIZE	<u>6</u>					
LENGTH STROKE	<u>16</u>					
STROKES MIN.	<u>120 2 pumps</u>					
PRESSURE	<u>750</u>					

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

FIELD GRASS VALLEY 1260 24 HR. PERIOD ENDING _____
 LEASE USA REPORT NO. 5
 DATE SPUNDED 5-15- DAYS SINCE SPUNDED IN _____ A.M. DATE 5-19-80
 WELLS NO. 11-36
 DEPTH 1585 FORMATION granul-clay HOLE MADE 1260 HRS. DRLG. 20
 MUD WT. 9.1 VIS. 43 WL 21 CHL 100 TYPE 4-1/2 LCM _____
 OIL _____ SD 1 PV 11 YP 25 SOLIDS 4.5 PH 9

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

REMARKS: BHA bit sub, shock sub, IDC, stab, IDC, stab
10 DC lower

20 hr dials
1 hr ream 1536 to 1576
1 hr short trip
2 hr 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>2</u>	DEPTH OUT		DEPTH IN	<u>325</u>	
SIZE	<u>1 7/8</u>	FEET MADE		HRS. DRILLED		
MAKE	<u>HTC</u>	WT. ON BIT	<u>15-20</u>	REV. PER MIN.	<u>65</u>	
TYPE	<u>OSC 10J</u>	CONDITION		GAL. PER MIN.	<u>680</u>	
SER. NO.	<u>VV 378</u>	AN. VEL.	<u>59-68</u>	JET VEL.		
NO. & SIZE JETS	<u>3-20</u>	BIT H.P.	<u>63 1/2</u>			
LINER SIZE	<u>0</u>					
LENGTH STROKE	<u>16</u>					
STROKES/MIN.	<u>108</u>					
PRESSURE	<u>1000</u>					

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

FIELD Cross Valley

24 HR. PERIOD ENDING Midnight

REPORT NO. 6

A.M. DATE 5-20-80

LEASE USA

WELL NO. 36-11

DATE SPUDDED 5-

DAYS SINCE SPUDDED IN _____

DEPTH 2199

FORMATION Sd - Green - Gravel

HOLE MADE 614

HRS. DRG. 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°				20	26	320	
2039	1/4°			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS:

BHA. Some

20 Hr. Dily.
3 HA. 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>	<u>1857</u>
MAKE	<u>HTC</u>	<u>See</u>	FEET MADE	<u>1532</u>	<u>342</u>
TYPE	<u>CSC 316J</u>	<u>M44N</u>	HRS. DRILLED	<u>26 1/2</u>	<u>12</u>
SER. NO.	<u>VV 378</u>	<u>859910</u>	WT. ON BIT	<u>20</u>	<u>20</u>
NO. & SIZE JETS	<u>3-20</u>	<u>3-20</u>	REV. PER MIN.	<u>70</u>	<u>70</u>
			CONDITION	<u>2-2-1A</u>	
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>680</u>	
LENGTH 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 NA</u>	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

RIG NO.

SIGNATURE

DAILY DRILLING REPORT

FIELD LUC/GRASS VALLEY 24 HR. PERIOD ENDING HIGHWENT REPORT NO. 7
 LEASE USA A.M. DATE 5-21-80 WELL NO. 11-56
 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 FL 25 CHL 200 TYPE 2-5-6 LCM
 OIL - SD 5 PV 13 YP 26 SOLIDS 48 PH 9.2

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	P.C.
<u>2521</u>			<u>714</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: FLUORINE 122°
SECTION 119°

DEPTH: 2705 6:00AM
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>MAIN</u>	HRS. DRILLED	<u>33.5</u>
SER. NO.	<u>834910</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>756</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 H.P.	<u>191/HR</u>

DRILLING CONTRACTOR WILL SIGN ON FIRST AND LAST REPORT

SIGNATURE [Signature]

254 2

FIELD WC/GROSS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 821
 LEASE USA A.M. DATE 5-25-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED 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 EE4 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	9320	
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS BEFORE

6 HRS: DRILLING TO DEPTH OF 2705
3 HRS: CIRC
2 HRS: POOH AND T1H 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 SHOE
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>1 1/2</u>	DEPTH IN	<u>1857</u>
MAKE	<u>SEC</u>	FEET MADE	<u>848</u>
TYPE	<u>REGIN</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>800</u>	SET VEL.	
		DOWNP.	<u>12 FT/HR</u>

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

SIGNATURE [Signature]

RBH 2

DAILY DRILLING REPORT

REPORT NO. 9
 A.M. DATE 5-23-8
 WELL NO. 11-26

FIELD WC / GRASS Valley 24 HR. PERIOD ENDING _____
 LEASE USA

DATE SPUDED _____ DAYS SINCE SPUDED IN 8
 DEPTH 2705 FORMATION Clay + sand HOLE MADE _____ HRS. DRLG. _____
 MUD WT. 9.0 VIS. 42 WL 20 CHL 200 TYPE Gel 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, cond after getting csg to btm.
3 HR Cementing 13 3/8" at 2701' with
 18 bbls of water ahead followed by
 28 bbls Sepokite flush mixed
 1576 sx of 1110 Pearlite, 40% SSA
 .5% CFR-2, 3% Gel, .1% HR-7,
 .25 # per sack Flocc
 tail cement consisting of 185 sx
 class A, 40% SSA-1, .75 CFR2,
 .1% HR7, 25 #/sack of Flocc.
 Displace w 402 bbls mud, bumper
 plug, recover 25% of the 100%
 excess to surface, cement did not
 fall bench, in place at 4 AM
12 HR WOC
8 HR cut off 13 3/8" csg, set out 20"
 hydroil load out same break cement
 sheath, orange peel 20" + 30",
 drew top 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

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. DRLG. _____
 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>13 1/4</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA; BIT, Bit Sub, SNOCK SUB, 12-8" DC, XD

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

9 HRS: DRILLING

4 HRS: DOOH, AFTER SURVEY TO CHANGE BHA

2 HRS: CHANGE BHA

4 HRS: TIH TO 2798', REAM FROM 2798-3035. BECAUSE OF ADDITION OF STABILIZERS.

MIDNIGHT 12:00 AM
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>2 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>15/20</u>
NO. & SIZE JETS	<u>16/16/16</u>	REV. PER MIN.	<u>90</u>
		CONDITION	<u>100</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 TO FILL IN ON FIRST AND LAST REPORT

SIGNATURE 7 11 20 7 1 1

RBM

INIC NO 2

DAILY DRILLING REPORT

FIELD WCI GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT A.M. DATE 5-26-82
 LEASE USA WELL NO. 11-36
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 11
 DEPTH 3683 FORMATION CLAYSTONE HOLE MADE 546 HRS. DRLG. 23
 MUD WT. 9 VIS. 41 WL 26 CHL 150 TYPE Gel LCM _____
 OIL _____ SD 1.5 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.
<u>3222</u>			<u>1/4°</u>	DRIVE				
<u>3467</u>			<u>1/4°</u>	CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: Bat, bat sub, ss, 1 DC, stab, 1 DC, stab, 10 DC's @ XO

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>	DEPTH IN <u>2700</u>	FEET MADE <u>983</u>	HRS. DRILLED <u>33</u>	WT. ON BIT <u>20-25,000</u>
SIZE <u>12 1/4</u>	DEPTH IN	FEET MADE	HRS. DRILLED	WT. ON BIT	REV. PER MIN. <u>90</u>
MAKE <u>Reed</u>	DEPTH IN	FEET MADE	WT. ON BIT	REV. PER MIN.	CONDITION <u>done</u>
TYPE <u>FP51</u>	DEPTH IN	FEET MADE	WT. ON BIT	REV. PER MIN.	CONDITION
SER. NO. <u>900 YD1</u>	DEPTH IN	FEET MADE	WT. ON BIT	REV. PER MIN.	CONDITION
NO. & SIZE JETS <u>3 16's</u>	DEPTH IN	FEET MADE	WT. ON BIT	REV. PER MIN.	CONDITION
LINER SIZE <u>6</u>	GAL. PER MIN. <u>695</u>	AN. VEL. <u>DP-136' min</u>	JET VEL. <u>197-DC</u>	BIT H.P. RATE <u>28' / HR</u>	
LENGTH STROKE <u>16</u>					
STROKES/MIN. <u>110</u>					
PRESSURE <u>1800</u>					

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

DAILY DRILLING REPORT

FIELD LEACH H.S. (Grass Valley) REPORT NO. 13
 LEASE USA 24 HR. PERIOD ENDING _____ A.M. DATE 5-27-80
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN _____ WELL NO. 11-36
 DEPTH 3891 FORMATION Waystone HOLE MADE 208 HRS. DRLG. 10
 MUD WT. 9.0 VIS. 3-9 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.		SIZE	HOLE SIZE	SEAT	F.C.
3716	3/4			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA bit near bit 3rd reamer, shock out 1 DC
stab, 1 DC stab 10 DC cover 12 jts hoist
10 hrs drlg
4 hrs survey + POOH
1 TH to 2773
5 hr reaming 2778 to 3068
1 hr circ cold hole + mud
1 hr ream 3068 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>3-4-3/16</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>2.1 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 _____ REPORT NO. 14
 LEASE USA A.M. DATE 5-23-60
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN _____ WELL NO. 81-36
 DEPTH 4185 FORMATION craystone HOLE MADE 294 HRS. DRLG. 19
 MUD WT. 8.9 VIS. 2.5 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.		SIZE	HOLE SIZE	SEAT	F.C.
3966	1 1/4			DRIVE				
4025	1 1/4			CONDUCTOR				
4149	1 3/4			SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BAA ditto
3 1/2 ream + 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>3891</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 10-366 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% PV 7 YP 12 SOLIDS 4.8 PH 10.9

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
4254	1'12			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

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

12 Hr. Delg to 4254'
 4 Hr. P80H - Tight spot - 3590'-2860"
 2 Hr. TIA w/ New Bit to 2876' - @
 4 Hr. Reaming from 2876 - 4254 (Spotted)
 1 Hr. Delg

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>866W</u>	<u>BR 995</u>	WT. ON BIT	<u>25</u>	<u>25/35</u>	
NO. & SIZE JETS	<u>16's</u>	<u>16's</u>	REV. PER MIN.	<u>50</u>	<u>50</u>	
			CONDITION	<u>4-S-IN</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</u>		JET VEL.			
PRESSURE	<u>1700</u>		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 SPUDDED 4/15 DAYS SINCE SPUDDED 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 9.9

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 529.80'

22 1/2 hrs delg
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 1/4</u>	DEPTH IN	<u>4254</u>
MAKE	<u>ATC</u>	FEET MADE	<u>376</u>
TYPE	<u>3-33</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>
LINER SIZE	<u>4 1/2 6</u>	CONDITION	
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>630</u>
STROKES/MIN.	<u>100</u>	AN. VEL.	<u>123/179</u>
PRESSURE	<u>1600</u>	JET VEL.	
		BIT H.P.	<u>15.</u>

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

SIGNATURE _____

~~DAILY~~ DRILLING REPORT

FIELD LEACH H.S 24 HR. PERIOD ENDING _____ REPORT NO. 17
 LEASE USA A.M. DATE 5-31
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 16 WELL NO. 11-36
 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.		SIZE	HOLE SIZE	SEAT	F.C.
4647	2			DRIVE				
				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 + dn dily gear
15 hrs drlg
8 trip
1 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>6</u>	<u>7</u>	DEPTH OUT	<u>4730</u>	
SIZE	<u>HTC 12 1/4</u>	<u>12 1/4</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>3.1</u>	<u>9 1/4</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>123/179</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

FIELD W.C. GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 18
 LEASE LISA A.M. DATE 6-1-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 17 WELL NO. 11-36
 DEPTH 5300 FORMATION DAKOTA HOLE MADE 343 HRS. DRLG. 21 3/4
 MUD WT. 8.9 VIS. 45 WL 12 CHL 100 TYPE SEALED 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 1/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS BEFORE
21 3/4 HRS: DPLG
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>4930</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>25</u>			
NO. & SIZE JETS	<u>16-16-16</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>123.00 - 179.00</u>			
PRESSURE	<u>1700</u>	JET VEL.	<u>-</u>			
DRILLING CONTRACTOR		BIT H.P.	<u>15.7 FT/IN</u>			
FILL IN ON FIRST AND LAST REPORT		IRIG NO.	<u>2</u>			

RBM 2

FIELD LEACH 24 HR. PERIOD ENDING _____ REPORT NO. 18
 LEASE USA A.M. DATE 3-2
 DATE SPUDED _____ WELL NO. 11-26
 DEPTH 5300 FORMATION conglomerates DAYS SINCE SPUDED IN 17
 MUD WT. 8.9 VIS. 45 WL 12 HOLE MADE 343 HRS. DRLG. 21 3/4
 OIL _____ SD 14 PV 6 CHL 100 TYPE gel & sep LCM _____
 SOLIDS 4.0 pH 10

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

REMARKS:

21 3/4 drlg
1 short trips
1/4 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>with</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>048TX</u>	WT. ON BIT	<u>25</u>			
NO. & SIZE JETS	<u>3-16</u>	REV. PER MIN.	<u>60</u>			
		CONDITION	<u>6-4 in</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>630</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>12 3/4</u>			
STROKES/MIN.	<u>100</u>	JET VEL.				
PRESSURE	<u>1000</u>	BIT H.P.	<u>15.7</u>			

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

SIGNATURE _____

FIELD WC - (GRAND VALLEY) 24 HR. PERIOD ENDING 12 MIN A.M. DATE 6-2-80
 LEASE USA WELL NO. 11-34
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 18
 DEPTH 5526 FORMATION GRANITE HOLE MADE 226 HRS. DRLG. 18
 MUD WT. 8.9 VIS. 70 WL 15 CHL 150 TYPE CLAY-SANDSTONE
 OIL SD .25 PV 5 YP 5 SOLIDS 4 PH 11.2

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>5420</u>			<u>3'1/2</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, pool & fit for bit #8
~~1/2~~ 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		HRS. DRILLED	<u>18</u>	
MAKE	<u>SEC.</u>	WT. ON BIT		REV. PER MIN.	<u>65</u>	
TYPE	<u>3-86-7</u>	CONDITION			<u>INC.</u>	
SER. NO.	<u>931494</u>	LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>617</u>	
NO. & SIZE JETS	<u>15-15-15</u>	LENGTH STROKE	<u>16</u>	AN. VEL.	<u>121 D.P., 176 DC</u>	
		STROKES/MIN.	<u>98</u>	JET VEL.	<u>400 FT PER. Second</u>	
		PRESSURE	<u>1750</u>	FT. PER hr.	<u>12.5</u>	

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

DAILY DRILLING REPORT

FIELD WIC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 20
 LEASE USA A.M. DATE 6-3-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 19 WELL NO 11-36
 DEPTH 5832 FORMATION RYOLITE HOLE MADE 306 HRS. DRLG. 22
 MUD WT. 9.0 VIS. 40 WL 17 CHL 50 TYPE _____ LCM _____
 OIL _____ SD .25 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 3/4</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 HUD VELOCITY: 201.30 FT/MIN 5887 @ 6:00AM 6-4-80
ANNULAR PRESSURE LOSS: 19.93 PSI 3 1/4" DEVI
E.C.D. 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>586F</u>	HRS. DRILLED	<u>41</u>			
SER. NO.	<u>931-415</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>			
LINER 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 1818 NC 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 SPUDED 5-15-80 DAYS SINCE SPUDED IN 20 WELL NO. 11-36
 DEPTH 5976 FORMATION DYALITE HOLE MADE 144 HRS. DRLG. 13
 MUD WT. 8.9 VIS. 39 WL 15 CHL 150 TYPE GEL/SEP LCM -
 OIL - SD .25 PV 4 YP 1 SOLIDS 3.9 # 10.5

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
5887			3/4	DRIVE				
				CONDUCTOR	26	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: POOH W/ BIT #8, CHANGE STABILIZERS, DRESS REAMER WITH NEW CUTTERS, CHECK JARS AND SHOCK SUB. PICK UP BIT #9 TIH.

8 HRS: DRLG, TWISTED OFF

3 HRS: POOH, LEFT 12 1/4 REAMER AND BIT IN NOLE DUE TO FAILURE OF BIT SUB WASHED OUT

2 HRS: TIH TO SCREW 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.	50/60	55/60
			CONDITION	6.15/IN	INC
LINER SIZE	6		GAL. PER MIN.	61.7	
LENGTH STROKE	16		AN. VEL.	121 DP 176 DC	
STROKES/MIN.	98		JET VEL.	400 FT/SEC	
PRESSURE	1750		BIT W.P.	11.8 "/HR	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

IRIG NO

SIGNATURE

RBM

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 SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 21 WELL NO. 11-70
 DEPTH 6001 FORMATION GRANITE HOLE MADE 25 HRS. DRLG. 9
 MUD WT. 9.0 VIS. 40 WL 15 CHL 150 TYPE LCM
 OIL - SD .25 PV 9 YP 11 SOLIDS 4.0 PH 10.9

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

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

6 HRS: FISHING, T1H 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: T1H CHECKING TOOL JOINTS ON HEVI-WALL, HIT BRIDGE AT 5RTT' SPOT REAMED 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 ΔP : 9.07 #/GAL

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR	
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$	CFM		
BIT NO.	9	DEPTH OUT	-		
SIZE	12 1/4	DEPTH IN	5887		
MAKE	HTC	FEET MADE	114		
TYPE	J-33	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	INC.		
LINER SIZE	6	GAL. PER MIN.	440		
LENGTH STROKE	16	AN. VEL.	80 FT/HR DP - 116 FT/HR DC		
STROKES/MIN.	65	JET VEL.	260 FT/SEC		
PRESSURE	1100	BIT H.P.	2.78 HP		

FIELD W/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 23
 LEASE 115A A.M. DATE 6-6-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 22 WELL NO 11-36
 DEPTH 6062 FORMATION GRANITE, QUARTZ HOLE MADE 61-635 HRS. DRLG. 16
 MUD WT. 8.9 VIS. 39 WL 14 CHL. 125 TYPE GEL/SOLITE LCM
 OIL - SD NIL PV 5 YP 6 SOLIDS 3.9 PH 11.3

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	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, STABL, 10-8" DC'S
XO, DOWN, UP, DRLG JARS.

16 HRS. DRLG, WITH ONE MUD PUMP DUE TO ELECTRICAL FAILURE

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

6070' AT 6:00AM 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.	<u>9</u>	<u>10</u>	DEPTH OUT	<u>6062</u>		
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>5887</u>	<u>6062</u>	
MAKE	<u>HTC</u>	<u>HTC</u>	FEET MADE	<u>175</u>		
TYPE	<u>U-33</u>	<u>U-44</u>	HRS. DRILLED	<u>33</u>		
SER. NO.	<u>YE-304</u>	<u>2460P</u>	WT. ON BIT	<u>30</u>		
NO. & SIZE JETS	<u>14-15-15</u>	<u>14-15-15</u>	REV. PER MIN.	<u>65-75</u>		
LINER SIZE	<u>6</u>		CONDITION	<u>5-6-18 OUT</u>		
LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>554</u>		
STROKES/MIN.	<u>88</u>		AN. VEL.	<u>109 DP 153 DC</u>		
PRESSURE	<u>1800</u>		JET VEL.	<u>360 FT/SEC</u>		
			DRILL RATE	<u>4 FT/HR</u>		

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE [Signature]

RBM 1916 NO 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 GRAVITE-QUARTZITE HOLE MADE 98 HRS. DRILG. 28
 MUD WT. 8.9 VIS. 45 WL 12 CHL 12.5 TYPE GEL-SPUR LCM
 OIL - SD ALL 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: BHA: SAME AS 6-6-80

2 1/2 HRS: T1H TO 6002
1/2 HR: REAM TO 6062
1 HR: CIRC AND SURVEY
20 HRS: DRILG 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*/GAL

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-24</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>109.00 - 158.05</u>		
STROKES/MIN.	<u>88</u>	JET VE.	<u>360 FT/SEC</u>		
PRESSURE	<u>1800</u>	BIT VE.	<u>4.9 FT/HR</u>		

DRILLING CONTRACTOR SIGN IN ON FIRST AND LAST REPORT

SIGNATURE Richard B. Bickel

RBH 2

FIELD W/ GRASS VALLEY 24 HR. PERIOD ENDING Midnight 12 A.M. DATE 6-8-80 REPORT NO 25
 LEASE USA WELL NO 1-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 24
 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 DEVI.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
<u>6280</u>			<u>106000</u>	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: SAME AS 6-7-80

2.3 HPS: DPLG

1/2 HR: TRIP

1/2 HR: CIRC AND SURVEY

CRITICAL ANN VELOCITY: 355.73 FT/MIN

ANNULAR PRESSURE LOSS: 47.16 PSI

ECD DP : 9.14 #/GAL

MUD COST PREVIOUS \$		TODAY \$	TO DATE \$
WELL COST PREVIOUS \$		TODAY \$	TO DATE \$
BIT NO.	<u>10</u>		
SIZE	<u>12 1/4</u>		
MAKE	<u>HTC</u>		
TYPE	<u>4-44</u>		
SER. NO.	<u>DA-246</u>		
NO. & SIZE JETS	<u>14-15-15</u>		
LINER SIZE	<u>6</u>		
LENGTH STROKE	<u>16</u>		
STROKES/MIN.	<u>88</u>		
PRESSURE	<u>1800</u>		
DISCHARGE PRESSURE			
VOLUME OF AIR			CFM
DEPTH OUT	<u>6280</u>		
DEPTH IN	<u>6062</u>		
FEET MADE	<u>218</u>		
HRS. DRILLED	<u>43.25</u>		
WT. ON BIT	<u>35</u>		
REV. PER MIN.	<u>50</u>		
CONDITION	<u>BT-6-5-IN</u>		
GAL. PER MIN.	<u>554</u>		
AN. VEL.	<u>109 DP, 158 DC</u>		
JET VEL.	<u>360 FT/MIN</u>		
	<u>5.22 FT/HR</u>		

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE

[Handwritten Signature]

RBM

IRIG NO 2

DAILY DRILLING REPORT

FIELD U.C./GRASS VALLEY 24 HR. PERIOD ENDING HONOLULU 12 A.M. DATE 5-7-80 26
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 25
 DEPTH 6395 FORMATION GRANITE HOLE MADE 115 HRS. DRLG. 19 1/2
 MUD WT. 9.0 VIS. AD #L 12 CHL 100 TYPE CLAY-SEPIUM CM
 OIL - SD NIL PV 7 YP 4 SOLIDS 4 W. 0.7

L.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>320</u>	
				SURFACE	<u>13 3/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT, JUNK SUB, REAMER, SNACK 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>F4</u>	HRS. DRILLED	<u>19 1/2</u>
SER. NO.	<u>AE4459</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>
INNER SIZE	<u>6</u>	GAL. PER MIN.	<u>554</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>109-158</u>
STROKES MIN.	<u>88</u>	JET VEL.	<u>360 FT/SEC</u>
PRESSURE	<u>1800</u>	TEMP.	<u>5.9 FT/HR</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT: RDM RIG NO. 2
 SIGNATURE [Signature]

DAILY DRILLING REPORT

FIELD W/C GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 27
 LEASE USA A.M. DATE 6-10-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 26 WELL NO 11-3
 DEPTH 6528 FORMATION GRAVITE HOLE MADE 103 HRS. DRLG. 21
 MUD WT. 8.9 VIS. 39 WL 12 CHL 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.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
6528			1 1/2	CONDUCTOR	20	26	320	
				SURFACE	133 1/2	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: SAME AS 6-9-80

HRS: DRLG

1/2 HR: SURVEY

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

CRITICAL AV: 187.58 FT/MIN

TEMP: 138° F OUT

AP : 22.80 PSI

127° F IN

ECD : 8.97 #/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>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 4059</u>	WT. ON BI	<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 DP 150' DC</u>			
PRESSURE	<u>1500</u>	JET VE..	<u>326 FT/SEC</u>			
		BIT W.P.	<u>4.9 FT/HR</u>			

RSH

2

DAILY DRILLING REPORT

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 28
 LEASE USA A.M. DATE 6-11-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 27 WELL NO. 11-36
 DEPTH 6630 FORMATION GRAVITE HOLE MADE 102 HRS. DRLG. 20 1/2
 MUD WT. 9.0 VIS. 38 WL 12 CHL 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>		
SIZE	<u>12 1/4</u>		
MAKE	<u>SEC</u>		
TYPE	<u>H-89 TF</u>		
SER. NO.	<u>828150</u>		
NO. & SIZE JETS	<u>15 15-15</u>		
LINER SIZE	<u>6</u>		
LENGTH STROKE	<u>16</u>		
STROKES/MIN.	<u>84</u>		
PRESSURE	<u>1500</u>		
DEPTH OUT			
DEPTH IN		<u>6528</u>	
FEET MADE		<u>102</u>	
HRS. DRILLED		<u>20 1/2</u>	
WT. ON BIT		<u>40</u>	
REV. PER MIN.		<u>40</u>	
CONDITION		<u>INC</u>	
GAL. PER MIN.		<u>529</u>	
AN. VEL.		<u>184 DP-150 DC</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] RBM

INITIALS

2

DAILY DRILLING REPORT

FIELD Wojcik Pass Valley 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 029
 LEASE USA A.M. DATE 6-12-80
 DATE SPUDDED 5-15-80 WELL NO. 11-36
 DEPTH 6755 FORMATION Granite DAYS SINCE SPUDDED IN 28
 MUD WT. 9 VIS. 37 WL 11 CHL 150 HRS. DRLG. 24
 OIL — SD — PV 11 YP 11 TYPE Gel LCM —
 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	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>6528</u>
MAKE	<u>SEC</u>	FEET MADE	<u>227 1/2</u>
TYPE	<u>M 89 TF</u>	HRS. DRILLED	<u>44 1/2</u>
SER. NO.	<u>828150</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>3 15s</u>	REV. PER MIN.	<u>40</u>
		CONDITION	<u>Ans.</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>542</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>106 DP 154 DC</u>
STROKES MIN.	<u>86</u>	JET VEL.	<u>338' / SECOND</u>
PRESSURE	<u>1700</u>	BIT H.P. RATE	<u>5.21' / HR.</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

RIG NO.

SIGNATURE

DAILY DRILLING REPORT

FIELD WC/GROSS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 30
 LEASE USA A.M. DATE 6-13-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 29 WELL NO. 11-36
 DEPTH 6857 FORMATION GRANITE HOLE MADE 102 HRS. DRLG. 17
 MUD WT. 9.0 VIS. 57 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.		SIZE	HOLE SIZE	SEAT	F.C.
6809			2 1/2°	DRIVE				
				CONDUCTOR	20	26	320	
				SURFACE	133/8	17 1/2	2900	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT REAMER, SHOCK SUB, 1 DC, 5TLB, 1 DC, 5TLB, 10 DC, X0, DOWN
JARS, UP JARS

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 IS 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.	<u>12</u>	<u>12</u>	DEPTH OUT	<u>6809</u>	
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>6528</u>	<u>6809</u>
MAKE	<u>SEC</u>	<u>SMITH</u>	FEET MADE	<u>281</u>	<u>48</u>
TYPE	<u>H-89-TF</u>	<u>F-5</u>	HRS. DRILLED	<u>54 1/2</u>	<u>7</u>
SER. NO.	<u>828150</u>	<u>AE-4397</u>	WT. ON BIT	<u>40</u>	<u>40</u>
NO. & SIZE JETS	<u>15-15-15</u>	<u>14-15-15</u>	REV. PER MIN.	<u>40</u>	<u>40</u>
			CONDITION	<u>1BT-4-5-IN</u>	<u>INC</u>
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>530</u>	
LENGTH STROKE	<u>16</u>		AN. VEL.	<u>104-DR 151-DC</u>	
STROKES/MIN.	<u>84</u>		JET VEL.	<u>345 FT/SEC</u>	
PRESSURE	<u>1750</u>			<u>16 FT/HR</u>	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John B. ...

RBM 2

FIELD GRASS 24 HR. PERIOD ENDING _____ REPORT NO. 31
 LEASE U.S.A. A.M. DATE 6-14-80
 DATE SPURRED _____ DAYS SINCE SPURRED IN 30
 DEPTH 7056 FORMATION granite HOLE MADE 197 HRS. DRLG. 20
 MUD WT. 7.0 VIS. 42 WL 12 CHL 100 TYPE 10 LCM _____
 OIL _____ SD _____ PV 14 YP 15 SOLIDS 2 pH 10.2

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 drlg 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>5057</u>		
SIZE	<u>12 1/4</u>	DEPTH IN	<u>5309</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>538</u>	JET VEL.	<u>235</u>		
PRESSURE	<u>1200</u>	BIT H.P.	<u>9.8</u>		

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

WELT DRILLING REPORT

FIELD George Valley 24 HR. PERIOD ENDING _____ REPORT NO. 72
 LEASE USA A.M. DATE 1-5-55
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 31 WELL NO. 1-5
 DEPTH 720.5 FORMATION granite HOLE MADE 144 HRS. DRLG. 21
 MUD WT. _____ VIS. 4.3 WL 14 CHL 100 TYPE ye LCM _____
 OIL _____ SD _____ PV 7 YP 7 SOLIDS 3.0 PH 10.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
721	374			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 1/4</u>	DEPTH IN <u>630.9</u>		
MAKE <u>Smith</u>	FEET MADE <u>376</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>		
	CONDITION <u>4-5-in</u>		
LINER SIZE <u>6</u>	GAL. PER MIN. <u>535</u>		
LENGTH STROKE <u>16</u>	AN. VEL. <u>75/133</u>		
STROKES MIN. <u>77</u>	JET VEL. <u>7.12</u>		
PRESSURE <u>1700</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 6-16-80
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN 32 WELL NO. _____
 DEPTH 7312 FORMATION granite HOLE MADE 107 HRS. DRLG. _____
 MUD WT. 9 VIS. 30 WL 13 CHL 100 TYPE _____ LCM _____
 OIL _____ SD _____ PV 7 YP _____ SOLIDS _____ pH _____

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

REMARKS: B4F = dited
5 1/2" lined 2004 chg bit RTH 11 feet
20 1/2" hole w/ bit 0214
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		DEPTH IN	<u>7205</u>
SIZE	<u>12 1/2</u>	FEET MADE		HRS. DRILLED	<u>20 1/2</u>
MAKE	<u>24</u>	WT. ON BIT		REV. PER MIN.	<u>50</u>
TYPE	<u>12 1/2</u>	CONDITION			<u>50</u>
SER. NO.	<u>928413</u>	LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>234</u>
NO. & SIZE JETS	<u>1-13 2-12</u>	LENGTH STROKE	<u>16</u>	AN. VEL.	<u>12499</u>
		STROKES MIN.	<u>30</u>	JET VEL.	<u>280</u>
		PRESSURE	<u>1750</u>	BIT H.P.	<u>52</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. 3
 LEASE USA 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 CHL. 100 TYPE GEL LCM -
 OIL - SD NIL PV 10 YP 9 SOLIDS 4 #10.8

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
7363			43/4	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	13 3/8	17 1/2	2700
				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 _____		CPM _____
MUD COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____		
WELL COST PREVIOUS \$ _____		TODAY \$ _____		TO DATE \$ _____		
BIT NO.	<u>14</u>	DEPTH OUT		DEPTH IN	<u>7205</u>	
SIZE	<u>12 1/4</u>	FEET MADE		HRS. DRILLED	<u>233</u>	
MAKE	<u>SEC</u>	WT. ON BIT		REV. PER MIN.	<u>40</u>	
TYPE	<u>H89TF</u>	CONDITION			<u>INC</u>	
SER. NO.	<u>928418</u>	LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>504</u>	
NO. & SIZE JETS:	<u>13-14-14</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>1750</u>	DISCHARGE	<u>5.36 FT/HR</u>	

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

SIGNATURE Richard Beckwith

RBM 2

REPORT NO. _____

FIELD Grass Valley 24 HR. PERIOD ENDING _____ REPORT NO. 35
 LEASE USA A.M. DATE 6-19
 DATE SPUNDED _____ WELL NO. 11-36
 DEPTH 7519 FORMATION granite DAYS SINCE SPUNDED IN _____ HOLE MADE 81 HRS. DRLG. 1672
 MUD WT. 89 VIS. 38 WL 15 CHL 100 TYPE gel LCM _____
 OIL _____ SD _____ PV 9 YP 3 SOLIDS % 41 pH 10.5

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

REMARKS: BHA bit reamer bit sub short sub, 1 DC stab also 1 DC stab 10 DC cover
3/4 drlg with bit #14
1/2 subvey
6 3/4 POOH by bit reamers + stab RTH no fill
13 1/4 RTH drlg 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>	<u>7</u>	
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>7205</u>	<u>7455</u>	
MAKE	<u>See</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 _____ REPORT NO. 36
 LEASE USA A.M. DATE 0-19
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN _____ WELL NO. 11-36
 DEPTH 7635 FORMATION gaburo 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

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
7550	5 1/4			DRIVE				
				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 4267</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>4.9</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 57
 LEASE USA A.M. DATE 6-20-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN _____ WELL NO 11-36
 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 _____ SD - PV 12 YP 11 SOLIDS 48 PH 10.5

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>7643</u>			<u>4 3/4°</u>	DRIVE			
<u>7733</u>			<u>5°</u>	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: 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>6</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7455</u>
MAKE	<u>SMITH</u>	FEET MADE	<u>282</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>59 3/4</u>
SER. NO.	<u>DE-42169</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>470</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>92 DP 134 DC</u>
STROKES/MIN.	<u>75</u>	JET VEL.	<u>352 FT/SEC</u>
PRESSURE	<u>1750</u>	BIT H.P.	<u>4.5 FT/HR</u>

DRILLING CONTRACTOR - FILL IN ON FIRST AND LAST REPORT

IRIG NO

RBM 2

FIELD WC/ GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 58
 LEASE USA A.V. DATE 6-21-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 37 WELL NO 11-36
 DEPTH 7809 FORMATION GRANITE HOLE MADE 72 HRS. DRLG. 17
 MUD WT. 9.0 VIS 35 WL 14 CHL 100 TYPE GEL LCM -
 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	20	26	320
				SURFACE	13 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: BIT LINK SUB, REAMER, FLOAT. SUB, SHOCK SUB, 1-8" DC, STAB, 1-8" DC, STAB, 10 8" DC, XO DOWN JARS, UP JARS, XO, 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>AE3587</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, 134 DC</u>		
STROKES/MIN.	<u>75</u>		JET VEL.	<u>352 FT/SEC</u>		
PRESSURE	<u>1750</u>		BIT H.P.	<u>423 FT/HR</u>		

DRILLING CONTRACTOR: FILL IN ON FIRST AND LAST REPORT

RBM 2

39
6-22-80

LEASE USA WELL NO 11-36
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED 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 60 M 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 1/2	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 6:00 AM 6-23-80
IS 7950'

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	
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-5587</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>472</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>92 FT/MIN DP, 134 FT/MIN DC</u>
STROKES/MIN.	<u>75</u>	JET VEL.	<u>352 FT/SEC</u>
PRESSURE	<u>1750</u>	BIT H.P.	<u>4.89 FT/HP</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

SIGNATURE John A. Bodin

RBM 2

LOGGING REPORT

FIELD W. J. Cross Valley 24 HR. PERIOD ENDING Mid 120 REPORT NO. 40
 LEASE USA - 1136 WELL NO. 1F36 A.M. DATE 6-23-80
 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 as of 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				
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>I.N.C.</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/m D.C.</u>			
STROKES/MIN.	<u>55</u>	JET VEL.	<u>258/Sec.</u>			
PRESSURE	<u>1000</u>	BIT	<u>4.21' / hr.</u>			
DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)		RIG NO.		<u>2</u>		
SIGNATURE						

DAILY DRILLING REPORT

FIELD CU 24 HR. PERIOD ENDING _____ REPORT NO. 41
 LEASE USA A.M. DATE 6-24-50
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN _____ WELL NO. 11-36
 DEPTH 8144 FORMATION BASALT HOLE MADE 122 HRS. DRLG. 22 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.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
<u>8084</u>	<u>5 1/2°</u>			CONDUCTOR				
<u>8137</u>	<u>5 1/2°</u>			SURFACE				
				INTERMED.				
				OTHER				

REMARKS: RHA - sand

22 1/2 days with bit #16
1 1/2 survey

max temp ~ wellbore 213°

211 out 156° F
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	<u>-</u>		
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7,775</u>		
MAKE	<u>SMITH</u>	FEET MADE	<u>7,369</u>		
TYPE	<u>F 5</u>	HRS. DRILLED	<u>26 1/4</u>		
SER. NO.	<u>AE 3581</u>	WT. ON BIT	<u>35/38</u>		
NO. & SIZE JETS	<u>13, 14, 14</u>	REV. PER MIN.	<u>50</u>		
		CONDITION	<u>AW</u>		
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>474</u>		
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>92 DP</u>	<u>124 DC</u>	
STROKES/MIN.	<u>75</u>	JET VEL.	<u>352' / second</u>		
PRESSURE	<u>1750</u>	BIT #. RATE	<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.M. DATE 6-25-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 41 WELL NO 1126
 DEPTH 8258 FORMATION CASALT HOLE MADE 114 HRS. DRLG. 17 3/4
 MUD WT. 9.06 VIS. 46 WL 9 CHL 100 TYPE CEL LCM -
 OIL - SD 25 PV 23 TP 24 SOLIDS 4.8 # 9.8

B.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE CONDUCTOR	.20	36	320
				SURFACE	43 1/2	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BWA BIT REAMER, BIT SUB, SHOCK SUB, 1-8" DC, STBL, 1-8" DC, STBL, 10-8" DC, XC, DOWN JARS, UP JARS XC

17 3/4 HOURS: DRLE
6 HOURS: POOH FOR BIT CHANGE, DROP JUNK SUB, PICK UP BIT #17 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>SHIRH</u>	<u>HTC</u>	FEET MADE	<u>386</u>	<u>47</u>	
TYPE	<u>T-6</u>	<u>W-14</u>	HRS. DRILLED	<u>30</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>	
			CONDITION	<u>4-4-1N</u>	<u>11N</u>	
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>504</u>		
LENGTH STROKE	<u>16</u>		AN. VEL	<u>99 DP 143 DC</u>		
STROKES/MIN	<u>80</u>		JET VEL.	<u>375 FT/SEC</u>		
PRESSURE	<u>1750</u>		BIT H.P	<u>6.4 FT/MIN</u>		

DAILY DRILLING REPORT

FIELD GRASS VALLEY 24 HR. PERIOD ENDING _____ REPORT NO. 43
 LEASE USA A.M. DATE 6-26-80
 DATE SPUDDED _____ WELL NO. 11-36
 DEPTH 8421 FORMATION amphibolite DAYS SINCE SPUDDED IN 42
 MUD WT. 9 VIS. 35 WL 13 HOLE MADE 165 HRS. DRLG. 23
 OIL _____ SD 1/4 PV 13 CHL 100 TYPE gel LCM _____
 SOLIDS 4.8 pH 10.5

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>2.8</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. 444
 LEASE USA A.M. DATE 6-27-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN _____ WELL NO. 11-36
 DEPTH 8565 FORMATION MITHOLITE HOLE MADE 144 HRS. DRLE 21.5
 MUD WT 8.9 VIS. 32 WL 11 CHL 1.00 TYPE GEL LCV _____
 OIL _____ SD .25 PV 5 YF 5 SOLIDS 4.6 PH 10.4

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEY.	SIZE	HOLE SIZE	SEAT	F.I.
8444			5'12	DRIVE			
8565			5'12	CONDUCTOR	20	26	320
				SURFACE	13 3/8	17 1/2	2100
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-26-80

21 1/2 HRS. DRLE
1 1/4 HRS. CIRC AND CONDITION HOLE
1 1/4 HRS SURVEY DEY.

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>V-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 DP 143 DC</u>
STROKES/MIN. <u>80</u>	JET VE. <u>378 FT/SEC</u>
PRESSURE <u>1750</u>	SHAW. <u>6.7 FT/HC</u>

DRILLING CONTRACTOR P. IN IN 24 H. RET. AND LAB. REPORT

SIGNATURE [Signature]

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 SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 44 WELL NO. 11-36
 DEPTH 8565 FORMATION ANTHROPOLITE HOLE MADE 0 HRS. DRLL. 0
 MUD WT. 9.0 VIS. 37 WL 10 CHL 100 TYPE GEL LCM -
 OIL - SD NIL PV 7 YF 6 SOLIDS 5.0 # 10.3

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

REMARKS: BHA: SUB, SPEAR

5 HRS: POOH, SHORT TRIP, TIK 35' 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 \$		TO DATE \$		
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$		TO DATE \$		
BIT NO.	<u>17</u>	DEPTH OUT	<u>8565</u>	DEPTH IN	<u>8161</u>	
SIZE	<u>12 1/4</u>	FEET MADE	<u>404</u>	HRS. DRILLED	<u>59</u>	
MAKE	<u>HTC</u>	WT. ON BIT	<u>38-40</u>	REV. PER MIN.	<u>45</u>	
TYPE	<u>U-44</u>	CONDITION	<u>BT-6-4-1N</u>	GAL PER MIN.	<u>-</u>	
SER. NO.	<u>148-BF</u>	AN. VEL.	<u>-</u>	JET VEL.	<u>-</u>	
NO. & SIZE JETS	<u>13-14-14</u>	BIT H.P.	<u>-</u>			
LINER SIZE	<u>6</u>					
LENGTH STROKE	<u>16</u>					
STROKES/MIN.	<u>-</u>					
PRESSURE	<u>-</u>					

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John W. Bodin, Jr.

RBM 2

DAILY DRILLING REPORT

FIELD WUC / GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 46
 LEASE USA A.M. DATE 6-29-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 45 WELL NO. 1436
 DEPTH 8565 FORMATION ALTAIR POLITE HOLE MADE 0 HRS. DRLG 0
 MUD WT. 9.0 VIS. 40 WL 10 CHL 100 TYPE GEL LCM
 OIL - SD NIL PV 9 YF 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	30	26	320	
				SURFACE	63/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: SPEAR, BOT. SUB, HW

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

4 HRS: PDDH RECOVERED ALL OF FISH.

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

7 HRS: RUNNING DI, FL, BHC, RL, CAL AT MIDNIGHT 12:00AM 6-30-80

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. DRILED
SER. NO.	WT. ON BIT
NO. & SIZE JETS	REV. PER MIN.
	CONDITION
LINER SIZE	GAL. PER MIN. <u>536</u>
LENGTH STROKE	AN. VEL. <u>165</u>
STROKES/MIN. <u>8.5</u>	JET VEL. <u>-</u>
PRESSURE <u>1600</u>	BIT H.P. <u>-</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE

John D. [Signature]

RBH THIS NO 2

DAILY DRILLING REPORT

FIELD WIC/GROSS VALLEY 24 HR PERIOD ENDING MIDNIGHT 13 REPORT NO. 47
 LEASE USA A.M. DATE 6-30-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN 46 WELL NO. 1134
 DEPTH 8565 FORMATION AMTIBOLITE HOLE MADE E HRS DRLG. 0
 MUD WT. 9.0 VIS 46 WL 10 CHL 100 TYPE GEL LCM
 OIL - SB NIL PY 10 YF 11 SOLIDS 5.0 PH 10.0

DEPTH	E.C. SURVEYS			CASING RECORD				
	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</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) C.D.L. GR LOGS

17 HRS: RUNNING PRUIT WIRE LINE SERVICES, TEMP SURVEYS
 BOTH STOPS, AND TRAYERS CHARTS 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	DEPTH IN	FFFT MADE	HRS. DRILL ED	WT. ON BIT	REV. PER MIN.	CONDITION
SIZE							
MAKE							
TYPE							
SER. NO.							
NO. & SIZE JETS							
LINER SIZE	1 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 And. D. Beckler, Jr.

RBM IRIC NO. 2

DAILY DRILLING REPORT

FIELD WV/Grass Valley 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 48
 LEASE LISA A.M. DATE 7-1-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 47 WELL NO. 11-56
 DEPTH 8565 FORMATION ANTHROHITE 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>320</u>	
				SURFACE	<u>13 1/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS

4HRS: RUNNING CONTINUOUS TEMP SURVEY SUCCESSFULLY.
 2HRS: TTH WITH DC'S, HW, AND 10 STDS OF 5" DP
 7HRS: PDAH LAYING DOWN: 10 STDS OF DP, 12 JTS HW, 12 JTS DC'S, 12 1/4 Tools STABL. REAMERS ETC.
 1 1/2 HRS: TTH WITH 5" DP TO 7100'
 9 1/2 HRS: SET 50 SACK CUT PLUG CONSISTING OF 40% SSA-1, 75% CFR-2, 3% HRT
 AT 7100' 3:40 PM. PDAH SETTING BACK 2700' DP, LAYING DOWN THE RE-MAINDER. PICKED UP EZSY TOOL TTH 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 DEESY, PULLED 1 STD, SPOTTED 20 SXS CUT CONSISTING OF 40% SSA-1, 75% CFR-2 ON TOP OF EZSY, CLEARED PIPE W/ 130 SXS 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	DEPTH IN	FEET MADE	HRS. DRILLED	WT. ON BIT	REV. PER MIN.	CONDITION
SIZE							
MAKE							
TYPE							
SER. NO.							
NO. & SIZE JETS							
LINER SIZE <u>6</u>	GAL. PER MIN. _____						
LENGTH STROKE <u>16</u>	AN. VEL. _____						
STROKES/MIN. _____	JET VEL. _____						
PRESSURE _____	BIT H.P. _____						

DRILLING CONTRACTOR (UN) WILL IN ON FIRST AND LAST REPORT

INITIALS

RBH

2

DAILY DRILLING REPORT

NOV

FIELD WHEATSS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 29
 LEASE USA DATE 7-2-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 48 WELL NO. 11-36
 DEPTH 8565 FORMATION --- HOLE MADE --- MRS. DRLG ---
 MUD WT. --- VIS --- WL --- CHL --- TYPE --- LCM ---
 OIL --- SD --- PY WATER YP --- SOLIDS --- WT ---

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

REMARKS:

4 HRS: POOH LAYING DOWN 81 JTS OF DP. TH WITH 60 JTS, POOH LAYING DOWN SAFE
 1 HR: AT 60' IN PICKED UP KELLEY PUMPED 9 BBL'S WATER AHEAD SET 30 SACK CUT PLUG CONSISTING OF 40% SSA-1 TO 70% CFR-2 DISPLACED WITH 2 BBL'S OF WATER TO CLEAR LINES.
 5 HRS: WASHED BOPE CLEAN FOR SAFETY MEASURE, DISMANTLED AND SET CUT BOPE STACK IN 3 COMPONENTS, LOAD DRILL PIPE.
 2 HRS: CUT OFF CSE 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

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR	
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$			
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$			
BIT NO.		DEPTH OUT			
SIZE		DEPTH IN			
MAKE		FEET MADE			
TYPE		MRS. 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 (BILL IN ON FIRST AND LAST REPORT)

SIGNATURE John D. Beckwith

RBM 2

DAILY DRILLING - WORKOVER LOG

LEASE / WELL

USA 11-36

Page 1

SUDDEN 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 Hydrill 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

DAILY DRILLING - WORKOVER LOG

LEASE / WELL

USA 11-36

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SPUDDED

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.

