

GLO2003

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NV/BCH/AMN-8

AREA
NV
Perish
Leach
Drill

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 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.
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			
5-20	2199	614	3/4	1764	9.0	37	Drilling, trip for bit, survey.
			1/2	2039			
			3/4	1513			
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

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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	
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.

FIELD 11/20 24 HR. PERIOD ENDING 12 Mid Night REPORT NO. 1
 LEASE 11/20 - 11/20 A.M. DATE 8-15-80 WELL NO. _____
 DATE SPUNDED 8-15-80 DAYS SINCE SPUNDED IN _____
 DEPTH 150' FORMATION SR HOLE MADE 150 HRS. DRLG. _____
 MUD WT. 8.4 VIS. 52 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	30	42	35	
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BOH = 26" bit; 2 1/2' Sect. S-E DC core.
Spun @ 8-PM. 8-15-80.
20 Hr. R.V. Miss Prod
1 Hr. Rig Repair (Pock Small)
3 Hr. Data for 150'
6

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>ETC</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>2-200</u>	REV. PER MIN.	<u>60</u>
		CONDITION	
LINEK 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 15 K A.M. DATE 5-16-80
 DATE SPURRED 5-15-80 WELL NO. 1126
 DEPTH 325 FORMATION Sd. + shale DAYS SINCE SPURRED IN _____
 MUD WT. 55 VIS. 45 HOLE MADE 175 HRS. DRLG. 78
 OIL _____ SD _____ WL _____ CHL _____ TYPE _____ LCM _____
 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
7:31 hr. No. Driller
10 hr. Circ. - Lost Trip. w/ blowers + casing 125'
Had 3 flats on lower casing about 100'
5 1/4 hr. (1) to run 20' casing Run 3 1/2 hrs @ 20"
Casing stop, tried to work inside by bridge
0 POOH w/ casing 5' back to level 125'
3/4 hr. Made up 20" bit & T.I.N. to 90'

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE		VOLUME OF AIR		CFM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$	TO DATE \$			
WELL COST PREVIOUS \$	TODAY \$					
BIT NO.	<u>RR</u>	DEPTH OUT	<u>325</u>			
SIZE	<u>2 1/2</u>	DEPTH IN	<u>0</u>			
MAKE	<u>NTC</u>	FEET MADE	<u>325</u>			
TYPE	<u>OS 3 AS</u>	HRS. DRILLED	<u>105 1/4</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. 2
 LEASE USA 11-36 A.M. DATE 5-12-50
 DATE SPUNDED 4-15-50 WELLS NO. _____
 DEPTH 725 FORMATION _____ DAYS SINCE SPUNDED IN _____
 MUD WT. 8.5 VIS. 45 HOLE MADE _____ HRS. DRLG. _____
 OIL _____ SD _____ PV _____ CHL _____ TYPE _____ LCM _____
 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.H. + Run from 80' - 130'
 2 Hr. Cir + Run Head + W.O. stab.
 3 Hr. 4004 P.V. 26" steel stab from 70' - to 325'
 4 1/2 Hr. 2 U. & Run 8 JT in 20" 4 1/2" K55
 set 320'
 2 Hr. Cir + Run Headers + Cont w/ 2005 + Cont G
 w/ 3% cut Cont in 2 hrs @ 9:45 AM
 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

FIELD USA 11-36 24 HR. PERIOD ENDING _____ REPORT NO. 3
 LEASE USA 11-36 A.M. DATE 5-15-80 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 _____ TYPE _____ LCM _____
 OIL _____ SD _____ PV _____ YP 21 SOLIDS _____ pH 10.5

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

REMARKS: 20 H - Bit - F.S. - S.S. - 9 = 8" D.C. - COVER.
8 H. U.I.O.C.
1 1/2 H. Cut off 20" - U.V. 20" R. Drill
1/2 H. Tec - 1 1/8 200° on No. 1000 + 1/2 inch.
1 1/2 H. R.I. + T.I.H.T. 314' Tra. Cont.
2 H. D.K. Cont + Final 500' in + Cond. Mud.
1 H. P.O.H. in P.O. 5 1/2 h.

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>111 275</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>100-110</u>			
STROKES MIN.	<u>130</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 _____

535
1260

FIELD GRASS VALLEY 1260 24 HR. PERIOD ENDING _____
 LEASE USA
 DATE SPUNDED 5-15- DAYS SINCE SPUNDED IN _____
 DEPTH 1585 FORMATION marl-clay HOLE MADE 1260 HRS. DRLG. 20
 MUD WT. 7.1 VIS. 43 WL 21 CHL 100 TYPE 4-1/2 LCM _____
 OIL _____ SD 1 PV 11 YP 25 SOLIDS 4.5 pH 9

REPORT NO. 5
 A.M. DATE 11-19-50
 WELL NO. 11-36

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 bit sub, shock sub, IDC, stab, IDC, stab
10 DC lower

20 hr dals
1 hr rehm 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>17X</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 16J</u>	CONDITION			
SER. NO.	<u>VV 378</u>				
NO. & SIZE JETS	<u>3-20</u>				
LINER SIZE	<u>0</u>	GAL. PER MIN.	<u>650</u>	AN. VEL.	<u>59-68</u>
LENGTH STROKE	<u>16</u>	JET VEL.		BIT H.P.	<u>63 1/2</u>
STROKES/MIN.	<u>108</u>				
PRESSURE	<u>1000</u>				

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

FIELD Gross Valley 24 HR. PERIOD ENDING Midnight REPORT NO. 6
 LEASE USA DATE 5-20-80 WELL NO. 36-11
 DATE SPUDED 5- DAYS SINCE SPUDED IN _____
 DEPTH 2199 FORMATION Sd - Green - Green 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.		SIZE	HOLE SIZE	SEAT	F.C.
1764	3/4°			DRIVE	20	26	320	
2039	1/4°			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA. Some

20 Hr. Delay
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>RSC 316J</u>	<u>M 44N</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>600</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>21 PPM</u>		

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

SIGNATURE _____

DAILY DRILLING REPORT

FIELD LUCY GRASS VALLEY 24 HR. PERIOD ENDING HIGHWATER REPORT NO. 7
 LEASE 1517 DATE 5-21-80 A.M. DATE 5-21-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 6 WELL NO. 11-36
 DEPTH 2634 FORMATION SAND-CLAY HOLE MADE 435 MRS. DRLG. 23
 MUD WT. 9.0 VIS. 38 FL 25 CHL 200 TYPE 236 LCM
 OIL — SD 5 PV 15 YP 26 SOLIDS 48 M 9.2

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>2521</u>			<u>1/4</u>				
				DRIVE			
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>320</u>
				SURFACE			
				INTERMED.			
				OTHER			

REMARKS: R.H.D. SAME AS BEFORE

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

TEMP: FLOWLINE 122°
 SECTION 119°
 (DEPTH: 2705 6:00 AM
 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 1/4</u>	DEPTH IN	<u>1857</u>
MAKE	<u>SECURITY</u>	FEET MADE	<u>777</u>
TYPE	<u>HEAVY</u>	MRS. DRILLED I	<u>35.5</u>
SER. NO.	<u>859710</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>5</u>	GAL. PER MIN.	<u>750</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>67.00 76.00</u>
STROKES MIN.	<u>120</u>	JET VEL.	
PRESSURE	<u>1300</u>	BIT H.P.	<u>241/2</u>

DRILLING CONTRACTOR WILL SIGN ON FIRST AND LAST REPORT

SIGNATURE [Signature] RSH 2

FIELD WC/GROSS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO. 822
 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 CEL LCM
 OIL - SD 5 PV 11 YP 26 SOLIDS 4.5 PH 9.2

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				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 THT CLEAN UP RUN NO FILL

2 HRS: PIG UP TO LIN 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>17 1/2</u>	DEPTH IN	<u>1857</u>			
MAKE	<u>SEC</u>	FEET MADE	<u>848</u>			
TYPE	<u>WAIN</u>	HRS. DRILLED	<u>11</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>			
		CONDITION	<u>1-7- IN</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>750</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>670P - 76DC</u>			
STROKES/MIN.	<u>120</u>					
PRESSURE	<u>1300</u>					
			<u>12 PPH</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE [Signature]

RBH

IRIG NO. 2

DAILY DRILLING REPORT

FIELD: WC / GRASS Valley 24 HR. PERIOD ENDING _____
 LEASE: USA REPORT NO. 49
 A.M. DATE 5-23-8
 WELL NO. 11-26
 DATE SPUDDED _____ DAYS SINCE SPUDDED 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.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	20	26	320	
				SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: 1 HR Circ, cont after getting csg to btm.
 3 HR Cementing 13 3/8" at 2701' with
 18 bbl's of water ahead followed by
 28 bbl's of diposite fluid mixed
 15.76 sx of 1110 Pearlite, 40% SSA
 .5% CFR-2, 3% gel, 1% HR-7,
 .25 # per sack floccle
 tail cont consisting of 185 sx
 class 2, 40% SSA-1, .75 CFR 2,
 .1% HR 7, 25 #/100 of floccle
 Displace w 402 bbl's mud, bumper
 plug, recover 25% of the 100%
 excess to surface cont did not
 fall bench, in place at 4 AM
 12 HR WOC
 8 HR cut off 13 3/8" csg set at 20"
 hydroil load out same break cont
 sheath orange peel 30" + 30",
 draw Ep of 13 3/8" csg set on WKM

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
11-36

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 .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 + supply up
 chg raw blocks in H+H gate
 as they were upside down,
 rebuild of hill line + manifold
 line,
3 HRS Run in test plug, test bleed
 runs to 1000 PSI for 30 min
 in presence of W.B.S man,
 at midnight

NUMBER OF COMPRESSORS _____		DISCHARGE PRESSURE _____		VOLUME OF AIR _____		CEM _____	
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.					
LENGTH STROKE	<u>16</u>	AN. VEL.					
STROKES/MIN.		JET VEL.					
PRESSURE		BIT H.P.					

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

DAILY DRILLING REPORT

FIELD WVC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 11
 LEASE USA A.M. DATE 5-25-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 10 WELL NO. 11-36
 DEPTH 3136 FORMATION CLAYSTONE HOLE MADE 1136 HRS. DRLG. -
 MUD WT. 8.8 VIS. 42 WL 30 CHL 150 TYPE GEL LCM -
 OIL - SD 15 PV 13 YP 19 SOLIDS 3.2 PH 11.3

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

REMARKS: BHA: BIT, Bit Sub, Snock Sub, 12-8" DC, X0

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

9 HRS: DRILLING

4 HRS: PDDH, AFTER SURVEY TO CHANGE BHA

2 HRS: CHANGE BHA

4 HRS: TIH TO 2798', REAM FROM 2798-3005, BECAUSE OF ADDITION OF STABILIZERS.

MIDNIGHT PDDH
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>12 1/4</u>	DEPTH IN	<u>2700</u>
MAKE	<u>REED</u>	FEET MADE	<u>1136</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 WILL SIGN ON FIRST AND LAST REPORT

SIGNATURE 711-1-1

RBH

INIG NC

2

DAILY DRILLING REPORT

FIELD WCF 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 5673 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.
<u>3222</u>			<u>1/4°</u>	DRIVE				
<u>3467</u>			<u>1/4°</u>	CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA: Bad, but sub, ss, 1 DC, stab, 1 DC, stab, 10 DC'S @ x0

27 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>2200</u>			
MAKE	<u>Reed</u>	FEET MADE	<u>983</u>			
TYPE	<u>FP51</u>	HRS. DRILLED	<u>33</u>			
SER. NO.	<u>900 YD1</u>	WT. ON BIT	<u>20-25, 180</u>			
NO. & SIZE JETS	<u>3 16's</u>	REV. PER MIN.	<u>90</u>			
		CONDITION	<u>done</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 [Signature]

DAILY DRILLING REPORT

FIELD LEACH H.S. (Grass Valley) 24 HR. PERIOD ENDING _____

LEASE USA

REPORT NO. 13

A.M. DATE 5-27-50

WELL NO. 11-36

DATE SPUDED _____

DAYS SINCE SPUDED IN _____

DEPTH 3891

FORMATION Wagonstone

HOLE MADE 208

HRS. DRLG. 10

MUD WT. 9.0

VIS. 3-7 WL 19

CHL 125

TYPE oil

LCM _____

OIL _____

SD 12

PV 7

YP 14

SOLIDS 4.0

PH 10.4

E.C. SURVEYS

DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.
3716	3/4		

CASING RECORD

SIZE	HOLE SIZE	SEAT	F.C.
DRIVE			
CONDUCTOR			
SURFACE			
INTERMED.			
OTHER			

REMARKS:

BHA bit near bit 3 at ranner, shock and 1 DC
 stab, 1 DC stab 10 DC cover 12 jts. brought

10 hrs dily

4 hrs survey + POOH

1 TH to 2773

5 hr reaming 2778 to 3068

1 hr circ cold hole + mud

1 hr slam 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>3091</u>
SIZE	<u>1 1/4</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>9004D1</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>21 FF/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 5-28-00
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN _____ WELL NO. 81-36
 DEPTH 4135 FORMATION carbonaceous HOLE MADE 294 HRS. DRLG. 19
 MUD WT. 8.9 VIS. 25 WL 15 CHL 100 TYPE gel 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>12/16</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>123/179</u>			
STROKES/MIN.	<u>100</u>	JET VEL.	<u>1800</u>			
PRESSURE	<u>1300</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 88-361 A.M. DATE 5-29-80
 DATE SPUDED 14 DAYS SINCE SPUDED IN _____ WELL NO. _____
 DEPTH 4294 FORMATION Siltstone Sandstone SOLE MADE 109 HRS. DRIG. 13
 MUD WT. 9.0 VIS. 90 WL 14 CHL 100 TYPE Gel LCM _____
 OIL _____ SD 14 2/3 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 - SS - 1-8" DC - stab - 1-8" DC -
stab - 10-8" DC xover. Jaws - H.W.

12 Hr. Drlg to 4254'
4 Hr. P804 - Tight Spot - 3590' - 2860'
3 Hr. TIA w/ New Bit to 2876' - 0
4 Hr Reaming from 2876 - 4254 (Spotted)
1 Hr. Drlg

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>J33</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>	
			CONDITION	<u>J-5-IN</u>		
LINER SIZE	<u>6</u>		GAL. PER MIN.	<u>630</u>		
LENGTH STROKE	<u>16</u>		AD. VEL.	<u>123-179</u>		
STROKES/MIN.	<u>100</u>		JET VEL.			
PRESSURE	<u>1700</u>		BIT H.P.	<u>8.3 FPM</u>		

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

FIELD LEACH H.S. 24 HR. PERIOD ENDING _____
 LEASE USA REPORT NO. 10
 DATE SPUDED _____ DAYS SINCE SPUDED IN 15 A.M. DATE 5-30
 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 529.80'

22 1/2 hrs dls
1 reaminal 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>HTC</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>
		CONDITION	
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.</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 _____ WELL NO. 11-36
 DEPTH 4957 FORMATION sand & basalt DAYS SINCE SPUDDED IN 16
 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 DC, stab,
1 DC, stab 10 DC, cover up + dndly jigs
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>HT 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>31</u>	<u>9 1/4</u>	
SER. NO.	<u>BR 995</u>	<u>04 BTX</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>3-4-2m</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 6-1-86
 DATE SPUDDED 5-15-86 DAYS SINCE SPUDDED IN 17 WELL NO. 11-36
 DEPTH 5300 FORMATION DAVOLT HOLE MADE 343 HRS. DRLG. 21 3/4
 MUD WT. 8.9 VIS. 45 WL 12 CHL. 100 TYPE GE. SERVICE LCM
 OIL - SD 0.25 PV 6 YP 6 SOLIDS 40 MH 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	<u>20</u>	<u>26</u>	<u>328</u>
				SURFACE	<u>13 1/2</u>	<u>17 1/2</u>	<u>2700</u>
				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

MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$	
BIT NO.	<u>1</u>	DEPTH OUT	<u>5300</u>	DEPTH IN	<u>4930</u>
SIZE	<u>12 1/4</u>	FEET MADE	<u>570</u>	HRS. DRILLED	<u>52</u>
MAKE	<u>SMITH</u>	WT. ON BIT	<u>25</u>	REV. PER MIN.	<u>66</u>
TYPE	<u>F3</u>	CONDITION	<u>6-4 IN</u>	GAL. PER MIN.	<u>630</u>
SER. NO.	<u>0487 X</u>	AN. VEL.	<u>123.00 - 179.00</u>	JET VEL.	<u>-</u>
NO. & SIZE JETS	<u>16-16-16</u>	BIT M.P.	<u>15.7 F/IN</u>		
LINER SIZE	<u>6</u>				
LENGTH STROKE	<u>16</u>				
STROKES/MIN.	<u>100</u>				
PRESSURE	<u>1700</u>				

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

RSB 2

FIELD LEACH 24 HR. PERIOD ENDING _____ REPORT NO. 18
 LEASE USA A.M. DATE 5-7
 DATE SPUDDED _____ DAYS SINCE SPUDDED IN 17
 DEPTH 5300 FORMATION conglomerates HOLE MADE 343 HRS. DRLG. 21 3/4
 MUD WT. 8.9 VIS. 45 WL 12 CHL 100 TYPE guar LCM _____
 OIL _____ SD 14 PV 6 YP 6 SOLIDS 40 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 data

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>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>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>620</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>128179</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 - (11000 ULLM) 1/4 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-SERPENTINE
 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>133/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: D23 BHA: SAME AS 4180
18 hrs drilling
5 hrs TRIP TIME, POOH & TIR 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>5-86-7</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>15-15-13</u>	LENGTH STROKE	<u>16</u>	AN. VEL.	<u>121 DP, 176 DC</u>	
		STROKES/MIN.	<u>78</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 SPUDED 5-15-80 DAYS SINCE SPUDED IN 19 WELL NO 11-36
 DEPTH 5852 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 WH 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>5169</u>			<u>30</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 6-2-80
22 HRS: DRILLING
1 HR: CIRC AND SURVEY
1 HR: SHORT TRIPS

CRITICAL HUD VELOCITY: 20130 FT/HR 5887 @ 6:00AM 6-4-80
ANNULAR PRESSURE LOSS: 14.93 PSI 3 1/4" DEV
ECD AP : 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.	<u>8</u>	DEPTH OUT	<u>-</u>			
SIZE	<u>1 1/4</u>	DEPTH IN	<u>5300</u>			
MAKE	<u>SEC</u>	FEET MADE	<u>532</u>			
TYPE	<u>5 86 F</u>	HRS. DRILLED	<u>44</u>			
SER. NO.	<u>931-40</u>	WT. ON BIT	<u>25</u>			
NO. & SIZE JETS	<u>15-15-15</u>	REV. PER MIN.	<u>55</u>			
		CONDITION	<u>1NC</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
 SIGNATURE RBH 1110 NC 2

DAILY DRILLING REPORT

FIELD WVC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 21
 LEASE USA A.M. DATE 6-4-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 20 WELL NO. 11-36
 DEPTH 5976 FORMATION RYOLITE HOLE MADE 1441 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 # 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 TIH.
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: 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.	<u>8</u>	<u>9</u>	DEPTH OUT	<u>5887</u>	<u>5976</u>
SIZE	<u>12 1/4</u>	<u>12 1/4</u>	DEPTH IN	<u>5300</u>	<u>5887</u>
MAKE	<u>SEC</u>	<u>HTC</u>	FEET MADE	<u>587</u>	<u>89</u>
TYPE	<u>S867</u>	<u>V33</u>	HRS. DRILLED	<u>45 1/4</u>	<u>8 1/4</u>
SER. NO.	<u>931495</u>	<u>VF 304</u>	WT. ON BIT	<u>25/30</u>	<u>25/30</u>
NC. & SIZE JETS	<u>15-15-15</u>	<u>14-15-15</u>	REV. PER MIN.	<u>50/60</u>	<u>55/60</u>
LINER SIZE	<u>6</u>		CONDITION	<u>6 1/5 IN</u>	<u>INC</u>
LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>61.7</u>	
STROKES/MIN.	<u>98</u>		AN. VEL.	<u>121 DD</u>	<u>176 DC</u>
PRESSURE	<u>1750</u>		JET VEL.	<u>400 FT/SEC</u>	
			DRY P.P.	<u>11.8 FT/HR</u>	

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ IRIG NO. 2
 SIGNATURE [Signature] RDM

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 11-36
 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 40 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	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, T1H, CIRC AT FISH, SCREW INTO FISH, ESTABLISHED CIRC PUMPED FISH FREE, CHAIN OUT, LAY DOWN FISH

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

3 HRS: T1H CHECKING TOOL JOINTS ON HEVI-WALL HIT BRIDGE AT 5RTT, SPOT REAMER TO T.D.

9 HRS: DRLG

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

CRITICAL HOD VELOCITY: 213 FT/HIN
 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 \$	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/HIN DP - 116 FT/HIN DC		
STROKES/MIN.	65	JET VEL.	260 FT/SEC		
PRESSURE	1100	BIT H.P.	2.78 #/HP		

FIELD UK/GRASS VALLEY 24 HR. PERIOD ENDING HIGHWATER 12 A.M. DATE 6-6-80 REPORT NO 23
 LEASE USA WELL NO 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 22
 DEPTH 6062 FORMATION GRANITE, QUARTZ HOLE MADE 61-421 HRS. DRIG. 16
 MUD WT. 8.9 VIS. 39 WL 14 CHL 125 TYPE GEL/SYNTH 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" DC, STAB, 1-8" DC, STAB, 10-8" DC'S
XC, Down, UP, DRIG WARS.

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

8 HRS. POOH ON EVEN STANDS, DRESSED NEAR BIT REAMER,
CHANGED OUT WORN OUT DRIG WARS. PARTIAL TURN
AT 12 AM HIGHWATER 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.	9	10	DEPTH OUT	6062		
SIZE	12 1/4	12 1/4	DEPTH IN	5887	6062	
MAKE	HTC	HTC	FEET MADE	175		
TYPE	J-23	J-44	HRS. DRILLED	33		
SER. NO.	YE-300	2460A	WT. ON BIT	30		
NO. & SIZE JETS	14-15-15	14-5-12	REV. PER MIN.	55-65		
LINER SIZE	6		CONDITION	5-6-18 OUT		
LENGTH STROKE	16		GAL. PER MIN.	55 1/2		
STROKES/MIN.	88		AN. VEL.	109 DP 158 DC		
PRESSURE	1800		JET VEL.	360 FT/SEC		
DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)			DRIP RATE	4 FT/HR		

SIGNATURE Chas. H. Bond, Jr. RBH 2

FIELD WIC / GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 A.M. DATE 6-7-80
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 23
 DEPTH 6160 FORMATION GRANITE - FLINTSIDE HOLE MADE 98 HRS. DRLG 28
 MUD WT. 8.9 VIS. 45 WL 12 CHL 12.5 TYPE GC-SPUD LCM
 OIL - SD WIC PV 12 YP 15 SOLIDS 3.9 PH 11.3

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

REMARKS: BUR: SAME AS 6-6-80

2 1/2 HRS: T/H TO 6002

1 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 #/GAL

MUD COST PREVIOUS \$		TODAY \$		TO DATE \$	
WELL COST PREVIOUS \$		TODAY \$		TO DATE \$	
BIT NO.	<u>10</u>	DEPTH OUT		DEPTH IN	<u>6070</u>
SIZE	<u>12 1/4</u>	FEET MADE	<u>98</u>	HRS. DRILLED	<u>28</u>
MAKE	<u>MTC</u>	WT. ON BIT	<u>35/40</u>	REV. PER MIN.	<u>40/55</u>
TYPE	<u>J-24</u>	CONDITION	<u>INC</u>	GAL. PER MIN.	<u>554</u>
SER. NO.	<u>DA-246</u>	AN. VEL.	<u>109 DP - 158 DK</u>	JET VE.	<u>320 FT/SEC</u>
NO. & SIZE JETS	<u>14-15 75</u>	PRESSURE	<u>1800</u>	BIT VE.	<u>4.9 FT/HR</u>
LINER SIZE	<u>6</u>	DRILLING CONTRACTOR SIGN IN ON FIRST AND LAST REPORT			
LENGTH STROKE	<u>16</u>	SIGNATURE <u>RBM</u> RIG NO. <u>2</u>			
STROKES/MIN.	<u>88</u>				

SIGNATURE

John T. Bicknell

FIELD W/ GRASS VALLEY 24 HR. PERIOD ENDING Midnight 12 AM DATE 6-8-80 REPORT NO 25
 LEASE USA WELDING 1-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 24
 DEPTH 6280 FORMATION GRANITE-QUARTZ HOLE MADE 120 HRS. DRLG. 23
 MUD WT. 9.0 VIS 45 #L 12 CHL 100 TYPE 6EL LCM
 OIL - SD N14 PV 20 YP 23 SOLIDS 4 PH 10.7

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
6280			106000	DRIVE			
				CONDUCTOR	20	26	328
				SURFACE	13 3/4	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>6067</u>			
MAKE	<u>HTC</u>	FEET MADE	<u>218</u>			
TYPE	<u>J-114</u>	HRS. 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>			
		CONDITION	<u>BT-6-5-IN</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>554</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>109 DP, 158 DG</u>			
STROKES/MIN.	<u>88</u>	JET VEL.	<u>3100 FT/MIN</u>			
PRESSURE	<u>1300</u>		<u>5.22 FT/HR</u>			

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE [Signature]

RBM 2

DAILY DRILLING REPORT

26

WELL W.C. GRASS VALLEY 24 HR. PERIOD ENDING HIGHWATER 12 A.M. DATE 6-7-80
 LEASE USA WELL NO. 11-36
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 25
 DEPTH 6295 FORMATION GRANITE HOLE MADE 115 HRS. DRLG. 19 1/2
 MUD WT. 9.0 VIS. 20 RL 17 CHL 100 TYPE CLAY-SLURRY CM
 OIL - SD NIL PV 7 TP 4 SOLIDS 4 M D.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: BIT, JUNK SUB, REAMER, SHOCK 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

TRIP: 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>	FT. 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>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>600</u>	WATER	<u>5.9 FT/HR</u>

DRILLING CONTRACTOR WILL SIGN ON FIRST AND LAST REPORT.
 SIGNATURE John P. Beckwith RBH 2

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 CH. 100 TYPE GEL LCM
 OIL - SD NIL PV 8 YP 9 SOLIDS 3.9 #M 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	328
				SURFACE	13 1/2	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-9-80

HRS: DRLLG

1/2 HR: SURVEY

2 1/2 HRS: PROH FOR BIT AND REAPER 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>SUITH</u>	FEET MADE	<u>248</u>
TYPE	<u>F4</u>	HRS. DRILLED	<u>40 1/2</u>
SER. NO.	<u>AE 4454</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. VE.	<u>104 FT 150° DC</u>
PRESSURE	<u>1500</u>	JET VE.	<u>326 FT/SEC</u>
		BIT VE.	<u>4.9 FT/HR</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

RBH RIG NO. 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 SPUDED 5-15-80 DAYS SINCE SPUDED 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 μ 16.7

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>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: T/H TO 6452
3/4 HR: REAMING AFTER TRIP
20 1/2 HRS: DRILLING

NUMBER OF COMPRESSORS		
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>102</u>
TYPE	<u>H-89 TF</u>	HRS. DRILLED	<u>20 1/2</u>
SER. NO.	<u>328150</u>	WT. ON BIT	<u>40</u>
NO. & SIZE JETS	<u>15 15-15</u>	REV. PER MIN.	<u>40</u>
		CONDITION	<u>INC</u>
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>529</u>
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>184 DP-150 DC</u>
STROKES/MIN.	<u>54</u>	JET VEL.	<u>326 FT/SEC</u>
PRESSURE	<u>1500</u>		<u>4.98 FT/HP</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)
 SIGNATURE [Signature] RBY INIC NO. 2

DAILY DRILLING REPORT

REPORT NO. 29
 FIELD W. C. G. RASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT A.M. DATE 6-12-81
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED 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.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				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 15.5</u>	REV. PER MIN.	<u>40</u>			
		CONDITION	<u>ANC.</u>			
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>542</u>			
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>106 DP</u>	<u>154 DC</u>		
STROKES/MIN.	<u>86</u>	JET VEL.	<u>338' / second</u>			
PRESSURE	<u>1700</u>	BIT M.P. RATE	<u>5.21' / 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 REPORT NO. 30
 LEASE USA A.M. DATE 6-13-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED 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 DEY.	SIZE	HOLE SIZE	SEAT	F.C.
6809			2 1/2°	DRIVE			
				CONDUCTOR	20	26	320
				SURFACE	133 3/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BND: BIT READER, SHOCK SUB, 1 DC, STLB, 1 DC, STLB, 10 DC, XO, DOWN
JARS, UP JARS

10 HRS: DRLG TO 6809'
3 HRS: SURVEY AND POOH
2 HRS: PICK UP CUP TESTER, TIH 60 TEST BOE FOR 30 MIN AT 1000'
1 1/2 HRS: TIH WITH BIT IS STOPPED AT 6793'
1/2 HR: BREAK CURS, 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	VRT-4-5-IN
12	12 1/4	SHITH	F-5	RE-4397	14-15-15			48	7	40	40	INC

LINER SIZE 6 GAL. PER MIN. 330
 LENGTH STROKE 16 AN. VEL. 104-DA 151-DX
 STROKES/MIN. 84 JET VEL. 345 FT/SEC
 PRESSURE 1750 16 FT/HR

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

SIGNATURE John Berlin

RBM 2

FIELD GRASS 24 HR. PERIOD ENDING _____ REPORT NO. 31
 LEASE USF A.M. DATE 6-14-80
 DATE SPUDDED _____ WELL NO. _____
 DEPTH 7056 FORMATION shale DAYS SINCE SPUDDED IN _____ HRS. DRLG. 30
 MUD WT. 7.0 VIS. 4-2 WL 12 CHL 100 TYPE J LCM _____
 OIL _____ SD _____ PV 14 YP 15 SOLIDS _____ pH 10.5

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

REMARKS: B-4A 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>5359</u>
MAKE	<u>Smith</u>	FEET MADE	<u>247</u>
TYPE	<u>F.S</u>	HRS. DRILLED	<u>31</u>
SER. NO.	<u>AE 4307</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>0</u>	GAL. PER MIN.	<u>300</u>
LENGTH STROKE	<u>0</u>	AN. VEL.	<u>72/104</u>
STROKES MIN.	<u>530</u>	JET VEL.	<u>235</u>
PRESSURE	<u>1700</u>	BIT H.P.	<u>4.5</u>

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

DRILLING REPORT

FIELD U.S. # 24 HR. PERIOD ENDING _____ REPORT NO. 32
 LEASE U.S. # A.M. DATE 5-5-52
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN 3 WELL NO. 5
 DEPTH 720 FORMATION Shale HOLE MADE 144 HRS. DRLG. 21
 MUD WT. _____ VIS. 4 WL 14 CHL 100 TYPE cc LCM _____
 OIL _____ SD _____ PV 7 YP 7 SOLIDS 35 PH 8.7

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
7121	5/4			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BAA = dither
21 dls w/ bit = 13
2 1/2 P.O.H. to the bit
1/2 survey
lost 35 gal mud @ 7127
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>Small</u>	FEET MADE	<u>89.6</u>		
TYPE	<u>F-5</u>	HRS. DRILLED	<u>5.2</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>65-100</u>		
LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>135</u>		
LENGTH STROKE	<u>16</u>	AN. VEL.	<u>75/138</u>		
STROKES MIN.	<u>77</u>	JET VEL.	<u>512</u>		
PRESSURE	<u>1700</u>	BIT H.P.	<u>2.1</u>		

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

FIELD Grand Valley 24 HR. PERIOD ENDING _____ REPORT NO. 33
 LEASE U.S.F. A.M. DATE 6-16-86
 DATE SPUDED _____ WELL NO. _____
 DAYS SINCE SPUDED IN 32
 DEPTH 732 FORMATION crystal HOLE MADE 107 HRS. DRLG. _____
 MUD WT. 4 VIS. _____ WL 13 CHL 13 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: R4F = fitted
5 1/2" lined 2004 chg bit RTH 11 1/2"
20 1/2" 4" hole w/ bit U=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		DEPTH IN	<u>7205</u>
SIZE	<u>12 1/2</u>	FEET MADE		HRS. DRILLED	<u>20 1/2</u>
MAKE	<u>211</u>	WT. ON BIT		REV. PER MIN.	<u>35</u>
TYPE	<u>1 1/2" - 5</u>	CONDITION			<u>1000</u>
SER. NO.	<u>928413</u>	LINER SIZE	<u>6</u>	GAL. PER MIN.	<u>135</u>
NO. & SIZE JETS	<u>1-13 2-14</u>	LENGTH STROKE	<u>16</u>	AN. VEL.	<u>100-195</u>
		STROKES/MIN.	<u>40</u>	JET VEL.	<u>350</u>
		PRESSURE	<u>1750</u>	BIT H.P.	<u>572</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. 32
 LEASE USA WELL NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED 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 - #10.8

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
<u>7363</u>			<u>43/4</u>	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 6-16-80

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

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

NUMBER OF COMPRESSORS		DISCHARGE PRESSURE	VOLUME OF AIR	CFM
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>H897F</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>	
LINER SIZE	<u>6</u>	CONDITION	<u>INC</u>	
LENGTH STROKE	<u>16</u>	GAL. PER MIN.	<u>504</u>	
STROKES/MIN.	<u>80</u>	AN. VEL.	<u>126</u>	
PRESSURE	<u>1750</u>	JET VE.	<u>310 FT/SEC</u>	
		DISCH. PRESS.	<u>5.36 FT/HR</u>	

DRILLING CONTRACTOR SIGN IN ON FIRST AND LAST REPORT

SIGNATURE [Handwritten Signature]
 R34

RIG NO. 2

FIELD Grass Valley 24 HR. PERIOD ENDING _____
 LEASE USA 11 A.M. DATE 6-13
 DATE SPUNDED _____ DAYS SINCE SPUNDED IN _____
 DEPTH 7519 FORMATION ORANGE HOLE MADE 81 HRS. DRLG. 16 1/2
 MUD WT. 89 VIS. 33 WL 15 CHL 100 TYPE oil LCM _____
 OIL _____ SD _____ PV 9 YP 3 SOLIDS 41 PH 10.5

REPORT NO. 35
 WELL NO. 11-36

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.		SIZE	HOLE SIZE	SEAT	F.C.
<u>7546</u>	<u>5 1/4</u>			DRIVE				
				CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BAA bit reamer bit cut short cut, 1 DC stab also 1 DC
stab 10 DC cover
3 1/2 drls with bit #14
1/2 outflow
6 3/4 POOH lg 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>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>923418</u>	<u>AE 4267</u>	WT. ON BIT	<u>40</u>		<u>50</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>
LINER SIZE	<u>6</u>		CONDITION	<u>1-2-14</u>		
LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>472</u>		
STROKES/MIN.	<u>75</u>		AN. VEL.	<u>92/132</u>		
PRESSURE	<u>1600</u>		JET VEL.	<u>352</u>		
			BIT H.P.	<u>5.3</u>		<u>48</u>

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

WELL DRILLING REPORT

FIELD Cross Valley

24 HR. PERIOD ENDING _____

REPORT NO. 36
A.M. DATE 6-17
WELL NO. 11-36

LEASE USM U

DATE SPUDED _____ DAYS SINCE SPUDED IN _____
DEPTH 7635 FORMATION sabino 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.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
<u>7550</u>	<u>5/4</u>			CONDUCTOR				
				SURFACE				
				INTERMED.				
				OTHER				

REMARKS: BHA ditto
23 1/2 deg
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>12/4</u>	DEPTH IN	<u>7455</u>
MAKE	<u>Smith</u>	FEET MADE	<u>180</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>27 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>4.9</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 12 A.M. DATE 6-20-80 REPORT NO. 57
 LEASE USA WELL NO. 11-36
 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 120 TYPE GEL LCM
 OIL - SD - PV 12 YP 11 SOLIDS 48 PH 10.5

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEY.	SIZE	HOLE SIZE	SEAT	F.C.
7643			4 1/4°	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>12</u>	DEPTH OUT	
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7455</u>
MAKE	<u>SUTCH</u>	FEET MADE	<u>282</u>
TYPE	<u>F-5</u>	HRS. DRILLED	<u>57 3/4</u>
SER. NO.	<u>HE-4267</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>11.0</u>	GAL. PER MIN.	<u>1570</u>
STROKES/MIN.	<u>15</u>	AN. VEL.	<u>92 DP 134 DC</u>
PRESSURE	<u>1750</u>	JET VEL.	<u>352 FT/SEC</u>
		BIT H.P.	<u>4.5 FT/HR</u>

DRILLING CONTRACTOR - FILL IN ON FIRST AND LAST REPORT

RBM 1810 MC 2

FIELD WC/ GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT 12 REPORT NO 58
 LEASE USA A.V. DATE 6-21-80
 DATE SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 57 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 DEVI.	DRIVE	SIZE	HOLE SIZE	SEAT	F.C.
				CONDUCTOR	20	26	320	
				SURFACE	13 3/8	17 1/2	2700	
				INTERMED.				
				OTHER				

REMARKS: BHA: BIT 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 TIH NO PROBLEMS
1 HR: CUT OFF DRILLING LINE

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

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	LINER SIZE	LENGTH STROKE	STROKES/MIN.	PRESSURE	GAL. PER MIN.	AN. VEL.	JET VE.	BIT H.P.
15	12 1/4	SMITH	F-5	AE4267	13-14-14	7775	7555	320	68 3/4	40	40	6-4-IN	10	16	75	1750	2175	92 DP, 1340C	352 FT/SEC	423 FT/HL
16	12 1/4	SMITH	F-5	AE5587	13-14-14	7775	7775	34	7 1/2	40	40	INC								

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT) _____ SIGNATURE RBU 2

39
6-22-80
11-36

LEASE USA WEL. NO. 11-36
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 38
 DEPTH 7924 FORMATION GRANITE HOLE MADE 115 HRS. DRLG. 23 1/2
 MUD WT 8.9 VIS. 38 WL 13 CHL. 100 TYPE EFL LCM -
 OIL - SD - PY 7 YP 7 SOLIDS 40 AM 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	13 3/4	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-21-80

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

DEPTH LIPOAM 6-23-80
IS 7950'

NUMBER OF COMPRESSORS _____ DISCHARGE PRESSURE _____ VOLUME OF AIR _____ CPG _____
 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>	HRS. 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>
		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. IX</u>
STROKES/MIN.	<u>7 1/2</u>	JET VEL.	<u>352 FT/SEC</u>
PRESSURE	<u>1750</u>	BIT M.P.	<u>4.89 FT/HR</u>

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

RBN 2

SIGNATURE John A. Bod... ..

DRILLING REPORT

FIELD W.S. Cross Valley 24 HR. PERIOD ENDING Mid 120 REPORT NO. 40
 LEASE USA - 11-36 A.M. DATE 6-23-80
 DATE SPURRED 5-15-80 DAYS SINCE SPURRED IN 39 WELL NO. 1736
 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 chills off
142 " chills 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>10</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 Dip, 98/m DC,</u>
STROKES/MIN.	<u>55</u>	JET VEL.	<u>258/sec.</u>
PRESSURE	<u>1000</u>	BIT HP	<u>4.217 Rev.</u>

DRILLING CONTRACTOR (FILL IN ON FIRST AND LAST REPORT)

RIG NO. 2

SIGNATURE _____

DAILY DRILLING REPORT

REPORT NO. 41
 FIELD C U 24 HR. PERIOD ENDING _____ A.M. DATE 6-24-90
 LEASE USA WELL NO. 11-36
 DATE SPUDED _____ DAYS SINCE SPUDED IN _____
 DEPTH 8144 FORMATION TRAPALC 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.		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

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

met temp on wellhead 213°

271 and 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	-		
SIZE	<u>12 1/4</u>	DEPTH IN	<u>7775</u>		
MAKE	<u>SMITH</u>	FEET MADE	<u>369</u>		
TYPE	<u>F 5</u>	HRS. DRILLED	<u>26 1/4</u>		
SER. NO.	<u>AE 3581</u>	WT. ON BIT	<u>25/38</u>		
NO. & SIZE JETS	<u>17, 14, 14</u>	REV. PER MIN.	<u>50</u>		
		CONDITION	<u>Asm.</u>		
LINER SIZE	<u>6</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 W. PKATE	<u>5.42' / HR</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 42
 LEASE USA A.M. 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. DRLG. 17314
 MUD WT. 9.06 VIS. 46 WL 9 CHL 100 TYPE GEL LCM ---
 OIL --- SD 25 PV 23 TP 24 SOLIDS 4.8 PH 9.8

Z.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE CONDUCTOR	20	36	320
				SURFACE	133/8	17 1/2	2700
				INTERMED.			
				OTHER			

REMARKS: BHA: BIT BEARER, BIT SUB, SNOCK SUB, 1-8" DC, STEEL, 1-8" DC STEEL, 10-8" DC, XG, DOWN JARS, UP JARS XG

17 3/4 HOURS: DPLE
6 HOURS: POOH FOR BIT CHANGE, DROP JUNK SUB, PICK UP BIT #17 T/H 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 S	TODAY S	TO DATE S	MUD COST PREVIOUS S	TODAY S	TO DATE S		
			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>
			MAKE	<u>SMITH</u>	<u>HTC</u>	FEET MADE	<u>386</u>
			TYPE	<u>F-6</u>	<u>13-14-14</u>	MRS. DRILLED	<u>36</u>
			SER. NO.	<u>AE-2581</u>	<u>148-BF</u>	WT. ON BIT	<u>35</u>
			NO. & SIZE JETS	<u>13-14-14</u>	<u>13-14-14</u>	REV. PER MIN.	<u>50</u>
			LINER SIZE	<u>6</u>		CONDITION	<u>D-L-1A</u>
			LENGTH STROKE	<u>16</u>		GAL. PER MIN.	<u>504</u>
			STROKES/MIN	<u>80</u>		AN. VEL	<u>99.70 143 DC</u>
			PRESSURE	<u>1750</u>		JET VEL	<u>275 FT/SEC</u>
			DRILLING CONTRACTOR	<u>RM</u>		BIT H.P	<u>6.22 FT/MIN</u>
						RPM	<u>2</u>

DAILY DRILLING REPORT

FIELD GRASS VALLEY 24 HR. PERIOD ENDING _____ REPORT NO. 43
 LEASE USA A.M. DATE 6-26-80
 DATE SPUDED _____ DAYS SINCE SPUDED IN 42 WELL NO. 11-36
 DEPTH 8421 FORMATION amphibolite HOLE MADE 165 HRS. DRLG. 25
 MUD WT. 9 VIS. 35 WL 13 CHL 100 TYPE oil LCM _____
 OIL _____ SD 1/4 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 \$		TO DATE \$		
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$		TO DATE \$		
BIT NO.	<u>17</u>	DEPTH OUT				
SIZE	<u>12 1/4</u>	DEPTH IN	<u>3161</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 1/4</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>29/143</u>			
STROKES/MIN.	<u>80</u>	JET VEL.	<u>375</u>			
PRESSURE	<u>1750</u>	BIT H.P.	<u>3.8</u>			

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

SIGNATURE _____

DAIY DRILLING REPORT

FIELD WC/GRASS VALLEY 24 HR. PERIOD ENDING MIDNIGHT REPORT NO. 444
 LEASE USA A.M. DATE 6-27-80
 DATE SPUDED 5-15-80 DAYS SINCE SPUDED IN _____ WELL NO. 11-36
 DEPTH 8565 FORMATION AMPHIBOLITE HOLE MADE 144 HRS. DRILL 21 1/2
 MUD WT 8.9 VIB 32 WL 11 CHL 1.00 TYPE GEL LCM _____
 OIL _____ SD .25 PV 5 TP 5 SOLIDS 46 MM 100

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.I.
<u>8444</u>			<u>5'12</u>	DRIVE			
<u>8565</u>			<u>5'12</u>	CONDUCTOR	<u>20</u>	<u>26</u>	<u>32E</u>
				SURFACE	<u>1578</u>	<u>17 1/2</u>	<u>2700</u>
				INTERMED.			
				OTHER			

REMARKS: BHA: SAME AS 6-26-80

21 1/2 HRS. DRILL
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-BE</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>	GA. 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>	BIT VE. <u>6.7 FT/HR.</u>

DRILLING CONTRACTOR _____ IN CHARGE AND LAST REPORT _____

SIGNATURE: [Signature]

RDM 2

DAILY DRILLING REPORT

FIELD W.C. 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 AMTICOLITE HOLE MADE 0 HRS. DRILL. 0
 MUD WT. 9.0 VIS. 37 WL 10 CHL 100 TYPE GEL LCM -
 OIL - SD NIL PV 7 YP 6 SOLIDS 5.0 # 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>520</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>U-24</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-IN</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: Robert H. ...

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 SPUDDED 5-12-80 DAYS SINCE SPUDDED IN 45 WELL NO. 1436
 DEPTH 5365 FORMATION ALTAHOLITE HOLE MADE 0 HRS. DRILL 0
 MUD WT. 9.0 VIS. 10 WL 10 CHL 100 TYPE GEL LCM
 OIL - SD NIL PV 9 YR 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>20</u>	<u>26</u>	<u>320</u>	
				SURFACE	<u>63/8</u>	<u>17 1/2</u>	<u>2700</u>	
				INTERMED.				
				OTHER				

REMARKS: BHA: SPEAR, Bot. SUB, NW

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

4 HRS: POOH 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, RI, CAL AT MIDNIGHT 12:00AM 6-20-80

NUMBER OF COMPRESSORS	DISCHARGE PRESSURE	VOLUME OF AIR	CPM
MUD COST PREVIOUS \$	TODAY \$	TO DATE \$	
WELL COST PREVIOUS \$	TODAY \$	TO DATE \$	
BIT NO.	DEPTH OUT		
SIZE	DEPTH IN		
MAKE	FEET MADE		
TYPE	HRS. DRILL ED		
SER. NO.	WT. ON BIT		
NO. & SIZE JETS	REV. PER MIN.		
	CONDITION		
LINER SIZE <u>6</u>	GAL. PER MIN. <u>536</u>		
LENGTH STROKE <u>16</u>	AN. VEL. <u>165</u>		
STROKES/MIN. <u>85</u>	JFT VEL.		
PRESSURE <u>1600</u>	BIT H.P.		

DRILLING CONTRACTOR FILL IN ON FIRST AND LAST REPORT

SIGNATURE John D. [Signature]

RBH 2

DAILY DRILLING REPORT

FIELD UIC/GROSS VALLEY 24 HR PERIOD ENDING MIDNIGHT 12 REPORT NO. 47
 LEASE USA A.M. DATE 6-30-80
 DATE SPUDDED 5-15-80 DAYS SINCE SPUDDED IN 46 WELL NO. 11-34
 DEPTH 8565 FORMATION ANTHROPOLITE HOLE MADE P HRS DRLG. 0
 MUD WT. 9.0 VIS 26 WL 10 CHL 100 TYPE GEL LCM
 OIL - SD 211 PV 10 YF 11 SOLIDS 5.0 PM 10-0

DEPTH	E.C. SURVEYS			CASING RECORD				
	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.	
				DRIVE				
				CONDUCTOR	<u>20</u>	<u>26</u>	<u>500</u>	
				SURFACE	<u>1 7/8</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 FRONT WIRE LINE SERVICES, TEMA SIEVEYS
BOTH STOPS, AND TRAVEL 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
SIZE	DEPTH IN
MAKE	FEET MADE
TYPE	HRS. DRILL ED
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 [Signature] IRIS NO. 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 SPUNDED 5-15-80 DAYS SINCE SPUNDED IN 47 WELL NO. 11-56
 DEPTH 8565 FORMATION ANTHROPITE HOLE MADE - HRS DRLG -
 MUD WT. - VIS. - WL WATER CHL - TYPE - LCM -
 OIL - SO - PV - YF - SOLIDS - PH -

E.C. SURVEYS				CASING RECORD				
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	DRIVE CONDUCTOR	SIZE	HOLE SIZE	SEAT	F.C.
					20	26	30	
				SURFACE	13 1/8	17 1/2	200	
				INTERMED.				
				OTHER				

REMARKS

4HRS: RUNNING CONTINUOUS TEMA SURVEY SUCCESSFULLY.
 2HRS: TIH W/ DC'S, HLL, AND 10 STDS OF 5" DP
 7HRS: POOH LAYING DOWN: 10 STDS OF DP, 12 JTS HLL, 12 JTS DC'S, 12 1/4 TONS STABL. REHERS ETC.
 11 1/2 HRS: TIH WITH 5" DP TR 7100'
 9 1/2 HRS: SET 50 SACK CMT PULG CONSISTING OF 40% SSA-1, .75% CFR-2, 3% HP-7 AT 7100' 3:40 PM. POOH SETTING BACK 2700' DP, LAYING DOWN THE REMAINDER. PICKED UP EZSY TOOL TIH WITH SAME SET AT 2572' 10:40 PM. PRESSURE UP BACK SIDE 500 PSI. BREAK DOWN FORMATION AT 900 PSI, SQUEEZED 130 SIS CMT CONSISTING OF 40% SSA-1, .75% CFR-2, GOT OFF DEBSY, PULLED 1 STD, SPOTTED 30 SIS CMT CONSISTING OF 40% SSA-1, .75% CFR-2 ON TOP OF EZSY, CLEARED PIPE W/ 30 BAR 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
SIZE	FEET MADE	HRS. DRILLED
MAKE	WT. ON BIT	REV. PER MIN.
TYPE	CONDITION	
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 BILL IN ON FIRST AND LAST REPORT. INIB NO. 2

RBU

DAILY DRILLING REPORT

FIELD UX/GRASS VALLEY 24 HR. PERIOD ENDING Midnight REPORT NO. 207
 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 --- HRS. DRLG ---
 MUD WT. --- VIS --- WL --- CHL --- TYPE --- LCM ---
 OIL --- SD --- PV WATER YF --- SOLIDS --- M ---

E.C. SURVEYS				CASING RECORD			
DEPTH	ANGLE	COURSE LENGTH	TOTAL DEV.	SIZE	HOLE SIZE	SEAT	F.C.
				DRIVE			
				CONDUCTOR	20	26	330
				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 BBLS WATER AHEAD, SET 30 SACK CUT PILE CONSISTING OF 40% SSA-1, 75% CFR-2, DISPLACED WITH 2 BBLS OF WATER TO CLEAR LINES.
 5 HRS: WASHED BOE CLEAN FOR SAFETY MEASURE, DISMANTLED AND SET CUT BOPE STACK IN 3 COMPONENTS, LOAD DRILL PIPE.
 2 HRS: CUT DEF 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		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 WILL SIGN IN ON FIRST AND LAST REPORT
 SIGNATURE Robert B. Bedard RBH 2