











LEASE <b>45-14</b>	WELL NO.	API WELL NUMBER	5	LOCALITY <b>Raflozor</b>	COUNTY <b>Humbolt</b>	STATE <b>NEVADA</b>	WIRE LINE RECORD	ASBL. NO.	NO. LINES	8	PT. CLIPPED		
OPERATOR <b>Grace Geothermal</b>	CONTRACTOR <b>Calwest Western</b>			LAST CASING TUBING ON LINER			SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	REV. TO C/C NO.	SET AT
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Sandy Ballan</i>	SIGNATURE OF CONTRACTOR'S TOOL PUSHER			FORMATION (SHOW CORE RECOVERY)			ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
D.P. SIZE	WT./YD	GRADE	TOOL JT O.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STRENGTH	TONG. OR TRIPS SINCE LAST CUT			CONCRETE TONG. OR TRIPS
3 1/2	13.30	E	4 1/2	IF	1	1	GD	FXN	14	278.57			
						2	Gardner Denver	FXN	14	278.57			

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORA	DAY	NO.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT
1	NO LIP AND YEAR DOWN			1	6 1/2	7.25	2:00	2:00	5:00
2	DRILL ACTUAL			1	6 1/2	7.16	2:00	2:00	5:00
3	BEARING	6 1/2		1	6 1/2	5.30	2:00	2:00	5:00
4	CORING			9	6 1/4	278.57	2:00	2:00	5:00
5	CONDITION MUD & CIRCULATE			1	40546	1.68	2:00	2:00	5:00
6	TRIPS			1	DHA	323.46	2:00	2:00	5:00
7	LUBRICATE RIG			14	STANDS DP	853	2:00	2:00	5:00
8	REPAIR RIG			1	SHOLES DP	30.65	2:00	2:00	5:00
9	DRILL LINE			1	KELLY DOWN	41	2:00	2:00	5:00
10	DEVIATION SURVEY	1 1/2	1 1/2	1	TOTAL	947.12	2:00	2:00	5:00
11	WIRE LINE LOGS			1	WT. OF STRING	48,000	2:00	2:00	5:00
12	RUN CASING & CEMENT			1	NO.	DRILLING ASSEMBLY	BIT RECORD	MUD RECORD	
13	WAIT ON CEMENT			1	BIT NO.	7.25	9:00	11:00	3:00
14	WIPPLES UP B.O.P.			1	SIZE	8 1/2	9:00	11:00	3:00
15	TEST B.O.P.			1	STB	31.00	9:00	11:00	3:00
16	DRILL STEM TEST			1	D.C.	5.30	9:00	11:00	3:00
17	PLUG BACK			1	STB	31.00	9:00	11:00	3:00
18	SQUEEZE CEMENT			1	D.C.	5.30	9:00	11:00	3:00
19	DRILL WORK			9	STB	278.57	9:00	11:00	3:00
20	TEST			1	STB	1.68	9:00	11:00	3:00
21	COMPLETION			1	STB	323.46	9:00	11:00	3:00
A	PERF'D TH			14	STANDS DP	853	9:00	11:00	3:00
B	THE TRIPS			1	SHOLES DP	30.65	9:00	11:00	3:00
C	TREATING			1	KELLY DOWN	41	9:00	11:00	3:00
D	SPACING			1	TOTAL	1253	9:00	11:00	3:00
E	TESTING			1	WT. OF STRING	50,000	9:00	11:00	3:00
F	ABST'D PL			1	NO.	DRILLING ASSEMBLY	BIT RECORD	MUD RECORD	
G				1	BIT NO.	7.25	4:00	8:00	11:30
				1	SIZE	8 1/2	4:00	8:00	11:30
				1	STB	31.00	4:00	8:00	11:30
				1	D.C.	5.30	4:00	8:00	11:30
				9	STB	278.57	4:00	8:00	11:30
				1	STB	1.68	4:00	8:00	11:30
				1	STB	323.46	4:00	8:00	11:30
				14	STANDS DP	853	4:00	8:00	11:30
				1	SHOLES DP	30.65	4:00	8:00	11:30
				1	KELLY DOWN	41	4:00	8:00	11:30
				1	TOTAL	1253	4:00	8:00	11:30
				1	WT. OF STRING	50,000	4:00	8:00	11:30
				1	NO.	DRILLING ASSEMBLY	BIT RECORD	MUD RECORD	
				1	BIT NO.	7.25	4:00	8:00	11:30
				1	SIZE	8 1/2	4:00	8:00	11:30
				1	STB	31.00	4:00	8:00	11:30
				1	D.C.	5.30	4:00	8:00	11:30
				9	STB	278.57	4:00	8:00	11:30
				1	STB	1.68	4:00	8:00	11:30
				1	STB	323.46	4:00	8:00	11:30
				14	STANDS DP	853	4:00	8:00	11:30
				1	SHOLES DP	30.65	4:00	8:00	11:30
				1	KELLY DOWN	41	4:00	8:00	11:30
				1	TOTAL	1253	4:00	8:00	11:30
				1	WT. OF STRING	50,000	4:00	8:00	11:30
				1	NO.	DRILLING ASSEMBLY	BIT RECORD	MUD RECORD	
				1	BIT NO.	7.25	4:00	8:00	11:30
				1	SIZE	8 1/2	4:00	8:00	11:30
				1	STB	31.00	4:00	8:00	11:30
				1	D.C.	5.30	4:00	8:00	11:30
				9	STB	278.57	4:00	8:00	11:30
				1	STB	1.68	4:00	8:00	11:30
				1	STB	323.46	4:00	8:00	11:30
				14	STANDS DP	853	4:00	8:00	11:30
				1	SHOLES DP	30.65	4:00	8:00	11:30
				1	KELLY DOWN	41	4:00	8:00	11:30
				1	TOTAL	1253	4:00	8:00	11:30
				1	WT. OF STRING	50,000	4:00	8:00	11:30

FOOTAGE		DR. B. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
723	824	R			60	500	300			
824	947	R								
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		824	9 3/4		916	9 3/4				
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			Reaming						
12:00	4:00			Dev survey						
4:00	4:30			Reaming						
4:30	7:00			Dev survey						
7:00	8:00			Reaming						
8:00	8:00									

FOOTAGE		DR. B. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
947	1253	K			60	24	30	5 1/2	60	8 1/2
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		1008	8 1/4		1108	8 1/4		1192	7 1/4	
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			Reaming - 8 1/2 Hole						
8:00	9:45	1 1/2	3	Reaming - 8 1/2 Hole						
9:45	10:15	1/2	7	Reaming - 8 1/2 Hole						
10:15	11:00	3/4	3	Reaming - 8 1/2 Hole						
11:00	11:30	1/2	10	Reaming - 8 1/2 Hole						
11:30	12:00	1/2	3	Reaming - 8 1/2 Hole						
12:00	1:30	1/2	10	Reaming - 8 1/2 Hole						
1:30	3:00	1 1/2	3	Reaming - 8 1/2 Hole						
3:00	3:30	1/2	18	Reaming - 8 1/2 Hole						

FOOTAGE		DR. B. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
1253	1560	R			60	74	300	5 1/2	60	6
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		1284	8 1/4		1376	8 1/4		1499	8 1/4	
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			Reaming 8 1/2 hole						
4:00	4:30	1/2	3	Reaming 8 1/2 hole						
4:30	5:00	1/2	10	Reaming 8 1/2 hole						
5:00	7:00	2	2	Reaming 8 1/2 hole						
7:00	7:30	1/2	10	Reaming 8 1/2 hole						
7:30	9:30	2	3	Reaming 8 1/2 hole						
9:30	10:00	1/2	10	Reaming 8 1/2 hole						
10:00	12:00	2	3	Reaming 8 1/2 hole						

FOOTAGE		DR. B. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
1560	1560	R			60	74	300	5 1/2	60	6
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		1284	8 1/4		1376	8 1/4		1499	8 1/4	
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			Reaming 8 1/2 hole						
4:00	4:30	1/2	3	Reaming 8 1/2 hole						
4:30	5:00	1/2	10	Reaming 8 1/2 hole						
5:00	7:00	2	2	Reaming 8 1/2 hole						
7:00	7:30	1/2	10	Reaming 8 1/2 hole						
7:30	9:30	2	3	Reaming 8 1/2 hole						
9:30	10:00	1/2	10	Reaming 8 1/2 hole						
10:00	12:00	2	3	Reaming 8 1/2 hole						

FOOTAGE		DR. B. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
1560	1560	R			60	74	300	5 1/2	60	6
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		1284	8 1/4		1376	8 1/4		1499	8 1/4	
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			Reaming 8 1/2 hole						
4:00	4:30	1/2	3	Reaming 8 1/2 hole						
4:30	5:00	1/2	10	Reaming 8 1/2 hole						
5:00	7:00	2	2	Reaming 8 1/2 hole						
7:00	7:30	1/2	10	Reaming 8 1/2 hole						
7:30	9:30	2	3	Reaming 8 1/2 hole						
9:30	10:00	1/2	10	Reaming 8 1/2 hole						
10:00	12:00	2	3	Reaming 8 1/2 hole						







LEASE **45-14** WELL NO. **5** API WELL NUMBER **5** DATE **Jan 7 - 1957**

OPERATOR **GRACE Geothermal** CONTRACTOR **Calvert** RIG NO. **5**

SIGNATURE OF OPERATOR'S REPRESENTATIVE **Rody Gallan** SIGNATURE OF CONTRACTOR'S TOOL PUSHER **Howard Lead**

D.P. SIZE **8 1/2** WT./FT. **75** GRADE **7.16** TOOL JT O.D. **6.77** TYPE **REED** STRING NO. **203020** PUMP NO. **93558** PUMP MANUFACTURER **GO** TYPE **EP62J** STROKES PER MIN. **58**

FIELD OR DIST. **Dana** COUNTY **Humboldt** STATE **Nevada**

WIRE LINE RECORD

SIZE	MAKE	WT. & OIL	NO. JOINTS	FEET	WTS TO CASE NO.	WT AT

LAST CASING TIGHT OR LEAK

TONS OF TRIP SINCE LAST CUT

CUMULATIVE TONS OF TRIP

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tool)		BIT RECORD		MUD RECORD							
CODE NO.	OPERATION	WORK DAY	EVG.	BIT	PT.	BIT NO.	SIZE	TIME	WEIGHT						
1	RIG UP AND TEAR DOWN			8 1/2	75	2	8 1/2	1:00	20						
2	DRILL ACTUAL	7 1/2	5 4 1/2	8 1/2	7.16	REED	8 1/2	9:5	20						
3	REAMING			6 1/4	6.77	EP62J	5 1/2	44	58						
4	CORING			6 1/4	5.30	203020									
5	CONDITION MUD & CIRCULATE			6 1/4	308.81	93558									
6	TRIPS	1 1/2	3 1/2	Yamb	1.68										
7	LUBRICATE RIG														
8	REPAIR RIG														
9	CHL PPT. DRILLING LINE			BHA	392.24		1 1/4								
10	DEVIATION SURVEY	1/2	1		2203.44										
11	WIRE LINE LOGS														
12	RUN CASING & CEMENT				31.00										
13	WAIT ON CEMENT				262.4										
14	HOPE'S UP & O.P.				75.000										
15	TEST S.G.P.														
16	DRILL STEM TEST														
17	PLUG BACK														
18	REMOVE CEMENT														
19	FINISH														
20	DRILL WORK														
21															
22															
COMPLETION				A. PERFORATION		B. TRO TRIPS		C. TREATING		D. SWABBING		E. TESTING		F. ADJUST'VL	
				BHA 385.423		19 1/2		GEL 250		SAND 536		120		5 gal	
				TOTAL 2687.4											
				WT. OF STRING 72.000											

FOOTAGE

FROM	TO	DR. D. IN. - R. CONE. C.	CODE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT (LBS.)	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
2540	2624	D			60	50,000	500	3 1/2	4 1/2	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2588	9 1/2							

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

12:00 3:20 Drill  
3:20 3:30 C.R.C Survey 9 1/2 increase Rotary RPM to 85  
3:30 5:00 Drill Lost 80 BBLs mud (mix LCM)  
5:00 8:00 Drill  
Pick up 80,000  
Rotate 75,000  
Slack off 60,000

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tool)		BIT RECORD		MUD RECORD							
CODE NO.	OPERATION	WORK DAY	EVG.	BIT	PT.	BIT NO.	SIZE	TIME	WEIGHT						
1	RIG UP AND TEAR DOWN			8 1/2	175	2	8 1/2	2:00	20						
2	DRILL ACTUAL			6 1/4	7.16	REED	8 1/2	3:00	20						
3	REAMING			6 1/4	61.77	EP62J	5 1/2	39	58						
4	CORING			6 1/4	5.20	203020									
5	CONDITION MUD & CIRCULATE			6 1/4	318.81	93558									
6	TRIPS			XO	1.68										
7	LUBRICATE RIG														
8	REPAIR RIG														
9	CHL PPT. DRILLING LINE														
10	DEVIATION SURVEY														
11	WIRE LINE LOGS														
12	RUN CASING & CEMENT														
13	WAIT ON CEMENT														
14	HOPE'S UP & O.P.														
15	TEST S.G.P.														
16	DRILL STEM TEST														
17	PLUG BACK														
18	REMOVE CEMENT														
19	FINISH														
20	DRILL WORK														
21															
22															
COMPLETION				A. PERFORATION		B. TRO TRIPS		C. TREATING		D. SWABBING		E. TESTING		F. ADJUST'VL	
				BHA 385.423		19 1/2		GEL 250		SAND 536		120		5 gal	
				TOTAL 2687.4											
				WT. OF STRING 72.000											

FOOTAGE

FROM	TO	DR. D. IN. - R. CONE. C.	CODE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT (LBS.)	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
2624	2687	D			60	50,000	500	5 1/2	5 1/2	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2636	10 1/2		2667	11 1/2				

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

8:00 7:00 1 1/2 2 Dr 1/4 8 1/2 Hole #1 - 2000 ft  
9:10 9:30 1 1/2 10 Circ & Survey 10 1/2 Deg tank - 750 ft  
9:30 10:00 1 1/2 7 Service Log #1 5150 ft  
10:00 2:00 4 2 Dr 1/4 8 1/2 Hole 10,000 wt 80 Deg #2 38 ft  
2:00 2:30 1 1/2 10 Circ & Survey @ 11,000 ft - 8950 ft  
2:30 4:00 1 1/2 6 Trip out Tackling BHA

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tool)		BIT RECORD		MUD RECORD							
CODE NO.	OPERATION	WORK DAY	EVG.	BIT	PT.	BIT NO.	SIZE	TIME	WEIGHT						
1	RIG UP AND TEAR DOWN			8 1/2	75	2 RE	8 1/2	8:00	20						
2	DRILL ACTUAL			6 1/4	92.98	REED	8 1/2	10:00	20						
3	REAMING			6 1/4	5.30	EP62J	5 1/2	11:30	58						
4	CORING			6 1/4	61.35	203020									
5	CONDITION MUD & CIRCULATE			6 1/4	5.28	303020									
6	TRIPS			6 1/4	216.25	41858									
7	LUBRICATE RIG			XO	1.68										
8	REPAIR RIG														
9	CHL PPT. DRILLING LINE														
10	DEVIATION SURVEY														
11	WIRE LINE LOGS														
12	RUN CASING & CEMENT														
13	WAIT ON CEMENT														
14	HOPE'S UP & O.P.														
15	TEST S.G.P.														
16	DRILL STEM TEST														
17	PLUG BACK														
18	REMOVE CEMENT														
19	FINISH														
20	DRILL WORK														
21															
22															
COMPLETION				A. PERFORATION		B. TRO TRIPS		C. TREATING		D. SWABBING		E. TESTING		F. ADJUST'VL	
				BHA 389.59		24		GEL 29		SAND 3		15		Coke	
				TOTAL 2271.62											
				WT. OF STRING 71.000											

FOOTAGE

FROM	TO	DR. D. IN. - R. CONE. C.	CODE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT (LBS.)	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
2667	2682	D			70	500	5 1/2	5 1/2	6 1/2	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4:00	7:30	3 1/4	6	7:30	12:00	4 1/2	2	

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

4:00 7:30 3 1/4 6 Trip out - change BHA - Trip 10 Pick up - 80,000  
7:30 12:00 4 1/2 2 Dr 1/4. Rotate - 71,000  
Slack off - 60,000

DRILLER **Crissy Hand**



LEASE <b>45+14</b>	WELL NO.	API WELL NUMBER	DATE <b>1-9-83</b>
OPERATOR <b>Grace Geothermal</b>	CONTRACTOR <b>Calvert Western</b>		RIG NO. <b>5</b>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Lloyd Ballan</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>Howard Seal</i>	
D.P. SER.	ST./PT.	GRADE	TOOL JT G.D. TYPE THREAD
			STRING NO.
			PUMP NO.
			PUMP MANUFACTURER
			TYPE
			STROKE LENGTH

FIELD OR DIST. <b>Denio</b>	COUNTY <b>Humboldt</b>	STATE <b>NEVADA</b>	WIRE LINE RECORDED	REEL NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET
			NO. TO C.S. NO.	SET AT
LAST CASING TURNING OR LINER		PI. CUT OFF		
		PRESENT LENGTH		
		TON IN. OR TRIPS SINCE LAST CUT		
		CUMULATIVE TON IN. OR TRIPS		

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORR.	DAY	EVG.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT
1	HO UP AND FEAR DOWN				2	8 1/2	12:00	400	730
2	DRILL ACTUAL	7 7/8	7 1/2		3	6 1/4	9:29	8	8.4
3	REAMING				1	8 1/2	5:30		
4	CORING				2	6 1/4	61.35		
5	CONDITION MAINT & CIRCULATE				1	8 1/2	5:28		
6	TRIPS				7	6 1/4	216.25		
7	LUBRICATE RIG	1/2							
8	REPAIR RIG								
9	DEVIATION SURVEY		1/2						
10	WIRE LINE LOGS								
11	HOI CASING & CEMENT								
12	WELL SHUT IN								
13	HOI UP & D.P.								
14	TEST B.P.								
15	DRILL STEM TEST								
16	PLUG BACK								
17	SHOZZER CEMENT								
18	FINISHING								
19	DIAL WORK								
20									
21									
22									
23									
COMPLETION				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
A	PERF'N'G				1	8 1/2	75	2	4:00
B	T&G TRIPS				3	6 1/4	92.98	8 1/2	9.0
C	TREATING				1	8 1/2	5:30	REED	
D	BRAMING				2	6 1/4	61.35	FP625	55
E	TESTING				1	8 1/2	5:28	201020	
F	ADJ'N'G				7	6 1/4	216.25	239558	
G									
TOTALS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
8				1		2		4:00	
8				3		8 1/2		9.0	
8				1		REED			
8				2		FP625		55	
8				1		201020			
8				7		239558			
8						2393			
8						69			
8				39		2445			
8				1		31			
8				TOTAL		2809			
8				WT. OF STRING		73,500		LBS.	

FOOTAGE		D.R. D. BAL. R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUM
FROM	TO									
2773	2790		D		42	4000	600	5/8	55	
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2789		12°								
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			DRILL						
12:00	6:00			DRILL						
6:00	8:00			Circ. Survey 12° @ 2789						
7:00	8:00			DRILL						
Pickup - 82,000 Rotate - 73,500 Slack off - 61,000										

FOOTAGE		D.R. D. BAL. R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUM
FROM	TO									
2790	2809		D		102	4000	400	5/8	55	6 1/4
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2809		12°								
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			DRILLER						
8:00	1:30	5 1/2	2	DRILL 8 1/2 HO						
1:30	2:00	1/2	7	Rig Service						
2:00	4:00	1/2	2	DRILL 8 1/2 HO						
DRILLER										

FOOTAGE		D.R. D. BAL. R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUM
FROM	TO									
2809	2829		D		110	4	100	5/8	55	6 1/2 Pits
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2819		12°								
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			DRILLER						
4:00	7:00	3	2	DRILL						
7:00	7:30	1/2	10	Circ. + Survey - Rig Service						
7:30	12:00	4 1/2	2	DRILL						
Pick up - 84,000 Slack off - 63,000 Rotate - 73,500										

FOOTAGE		D.R. D. BAL. R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUM
FROM	TO									
2829	2849		D		110	4	100	5/8	55	6 1/2 Pits
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2819		12°								
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			DRILLER						
4:00	7:00	3	2	DRILL						
7:00	7:30	1/2	10	Circ. + Survey - Rig Service						
7:30	12:00	4 1/2	2	DRILL						
Pick up - 84,000 Slack off - 63,000 Rotate - 73,500										

FOOTAGE		D.R. D. BAL. R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUM
FROM	TO									
2849	2869		D		110	4	100	5/8	55	6 1/2 Pits
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2819		12°								
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			DRILLER						
4:00	7:00	3	2	DRILL						
7:00	7:30	1/2	10	Circ. + Survey - Rig Service						
7:30	12:00	4 1/2	2	DRILL						
Pick up - 84,000 Slack off - 63,000 Rotate - 73,500										

LEASE 45-14	WELL NO.	API WELL NUMBER	DATE 1-10-83
OPERATOR GRACE Geothermal	CONTRACTOR D. J. Veat Western		RIG NO. 5
SIGNATURE OF OPERATOR'S REPRESENTATIVE Gordon Hallan		SIGNATURE OF CONTRACTOR'S TOOL PUSHER David Leah	
B.P. SIZE 3 1/2	WT. P.S. 13.80	GRADE E	TOOL JOINT TYPE 4 3/4 IF
STRING NO.	PUMP NO. 1	PUMP MANUFACTURER R.D.	TYPE F.V.W.
			CLASS 14

FIELD OR DIST. Denio	COUNTY Humboldt	STATE Nevada	WIRE LINE RECORD SER. NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS
PT. SET	NO. TO CON. NO.	SET AT	PT. CUT OFF
			PRESENT LENGTH
			TONNAGE OR TRIPS SINCE LAST CUT
			CUMULATIVE TONNAGE OR TRIPS

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	WORK	DAY	EVG.	1	2	3	4	5	6	7
1	NO UP AND TRIP DOWN				1	BIT 8 1/2	75 FT.	BIT NO. 2	TIME 12:00	3:00	1:30
2	DRILL ACTUAL	7 1/2	3		3	6 1/4	92.98	SIZE 8 1/2	WEIGHT 8.9	8.9	8.9
3	REAMING	4			1	ITS 1 1/8	5.30	MPG. R20	PRESSURE GRADIENT		
4	CORING				2	D.C. 6 1/4	61.35	TYPE FP625	VISC. SEC. 55	58	59
5	CONDITION HEAD & CALCULATE				1	ITS 1 1/8	5.28	SETS 1/2" 202020	PV/TP	1	1
6	TIPS	4 1/2			7	D.C. 5 1/4	216.25	SER. NO. 939558	GELS	1	1
7	LUBRICATE RIG	1/2			1	X 0	1.68	DEPTH IN 2393	ML. CCL		
8	REPAIR RIG					BHA-	383.59	TOTAL FTH 76 1/2	SOLIDS %		
9	DRILLING LINE					STANDS OF 245	222 FT.	TOTAL MBL RUN	MUD & CHEMICALS ADDED		
10	DEVIATION SURVEY	1/2	1/2			SHOLES OF 245	222 FT.	COND. LV. 1/2" GAGE	TYPE AMT. TYPE AMT.		
11	WIRE LINE LOGS					KELLY DOWN 2800	FT.	OPW/PO-PS	GOL 6		
12	RUN CASING & CEMENT					TOTAL 2868	81 FT.		Paint 1		
13	WAIT ON CEMENT					WT. OF STRING 72,500	LBS.				
14	NO UP AND TRIP										
15	TEST B.P.										

FOOTAGE		DE. D. R.L.E. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
FROM 2809	TO 2851		0		108	600	600	5 1/2	55	DRILL	
DEVIATION RECORD					DEPTH 2851	DEV. 12°	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM 12:00	TO 12:30			DRILL							
FROM 12:30	TO 1:00			C.I.R.R. Survey 12° @ 2851							
				Drill							
				Pick up = 82,000							
				Rotate = 73,500							
				Stack = OK = 62,000							

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	WORK	DAY	EVG.	1	2	3	4	5	6	7
1	NO UP AND TRIP DOWN				1	BIT 8 1/2	175 FT.	BIT NO. 2	TIME 9:00	12:00	5:00
2	DRILL ACTUAL				3	6 1/4	92.98	SIZE 8 1/2	WEIGHT 9.0	9.0	8.9
3	REAMING				1	ITS 1 1/8	5.30	MPG. Lead	PRESSURE GRADIENT		
4	CORING				2	D.C. 6 1/4	61.35	TYPE FP625	VISC. SEC. 50	47	48
5	CONDITION HEAD & CALCULATE				1	ITS 1 1/8	5.28	SETS 1/2" 202020	PV/TP	1	1
6	TIPS				7	D.C. 5 1/4	216.25	SER. NO. 939558	GELS	1	1
7	LUBRICATE RIG				1	X 0	1.68	DEPTH IN 2393	ML. CCL		
8	REPAIR RIG					BHA-	383.59	TOTAL FTH 83 1/2	SOLIDS %		
9	DRILLING LINE					STANDS OF 255	7 FT.	TOTAL MBL RUN	MUD & CHEMICALS ADDED		
10	DEVIATION SURVEY					SHOLES OF 30.55	FT.	COND. LV. 1/2" GAGE	TYPE AMT. TYPE AMT.		
11	WIRE LINE LOGS					KELLY DOWN 37	FT.	OPW/PO-PS	GOL 18		
12	RUN CASING & CEMENT					TOTAL 2908	FT.		CONC. 2		
13	WAIT ON CEMENT					WT. OF STRING 74,500	LBS.		120	5 gal	
14	NO UP AND TRIP										
15	TEST B.P.										

FOOTAGE		DE. D. R.L.E. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
FROM 2851	TO 2908		4		110	600	600	5 1/2	55	6 1/2 P.S. 5	
DEVIATION RECORD					DEPTH 2881	DEV. 12°	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM 9:00	TO 9:30			Drill 10 1/2" Hole							
FROM 9:30	TO 10:00			C.I.R.F. Survey							
FROM 10:00	TO 10:00			Service Rig							
FROM 10:00	TO 10:00			Drill 8 1/2" Hole							
				Final 13.4 - 25000							
				25.3 45000							
				Total 7400							

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	WORK	DAY	EVG.	1	2	3	4	5	6	7
1	NO UP AND TRIP DOWN				1	BIT 8 1/2	75 FT.	BIT NO. 2	TIME 4:00	8:00	12:00
2	DRILL ACTUAL				1	6 pt.	7.16	SIZE 8 1/2	WEIGHT 9.0		
3	REAMING				2	D.C. 6 1/4	31.00	TYPE FP625	VISC. SEC. 47		
4	CORING				1	ITS 1 1/8	5.28	SETS 1/2" 202020	PV/TP	1	1
5	CONDITION HEAD & CALCULATE				2	D.C. 6 1/4	61.35	SER. NO. 939563	GELS	1	1
6	TIPS				1	ITS 1 1/8	5.30	DEPTH OUT 2923	ML. CCL		
7	LUBRICATE RIG				9	6 1/4	271.60	DEPTH IN 2393	SOLIDS %		
8	REPAIR RIG				1	X 0	1.68	TOTAL FTH 530			
9	DRILLING LINE					STANDS OF 280	75 FT.	TOTAL MBL RUN 59 1/4			
10	DEVIATION SURVEY					SHOLES OF 1518	41 FT.	COND. LV. 1/2" GAGE	TYPE AMT. TYPE AMT.		
11	WIRE LINE LOGS					KELLY DOWN 14	FT.	OPW/PO-PS	Alc 3		
12	RUN CASING & CEMENT					TOTAL 2923	FT.				
13	WAIT ON CEMENT					WT. OF STRING 74,000	LBS.				
14	NO UP AND TRIP										
15	TEST B.P.										

FOOTAGE		DE. D. R.L.E. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
FROM 2908	TO 2923		D		110	600	600	5 1/2	55	6 1/2 P.S. 5	
DEVIATION RECORD					DEPTH 2912	DEV. 12 1/4°	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM 4:00	TO 4:30			Drill							
FROM 4:30	TO 5:00			C.I.R.F. + Survey							
FROM 5:00	TO 7:30			Drill							
FROM 7:30	TO 12:00			Trip out - change BHA - Trip in							

LEASE **415-14** WELL NO. **1-1583** DATE **1-15-83**

OPERATOR **GRACE Geothermal** CONTRACTOR **Calwest Western**

SIGNATURE OF OPERATOR'S REPRESENTATIVE **Gordy Hollan** SIGNATURE OF CONTRACTOR'S TOOL PUSHER **Chuck Paul**

R.P. SIZE **2 3/4** WT. **13.70** GRADE **E** TOOL JT & D. **4 3/4** TYPE **IF** STRING NO. **1** PUMP NO. **80** PUMP MANUFACTURER **FXN** TYPE **FXN** STORE LABEL **14**

FIELD OR DIST. **Humboldt** COUNTY **Nevada** STATE **Nevada**

WIRE LINE RECORD

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	WKS. TO CSE. NO.	SET AT	SIZE	NO. LINES	PT. SLIPPED

LAST CLOSING TURNING OR LINER

PT. CUT OFF

TOW HL. OR TRIPS SINCE LAST CUT

CUMULATIVE TON HL. OR TRIPS

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	NORM.	DAY	NO.	FT.	BIT NO.	SIZE	TIME	WEIGHT
1	DRILL UP AND TEAR DOWN			1	7.16	1 RP	8 1/2	10:00 5:00	2.8 2.8
2	DRILL ACTUAL	7	7	1		Reed			
3	REAMING			1	51.00	FR625			1.0 4.0
4	CORING			1	5.28	20/20/20			
5	CONDITION MUD & CIRCULATE			2	61.98	93563			
6	TRIPS			1	5.70				
7	LUBRICATE HO	1/2		9	277.60	2923R			
8	REPAIR HO			1	1.68				
9	BHA				390.75	654			
10	STANDS UP			41	2090.00				
11	SHOLES UP			1	31.94				
12	KELLY DOWN				2.8				
13	TOTAL				2168.55				
				WT. OF STRING		75,000		LBS	

FOOTAGE		DEPT. TO CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
2923			D		116	1000	600	5 1/2	8.5	

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
FROM	TO									
2950		2 1/2								

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

2:00 4:00 DRILL

4:00 5:00 C.C. SURVEY 12 1/2 2950 Temp Bottom Hole 148

5:00 8:00 DRILL

pick up 85,000  
Potato 75,000  
SLACK OFF 65,100

DRILLER **Chuck Paul**

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	NORM.	DAY	NO.	FT.	BIT NO.	SIZE	TIME	WEIGHT
1	DRILL UP AND TEAR DOWN			1	7.16	3 RR	8 1/2	4:00 12:00 2:00	8.1 8.1 8.1
2	DRILL ACTUAL			1		Reed			
3	REAMING			1	31.00	FR625			3.7 3.7 3.7
4	CORING			1	5.28	20/20/20			
5	CONDITION MUD & CIRCULATE			9	277.60	93563			
6	TRIPS			1	1.68				
7	LUBRICATE HO				390.75	2923R			9.5
8	REPAIR HO								
9	BHA				390.75	72 1/2			
10	STANDS UP			1	212.00				
11	SHOLES UP			1	30.54				
12	KELLY DOWN				3.4				
13	TOTAL				501.9				
				WT. OF STRING		36,000		LBS	

FOOTAGE		DEPT. TO CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
2968	3018		D		110	1000	600	5 1/2	5.5	6 1/2 Pits 5

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
FROM	TO									
2981		12 1/2								

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

8:00 8:30 1/2 7 R.g. Service

8:30 10:30 2 2 Drilling 8 1/2 hole

10:30 11:00 1/2 10 Give 3 survey 12 1/2 Temp - 160

11:00 4:00 5 2 Drilling 8 1/2 hole

Fuel 2.294  
2.534

DRILLER **Chuck Paul**

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	NORM.	DAY	NO.	FT.	BIT NO.	SIZE	TIME	WEIGHT
1	DRILL UP AND TEAR DOWN			1	7.16	1 RP	8 1/2	4:00 9:00 11:30	9.0 8.9+ 8.9
2	DRILL ACTUAL			1		Reed			
3	REAMING			1	31.00	FR625			3.7 3.9 4.3
4	CORING			1	5.28	20/20/20			
5	CONDITION MUD & CIRCULATE			2	61.98	93563			
6	TRIPS			1	5.30				
7	LUBRICATE HO			9	277.60	2923R			
8	REPAIR HO			1	1.68				
9	BHA				390.75	80 1/4			
10	STANDS UP			43	2642.10				
11	SHOLES UP			1	30.82				
12	KELLY DOWN				1.7				
13	TOTAL				3081				
				WT. OF STRING		75,000		LBS	

FOOTAGE		DEPT. TO CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
3018	3081		D		100	10/600	5 1/2	5.5	6 1/2	Pits 5

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
FROM	TO									
4:00	12:00	8								

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

Drilling

DRILLER **Casey Handley**

LEASE: 45-14  
 OPERATOR: GRACE Geothermal  
 SIGNATURE OF OPERATOR'S REPRESENTATIVE: *Yordy Salan*  
 CONTRACTOR: Cabnet Western  
 SIGNATURE OF CONTRACTOR'S TOOL PUSHER: *Michael Leach*  
 DATE: 1-12-83

FIELD OR DIST: *Deer* COUNTY: *Humboldt* STATE: *Nevada*  
 WIRE LINE RECORD INCL. NO. [ ]  
 SIZE: 8 5/8 MAKE: [ ] WT. & GR. [ ] NO. JOINTS [ ] FEET [ ] SER. TO CAS. NO. [ ] SET AT [ ]  
 LAST CASING TUBING OR LINER: [ ]  
 FT. CUT OFF [ ] PRESENT LENGTH [ ]  
 TON M. OR TRIPS SINCE LAST CUT [ ]  
 CUMULATIVE TON M. OR TRIPS [ ]

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
1. RIG UP AND TEAR DOWN				1	BIT 8 1/2	7.16	SIZE 8 1/2	WEIGHT 8.9	8.9
2. DRILL ACTUAL	8	6	4	1	DC 6 1/4 OD	31.00	TYPE FP625	PRG. GRADIENT 4.3	4.3
3. RAMMING				1	ITS 1BS OD	5.28	JETS 1/2"	PI/TYP 7	7
4. CORING				2	DC 6 1/4 OD	61.98	SER. NO. 728568	GELS 1	1
5. CONDITION MUD & CALCULATE				1	ITS 1BS OD	5.30	DEPTH OUT	ML -CC% 1	1
6. TRIPS	1 1/2	4		7	DC 6 1/4	277.60	DEPTH IN	ML SOLIDS %	
7. LUBRICATE RIG	1/2			1	XO	1.68	TOTAL FTG.		
8. REPAIR RIG				1	BHA	390.75	TOTAL MUD RUN		
9. SET P.C. DRILLING LINE				4	STANDS DP	2788.14	CONC. 1/2" 1/2" GAGE		
10. DEVIATION SURVEY					SINGLE DOWN	30.27	OPW/PD-PS		
11. WBS LINE LOGS					KELLY DOWN	41.25			
12. RUN CASING & CEMENT					TOTAL	3167			
13. WAIT ON CEMENT					WT. OF STRING		LBS		
14. REPORT UP A.B.P.									

FOOTAGE		DE. D. RE. L. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
3081	3167	D			85	1700	600	5 1/2	55	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	BLASPED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	5:00			DRILL

Pick up - 95,000  
 Balance - 77,000  
 Made off - 62,000

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
1. RIG UP AND TEAR DOWN				1	BIT 8 1/2	7.16	SIZE 8 1/2	WEIGHT 9.0	9.0
2. DRILL ACTUAL				1	DC 6 1/4 OD	31.00	TYPE FP625	PRG. GRADIENT 3.5	3.9
3. RAMMING				2	ITS 1BS OD	5.28	JETS 1/2"	PI/TYP 7	7
4. CORING				2	DC 6 1/4 OD	61.98	SER. NO. 939551	GELS 1	1
5. CONDITION MUD & CALCULATE				1	ITS 1BS OD	5.30	DEPTH OUT	ML -CC% 1	1
6. TRIPS				9	DC 6 1/4	277.60	DEPTH IN	ML SOLIDS %	
7. LUBRICATE RIG				1	XO	1.68	TOTAL FTG.		
8. REPAIR RIG				1	BHA	390.75	TOTAL MUD RUN		
9. SET P.C. DRILLING LINE				4	STANDS DP	2828	CONC. 1/2" 1/2" GAGE		
10. DEVIATION SURVEY					SINGLE DOWN	41	OPW/PD-PS		
11. WBS LINE LOGS					KELLY DOWN	41			
12. RUN CASING & CEMENT					TOTAL	3260			
13. WAIT ON CEMENT					WT. OF STRING		LBS		
14. REPORT UP A.B.P.									

FOOTAGE		DE. D. RE. L. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
3167	3259	0			85	1700	600	5 1/2	52	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	BLASPED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	11:00	3	2	Drill 8 1/2 Hole
11:00	11:30	1/2	7	Rig Service
11:30	2:30	2	2	Drill 8 1/2 Hole
2:30	4:00	1 1/2	6	TRIP out Hole

Kill speed 200-28  
 Circ psi 600-52

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
1. RIG UP AND TEAR DOWN				1	BIT 8 1/2	7.16	SIZE 8 1/2	WEIGHT 9.0	9.0
2. DRILL ACTUAL				1	DC 6 1/4 OD	31.00	TYPE 11537	PRG. GRADIENT 3.7	4.0
3. RAMMING				1	ITS 1BS OD	5.28	JETS 1/2"	PI/TYP 7	7
4. CORING				2	DC 6 1/4 OD	61.98	SER. NO. 4637	GELS 1	1
5. CONDITION MUD & CALCULATE				1	ITS 1BS OD	5.30	DEPTH OUT	ML -CC% 1	1
6. TRIPS				9	DC 6 1/4	277.60	DEPTH IN	ML SOLIDS %	
7. LUBRICATE RIG				1	XO	1.68	TOTAL FTG.		
8. REPAIR RIG				1	BHA	390.75	TOTAL MUD RUN		
9. SET P.C. DRILLING LINE				4	STANDS DP	2890.61	CONC. 1/2" 1/2" GAGE		
10. DEVIATION SURVEY					SINGLE DOWN	14	OPW/PD-PS		
11. WBS LINE LOGS					KELLY DOWN	14			
12. RUN CASING & CEMENT					TOTAL	3295			
13. WAIT ON CEMENT					WT. OF STRING		LBS		
14. REPORT UP A.B.P.									

FOOTAGE		DE. D. RE. L. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
3259	3295	D			85	1320	600	5 1/2	52	5

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	BLASPED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	9:00	4	6	Trip out + trip in
9:00	12:00	4	2	Drill

LEASE **45-14** WELL NO. **AP1** WELL NUMBER **DATE** **1-13-83**  
 OPERATOR **Grace Geothermal** CONTRACTOR **Calwest Western** RIG NO. **5**  
 SIGNATURE OF OPERATOR'S REPRESENTATIVE **Gordy Hallan** SIGNATURE OF CONTRACTOR'S TOOL PUSHER **[Signature]**

SIZE	WT. & GR.	NO. JOINTS	FEET	REQ. TO CSE. NO.	SET AT
3 1/2	13.30	E	4 3/4	1P	

SIZE	WT. & GR.	NO. JOINTS	FEET	REQ. TO CSE. NO.	SET AT
3 1/2	13.30	E	4 3/4	1P	

FIELD OR DIST. **Denia** COUNTY **Humboldt** STATE **NEVADA**

SIZE	WT. & GR.	NO. JOINTS	FEET	REQ. TO CSE. NO.	SET AT
3 1/2	13.30	E	4 3/4	1P	

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	NO.	DRILLING ASSEMBLY	BIT NO.	SIZE	TIME	WEIGHT
1	BIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	3	8 1/2	200 5:00 8:00	8.8 8.8 8.8
2	DRILL ACTUAL	8	7 1/2	1	6PT 7.16		8 1/2		
3	REAMING			1	1 1/4 OD 5.28		V537		42 40 41
4	CORING			1	1 1/8 OD 5.29		V537		
5	CONDITION MUD & CIRCULATE			2	5 5/8 OD 61.98		4637		
6	TRIPS			1	1 1/8 OD 5.30				
7	LUBRICATE MUD			9	6 1/4 OD 277.60		3259		
8	REPAIR MUD			1	XO 1.68				
9	DRILLING LINE			1	BHA 390.25		12		
10	DEVIATION SURVEY			48	STANDS DP 2435				
11	WIRE LINE LOSS			1	SHOLES DP 30.22				
12	RUN Casing & CEMENT			1	KELLY DOWN 2640				
13	WIRE LINE UP				TOTAL 3978.69				
14	TEST MUD				WT. OF STRING 79,000				

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUN
3395	3399		0		90	2000	600	5 1/2 55				

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
2:00	5:00		DRILL							

Pick up - 100,000  
 Rotate - 79,000  
 Slack of 65,000

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	NO.	DRILLING ASSEMBLY	BIT NO.	SIZE	TIME	WEIGHT
1	BIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	3	8 1/2	4:00 12:00 3:00	8.8 8.8 8.4
2	DRILL ACTUAL			1	6PT 7.16		8 1/2		
3	REAMING			1	1 1/4 OD 31.10		V637		38 39 39
4	CORING			1	1 1/8 OD 5.28		V537		
5	CONDITION MUD & CIRCULATE			2	5 5/8 OD 61.99		4637		
6	TRIPS			1	1 1/8 OD 5.30				
7	LUBRICATE MUD			9	6 1/4 OD 277.60		3259		
8	REPAIR MUD			1	XO 1.69				
9	DRILLING LINE			1	BHA 390.25		14 1/2		
10	DEVIATION SURVEY			50	STANDS DP 2435				
11	WIRE LINE LOSS			1	SHOLES DP 30.22				
12	RUN Casing & CEMENT			1	KELLY DOWN 38				
13	WIRE LINE UP				TOTAL 3503				
14	TEST MUD				WT. OF STRING 80,000				

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUN
3399			0		90	2000	600	5 1/2 52	6 1/2 52			

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
8:00	11:00	3	2 Drily 8 1/2" Hole							
11:00	11:30	4	7 R.P. Service							
11:30	4:00	4	2 Drily 8 1/2" Hole							

Fuel 1.0.06  
 2.5.42  
 Kill speed 200 # 28.5  
 Cive Psi 600 52.5

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	NO.	DRILLING ASSEMBLY	BIT NO.	SIZE	TIME	WEIGHT
1	BIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	3	8 1/2	4:00 8:00 12:00	9.0
2	DRILL ACTUAL			1	6PT 7.16		8 1/2		
3	REAMING			1	1 1/4 OD 31.00		V537		
4	CORING			1	1 1/8 OD 5.29		V537		
5	CONDITION MUD & CIRCULATE			2	5 5/8 OD 61.98		4637		
6	TRIPS			1	1 1/8 OD 5.30				
7	LUBRICATE MUD			9	6 1/4 OD 277.60		3259		
8	REPAIR MUD			1	XO 1.68				
9	DRILLING LINE			1	BHA 390.25				
10	DEVIATION SURVEY			51	STANDS DP 3136.20				
11	WIRE LINE LOSS			1	SHOLES DP 30.22				
12	RUN Casing & CEMENT			1	KELLY DOWN 25				
13	WIRE LINE UP				TOTAL 3551				
14	TEST MUD				WT. OF STRING 80,000				

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	PUMP NO. / LINER SIZE	PUMP NO. / S.P.M.	METHOD RUN
3503	3557		0		90	20	600	5 1/2 55	6 1/2 55			

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
4:00	8:30	4 1/2	2 Drily Change rotating rubber							
8:30	9:30	1	21							
9:30	10:00	1/2	18 Circ. Survey							
10:00	11:30	1 1/2	6 Trip out 18 slks D.P.							
11:30	12:00	1/2	5 Circ.							

DRILLER **Casey Harold**

LEASE <b>45-14</b>	WELL NO.	API WELL NUMBER	DATE <b>1-14-83</b>
OPERATOR <b>George Coathran</b>	CONTRACTOR <b>Calvert Western</b>		REG. NO. <b>5</b>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <b>Gordy Hallan</b>	SIGNATURE OF CONTRACTOR'S TOOL PUSHER <b>Howard Leach</b>		
D.P. SIZE	WT./FT.	GRADE	TOOL JT & D. TYPE THREAD
			STRING NO.
			PUMP NO.
			PUMP MANUFACTURER
			TYPE
			STROKE LENGTH

TIME DISTRIBUTION - HOURS				NO.	DRILLING ASSEMBLY (At end of hour)	BIT RECORD	MUD RECORD
CODE NO.	OPERATION	WORK	DAY EVE.				
1	RIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	SIZE	TIME
2	DRILL ACTUAL		7 8	6 1/4 DC	SIZE	WEIGHT	
3	REAMING			1 X 0	DEPTH IN	PH	
4	CORING			BHA	TOTAL P.T.S.	SOLIDS %	
5	CONDITION MUD & CRACKLE			187.48	TOTAL HRS. RUN		
6	TRIPS			30.71 FT.	STANDS UP		
7	LUBRICATE RIG			30.71 FT.	SHOLES UP		
8	REPAIR RIG			30.71 FT.	KELLY DOWN		
9	SHUTTING LINE			30.71 FT.	TOTAL		
10	DEVIATION SURVEY				WT. OF STRING		
11	WIRE LINE LOSS						
12	RUN CASING & CEMENT						
13	WAIT ON CEMENT						
14	NEPPEL UP B.P.						
15	TEST B.O.P.						
16	DRILL STEM TEST						
17	PLUG BACK						
18	REMOVE CEMENT						
19	FISHING						
20	DR. WORK						
21							
22							
23							

TIME DISTRIBUTION - HOURS				NO.	DRILLING ASSEMBLY (At end of hour)	BIT RECORD	MUD RECORD
CODE NO.	OPERATION	WORK	DAY EVE.				
1	RIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	SIZE	TIME
2	DRILL ACTUAL			6 1/4 DC	SIZE	WEIGHT	
3	REAMING			1 X 0	DEPTH IN	PH	
4	CORING			BHA	TOTAL P.T.S.	SOLIDS %	
5	CONDITION MUD & CRACKLE			187.48	TOTAL HRS. RUN		
6	TRIPS			30.71 FT.	STANDS UP		
7	LUBRICATE RIG			30.71 FT.	SHOLES UP		
8	REPAIR RIG			30.71 FT.	KELLY DOWN		
9	SHUTTING LINE			30.71 FT.	TOTAL		
10	DEVIATION SURVEY				WT. OF STRING		
11	WIRE LINE LOSS						
12	RUN CASING & CEMENT						
13	WAIT ON CEMENT						
14	NEPPEL UP B.P.						
15	TEST B.O.P.						
16	DRILL STEM TEST						
17	PLUG BACK						
18	REMOVE CEMENT						
19	FISHING						
20	DR. WORK						
21							
22							
23							

TIME DISTRIBUTION - HOURS				NO.	DRILLING ASSEMBLY (At end of hour)	BIT RECORD	MUD RECORD
CODE NO.	OPERATION	WORK	DAY EVE.				
1	RIG UP AND TEAR DOWN			1	BIT 8 1/2 .75 FT.	SIZE	TIME
2	DRILL ACTUAL			6 1/4 DC	SIZE	WEIGHT	
3	REAMING			1 X 0	DEPTH IN	PH	
4	CORING			BHA	TOTAL P.T.S.	SOLIDS %	
5	CONDITION MUD & CRACKLE			187.48	TOTAL HRS. RUN		
6	TRIPS			30.71 FT.	STANDS UP		
7	LUBRICATE RIG			30.71 FT.	SHOLES UP		
8	REPAIR RIG			30.71 FT.	KELLY DOWN		
9	SHUTTING LINE			30.71 FT.	TOTAL		
10	DEVIATION SURVEY				WT. OF STRING		
11	WIRE LINE LOSS						
12	RUN CASING & CEMENT						
13	WAIT ON CEMENT						
14	NEPPEL UP B.P.						
15	TEST B.O.P.						
16	DRILL STEM TEST						
17	PLUG BACK						
18	REMOVE CEMENT						
19	FISHING						
20	DR. WORK						
21							
22							
23							

WIRE LINE RECORD	REEL NO.	NO. LINES	PT. SLIPPED
SIZE			
PT. CUT OFF			
PRESENT LENGTH			
TORN HL OR TRIPS SINCE LAST CUT			
CUMULATIVE TORN HL OR TRIPS			

FOOTAGE	DR. D IN. - R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
3551									

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3537		24°							
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS 12:00 12:30 12:30 4:00 4:00 8:00 Core Condition Fair Trip out Lay down standing rig, a DC. Trip in Break circ. 20 stands in									

FOOTAGE	DR. D IN. - R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
3581 3567	0				60	5000	600	5 1/2	52

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
800	900	1	6	900	400	7	2		
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS 9:00 4:00 Trip in Hole, Brake circ. delay									

FOOTAGE	DR. D IN. - R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
3567 3588	0				60	5000	600	5 1/2	52

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4:00	12:00	8	2						
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS 4:00 12:00 Delay									

FOOTAGE	DR. D IN. - R CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
3567 3588	0				60	5000	600	5 1/2	52



LEASE <b>45-14</b>	WELL NO.	API WELL NUMBER	DATE <b>1-15-88</b>
OPERATOR <b>Space Geothermal</b>	CONTRACTOR <b>Calvert Western</b>		RIG NO. <b>5</b>
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE <b>3/4</b>	WT./FT. <b>12.30</b>	GRADE <b>E</b>	TOOL JT & TYPE <b>4 3/4 IF</b>
STRING NO.	PUMP NO.	PUMP MANUFACTURER <b>Garwood-Denver</b>	TYPE <b>EXN</b>
			STRENGTH <b>14</b>

WIRE LINE RECORD	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
SIZE	NO. LINES	PT. CLIPPED	PT. CUT OFF							
TON IN. OR TRIPS SINCE LAST CUT										
CUMULATIVE TON IN. OR TRIPS										

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	NORM.	DAY	EVG.	NO.	BIT	SIZE	FT.	BIT NO.	TIME	WEIGHT
1	NO UP AND TEAR DOWN				1	BIT	8 1/2	.75	3R	12:00	8.8
2	DRILL ACTUAL	8	2		6	D.C.	6 1/2	145.05	VALVE	12:00	8.8
3	REAMING								VALVE		
4	CORING								VALVE		
5	CONVENTIONAL MUD								VALVE		
6	TRIPS								VALVE		
7	LUBRICATE RIG								VALVE		
8	REPAIR RIG								VALVE		
9	CUT OFF DRILLING LINE				55	STANDS UP		339.27	VALVE		
10	DEVIATION SURVEY								VALVE		
11	WIRE LINE LOSS	4	8						VALVE		
12	RUN CASING & CEMENT								VALVE		
13	WAIT ON CEMENT								VALVE		
14	TRIPLE UP B.O.P.								VALVE		
15	TEST B.O.P.								VALVE		
16	DRILL STEM TEST								VALVE		
17	PLUG BACK								VALVE		
18	SQUEEZE CEMENT								VALVE		
19	FINISH								VALVE		
20	DR. WORK								VALVE		
21									VALVE		
22									VALVE		
23									VALVE		
24									VALVE		
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100									VALVE		

FOOTAGE		DR. D. CORE	FORMATION	ROTARY	WT. ON BIT	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO	NO. CORE	(SHOW CORE RECOVERY)	RPM	100'	PSI	LINER SIZE	S.P.M.	LINER SIZE
3588	3602	0		60	3000	500	5 1/4	55	

FOOTAGE		DR. D. CORE	FORMATION	ROTARY	WT. ON BIT	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO	NO. CORE	(SHOW CORE RECOVERY)	RPM	100'	PSI	LINER SIZE	S.P.M.	LINER SIZE
3602	3610	0		60	5000	600	5 1/4	58	6 1/4

FOOTAGE		DR. D. CORE	FORMATION	ROTARY	WT. ON BIT	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO	NO. CORE	(SHOW CORE RECOVERY)	RPM	100'	PSI	LINER SIZE	S.P.M.	LINER SIZE
3610	3610	0		60	5000	600	5 1/4	58	6 1/4

FOOTAGE		DR. D. CORE	FORMATION	ROTARY	WT. ON BIT	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO	NO. CORE	(SHOW CORE RECOVERY)	RPM	100'	PSI	LINER SIZE	S.P.M.	LINER SIZE
3610	3610	0		60	5000	600	5 1/4	58	6 1/4

FOOTAGE		DR. D. CORE	FORMATION	ROTARY	WT. ON BIT	PUMP PRESS.	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO	NO. CORE	(SHOW CORE RECOVERY)	RPM	100'	PSI	LINER SIZE	S.P.M.	LINER SIZE
3610	3610	0		60	5000	600	5 1/4	58	6 1/4



DAILY DRILLING REPORT REPORT NO.

LEASE <b>45-14</b>	WELL NO.	API WELL NUMBER	DATE <b>6-17-83</b>
OPERATOR <b>Grace Petroleum</b>	CONTRACTOR <b>Calwest Western</b>		
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>Nordy Tollen</i>	SIGNATURE OF CONTRACTOR'S TOOL PUSHER		
R.P. SIZE <b>3/2</b>	WT./FT. <b>13.50</b>	GRADE <b>E</b>	TOOL JT. O.D. <b>4 3/4</b>
TYPE THREAD <b>1 1/2</b>	STRING NO.	PUMP NO.	PUMP MANUFACTURER <b>Garwood-Dawson</b>
TYPE <b>EXAL</b>	STROKES PER MIN.	<b>14</b>	

FIELD OR DIST. <b>Davis</b>	COUNTY <b>Humant</b>	STATE <b>Nevada</b>	WIRE LINE RECORD	REEL NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET
REEL TO C.C. NO.	SET AT	SIZE	NO. LINES	FT. LINES
PT. CUT OFF	PRESENT LENGTH			
TOM IN. OR TRIPS SINCE LAST CUT				
CUMULATIVE TOM IN. OR TRIPS				

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	1	BIT	SIZE	FT.	BIT NO.	SIZE	TIME
1	DR UP AND TEAR DOWN					8 1/2	8 1/2	73	2 RR	8 1/2	1200 5:00 7:30
2	DRILL ACTUAL	4	7		6	D.C. ID	6 1/4	145.05	TYPE	EP62J	WEIGHT
3	REAMING					FT.			FT.	MPG	8 1/2
4	CONING					FT.			JETS 1/2"	OPEN	PRESSURE GRADIENT
5	CONDITION MUD & CIRCULATE	1	2			D.C. ID			FT.	SER. NO.	49 44 45
6	TRIPS					FT.			DEPTH OUT		VISC.-SEC.
7	LUBRICATE HO				1	XO		1.68	DEPTH IN	3610	PV/TP
8	REPAIR HO								TOTAL FT.		GELS
9	CHG P.P. & LINE								TOTAL HRL RUN	114	ML -CC'S
10	DEVIATION SURVEY				56	STANDS DP			CONC. 1/2" 7/8" GAGE		PH
11	WIRE LINE LOGS				1	SHOLES DP			SPM/PS-PH		SOLIDS %
12	RUN CASING & CEMENT					KELLY DOWN					
13	WAIT ON CEMENT					TOTAL					
14	HOFFLE UP B.O.P.					WT. OF STRING		10,000	LBS.		

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
3676	3689	D			50	5000	600	5 1/2	55	
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
		2:00	8:00	6	2	DRILL				

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	1	BIT	SIZE	FT.	BIT NO.	SIZE	TIME
1	DR UP AND TEAR DOWN					8 1/2	8 1/2	75	2 RR	8 1/2	9:00 12:00 3:00
2	DRILL ACTUAL				6	D.C. ID	6 1/4	145.06	TYPE	EP62J	WEIGHT
3	REAMING					FT.			FT.	MPG	8 1/2
4	CONING					FT.			JETS 1/2"	OPEN	PRESSURE GRADIENT
5	CONDITION MUD & CIRCULATE					D.C. ID			FT.	SER. NO.	49 47 45
6	TRIPS					FT.			DEPTH OUT		VISC.-SEC.
7	LUBRICATE HO				1	XO		1.68	DEPTH IN	3610	PV/TP
8	REPAIR HO								TOTAL FT.	93	GELS
9	CHG P.P. & LINE								TOTAL HRL RUN	122	ML -CC'S
10	DEVIATION SURVEY				56	STANDS DP			CONC. 1/2" 7/8" GAGE		PH
11	WIRE LINE LOGS				1	SHOLES DP			SPM/PS-PH		SOLIDS %
12	RUN CASING & CEMENT					KELLY DOWN					
13	WAIT ON CEMENT					TOTAL					
14	HOFFLE UP B.O.P.					WT. OF STRING		70,000	LBS.		

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
3689	3703	D			50	5000	600	5 1/2	52	6 1/2 PHS 5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
		8:00	3:00	7	2	dclg				
		3:00	4:00	1	5	circulate and condition and Hole For Tubing				

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	1	BIT	SIZE	FT.	BIT NO.	SIZE	TIME
1	DR UP AND TEAR DOWN					8 1/2	8 1/2	75	2 RR	8 1/2	11:30
2	DRILL ACTUAL				6	D.C. ID	6 1/4	145.05	TYPE	EP62J	WEIGHT
3	REAMING					FT.			FT.	MPG	8 1/2
4	CONING					FT.			JETS 1/2"	OPEN	PRESSURE GRADIENT
5	CONDITION MUD & CIRCULATE					D.C. ID			FT.	SER. NO.	49 55 45
6	TRIPS					FT.			DEPTH OUT		VISC.-SEC.
7	LUBRICATE HO				1	XO		1.68	DEPTH IN	3610	PV/TP
8	REPAIR HO								TOTAL FT.	93	GELS
9	CHG P.P. & LINE								TOTAL HRL RUN	122	ML -CC'S
10	DEVIATION SURVEY				56	STANDS DP			CONC. 1/2" 7/8" GAGE		PH
11	WIRE LINE LOGS				1	SHOLES DP			SPM/PS-PH		SOLIDS %
12	RUN CASING & CEMENT					KELLY DOWN					
13	WAIT ON CEMENT					TOTAL					
14	HOFFLE UP B.O.P.					WT. OF STRING		52,000	LBS.		

FOOTAGE		DE. D. RE. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO									
3703										
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
		4:00	6:30	2 1/2	5	Circ. + cand. hole				
		6:30	7:30	1	6	Trip out 30' stds				
		7:30	12:00	4 1/2	9	Circ. + cand. hole				

Will Speed 150-26  
Circ. P.S. 600-52  
DRILLER *Chris Z...*

DRILLER *Carry Handley*

LEAD 45-14 WELL NO. API WELL NUMBER DATE 1-18-82

OPERATOR *Grime Geothermal* CONTRACTOR *Calwest Western* RIG NO. 5

SIGNATURE OF OPERATOR'S REPRESENTATIVE *Jody Gallon* SIGNATURE OF CONTRACTOR'S TOOL PUSHER

S.P. RES. 3 1/2 WT. 13.76 GRADE E TOOL JT & D. TYPE 2 3/4 IE STRINGS NO. 1 PUMP NO. 1 PUMP MANUFACTURER Q-D TYPE FW STROKES PER MIN 144

FIELD OR DIST. *Denia* COUNTY *Humboldt* STATE *Alameda*

WIRE LINE RECORD

SIZE MAKE WT. & GR. NO. JOINTS FEET PER JOINT BY AT

LAST CASING TUBING OR LINER

TON IN. OR TRIPS SINCE LAST CUT

CUMULATIVE TON IN. OR TRIPS

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	NO.	FT.	BIT NO.	SIZE	TIME	WEIGHT
1	RIG UP AND TEST DOWN			1	75	2RR	2 3/4		
2	DRILL ACTUAL			6	14505	REED	2 3/4		
3	REAMING					OPEN			
4	CORING					37558			
5	CONDITION MUD & CIRCULATE	8:30							
6	TRIPS	8:30		1	1.68				
7	LUBRICATE RIG								
8	REPAIR RIG								
9	DRILLING LINE								
10	DEVIATION SURVEY			26	187.48				
11	WIRE LINE LOSS								
12	RUN CASING & CEMENT								
13	WAIT ON CEMENT								
14	HOIST UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	PROBING								
20	DRILL WORK								
21	Lay Down B.P.	4:19							
22									

FOOTAGE		DR. D. IN. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	METHOD RUN
FROM	TO										
3703											

  

DEVIATION RECORD			DEPTH			DEV.			DIRECTION		
DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
12:00	8:00										
Circ wait on tubing 30 Abt. at Bottom											

COMPLETION				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
A. PERM'ITH	B. TRO TRIPS	C. TREATING	D. SWABING	E. TESTING	F. ABST'VAL	G.	NO.	FT.	BIT NO.
							1	75	2RR
							1	14505	REED
							1	3703	OPEN
							1	3600	37558
							1	23	
							1	122	

FOOTAGE		DR. D. IN. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	METHOD RUN
FROM	TO										
3703								400	525R	62	AK 5

  

DEVIATION RECORD			DEPTH			DEV.			DIRECTION		
DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2:00	10:00										
10:00	10:30										
10:50	12:00										
12:00	4:00										
Circulate and condition Hole For tubing Kill Speed 1000 RPM Circ PSI 600-52											

TOTALS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
NO. OF DAYS DRILLING	CONCRETE	ROTATING MRL	TOTAL MUD COST	NO.	FT.	BIT NO.	SIZE	TIME	WEIGHT
14				1	75	2RR	2 3/4		
				6	14505	REED	2 3/4		
				1	3703	OPEN			
				1	3600	37558			
				1	23				
				1	122				

FOOTAGE		DR. D. IN. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	METHOD RUN
FROM	TO										
4:00	9:00										
5:00	8:00										
8:00	9:00										
9:00	12:00										
Lay down D.C. Break Kelly 14 Nipple down 23 Strip 119 JTs tubing 6 Rig up for run tubing + run tubing - filler 10 JTs.											

OPERATOR <b>Arnie Beathorn</b> SIGNATURE OF OPERATOR'S REPRESENTATIVE		CONTRACTOR <b>Alvord Western</b> SIGNATURE OF CONTRACTOR'S TOOL PUSHER		RIG NO. <b>5</b>	FIELD OR DIST. <b>Davis</b>	COUNTY <b>Humboldt</b>	STATE <b>NEVADA</b>	WIRE LINE RECORD SIZE _____ NO. LINES _____	REEL NO.	PT. CLIPPED									
B.P. SIZE <b>3 1/2</b>	WT./FT. <b>13.30</b>	GRADE <b>E</b>	TOOL JT. O.D. <b>4 3/4</b>	TYPE <b>IF</b>	STRINGS NO.	PUMP NO. <b>1</b>	PUMP MANUFACTURER <b>GP-</b>	TYPE <b>FXV</b>	STROKES PER MIN. <b>14</b>	LAST CASING TUBING OR LINER <b>2 3/8</b>	NO. JOINTS <b>116</b>	FEET <b>5697</b>	REEL TO C.S.A. NO.	SET AT	PT. CUT OFF	PERCENT LENGTH			
TIME DISTRIBUTION - HOURS											FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. LINDER SIZE	PUMP NO. S.P.A. LINDER SIZE	PUMP NO. S.P.A. LINDER SIZE	METHOD RUN

CODE NO.	OPERATION	MORN.	DAY	EVE.	DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD		
					NO.	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT	
1	RIG UP AND TEAR DOWN		<b>8</b>								
2	DRILL ACTUAL				STB RHR	OD	FT.	MPG			
3	REAMING				D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
4	CORING				STB RHR	OD	FT.	SETS 1/2"	PV/TP		
5	CONDITION MUD & CIRCULATE				D.C. ID	OD	FT.	SER. NO.	GELS		
6	TRIPS				STB RHR	OD	FT.	DEPTH OUT	ML -CC'S		
7	LUBRICATE RIG							DEPTH IN	pH		
8	REPAIR RIG							TOTAL FTG.	SOLIDS %		
9	ADD MUD TO DRILLING LINE				STANDS DP	FT.		TOTAL HRS RUN			
10	DEVIATION SURVEY				SINGLES DP	FT.		MUD & CHEMICALS ADDED			
11	WIRE LINE LOGS				KELLY DOWN	FT.		TYPE	AMT.	TYPE	AMT.
12	STOP CASING & CEMENT				TOTAL	FT.					
13	WAIT ON CEMENT				WT. OF STRING	LBS.					
14	HOPE UP B.G.P.										
15	DRILL STEM TEST										
16	PLUS BACK										
17	SQUEEZE CEMENT				STB RHR	OD	FT.	MPG			
18	FISHING				D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
19	DR. WORK				STB RHR	OD	FT.	SETS 1/2"	PV/TP		
20					D.C. ID	OD	FT.	SER. NO.	GELS		
21					STB RHR	OD	FT.	DEPTH OUT	ML -CC'S		
22								DEPTH IN	pH		
23								TOTAL FTG.	SOLIDS %		
	A. PERM'ITH							TOTAL HRS RUN			
	B. YOG TRIPS							MUD & CHEMICALS ADDED			
	C. TREATING				STANDS DP	FT.		TYPE	AMT.	TYPE	AMT.
	D. DRAMMING				SINGLES DP	FT.					
	E. TESTING				KELLY DOWN	FT.					
	F. ADD'NL				TOTAL	FT.					
	G.				WT. OF STRING	LBS.					
TOTALS											
DAY WORK TIME SUMMARY (OFFICE USE ONLY)											
MRS. W/DRY B.P.					STB RHR	OD	FT.	MPG			
MRS. W/OPR B.P.					D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
MRS. W/DR.P.					STB RHR	OD	FT.	SETS 1/2"	PV/TP		
MRS. STANDBY					D.C. ID	OD	FT.	SER. NO.	GELS		
					STB RHR	OD	FT.	DEPTH OUT	ML -CC'S		
								DEPTH IN	pH		
								TOTAL FTG.	SOLIDS %		
								TOTAL HRS RUN			
					STANDS DP	FT.		MUD & CHEMICALS ADDED			
					SINGLES DP	FT.		TYPE	AMT.	TYPE	AMT.
					KELLY DOWN	FT.					
					TOTAL	FT.					
					WT. OF STRING	LBS.					
NO. OF DAYS FROM RIG START	<b>15</b>										
CUMULATIVE ROTATING HRS.											
TOTAL MUD COST											

FOOTAGE		DR. D. IN. CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. LINDER SIZE	PUMP NO. S.P.A. LINDER SIZE	PUMP NO. S.P.A. LINDER SIZE	METHOD RUN
FROM	TO										
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
MORNING TOUR		12:00	2:30			Run tubing to 3689 116 JTS 2 3/8 EUE - SET @ 3684 E.S.					
DAY TOUR		2:30	8:00			WASH pumps & pits - fill tubing w/ water					
EVENING TOUR						Rig Released 12:00 noon					
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
DAY TOUR		8:00	4:00	8	1	TEAR DOWN					
EVENING TOUR		10:00	6:00	8	1	Rig down					
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
TIME LOG		FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
DAY TOUR		10:00	6:00	8	1	Rig down					
EVENING TOUR						Cut 33 wraps dty line					





DAILY DRILLING REPORT REPORT NO.

LEASE <b>NS-14</b>	WELL NO.	API WELL NUMBER	DATE <b>1-21-83</b>
OPERATOR <b>Grace Geo.</b>	CONTRACTOR <b>Calvert Western Expl.</b>		RIG NO. <b>5</b>
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE <b>3/2</b>	WT./FT. <b>13.30</b>	GRADE <b>E</b>	TOOL JT O.D. <b>4 1/2</b>
TYPE <b>IF</b>	STRING NO. <b>1</b>	PUMP NO. <b>2</b>	PUMP MANUFACTURER <b>Gardner Denver</b>
		TYPE <b>EXN</b>	STROKES PER MIN. <b>14</b>

FIELD OR DIST.	COUNTY	STATE <b>Nevada</b>	WIRE LINE RECORD	REEL NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET
LAST CASING TUBING OR LINER				
SIZE	NO. LINES <b>8</b>	PT. SLIPPED	PT. CUT OFF	
TON MI. OR TRIPS SINCE LAST CUT				
CUMULATIVE TON MI. OR TRIPS				

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	WORK	DAY	BY	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
1	RIG UP AND TEST DOWN				STB	OD	FT.	MFG.	PRESSURE GRADIENT		
2	DRILL ACTUAL				D.C.	ID	OD	PT.	TYPE	VISC.-SEC.	
3	REANNING				STB	RDR	OD	PT.	JETS 1/2"	PV/VP	
4	CORING				D.C.	ID	OD	PT.	SER. NO.	GELS	
5	CONDITION MUD & CIRCULATE				STB	RDR	OD	PT.	DEPTH OUT	ML -CC'S	
6	TRIPS								DEPTH IN	pH	
7	LUBRICATE RIG								TOTAL FTE.	SOLIDS %	
8	REPAIR RIG								TOTAL HRS RUN		
9	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. L/F, T/W GAGE		MUD & CHEMICALS ADDED		
10	DEVIATION SURVEY				SINGLES DP	FT.	OPW PD-PH		TYPE	AMT.	
11	WIRE LINE LOGS				KELLY DOWN	FT.			TYPE	AMT.	
12	RUN CASING & CEMENT				TOTAL	FT.					
13	WAIT ON CEMENT				WT. OF STRING	LBS.					

FOOTAGE		DR. D RE-S CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. P.M.H.P.	METHOD RUN
FROM	TO										

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					

**3002 Rig to Reno**

COMPLETION				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
A	B	C	D	E	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
PERF'RT'N	TBD TRIPS	TREATING	FRABBING	TESTING	STB	OD	FT.	MFG.	PRESSURE GRADIENT		
					D.C.	ID	OD	PT.	TYPE	VISC.-SEC.	
					STB	RDR	OD	PT.	JETS 1/2"	PV/VP	
					D.C.	ID	OD	PT.	SER. NO.	GELS	
					STB	RDR	OD	PT.	DEPTH OUT	ML -CC'S	
									DEPTH IN	pH	
									TOTAL FTE.	SOLIDS %	
									TOTAL HRS RUN		
					STANDS DP	FT.	COND. L/F, T/W GAGE		MUD & CHEMICALS ADDED		
					SINGLES DP	FT.	OPW PD-PH		TYPE	AMT.	
					KELLY DOWN	FT.			TYPE	AMT.	
					TOTAL	FT.					
					WT. OF STRING	LBS.					

FOOTAGE		DR. D RE-S CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. P.M.H.P.	METHOD RUN
FROM	TO										

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					

TOTALS				NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
DAY WORK TIME MINUTE (OFFICE USE ONLY)	WEL W/CONTR. D.P.	WEL W/OPS. D.P.	WEL W/D.P.	WEL STANDBY	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
					STB	OD	FT.	MFG.	PRESSURE GRADIENT		
					D.C.	ID	OD	PT.	TYPE	VISC.-SEC.	
					STB	RDR	OD	PT.	JETS 1/2"	PV/VP	
					D.C.	ID	OD	PT.	SER. NO.	GELS	
					STB	RDR	OD	PT.	DEPTH OUT	ML -CC'S	
									DEPTH IN	pH	
									TOTAL FTE.	SOLIDS %	
									TOTAL HRS RUN		
					STANDS DP	FT.	COND. L/F, T/W GAGE		MUD & CHEMICALS ADDED		
					SINGLES DP	FT.	OPW PD-PH		TYPE	AMT.	
					KELLY DOWN	FT.			TYPE	AMT.	
					TOTAL	FT.					
					WT. OF STRING	LBS.					

FOOTAGE		DR. D RE-S CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M. LINER SIZE	PUMP NO. S.P.M. P.M.H.P.	METHOD RUN
FROM	TO										

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG	FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					

**8:00 8:30 9/2 1 Rig down - Move Rig. - Fence RESERVEP**