

MZ I-11a

PRUETT INDUSTRIES, INC.  
8905 ROSEDALE HWY. BAKERSFIELD, CA. 93312  
(805) 589-2768 TELEX 4992440 PRUETT INT.

SUB-SURFACE TEMPERATURE SURVEY

CO. CAL ENERGY	RUN 01 FIELD CRATER LAKE	WELL MZ1-11A
EFF DEPTH <del>4760'</del> 4670'	WELL STAT STATIC	TOOL HUNG
CASING 575'	CASING PRESS	ON BOTTOM 2:21PM
LINER -	TUBING PRESS	OFF BOTTOM 2:31PM
DATE 092389	ELEMENT RANGE 29 - 440	ZERO POINT 0'
ELEVATION	ZONE	SHUT-IN
MAX TEMP	PICK-UP 4635'	ON-PROD
PERF -	CAL SER NO. 31	MPP
TUBING 1 1/2" TO -4760'		
UNITS ENGLISH	PURPOSE	STATIC TEMPERATURE GRADIENT

SURVEY DATA

CO. CAL ENERGY				RUN 01 FIELD CRATER LAKE				WELL MZ1-11A			
TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD
1:00	100	55.7	0.000	1:00	2500	254.6	.018				
1:00	200	201.8	1.461	1:00	2600	256.4	.018				
1:00	300	205.0	.032	1:00	2700	257.2	.008				
1:00	400	207.0	.020	1:00	2800	258.8	.016				
1:00	500	207.2	.002	1:00	2900	260.0	.012				
1:00	600	207.2	0.000	1:00	3000	261.2	.012				
1:00	700	207.6	.004	1:00	3100	260.2	-.010				
1:00	800	209.4	.018	1:00	3200	263.0	.028				
1:00	900	209.8	.004	1:00	3300	264.2	.012				
1:00	1000	210.0	.002	1:00	3400	264.8	.006				
1:00	1100	209.0	-.010	1:00	3500	265.2	.004				
1:00	1200	208.6	-.004	1:00	3600	264.0	-.012				
1:00	1300	234.4	.259	1:00	3700	262.8	-.012				
1:00	1400	235.1	.006	1:00	3800	263.6	.008				
1:00	1500	235.1	0.000	1:00	3900	264.2	.006				
1:00	1600	237.2	.022	1:00	4000	264.2	0.000				
1:00	1700	238.4	.012	1:00	4100	263.2	-.010				
1:00	1800	240.6	.022	1:00	4200	263.0	-.002				
1:00	1900	242.2	.016	1:00	4300	262.6	-.004				
1:00	2000	237.6	-.046	1:00	4400	262.4	-.002				
1:00	2100	244.8	.072	1:00	4500	262.2	-.002				
1:00	2200	248.2	.034	1:00	4600	262.0	-.002				
1:00	2300	250.8	.026	1:00	4635	261.6	-.011				
1:00	2400	252.8	.020	0:00	0	0.0	0.000				

RUN BY S WILSON / T DRIVER

PRUETT INDUSTRIES, INC.  
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SUB-SURFACE PRESSURE SURVEY

CO. CAL ENERGY		RUN 1A FIELD CRATER LAKE	WELL MZI-11A
EFF DEPTH 4760'		WELL STAT STATIC	TOOL HUNG
CASING	-	CASING PRESS	ON BOTTOM 2:21PM
LINER	-	TUBING PRESS	OFF BOTTOM 2:31PM
DATE 092389		ELEMENT RANGE 0 - 2074	ZERO POINT 0
ELEVATION		ZONE	SHUT-IN
MAX TEMP		PICK-UP 4635'	ON-PROD
PERF	-	CAL SER NO. 29490	MPP
TUBING 1 1/2" TO	<del>4760'</del>		
UNITS ENGLISH	4670'	PURPOSE	STATIC PRESSURE GRADIENT
	T. D.		

SURVEY DATA

CO. CAL ENERGY			RUN 1A FIELD CRATER LAKE		WELL MZI-11A		
TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD
1:00	0	.0	0.000	1:00	1300	32.0	.107
1:00	1000	.0	0.000	1:00	1500	113.5	.407

APPX. FLUID LEVEL 1220'  
 RUN BY S WILSON / T DRIVER

*MZI-11a*

