

WELL NAME & NUMBER Uncle Sam "13" Fed. #1

LOCATION Section 13, T18S, R32E, Wildcat COCHIN DELTA WALK WEST- 790/E +
(Give Unit, Section, Township and Range) 76SD/N

OPERATOR Maralo, Inc. P. O. Box 832, Midland, Texas 79702

DRILLING CONTRACTOR J.S.M. Drilling Co. P. O. Box 69010 Odessa, TX 79769

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results;

<u>Degrees @ Depth</u>	<u>Degrees & Depth</u>	<u>Degrees @ Depth</u>
<u>.50 244</u>	<u>.25 4574</u>	<u> </u>
<u>.50 458</u>	<u>.25 5071</u>	<u> </u>
<u>.50 948</u>	<u>.25 5200</u>	<u> </u>
<u>.25 1439</u>	<u> </u>	<u> </u>
<u>.25 1917</u>	<u> </u>	<u> </u>
<u>1.50 2170</u>	<u> </u>	<u> </u>
<u>2.00 2326</u>	<u> </u>	<u> </u>
<u>2.00 2490</u>	<u> </u>	<u> </u>
<u>1.75 2635</u>	<u> </u>	<u> </u>
<u>1.75 2802</u>	<u> </u>	<u> </u>
<u>1.00 2951</u>	<u> </u>	<u> </u>
<u>.75 3337</u>	<u> </u>	<u> </u>
<u>.50 3585</u>	<u> </u>	<u> </u>
<u>.50 4085</u>	<u> </u>	<u> </u>

DRILLING CONTRACTOR Jim A. James
BY: Jim A. James, President

Subscribed and sworn to before me this 14th day of July, 19 93



Terri Hammick
Notary Public

My Commission Expires: June 7, 1997 Lea County New Mexico

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DELTA TIME HRS	DEPTH FEET	TEMPERATURE F	COMMENTS
0.000	1000.00	79.00	
0.331	1730.00	82.50	BREAK
0.364	1792.00	146.50	
0.367	1813.00	146.00	
0.383	1854.00	147.50	
0.400	1895.00	145.75	
0.414	1915.00	147.00	
0.433	1976.00	147.00	
0.464	2004.00	153.00	
0.483	2091.00	131.75	
0.500	2128.00	142.25	
0.514	2147.00	137.75	
0.531	2166.00	140.25	
0.533	2200.00	139.00	
0.550	2236.00	163.25	
0.583	2305.00	151.50	
0.614	2338.00	175.00	
0.633	2444.00	129.00	
0.667	2524.00	177.00	
0.717	2636.00	117.00	
0.731	2654.00	137.75	
0.733	2672.00	110.25	
0.750	2711.00	142.50	
0.767	2750.00	99.50	
0.797	2830.00	115.25	
0.814	2889.00	99.00	
0.833	2930.00	110.25	
0.850	2951.00	101.75	
0.864	2994.00	108.25	
0.897	3013.00	103.00	
0.900	3051.00	108.75	
0.914	3109.00	105.00	
0.944	3128.00	106.75	
0.950	3157.00	102.00	
0.964	3204.00	105.00	
0.983	3264.00	108.25	
1.000	3306.00	101.50	
1.033	3439.00	104.00	
1.064	3455.00	101.25	
1.083	3511.00	106.75	
1.117	3592.00	100.50	
1.133	3634.00	103.25	
1.150	3675.00	102.00	
1.164	3697.00	103.50	
1.167	3719.00	101.50	
1.183	3762.00	111.25	
1.200	3803.00	105.50	
1.217	3842.00	108.00	
1.247	3906.00	101.50	

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GAUGE S/N: 29240

DELTA TIME HRS	DEPTH FEET	TEMPERATURE °F	COMMENTS
1.250	3928.00	103.50	
1.283	4016.00	101.50	
1.300	4061.00	112.50	
1.317	4107.00	103.50	
1.333	4155.00	110.00	
1.350	4206.00	102.50	
1.367	4254.00	103.50	
1.383	4305.00	102.25	
1.397	4330.00	107.50	
1.433	4449.00	101.75	
1.450	4499.00	113.50	
1.483	4600.00	102.00	
1.500	4650.00	105.00	
1.517	4698.00	100.50	
1.564	4823.00	103.50	
1.617	4998.00	102.00	
1.633	5050.00	103.00	
1.650	5101.00	101.25	
1.667	5121.00	107.50	MDR

DATE & TIME CEMENT JOB COMPLETE: JULY 13, 1993 @ 8:15 AM

DATE & TIME SURVEY MADE: JULY 13, 1993 @ 6:30 PM

AMOUNT & TYPE OF CEMENT USED: 2175 SACKS HALIBURTON LITE W/ 9# SALT, 1/4# FLO SEAL,
150 SACKS 50:50 POSMIX, 3# KCL & 3/10% HALID 9 RAN
BEHIND 5150' of 5 1/2" CASING IN A 7 7/8" HOLE.

DEPTH FIGURED FROM: K.B.

TOP CEMENT: 1730'

MAX. DEPTH REACHED: 5121'

CLOCK NO.: 24903 (0-3 HR)

MARKALO INC.
TEMPERATURE SURVEY
UNCLE SAM FEDERAL NO. 1
LEA COUNTY, NEW MEXICO
JULY 13, 1993

