

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
BBS, NEW MEXICO 88240
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ ☐		2. NAME OF OPERATOR MARALO, INC.	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. DESVR ☒ Other RE-ENTRY		3. ADDRESS AND TELEPHONE NO. P. O. BOX 832, MIDLAND, TX 79702 (915) 684-7441	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 660' FML, UNIT M At top prod. Interval reported below At total depth 660' FSL & 660' FML, UNIT M			
14. PERMIT NO.		DATE ISSUED	
15. DATE RECDDED 09/01/94		16. DATE T.D. REACHED -	
17. DATE COMPL. (Ready to prod.) N/A		18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3797' GR	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 8830'	
21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*	
25. WAS DIRECTIONAL SURVEY MADE NO		26. 1993 ELECTRIC AND OTHER LOGS RUN DLL/MSFL/GR/CAL; CML/LDT/GR/CAL 1994 GR/CBL/CCL	
27. WAS WELL CORED NO		28. CASING RECORD (Report all strings set in well)	
CASING SIZE/GRADE		WEIGHT, LB./FT.	
13-3/8"		48# & 54.5#	
8-5/8"		24# & 32#	
5-1/2"		17#	
DEPTH SET (MD)		HOLE SIZE	
857'		17-1/2"	
4520'		12-1/4"	
8832		7-7/8"	
TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED	
900 SXS CL. C		782' TOC	
1350 SXS CL. C, TAIL W/ 150 SXS CL. C		4471' TOC	
675 SXS HL, TAIL W/600 SXS 50/50		3070' TOC	
29. LINER RECORD		30. TUBING RECORD	
SIZE		SIZE	
TOP (MD)		DEPTH SET (MD)	
BOTTOM (MD)		PACKER SET (MD)	
SACKS CEMENT*		SCREEN (MD)	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
ZONE #1 8553 - 8582' (10 HOLES)		DEPTH INTERVAL (MD)	
ZONE #2 8045 - 8077' (10 HOLES)		AMOUNT AND KIND OF MATERIAL USED	
ZONE #3 7642 - 7655' (20 HOLES)		FRAC ZONE #1 - 12,500 GALS SPECTRA-FRAC G-3000 + 27,000# SAND	
ZONE #4 7269 - 7395' (19 HOLES)		FRAC ZONE #2 - 14,000 GALS SPECTRA-FRAC G-3000 + 30,000# SAND	
ZONE #5 7145 - 7153' (18 HOLES)		FRAC ZONE #3 - 9,500 GALS SPECTRA-FRAC G-3000 + 20,500# SAND	
33.*		FRAC ZONE #4 - 21,000 GALS SPECTRA-FRAC G-3000 + 45,000# SAND	
DATE FIRST PRODUCTION		CENT SQZ'D ZONE #5 - 150 SXS PREM. (NO SUCCESS)	
N/A		RE-SQZ'D ZONE #5 - 150 SXS PREM. (SUCCESS) (Producing or shut-in)	
PRODUCTION METHOD (Flowing, gas lift, pump)		HOLDING WELLBORE FOR FUTURE SMD	
DATE OF TEST		HOURS TESTED	
CHOKE SIZE		PROD'N. FOR TEST PERIOD	
OIL—BBL.		GAS—SCF	
WATER—BBL		GAS-OIL RATIO	
FLOW, TUBING PRESS.		CASING PRESSURE	
CALCULATED 24-HOUR RATE		OIL—BRL	
GAS—MCF		OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		35. LIST OF ATTACHMENTS	
TEMPERATURE SURVEY		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED Donna L. Logan		TITLE REGULATORY ANALYST	
DATE DECEMBER 6, 1994			

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME		MEAS. DEPTH	
Castile	2770	4842	Anhydrite, halite & minor amounts of limestone				
Bell Canyon	4842	5790	Sandstone, shale & minor amounts of limestone				
Cherry Canyon	5790	6990	Sandstone, shale with minor amounts of limestone				
Brushy Canyon	6990	8757	Sandstone & shale				
One springs	8757	TD	Limestone				

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COMPANY: WEST-TEST INC.
CLIENT: MARALO INC..
GAUGE NUMBER: 29240
WELL NAME: EMERALD FEDERAL
WELL NUMBER: 1
TEST NUMBER: 94-14-1590
LOCATION: LEA COUNTY, NEW MEXICO
TEST OPERATOR: RW AND JM
COMMENTS: TEMPERATURE SURVEY

POSITION	GAUGE SERIAL NUMBER
1	

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DELTA TIME HRS	DEPTH FEET	TEMPERATURE 'F	COMMENTS
0.000	1500.00	81.00	BREAK
0.346	3070.00	86.50	
0.383	3266.00	90.75	
0.408	3368.00	90.75	
0.433	3465.00	91.75	
0.450	3537.00	91.25	
0.467	3598.00	92.00	
0.483	3662.00	91.50	
0.492	3694.00	92.25	
0.500	3726.00	91.50	
0.550	3900.00	93.50	
0.567	3962.00	93.50	
0.600	4093.00	94.50	
0.617	4160.00	94.50	
0.633	4225.00	95.25	
0.642	4259.00	95.00	
0.650	4293.00	95.75	
0.667	4360.00	95.25	
0.717	4567.00	97.50	
0.733	4639.00	95.50	
0.783	4859.00	97.50	
0.792	4896.00	98.75	
0.800	4933.00	99.00	
0.817	5010.00	101.50	
0.833	5088.00	99.75	
0.842	5128.00	102.25	
0.858	5199.00	100.75	
0.867	5231.00	101.50	
0.875	5266.00	101.25	
0.883	5300.00	102.50	
0.892	5330.00	101.50	
0.900	5360.00	102.00	
0.908	5392.00	101.75	
0.917	5424.00	102.75	
0.925	5457.00	102.25	
0.933	5490.00	109.25	
0.950	5555.00	105.25	
0.958	5589.00	106.00	
0.967	5623.00	104.00	
0.983	5694.00	106.25	
0.992	5727.00	104.75	
1.000	5760.00	106.00	
1.017	5830.00	104.50	
1.025	5866.00	106.00	
1.033	5902.00	105.50	
1.042	5937.00	108.00	
1.050	5973.00	107.00	
1.058	6010.00	107.50	
1.067	6048.00	106.50	
1.075	6083.00	107.50	

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DELTA TIME HRS	DEPTH FEET	TEMPERATURE 'F	COMMENTS
1.083	6119.00	107.00	
1.117	6268.00	112.00	
1.125	6305.00	110.00	
1.133	6343.00	111.50	
1.150	6417.00	110.25	
1.158	6455.00	111.00	
1.167	6494.00	110.25	
1.175	6532.00	112.75	
1.183	6571.00	111.75	
1.250	6871.00	118.75	
1.267	6947.00	115.25	
1.283	7019.00	114.50	
1.300	7096.00	119.00	
1.333	7242.00	116.25	
1.400	7510.00	120.00	
1.450	7713.00	118.75	
1.500	7916.00	122.25	
1.517	7989.00	121.75	
1.550	8133.00	124.00	
1.558	8169.00	123.25	
1.567	8205.00	125.00	
1.575	8241.00	124.25	
1.583	8277.00	125.25	
1.592	8315.00	124.25	
1.600	8354.00	124.75	
1.617	8428.00	124.50	
1.650	8582.00	131.50	
1.667	8658.00	128.75	
1.683	8732.00	132.00	M.D.R.

DATE AND TIME CEMENT JOB COMPLETE:

SEPTEMBER 11, 1994 AT 7:00 P.M.

DATE AND TIME SURVEY MADE:

SEPTEMBER 12, 1994 AT 9:15 A.M.

AMOUNT AND TYPE CEMENT USED:

675 SACKS HALLIBURTON LIGHTWEIGHT
WITH ADDITIVES AND 600 SACKS CLASS "C"
50:50 POSMIX WITH ADDITIVES RUN
THROUGH 8832' 5½" CASING IN A 7-7/8"
HOLE.

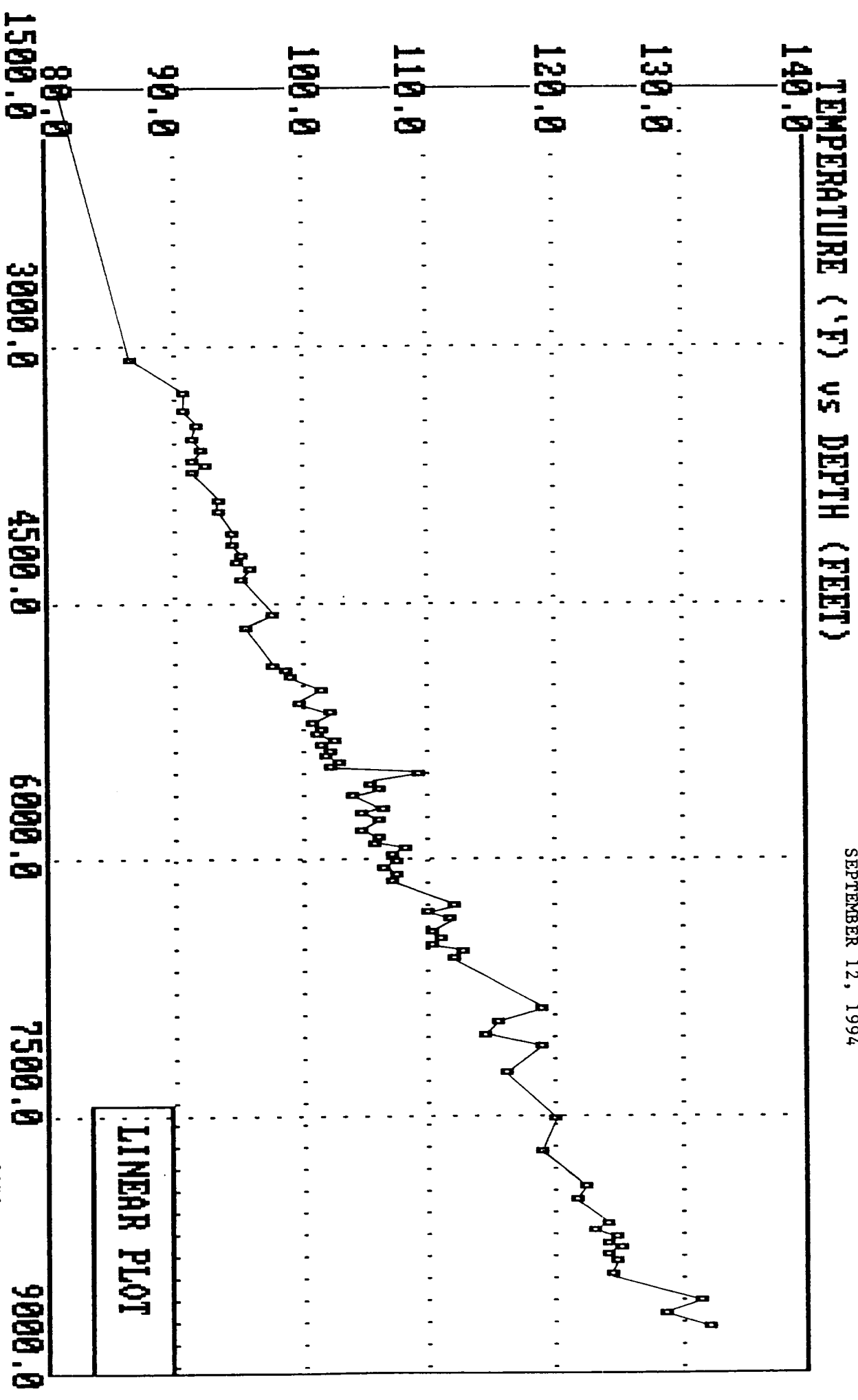
DEPTH FIGURED FROM:

GROUND LEVEL

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MARALO, INC.
EMERALD FEDERAL NO. 1
LEA COUNTY, NEW MEXICO
TEMPERATURE SURVEY
SEPTEMBER 12, 1994



APPROXIMATE CEMENT TOP: 3070 FEET
M.D.R.: 8732 FEET