

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPL. TE*

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985
N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐		8. FARM OR LEASE NAME Texaco Federal	
2. NAME OF OPERATOR Manzano Oil Corporation		9. WELL NO. 4	
3. ADDRESS OF OPERATOR P.O. Box 2107, Roswell, NM 88202-2107		10. FIELD AND POOL, OR WILDCAT Undes. E. Gem Delaware	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 2100' FEL At top prod. interval reported below same At total depth same		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 14, T19S, R33E	
14. PERMIT NO.		DATE ISSUED 6/28/93	
15. DATE SPUDDED 9/5/93		16. DATE T.D. REACHED 9/23/93	
17. DATE COMPL. (Ready to prod.) 11/13/93		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3665' GL	
19. ELEV. CASINGHEAD 3675'		20. TOTAL DEPTH, MD & TVD 7955'	
21. PLUG BACK T.D., MD & TVD 7237'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY → 0-7955'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7149-7519' - Delaware	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN CNL/Litho Density & DLL w/Micro SFL	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
Casing Size		Weight, lb./ft.	
8-5/8"		24#	
5-1/2"		17#	
Depth Set (MD)		Hole Size	
1529' KB		12-1/4"	
7555' KB		7-7/8"	
Cementing Record		Amount Pulled	
575 sx Lite + 200 sx C1 C		None	
350 sx C1 H		None	
29. LINER RECORD		30. TUBING RECORD	
Size		Top (MD)	
Bottom (MD)		Sacks Cement*	
Screen (MD)		Size	
Depth Set (MD)		Packer Set (MD)	
2-7/8"		7114'	
7055'		31. PERFORATION RECORD (Interval, size and number)	
7247-7293' - 0.32" - 13 holes		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
7149-7519' - 0.32" - 15 holes		Depth Interval (MD)	
7247-7293'		Amount and Kind of Material Used	
7149-7519'		Acidize w/1500 gal 10% NEFE	
		Squeeze w/150 sx C1 H to 2600 psi	
		Acidized w/1000 gal 10% NEFE	
		Frac w/10,500 gal 35# Borate System	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented	
Date First Production 11/14/93		Production Method (Flowing, gas lift, pumping—size and type of pump) Pumping	
Well Status (Producing or shut-in) Producing		Date of Test 11/18/93	
Hours Tested 24		Choke Size	
Prod'n. for Test Period →		Oil—BBL. 17	
Gas—MCF. TSTM		Water—BBL. 304	
Oil Gravity—API (Corr.) 34		Flow. Tubing Press. →	
Casing Pressure		Calculated 24-Hour Rate →	
Oil—BBL. 17		Gas—MCF. TSTM	
Water—BBL. 304		Oil Gravity—API (Corr.) 34	
35. LIST OF ATTACHMENTS CNL/Litho Density & DLL w/Micro SFL		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>[Signature]</i>		TITLE Engineering Technician DATE 11/23/93	

*(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, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Salt	1632	3074	Salt			
Tansil	3074	3300	Anhydrite, Shale			
Yates	3300	3580	Dolomite, Anhydrite & Shale			
Seven Rivers	3580	4250	Dolomite, Sand & Shale			
Queen	4250	5000	Dolomite, Sand & Shale			
San Andres	5000	5930	Dolomite, Shale, Sand & Chert			
Delaware	5930	7888	Sand, Shale & Dolomite			
Bone Springs	7888	TD	Limestone & Shale			



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 505/746-2719
ROSWELL, NM ARTESIA, NM

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NOV 20 11 18 AM '93
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September 27, 1993

Manzano Oil Company
P.O. Box 2107
Roswell, N.M. 88202

RE: Texaco Federal #4

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Lea County, New Mexico.

499' - 3/4°	3385' - 2 3/4°	5290' - 1 1/4°
980' - 1/2°	3507' - 2 3/4°	5784' - 1 1/2°
1471' - 1°	3661' - 2 3/4°	5883' - 3/4°
1542' - 3/4°	3908' - 2 1/4°	6367' - 1°
1941' - 3/4°	4221' - 2°	6858' - 1°
2433' - 1°	4385' - 1 1/2°	7350' - 1°
2920' - 1°	4835' - 1 1/4°	7841' - 1°
3262' - 2 3/4°		7955' - 3/4°

Sincerely,

Gary W. Chappell
Contracts manager

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 27th day of September 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES

October 07, 1996

NOTARY PUBLIC