

P. O. BOX 552
MIDLAND, TEXAS 79702UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-01747	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Marathon Oil Company		7. UNIT AGREEMENT NAME Lea Unit	
3. ADDRESS OF OPERATOR P. O. Box 552, Midland, Texas 79702		8. FARM OR LEASE NAME Lea Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)* At surface 1980' FNL & 1980' FNL At top prod. interval reported below At total depth		9. WELL NO. 13	
14. PERMIT NO. HOES NEW MEXICO		10. FIELD AND POOL, OR WILDCAT South Lea Bone Springs	
DATE ISSUED 08-20-85		11. SEC. T. R. M. OR BLOCK AND SURVEY OR LAR. 20S, 20E, 20S, 20E	
15. DATE SPUDDED 09-24-85		12. COUNTY OR PARISH Lea	
16. DATE T.D. REACHED 11-12-85		13. STATE New Mexico	
17. DATE COMPL. (Ready to prod.) 05-27-86		18. ELEVATIONS (DF, RER, RT, OR, ETC.)* GR 3669' KB 3683'	
19. ELEV. CASING HEAD 3669'		20. TOTAL DEPTH, MD & TVD 13,500'	
21. PLUG, BACK T.D., MD & TVD 10,600'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9560-10,376' South Lea Bone Springs	
25. TYPE ELECTRIC AND OTHER LOGS RUN GR-DLL-MSFL; GR-CNL-FDC; GR-CBL-CCL		26. WAS DIRECTIONAL SURVEY MADE NO	
27. WAS WELL CORED NO		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) 9560-10,376' (total 66 holes)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 9560-10,376' AMOUNT AND KIND OF MATERIAL USED 9,000 gals gelled and 100 lbs of all frags - 139,000 gals. gelled 2% KCl w/286,000 sand.	
33. PRODUCTION DATE FIRST PRODUCTION May 31, 1986 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing DATE OF TEST 06-14-86 HOURS TESTED 24 CHOKE SIZE 32/64" PROD'N. FOR TEST PERIOD OIL—BBL. 101 GAS—MCF. 200 WATER—BBL. 19 GAS-OIL RATIO 1980 FLOW. TUBING PRESS. 50 psi CASING PRESSURE 0 psi CALCULATED 24-HOUR RATE OIL—BBL. 397 OIL GRAVITY-API (CGR.) 397		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY JUL 9 1986	
35. LIST OF ATTACHMENTS Inclination survey; GR-CNL-LDT; GR-BHC		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED CARLSBAD, NEW MEXICO TITLE Production Engineer DATE June 30, 1986	

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Nacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

7. 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH TRUE VERT. DEPTH
Bone Springs	8320'	11,135'	Sand and Dolomite	Yates	3700'
Strawn	12,056'	12,554'	Sand	Queen	4710'
Morrow	12,760'	13,440'	Sand	Bone Springs	8320'
				Wolfcamp	11,135'
				Strawn	12,056'
				Atoka	12,554'
				Morrow	12,760'
				Miss	13,440'

HOSEA OFFICE
JUL 11 1986
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INCLINATION REPORT

OPERATOR Marathon Oil Company ADDRESS P.O. Box 552, Midland, TX 79702
 LEASE Lea Unit WELL NO. 13 FIELD Lea Unit - Bone Springs
 LOCATION _____

<u>Depth</u>	<u>Inclination (Degrees)</u>	<u>Displacement</u>	<u>Displacement Accumulated</u>
6004	3/4	6.56	112.90
6474	3/4	6.15	119.05
6944	1	8.20	127.25
7446	1	8.76	136.01
7946	3/4	6.54	142.55
8416	3/4	6.15	148.70
8917	1	8.74	157.44
9543	1	10.93	168.37
9830	3/4	3.76	172.13
10,303	1	8.26	180.39
10,803	1	8.73	189.12
11,168	1-3/4	11.15	200.27
11,639	1-1/2	12.33	212.60
12,100	1-1/4	10.06	222.66
12,242	1-1/2	3.72	226.38
12,865	1-1/4	13.59	239.97
13,088	1-1/2	4.86	244.83
13,500	2	14.39	259.22

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

Thomas F. Zaparka
 Title: Production Engineer

Affidavit:

Before me, the undersigned authority, appeared Thomas F. Zaparka known to me to be the person whose name is subscribed herebelow, who, on making deposition, under oath states that he is acting for and in behalf of the operator of the well identified above, and that to the best of his knowledge and belief such well was not intentionally deviated from the true vertical whatsoever.

James J. McCullough
 (Affiant's Signature)

Sworn and subscribed to in my presence on this the 25 day of June 1986.

James J. McCullough
 Notary Public in and for the County
 of Midland, State of Texas

My Commission Expires Oct. 31, 1989

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JUL 7 1986
O.C.P.
HOBBS OFFICE