

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

Copy to 17

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐				5. LEASE DESIGNATION AND SERIAL NO. NM 070522-A	
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 -----	
3. ADDRESS OF OPERATOR P. O. Box 2409, Hobbs, New Mexico				8. FARM OR LEASE NAME Indian Basin "E"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1650' FWL and 1950' FSL of Section 27 At top prod. interval reported below same At total depth same				9. WELL NO. 2	
14. PERMIT NO. Current				10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUDDED 7-16-70				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 27-21S-23E	
16. DATE T.D. REACHED 7-27-70				12. COUNTY OR PARISH Eddy	
17. DATE COMPL. (Ready to prod.) 8-6-70				13. STATE New Mexico	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GL 3925'				19. ELEV. CASINGHEAD 3926'	
20. TOTAL DEPTH, MD & TVD 2632'		21. PLUG, BACK T.D., MD & TVD 2602'		22. IF MULTIPLE COMPL., HOW MANY* →	
23. INTERVALS DRILLED BY →				24. ROTARY TOOLS 27' to 2632'	
25. CABLE TOOLS 0' to 27'				26. WAS DIRECTIONAL SURVEY MADE Yes	
27. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2333' to 2551' Yeso-Upper Clearfork				28. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Formation Density Log; Borehole Compensated Sonic Log - Gamma Ray; Dual Induction - Laterolog; Sidewall	
29. CASING RECORD (Report all strings set in well) Casing Size Weight, lb./ft. Depth Set (MD) Hole Size Cementing Record Amount Pulled 13-3/8" 48 27.00' 17-1/2" Cement circ. to surface 8-5/8" 24# 1110.00' 11" 450 sks. - Circ. to surf. 4-1/2" 9.5# 2626.00' 6-1/2" 500 sks. - Circ. to surf.				30. NEUTRON POROSITY LOG Yes	
31. LINER RECORD Size Top (MD) Bottom (MD) Sacks Cement* Screen (MD) 2-3/8" 2570'				32. TUBING RECORD Size Depth Set (MD) Packer Set (MD) 2-3/8" 2570'	
33. PERFORATION RECORD (Interval, size and number) 2333, 2365, 2399, 2410, 2418, 2424, 2429, 2435, 2440, 2447, 2456, 2475, 2511, 2525, and 2551' with 1/JSPF (15 holes)				34. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Depth Interval (MD) Amount and Kind of Material Used 2333'-2551' 1500 gal. 15% reg. acid, followed by 40,000 gal. gelled wtr. frac & 60,000# 20-40 sand.	
35. PRODUCTION Date First Production 8-6-70 Production Method (Flowing, gas lift, pumping—size and type of pump) Pump Well Status (Producing or shut-in) Producing				36. DATE OF TEST 8-10-70 Hours Tested 24 Choke Size 2" Prod'n. for Test Period → Oil—BBL. 56 Gas—MCF. TSTM Water—BBL. 177 Gas-Oil Ratio TSTM	
37. FLOW, TUBING PRESS. - Casing Pressure - Calculated 24-Hour Rate → Oil—BBL. 56 Gas—MCF. TSTM Water—BBL. 177 Oil Gravity-API (CORR.) 31° @ 60° F.				38. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented Test Witnessed By C. Marquart	
39. LIST OF ATTACHMENTS See No. 26 above.				40. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED C. A. Hill				TITLE D. C. C. ARTESIAN OFFICE	
DATE 8-19-70				DATE 8-19-70	

*(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: "Sacks 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.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Yeso	2409	2419	Core #1: Dolo, Sm Anhy. w/sulphur incl. $\emptyset$ 5.7 to 9.5% bleeding oil tr h ₂ O perm. < .1 to 14 md. SW 37.6 to 55.6%.
	2419	2470	Core #2: Dolo. Sm Anhy. & Sulphur incl. $\emptyset$ 2.5 to 11.0% bleeding oil, tr. h ₂ O perm. < .1 to 103 md. SW 25.5 to 83.0%
	2470	2491	Core #3: Dolo. Sm Anhy & Sulphur incl. $\emptyset$ 5.3 to 7.0% bleeding sm oil, tr. h ₂ O perm. < .1 to 1.1 md, SW 74.4 to 85.2%.
	2391	2491	DST #1: No cushion - weak blow thru out test. Rec 40' Sli oil cut drlg fluid. 5 min. IFP 63#; 1 hr. ISIP 439#; 2 hr. IFP 82#; 2 hr. FFP 88#; 4 hr. FSIP 285#; IHP 1160#; FHP 1136#; BHT 84° F.
	2491	2526	Drld Dolo Shy.
	2526	2582	Core #4: Dolo. Sm Anhy & Sulphur incl. $\emptyset$ 5.0 to 18.9% Sm oil show to 2556 prolif. h ₂ O below. Perm < .1 to 12 md. SW 34.6 to 76.6%.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
T/San Andres	430' (+3504)	430' (+3504)
T/Glorieta	2013' (+1921)	2013' (+1921)
T/Yeso	2132' (+1802)	2132' (+1802)