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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

1a. TYPE OF WELL						7. Unit Agreement Name	
b. TYPE OF COMPLETION OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER <u>Water Supply Well</u> NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER						8. Farm or Lease Name	
2. Name of Operator <u>Mobil Oil Corporation</u>						9. Well No. <u>36</u>	
3. Address of Operator <u>P. O. Box 633, Midland, Texas 79701</u>						10. Field and Pool, or Wildcat <u>Langlie Mattix Cr. 3A.1</u>	
4. Location of Well UNIT LETTER <u>0</u> LOCATED <u>700</u> FEET FROM THE <u>South</u> LINE AND <u>2500</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>10</u> TWP. <u>25</u> RGE. <u>3537</u> NMPM						12. County <u>Lea</u>	
15. Date Spudded <u>9-27-69</u>	16. Date T.D. Reached <u>10-11-69</u>	17. Date Compl. (Ready to Prod.) -----	18. Elevations (DF, RKB, RT, GR, etc.) <u>3097 Gr.</u>	19. Elev. Casinghead -----			
20. Total Depth <u>4800</u>	21. Plug Back T.D. -----	22. If Multiple Compl., How Many -----	23. Intervals Drilled By Rotary Tools <u>X</u> Cable Tools	25. Was Directional Survey Made -----			
24. Producing Interval(s), of this completion - Top, Bottom, Name <u>3854 - 4750 Grayburg San Andres</u>						27. Was Well Cored -----	
26. Type Electric and Other Logs Run <u>Dresser-Atlas BHC - acoustic and caliper logs</u>							
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
<u>13-3/8" OD</u>	<u>48#</u>	<u>1055</u>	<u>17-1/2</u>	<u>1200 sks.</u>		-----	
<u>9-5/8" OD</u>	<u>40# & 43#</u>	<u>4800</u>	<u>12-1/4</u>	<u>2175 sks.</u>		-----	
29. LINER RECORD						30. TUBING RECORD	
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<u>5-1/2" CL</u>	<u>2483</u>	-----
31. Perforation Record (Interval, size and number) <u>3854-62, 3916-20, 3924-28, 3935-40, 3928-62, 3996-89, 4004-10, 4036-40, 4048-60, 4068-94, 4108-12, 4126-30, 4158-64, 4178-82, 4186-92, 4198-4214, 4222-24, 4230-40, 4274-73, 4294-98, 4318-24, 4338-44, 4408-14, 4442-52, 4486-90, 4496-4500, 4504-10, 4604-10, 4620-22, 4736-40.</u>				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
				<u>4408-4740</u>		<u>5000 gals. 28% NE acid & 20 RCNB</u>	
				<u>4274-4740</u>		<u>" " " " " 149 "</u>	
				<u>4036-4240</u>		<u>" " " " " 178 "</u>	
				<u>3854-4010</u>		<u>" " " " " 82 "</u>	
33. PRODUCTION <u>4504-10, 4604-10, 4620-22, 4736-40.</u>							
Date First Production <u>W.S.W.</u>		Production Method (Flowing, gas lift, pumping - Size and type pump) <u>Reda Pump</u>				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
35. List of Attachments <u>Daily Drilling Report</u>							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED <u>[Signature]</u>		TITLE <u>Authorized Agent</u>			DATE		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2898</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3313</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>3662</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. Penrose <u>3440</u>	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	485		Gravel & Red Beds				
485	1055		Anhy				
1055	1285		Anhy & Salt				
1285	1740		Anhy & Salt				
1740	2230		Anhy & Salt				
2230	2502		Anhy & Sand				
2502	2802		Anhy & Dolo				
2802	3040		Lime				
3040	3525		Sand & Dolo				
3525	3725		Lime				
3725	3930		Lime				
3930	4285		Sand & dolo				
4285	4560		Lime				
4560	4800		Lime T.D.				

LANGLIE DRILLING REPORT

LANGLIE MATTIX QUEEN
UNIT #36

LANGLIE-MATTIX QUEEN UNIT #4-4, 700' FSL & 2500' FEL Sec 10, T-25-S, R-37-E, Lea Co, NM. OBJECTIVE: Drill WSW. AFE 9292 - Mobil Intr .7360% - Est Cost Gross \$78,000.

9/26/69 Loc compl, prep to MIT.

LANGLIE-MATTIX QUEEN UNIT #4-4

9/27 MIRU C. A. Nunn rig, prep to spud.

9/29 (2) 868 drlg anhy, 17½" hole, ½ @ 220; ½ @ 444; ¾ @ 770. S. Mud.
Lost circ @ 701, regain circ in 6 hrs w/ LCM, C. A. Nunn Drlg Co spud in @ 11:00 a.m. 9/27/69.

LANGLIE-MATTIX QUEEN UNIT #4-4

9/30 (3) 1055 ND anhy, 1½ @ 1055, WOC, 13-3/8 csg, finish hole @ 3:30 p.m. 9/29/69, circ ½ hr, POH, ran 33 jts 1055' 13-3/8 48# H-40 8rd ST&C csg cemented on bottom by Howco w/ 1050x 8% gel Class H cement containing ¼# flocele + 200x Class H Neat, all cement contained 2% CaCl, PD @ 10:15 p.m. 9/29/69, cement circ, prep to drill 12¼" hole.

LANGLIE-MATTIX QUEEN UNIT #4-4

10/1 (4) 1285 drlg anhy & salt, 12¼" hole, 1° @ 1252. Br Wtr.
WOC total 26 hrs, tested casing & BOP's 500#/30 min/ok.

LANGLIE-MATTIX QUEEN UNIT #4-4

10/2 (5) 2502 drlg anhy & sd, 12¼" hole, 1½ @ 1667, 1-3/4 @ 2075; 2° @ 2472. Br Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4

10/3 (6) 2802 drlg anhy & dolo, 12¼" hole, 2¼ @ 2516; 2½ @ 2710. Br Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4

10/4 (7) 3040 drlg lm, 12¼" hole, 2½ @ 2892. Br Wtr.

10/6 (9) 3525 drlg sd & dolo, 12¼" hole, 2½ @ 3185, 2° @ 3445. Br Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4

10/7 (10) 3725 drlg lm, 12¼" hole, 2° @ 3595. Br Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36

10/8 (11) 3930 drlg lm, 12¼" hole, 1-3/4 @ 3782. Br Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36 (Formerly: Langlie-Mattix Queen Unit #4-4).

10/9 (12) 4285 drlg sd & dolo, 12¼" hole, 2° @ 4017. Br. Wtr.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36

10/10 (13) 4560 drlg lm, 12¼" hole, 2° @ 4320. 9.8-31-NC, 2% oil.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36

10/11 (14) 4787 drlg lm, 12¼" hole, 2¼ @ 4572. 9.7-31-NC, 3% oil.

10/12 (15) 4800 TD lm, 12¼" hole, 2¼ @ 4800. 9.8-31-NC, 5% oil.
Finish hole @ 7:50 a.m. 10/11/69, circ 2 hrs, POH, Dresser-Atlas ran BHC-Acoustic & Caliper logs from surf to 4790/5 hrs, ran bit to bottom, circ 1 hr, P & LD DP & DC's, RU, now running 9-5/8 csg 45 jts in hole.

(cont'd on next page)

- LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36 (cont'd from previous page)
- 10/13 4800 TD, WOC 9-5/8 csg, ran 9-5/8 csg to 3941, stuck, Howco spotted 100 Bbls lease oil containing 1 gal hyflo per 1000 gals, worked csg free, finish running csg to 4800, total of 118 jts 38 jts 43.0# N80 LT&C 1554' + 80 jts 40# LT&C 3246' Howco shoe @ 4800, FC @ 4758, DV Tool @ 3784, Howco cemented 1st stage w/ 375x Class C cement containing $\frac{1}{4}$ # flocele + 5# gilsonite, PD @ 3:00 p.m. 10/12/69, open DV tool @ 4784, circ 6 hrs, no trace of cement, Howco cemented 2nd stage thru DV tool @ 3784 w/ 1800x 8# gel Class C cement containing $\frac{1}{4}$ # flocele + 5# gilsonite, PD @ 9:45 p.m. 10/12/69, cement circ, WOC.
- LANGLIE MATTIX QUEEN UNIT #4-4, UNIT WELL #36
- 10/14 (16) 4800 TD, WOC 9-5/8" csg, nipple up 9-5/8" csg, rel C. A. Nunn Drilling Co. rig @ 11:00 a.m., prep to MCT.
- LANGLIE MATTIX QUEEN UNIT #4-4, UNIT WELL #36
- 10/15 (17) 4800 TD, Prep to complete.
- LANGLIE MATTIX QUEEN UNIT #4-4, UNIT WELL #36
- 10/16 (18) 4800 TD, MIRU Clarke Well Service DD unit, SD for nite, prep to complete.
- LANGLIE MATTIX QUEEN UNIT #4-4, UNIT WELL #36
- 10/17 4800 TD, ran 8-5/8" bit on 16 3-1/8" DC's & 2-7/8" tbg to 3784, drill DV tool, ran bit to 4758', circ hole clean & SD for nite, prep to log and perf.
- LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
- 10/18 LD tbg & 16 - 3-1/8" DC's and bit, Worth Well ran GR-Collar-Corr log from 2000 to 4749 equals PBTD, then perf 9-5/8 csg @ 3854-62; 3916-20; 3924-28; 3935-40; 3978-82; 3996-99; 4004-10; 4036-40; 4048-60; 4088-94; 4108-12; 4126-30; 4158-64; 4178-82; 4186-92; 4198-4214; 4222-24; 4230-40; 4274-78; 4294-98; 4318-24; 4338-44; 4408-14; 4442-52; 4486-90; 4496-4500; 4504-10; 4604-10; 4620-22; & 4736-4740 w/ 2 JSPP, total of 394 holes. SD for nite.
- 10/20 4800 TD, 4749 PBTD.
Ran 9-5/8 Baker ret BP & FB pkr on 2-7/8 tbg, set BP @ 4741, set pkr @ 4458, Western Co acidized Grayburg perfs 4408-4740 w/ 5000 gals 28% NE acid using 20 RCNB sealers, TTP 2650-3100-2900, rate 9.2 BPM, communicated to csg w/ 3000 gals acid in form, ISIP 150, on vac in $\frac{1}{4}$ min, attempted to ret BP, no success, POH w/ tbg, ran overshot, ret BP, ran Baker pkr on 2-7/8 tbg set in 9-5/8 csg @ 4257, Western Co acidized Grayburg perfs 4274-4740 w/ 5000 gals 28% NE acid using 149 RCNB sealers overflushed w/ 120 bbls TFW, dropped 35 balls ahead of acid, TTP 2550-3000-2800, rate 10.4 BPM, good ball action, POH w/ tbg & pkr, ran Baker ret BP & pkr, set BP @ 4257, pkr @ 4023, Western Co acidized Grayburg perfs 4036-4240 w/ 5000 gals 28% NE acid using 178 RCNB sealers overflushed w/ 120 bbls TFW, TTP 2300-2800-2500, rate 10.9 BPM, ISIP vac, reset BP @ 4203, pkr @ 3815, Western Co acidized Grayburg perfs 3854-4010 w/ 5000 gals 28% NE acid using 82 RCNB sealers overflushed w/ 120 bbls TFW, TTP 2800-3700-2900, rate 9.6 BPM, ISIP 550, bled off press, P & LD 2-7/8 tbg, pkr and BP. SD for nite. Prep to run Reda test pump on 5 $\frac{1}{2}$ tbg.
- LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
- 10/21 Picked up Reda test pump, pump would not work, sent pump to shop, will run pump Wednesday.
- LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
- 10/22 No Reda test pump to be repaired.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/23 Prep to run Reda pump.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/24 SD for weather - will run pump today.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/25 Ran Reda test pump on 5½ OD tbg to 3700, hooked up wellhead, started pump to pumping w/ fluid level @ 600, ran pump 45 min & SD for nite, RD & Rel Clarke Well Serv DD unit @ 6:00 p.m. 10/24/69, Rel well to Prod to run test.

10/27 4800 TD.

Static FL 4157' FIH, test pumped for 3 hrs. SD for nite.

Static FL 4157' FIH after 24 hrs.

Time	FL-FIH	TP	Pumping Rate GPM
9:30 a.m.	4157	-	-
10:00 a.m.	4047	610	280
10:30 a.m.	4047	610	280
11:00 a.m.	4047	600	285
11:30 a.m.	4047	600	285
12:00 noon	4047	600	285
12:30 p.m.	4047	595	287
1:00 p.m.	4047	595	288
1:30 p.m.	4047	590	295
2:00 p.m.	4047	590	295

SD Reda - full pit. Will get sample and analysis today after pumping well again. Cumulative prod estimated 9000 to 10,000 bbls.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/28 Pumped well 2 hrs for wtr sample, sample by Martin Lab. Well SI.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/29 Prep to P & LD 5½ tbg & Reda pump.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/30 MIRU Clarke Well Serv DD unit, P & LD 109 jts 5½ tbg and Reda pump, 5½ tbg to be CL. RD & Rel Clarke Well Serv unit @ 5:00 p.m. 10/29/69.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

10/31 WO CL tbg.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

11/3 WO CL tbg.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

11/4 WO CL tbg.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

WO CL tbg.

LANGLIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.

11/6 WO CL tbg.

- 11/7 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO CL tbg.
- 11/10 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO CL tbg.
- 11/11 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO CL tbg.
- 11/12 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO Reda pump.
- 11/13 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO unit to run tbg and pump.
- 11/14 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
WO unit.
- 11/17 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
MIRU DA&S Well Serv DD unit. SD for nite, prep to run Reda pump on 5½ CL tbg.
- 11/18 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
Ran Reda pump on 5½ OD 15.50# J-55 LT&C CL tbg to 2519, hooked up elec to pump, ran 20 min, transformer blew up, shorted out pump, SD for nite, prep pull pump.
- 11/19 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
POH w/ 5½ CL tbg & Reda pump, found short in cable between flat and round cable, checked out pump ok. SD for nite. Prep to splice cable and rerun pump.
- 11/20 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
Spliced cable, rerun Reda pump to 2483 on 5½ OD 15.50# J-55 8rd LT&C CL tbg, started pump to pumping, pumped 45 min/ok, RD DA&S Well Serv unit @ 3:30 p.m. 11/19/69. Rel well to Prod.
- 11/21 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
No rpt.
- 11/24/69 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
DROP FROM REPORT.
- 1/8/70 LANGLEIE-MATTIX QUEEN UNIT #4-4, UNIT WELL #36, 4800 TD.
Began supply wtr prod 12/6/69, rate 10,020 BWPd. Well compl 10/19/69.
FINAL REPORT. (Dropped from rpt 11/24/69).