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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 [xx] Fee [ ]

5. State Oil & Gas Lease No.

1a. TYPE OF WELL

b. TYPE OF COMPLETION: NEW WELL [xx] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER [ ]

OIL WELL [ ] GAS WELL [ ] DRY [ ] OTHER Water Supply Well

7. Unit Agreement Name

8. Farm or Lease Name: Humphrey

2. Name of Operator: Mobil Oil Corporation

9. Well No.: 10 WSW

3. Address of Operator: Box 633, Midland, Texas

10. Field and Pool, or Wildcat: Langlie Mattix Grayburg San Andres

4. Location of Well

UNIT LETTER F LOCATED 2420 FEET FROM THE North LINE AND 2200 FEET FROM THE West LINE OF SEC. 3 TWP. 25-S RGE. 37-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
8-9-69	8-25-69	9-17-69	3146 Gr.	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
4800	-	-	→	x	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 3844-4739 Grayburg San Andres

25. Was Directional Survey Made: Yes

26. Type Electric and Other Logs Run: Gr-acoustic and caliper logs

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8" OD	48#	1073	17 1/2"	1200 SKs	-
9 5/8" OD	36# & 40#	4800	12 1/4"	2275 SKs in 2 stages	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)
3844-4739' 895' overall 186 Total Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3844-4739'	10,000 gals.15% NE acid + 300 RCNB Sealers

33. Water Supply Well — PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	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
I-Summary of Operation

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 [signature] TITLE Authorized Agent DATE 10-2-69

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		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		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.		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	537		Surface Rock and Red Bed				
537	663		Anhy. and Sand				
663	1005		Red Beds and Anhy.				
1005	1580		Anhy. and Salt Strks.				
1580	1863		Salt and Anhy.				
1863	2034		Anhy., Salt and Gyp.				
2034	2640		Anhy., and Salt				
2640	2742		Anhy. and Lime				
2742	3430		Lime				
3430	4055		Lime				
4055	4546		Lime				
4546	4800		Lime				

DAILY DRILLING REPORT

HUMPHREY "A" #10 WSW

HUMPHREY "A" #10 WSW, 2300' FNL & 2400' FWL Sec 3, T-25, R-37, Lea Co, NM.
OBJECTIVE: Drill and complete water supply well in Grayburg-San Andres. AFE 9283 - Mobil Intr 100% - Est Cost $78,000.

8/8/69 Loc and road compl, C. A. Nunn Drlg Co prep to MIT today.

HUMPHRY "A" #10 WSW

8/9 95% RU.

8/11 (2) 740 drlg red rocks, 17½" hole, 1° @ 587. Native mud.
C. A. Nunn Drlg Co spud in 11:00 a.m. 8/9/69.

HUMPHRY "A" #10 WSW

8/12 (3) 1073 ND anhy, 17½" hole, 1° @ 847. Native Mud.
Prep to run 13-3/8 csg.

HUMPHREY "A" #10 WSW

8/13 (4) 1073 ND, WOC on 13-3/8 csg, ran 35 jts 1073' 13-3/8 J-55 48# ST&C csg to 1073, Howco cemented on bottom @ 1073' w/ 1000x Class H cement w/ 8% gel + 200x Class H Neat cement, all cement contained 2% CaCl, PD @ 2:00 p.m. 8/12/69, WOC past 18 hrs, prep to drill 12¼" hole.

HUMPHREY "A" #10 WSW

8/14 (5) 1830 drlg salt & anhy, 12¼" hole, 1° @ 1268; 3/4 @ 1503; 1° @ 1713. Br wtr.
Tested 13-3/8 csg & BOP's w/ 750#/ok.

HUMPHREY "A" #10

8/15 (6) 2180 drlg salt & anhy, 12¼" hole, ½ @ 2080. Br wtr.

HUMPHREY "A" #10

8/16 (7) 2714 drlg salt & anhy, 12¼" hole, 3/4 @ 2411, 1° @ 2653. Br wtr.

8/18 (9) 3230 drlg lm, 12¼" hole, 2¼ @ 2833; 2¼ @ 3077. Br wtr.

HUMPHREY "A" #10

8/19 (10) 3408 drlg lm, 12¼" hole, 2½ @ 3387. Br wtr.

HUMPHREY "A" #10 WSW

8/20 (11) 3570 drlg lm, 12¼" hole, 2° @ 3503. Br wtr.

HUMPHREY "A" #10

8/21 (12) 3752 drlg lm, 12¼" hole, 2° @ 3752. Br wtr.

HUMPHREY "A" #10

8/22 (13) 3914 drlg lm, 12¼" hole, NND. Br Wtr.

HUMPHREY "A" #10 WSW

8/23 (14) 4149 drlg lm, 12¼" hole, 1° @ 3988. Br Wtr.

8/25 (16) 4687 drlg lm, 12¼" hole, 1½ @ 4262, 1½ @ 4502. 10.0-33 Vis. 1% oil.

HUMPHREY "A" #10

8/26 (17) 4800 TD lm, 12¼" hole, 1½ @ 4738. 10.0-31 vis, 1% oil.
Circ 1½ hrs, POH, prep to run OH logs.

HUMPHREY "A" #10 WSW

8/27 4800 TD lm, 12¼" hole. 10.0-32 vis.
Dresser-Atlas Co ran GR-Acoustic & Caliper log to 4787 depth reached 4797 in 5 hrs, then Worth Well ran Caliper from 1073 to 4787, ran bit to 4800, circ 2 hrs, P & LD DP & DC's, RU, now running 9-5/8 csg, 50 jts in hole.

HUMPHREY "A" #10 WSW

8/28 4800 TD, WOC 9-5/8 csg, finish running 9-5/8 csg total of 145 jts, 815' of 40# J-55 + 3985' 36# J-55 8rd cemented on bottom by Howco, FC @ 4767, DV Tool @ 3796, cemented 1st stage w/ 375x Class C cement containing ¼# flocele + 5# gilsonite, PD @ 12:30 p.m. 8/27/69, circ out 50x, circ 5 hrs thru DV Tool @ 3796, then cemented 2nd stage w/ 1800x Class C 8% gel cement containing ¼# flocele + 5# gilsonite + 100x Class C Neat, PD @ 9:30 p.m. 8/27/69, circ approx 100x cement, nipple up 9-5/8 csg, Rel C. A. Nunn Drlg Co rig @ 12:00 midnite 8/27/69, prep to MORT.

HUMPHREY "A" #10 WSW, 4800 TD.

8/29 MORT.

HUMPHREY "A" #10 WSW, 4800 TD.

8/30, 8/31, 9/1, & 9/2 MORT.

HUMPHREY "A" #10 WSW, 4800 TD.

9/3 MORT - prep to set Guy line anchors.

HUMPHREY "A" #10 WSW, 4800 TD.

9/4 Press on 9-5/8 csg 1200#/30 min/held ok, prep to RU Jake Miller Well Serv cable tool rig.

HUMPHREY "A" #10 WSW, 4800 TD.

9/5 RU Jake Miller cable tool rig, DO DV collar @ 3796/6 hrs, ran bailer to 4767, prep to perf.

HUMPHREY "A" #10 WSW, 4800 TD.

9/6 Schl ran GR Corr log 4735-3000, then perf Grayburg @ 3844-60; 3921-24; 3930-33; 3942-50; 3954-60; 3964-68; 3976-81; 3991-96; 4012-14; 4037-48; 4096-4102; 4113-18; 4127-36; 4142-44; 4148-54; 4159-63; 4171-80; 4206-14; 4218-22;4230-36; 4240-42; 4246-48; 4256-64; 4296-98; 4366-72; 4219-21; 4434-38; 4456-58; 4468-74; 4560-64; 4568-70; 4576-78; 4582-84; 4590-92; 4596-98; 4626-28; 4636-40; 4642-46; 4726-30; & 4737-39, 895' OA, total 186 holes, job compl 3:30 p.m. 9/5/69, Cardinal Chem Co acidized down 9-5/8 csg w/ 10,000 gals 15% NE acid + 300 RCNB sealers, flush 366 bbls fr wtr, BDCP 1500, TCP 3500, AIR 3.9 BPM, ISDCP 3200, 1 min SICP 600, 15 min SICP 500, job compl 8:30 p.m. 9/5/69, SI 1 hr CP 100, fl back 190 BLW/3½ hrs, then csg sw 130 BLW/3½ hrs, FL 1050, L hr sw 60 BF. - 46 BLW + 240 BAW to rec

9/7 4800 TD, 4742 PBTD, Grayburg (3844-4739) OA.
Csg sw 46 BLW + 240 BAW + 264 BFW/21 hrs, FL 1300, L hr sw 30 BF.

S 60 BW/2 hrs, FL 1300 (holding), S 30 bbls L hr, RD & Rel Cable Tool rig @ 4:00 p.m. 9/7/69.

HUMPHREY "A" #10 WSW , 4800 TD, 4742 PBTD, Grayburg (3844-4739) OA.

9/9 Static fluid level @ 874, prep to acidize.

HUMPHREY "A" #10 WSW, 4800 TD, 4742 PBTD, Graybur (3844-4739) OA.

9/10 MIRU DA&S Well Serv DD unit, inst'l BOP, ran Baker 9-5/8 ret BP & FB pkr on 2-7/8 tbg, set BP @ 4750, set pkr @ 4510, Cardinal Chem Co acidized perfs 4560-4739 w/ 2000 gals 28% NE acid, TTP 4000 to 3500, rate 15.0 BPM, flushed w/ 46 bbls fresh wtr, communicated, set BP @ 4510, set pkr @ 4330, pump 60 bbls fresh wtr, comm, reset pkr @ 4070, pumped 23 BW, comm, reset pkr @ 3890, pumped 20 BW, comm, reset pkr @ 3800, then Cardinal acidized perfs 3844-4474 w/ 8000 gals 28% NE acid, flushed w/ 300 bbls fresh wtr, TTP 3500-4500-4000, rate 17.0 BPM, ISIP 200, 4 min on vac, job compl @ 6:45 p.m. 9/9/69, all flush wtr contained 2 gals/1000 gals Adomal + 5# friction reducer, acid contained 5# friction reducer /1000 gals.

HUMPHREY "A" #10 WSW, 4800 TD, 4742 PBTD, Grayburg (3844-4739).

9/11 Ret BP, P & LD 2-7/8 tbg, pkr & BP, FL @ 650, RD & Rel DA&S Well Serv unit @ 4:00 p.m. 9/10/69. WO test equipment.

HUMPHREY "A" #10 WSW, 4800 TD.

12 WO test equipment.

HUMPHREY "A" #10 WSW, 4800 TD.

9/13 WO test equipment.

9/15 MIRU West Texas Well Serv DD unit. SD for nite. Prep to run test pump & 5½ csg.

HUMPHREY "A" #10 WSW, 4800 TD.

9/16 WO Reda pump & service man 7 hrs, RU, ran Reda pump on 4 jts 5½ csg. SD for nite.

HUMPHREY "A" #10 WSW, 4800 TD.

9/17 Finish running Reda pump on 111 jts 15.50# J55 8rd used 5½ csg, bottom of pump @ 3764, top of pump @ 3697, check valve @ 3605, started well to pumping @ 5:30 p.m. 9/16/69. Reda pump motor 7.38 OD x 4.13 #62 A, 260 HP, 2300 volts, 26.6 long. Pump 6.5 OD #22443 #39I250 14.5' long.
Pump 6.5 OD #13586 #25I250 20.0' long.
Protector 7.38 OD -348, Type 66, 6.1' long, overall length 67.2.

HUMPHREY "A" #10 WSW (Cont'd from previous page)

Time	FL	TP	Remarks
10:00 a.m.	1406	50	Gas decreasing.
10:30 a.m.	1444	46	-
11:00 a.m.	1463	70	Well choked.
11:30 a.m.	1463	70	Well choked.
1:00 p.m.	1520	37	Well was opened up - notchoked
1:30 p.m.	1558	34	Ph of wtr 6.2, mild gas volume w/ wtr.
2:00 p.m.	1520	32	-
2:10 p.m.	-	-	SI, rearrange flow line for test purposes.
3:40 p.m.	722	-	Started well to pumping
4:10 p.m.	-	-	Lightening shut Reda pump down.
4:30 p.m.	-	-	Restarted pump, pumped for 10 min and SD due to weather, rain, hail, and wind.

Gas Vol in wtr at start of pumping was very strong, vol decreased considerably during pumping period, prep to test well thru Hallib master meter and spot check vol by pumping into a test tank, left SI overnite.

HUMPHREY "A" #10 WSW, 4800 TD, Grayburg (3844-4739).

9/18 Testing well.

9/18 Static FL on 9/17/69 was 722. Started well to pumping. Pumped approx 1 hr FL @ 912. SD. Layed flow line to pit, then pumped for 1½ hrs, FL @ 1250, had lots of gas w/ wtr, SI for 14 hrs, static FL 799, started well to pumping and obtained the following data:

Time	FL	TP	Remarks
8:00 a.m.	799	0	Started well to pumping.
8:30 a.m.	1292	75	Strong sh of gas w/ wtr.
9:00 a.m.	1292	62	-
9:30 a.m.	1368	54	-

HUMPHREY "A" #10 WSW, 4800 TD.

9/19/69 Opened well up @ 7:45 a.m. 9/18/69 and obtained following test data:

Time	FL	TP	Rate	Remarks
7:45 a.m.	741	0	-	Well had been SI 14 hrs.
8:30	1330	14	-	Flowing to pit.
9:00	1368	12	-	Flowing to pit.
9:30	1444	10	-	Flowing to pit.
10:00	1520	10	-	Flowing to pit.
10:30	1520	40	310 GPM (10,500 BPD)	Pumping thru Hallib meter.
11:00	1501	40	310 GPM (10,500 BPD)	Pumping thru Hallib meter.
11:30	1482	40	308 GPM	Pumping thru Hallib meter.
12:00	1444	40	308 GPM	Pumping thru Hallib meter.
12:30 p.m.	1501	40	309 GPM	Pumping thru Hallib meter.
1:00	1520	40	-	Switched to pit to stabilize and then turn to test tank.
1:30	1539	40	300 GPM (10,300 BPD)	Tested into test tank for 50 min then switched back to Hallib meter.
2:00	1520	50	310 GPM (10,500 BPD)	Thru Hallib meter.
2:30	1482	50	310 GPM	Thru Hallib meter.
3:00	1482	50	309 GPM	Thru Hallib meter.

Shut well in, testing completed, to redesign Reda pump size and setting depth for permanent installation.

DROP FROM REPORT until permanent installation is made.