

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

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

LEASE DESIGNATION AND SERIAL NO.

LC-069300

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cox "B" Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Vada Penn. Bough C

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 3, T-9-S, R-36-E

12. COUNTY OR
PARISH
Lea13. STATE
New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

MOBIL OIL CORPORATION

3. ADDRESS OF OPERATOR

P. O. BOX 633, MIDLAND, TEXAS 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1980' FSL and 660' FSL of Sec. 3, T-9-S, R-36-E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

12-27-69

16. DATE T.D. REACHED

1-24-70

17. DATE COMPL. (Ready to prod.)

2-9-70

18. ELEVATIONS (DF, RKT, RT, GR, ETC.)*

4098 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

9950

21. PLUG, BACK T.D., MD & TVD

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)*

9830 - 9836 (Vada Penn Bough "C")

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

PDC Log, Neutron Porosity Log

27. WAS WELL CORED

No

28. 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#	415	17-1/2	400 sx. Class C Cement	---
8-5/8"	28#	4300	11"	1500 sx. Class C w/4% gel.	---
5-1/2"	17 & 15.50#	9950	7-7/8"	200 sx. Incon Neat Cement	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

9830 - 9836 w/2 SPH Total 14 noles

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9830-9836	3000 gals. 15% NE Acid.

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
2-5-1970		Kete Hyd. Pump				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-22-70	24	---	→	174	271.6	36	1.561
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→				44.4	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

R. H. Cummins

35. LIST OF ATTACHMENTS

Daily Drilling Report Summary

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Authorized Agent

DATE March 4, 1970

*(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:			38. GEOLOGIC MARKERS		
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	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	2220				
Yates	2823				
Queen	3567				
San Andres	4102				
Glorieta	5540				
Abo	7760				
Bough "C"	9830				

DAILY DRILLING REPORT

Cox Federal "B" #1

COX FEDERAL "B" #1, 1980 FSL & 660 FWL Sec 3, T-9-S, R-36-E, Lea Co, NM. OBJECTIVE: Drill and complete Bough "C" single oil producer. AFE 9137 - Mobil Intr 100% - Est Cost \$170,000.

12/26/69 RURT.

12/27 RURT.

12/29 (2) 415 ND red bed, WOC on 13-3/8 csg, ran 415' 48" 13-3/8 OD J-55 ST&C csg cemented on bottom by Howco w/ 400x Class C cement w/ 2% HA-5, PD @ 9:45 p.m., cement circ, Marcum Drlg Co spud in 11:00 a.m. 12/27/69. WOC & repair rig.

COX FEDERAL "B" #1

12/30 (3) 1475 drlg red bed, 11" hole, 3/4 @ 1050.

Fr Wtr.

COX FEDERAL "B" #1

12/31/69 (4) 2465 drlg salt and anhy, 11" hole, 1/4 @ 2260.

Br Wtr.

COX FEDERAL "B" #1

1/2/70 (6) 3945 drlg anhy, 11" hole, 2 1/2 @ 3500.
Depth @ midnite 12/31/69 3282.

Br Wtr & Oil.

COX FEDERAL "B" #1

1/3 (7) 4176 drlg anhy & 1m 11" hole, 1-1/2 @ 3995

Br Wtr & Oil

1/4 (8) 4300 ND anhy & 1m, 11" hole, 1-1/4 @ 4300

Br Wtr & Oil

Finish 11" hole circ. 2-1/2 hrs, P & LD DP & DC's, running 8-5/8" csg past 2-1/2 hrs.

1/5 (9) 4300 ND, WOC 8-5/8" casing

Ran 61 jts 32# 1936' + 75 jts 24# 2464' 8-5/8" O.D. J-55 ST&C cemented on bottom by Howco w/1300 sx Class C 4% gel cement + 200 sx Class C neat cement, plug down @ 11:15 a.m. 1-4-70. Cement did not circulate, WOC 7 hrs, Worth Well ran temp. survey, top of cement @ 3150, prep to drill 7-7/8" hole.

COX FEDERAL "B" #1

1/6 (10) 4775 drlg sdy 1m, 7-7/8" hole, NND

Fr Wtr

WOC total 20-3/4 hrs, test 8-5/8" casing, 2000# ok.

COX FEDERAL "B" #1

1/7 (11) 5195 drl 1m, 7-7/8" hole 3/4 @ 4795

Fr Wtr

COX FEDERAL "B" #1

1/8 (12) 5723 drlg sdy 1m, 7-7/8" hole, 1/4 @ 5200.

Fr Wtr.

COX FEDERAL "B" #1

1/9 (13) 6238 drlg 1m, 7-7/8" hole 1/2 @ 5910

Fr Wtr

COX FEDERAL "B" #1

1/10 (14) 6643 drlg 1m, 7-7/8" hole, NND

Fr Wtr

1/12 (16) 7318 drlg 1m, 7-7/8" hole 1/4 @ 7065

Fr Wtr

COX FEDERAL "B" #1

1/13 (17) 7598 drlg 1m 7-7/8" hole, NND

Fr Wtr

COX FEDERAL "B" #1

1/14 (18) 7878 drlg st 7-7/8" hole 1/4 @ 7590

9.5-37-NC 3% Oil

COX FEDERAL "B" #1

1/15 (19) 8192 drlg 1m & sh 7-7/8" hole 1 1/2° 8185

9.6-37-4% Oil

COX FEDERAL "B" #1

1/16 (20) 8424 drlg 1m 7-7/8" hole, NND

9.6-37-NC 4% Oil

COX FEDERAL "B" #1

1/17 (21) 8665 drlg 1m 7-7/8" hole 1-3/4° 8480

9.7-38-NC 4% Oil

1/19 (23) 8932 drlg 1m 7-7/8" hole 1° 8850

9.8-38-NC 4% Oil

COX FEDERAL "B" #1

1/20 (24) 9154 drlg 1m 7-7/8" hole, NND

9.8-38-NC 4% Oil

COX FEDERAL "B" #1

1/21 (25) 9347 drlg 1m 7-7/8" hole, NND

9.8-38- NC 4% oil

COX FEDERAL "B" #1

1/22 (26) 9518 drlg 1m 7-7/8" hole 3/4° 9405

9.7-38-NC 4% Oil

COX FEDERAL "B" #1

1/23 (27) 9630 drlg 1m 7-7/8" hole, NND

8.8-45-10.0 4% Oil

COX FEDERAL "B" #1

1/24 (28) 9689 ND 1m, 7-7/8" hole, 1/2 @ 9685.
Fish for rock bit cone past 6 hrs.

10.0-42-8.4, 4% oil.

1/25 (29) 9806 drlg 1m & sh, 7-7/8" hole, NND.
3 1/2 add'l hrs fishing & rec cone.

10.0-40-10.0, 4% oil.

1/26 (30) 9950 TD 1m & sh, 7-7/8" hole, NND.
circ past 2 hrs to run logs.

9.9-42-6.4, 4% oil.

COX FEDERAL "B" #1

1/27 9950 TD 1m, 7-7/8" hole, 1 1/4 @ 9950.

9.9-44-10.0, 4% oil.

Circ 2 hrs, POH, Schl ran SWNP and GR Caliper logs 0-9947, ran Laterolog 4296-9947
in 9 hrs, ran bit to bottom, circ and WOO past 6 hrs.

COX FEDERAL "B" #1

1/28 9950 TD 1m, 7-7/8" hole, NND. 9.9-44-10, 4% oil.

Circ 12 add'l hrs, WOO & csg, pull and LD DP & DC, running 5 1/2 csg past 4 1/2 hrs.

COX FEDERAL "B" #1.

1/29 9950 TD, WOC 5 1/2 csg, finish running 5 1/2 csg 15.50# & 17.0# to 9950, cemented
on bottom by Howco w/ 200x Incor Neat cement, PD @ 11:30 a.m. 1/28/70, WOC 6
hrs, Worth Well ran temp survey, top of cement @ 8700, NU csg, Rel Marcum Drlg
Co rig @ 10:00 p.m. 1/28/70, prep to set out tools.
5 1/2 csg run in following order - bottom up:
71 jts 17# N-80 LT&C 2616'; 46 jts 17# J-55 ST&C 1498'; 45 jts 15.50# J-55 ST&C
1443'; 37 jts 15.50 J-55 LT&C 1190'; 100 jts 17# J-55 LT&C 3203' - total 299 jts.

COX FEDERAL "B" #1, 9950 TD.

1/30 MOT.

COX FEDERAL "B" #1, 9950 TD.

1/31 Finish MOT, inst'l unit anchors, prep to MI unit to complete.

2/1 MIRU X-Pert Well Serv DD unit, Schl ran PDC log from 9200 tp 9900
then perf 5 1/2 csg in the (Bough C) @ 9830-36 w/ 2 SPF, total 14
holes, ran Baker R pkr on 250 jts 2-3/8 tbg, SD for nite.2/2 Finish running pkr on 2-3/8 tbg to 9778, RU, S 20 BLW/3 hrs, cut
paraffin in tbg/5 hrs, SD for nite.

COX FEDERAL "B" #1, 9950 TD.

2/3 Cut paraffin 10 hrs @ 5500-6100, SD for nite, prep to pull tbg.

COX FEDERAL "B" #1, 9950 TD.

2/4 Pulled 6100' of 2-3/8 tbg, attempted to run paraffin cutters to pkr would not go, P & LD tbg, steamed tbg, rerun pkr & 2-3/8 tbg, set pkr @ 9778, S 25 BLW/3 hrs, sw dry, SD for nite, prep to acidize.

COX FEDERAL "B" #1, 9950 TD.

2/5 SI 12 hrs, FL 9100, ran sw 1 run, then Chemical Engr Co acidized perms w/ 3000 gals 15% NE acid + 20 RCNB sealers, BDTP 5200, TTP 5200 to vac, rate 3.7 BPM, ISIP vac, job compl @ 3:00 p.m. 2/4/70, S 22 BLW/1½ hrs, FL 4800-5300, no gas, SD for nite. - 13 BLW + 72 BAW.

COX FEDERAL "B" #1, 9950 TD.

2/6 SI 13 hrs, 6000' FIH, S 10 BNO + 13 BLW + 72 BAW + 1 BFW/11 hrs, L hr sw 12 bbls, S/O 20% oil 4000 to 5000 FIH, gd sh of gas.

COX FEDERAL "B" #1, 9950 TD

2/7 SI 13 hrs TP 680#, FL 2 bbls fluid 1 hr died, 5000' FIH sw 10 BNO + 22 BFW 5 hrs then FL 11 BNO + 8 BFW 1½ hrs, 36-48/64" ck, TP 40-200# then died, ran swab 2 runs then FL 32 BNO + 28 BFW in 3 hrs 48/64" ck TP 140-220# L hr FL 18 bbls S/O 50% Oil, SD for nite

2/9 9950 TD, SI 12 hrs TP 825#, unseat pkr and lay down tbg, Dresser Atlas set Baker Model D pkr @ 9800', ran 194 jts 2-7/8" hydril tbg w/ fluid pack cavity and locator seal assembly, SD for nite

COX FEDERAL "B" #1, 9950 TD.

2/10 Finish running 2-7/8 CS Hydril tbg total 334 jts landed in Model D pkr @ 9800, fluid pack pump cavity @ 9764-94, landed in pkr w/ 6000# wt, remove BOP, inst'l tree, RD & Rel to Prod @ 3:00 p.m. 2/9/70. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/11 Bldg tank battery and power oil system, 15% compl. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/12 Bldg tank battery and PO system, 25% compl. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/13 Bldg tank battery and PO system, 60% complete. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/16 Bldg tank battery and PO system, 90% compl. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/17 Bldg tank battery and PO system, 95% compl. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/18 Bldg tank battery and PO system, 100% compl. - 207 BLW.
WO compl of power line by Lea Co Coop.

COX-FEDERAL "B" #1, 9950 TD.

2/19 WO compl of power line by Lea Co Coop. - 207 BLW.

COX-FEDERAL "B" #1, 9950 TD.

2/20 Circ PO 12 hrs, prep to drop pump. - 207 BLW.

COX FEDERAL "B" #1, 9950 TD.

2/24/70 POTENTIAL Circ 175 BLO in and 85 BLW out, ran FPP free type hydraulic pump 2½ x 2" x 2" x 2" x 1.75", P 175 BLO + 16 BNO + 122 BLW/20 hrs. On NM OCC POT TEST: P 174 BNO + 20 BLW + 36 BSW/24 hrs, 86 - 2" and 1.75" x 15" SPM, GOR 1560/1, Grav 444 @ 60, Allow 174 BOPD nonprorated, Top 344, Cap 174. Compl 2/4/70.
FINAL REPORT.