

NEW MEXICO - ANTIQUITY
NEW MEXICO - GEOLOGY
NEW MEXICO - MINERAL RESOURCESUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 022636

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

HODGES A FEDERAL

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

CATO (SAN ANDRES)

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

SECTION 27, T-8-S, R-30-E
NMPS SURVEY

12. COUNTY OR

CHAVEZ

13. 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

SHELL OIL COMPANY (WESTERN DIVISION)

3. ADDRESS OF OPERATOR

P. O. BOX 1509, MIDLAND, TEXAS 79701

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

At surface 1980' FSL & 660' FWL, SECTION 27, T-8-S, R-30-E,

At top prod. interval reported below
NMPS SURVEY.

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

12-13-67 12-23-67 12-27-67 4158GR 4158 GR

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS 25. CABLE TOOLS

3640' 3600' → 0-3640

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3484-3525 SAN ANDRES

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

ACOUSTIC LOG & FOCUSED LOG GR-CCL

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
8 5/8"	24	269'	12 1/4"	200	
4 1/2"	10.5	3637'	7 7/8"	400	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2"	3372	3372'

31. PERFORATION RECORD (Interval, size and number)

1/2" 3484, 3487, 3489, 3491, 3495,
3501, 3505, 3507, 3511, 3520, 3525
(11 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3484-3525	5000 GAL. 28 % HCL

33.* PRODUCTION

DATE FIRST PRODUCTION 12-27-67 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOWING WELL STATUS (Producing or shut-in) PRODUCING

DATE OF TEST 12-27-67 HOURS TESTED 10 HRS. CHOKER SIZE 20/64" PROD'N. FOR TEST PERIOD → OIL—BBL. 155 GAS—MCF. 59 WATER—BBL. 0 GAS-OIL RATIO 10/1

FLOW. TUBING PRESS. 200 CASING PRESSURE → CALCULATED 24-HOUR RATE 372 OIL—BBL. 142 GAS—MCF. 142 WATER—BBL. 0 OIL GRAVITY API (CORR.) 29.8°

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

VENTED

35. LIST OF ATTACHMENTS

36. LOGS—DEVIATION RECORD

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

SIGNED Original Signed By J. D. DUREN TITLE STAFF PETROPHYSICAL ENGINEER DATE DECEMBER 28, 1967

ACCEPTED FOR RECORD (See Instructions and Spaces for Additional Data on Reverse Side)

J. N. Sutherland
District EngineerRECEIVED
H. G. STALLING
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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.
San Andres	3482	3530	Hydrocarbon bearing
San Andres	3542	3596	Hydrocarbon & water bearing

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Base Red Beds	1062	3106
Yates	1606	2562
San Andres	2769	1399
San Andres Marker	3314	854
A Zone	3468	700
B C Zone	3548	620

NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR WILL OIL COMPANY ADDRESS P. O. BOX 1074, MIDLAND, TEXAS 79701
 FIELD CATO (SAN ANGELO) LEASE BOICE & FEDERAL WELL NO. 3
 LOCATION 1950 F&L & 640 F&L, AC. 27, 1-8- E-30-4, CHAVEZ COUNTY, NEW MEXICO

DEVIATION RECORD

170'	3/4°
750'	3/4°
1222'	1°
1315'	1 1/4°
2225'	1 1/2°
2706'	1 1/4°
2890'	3/4°
3200'	1 1/4°
3440'	1°
3640'	1/2°

Certification of personal knowledge of Deviation Record:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information is true and complete.

[Signature] D. B. DEAL
 Signature
WILL OIL COMPANY
 Company

STATE OF TEXAS
 COUNTY OF MIDLAND

Before me, the undersigned authority, on this day personally appeared D. B. DEAL, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is acting at the direction and on behalf of the operator of the well identified in this instrument and that such well was not intentionally deviated from the vertical.

[Signature] D. B. DEAL
 Signature
WILL OIL COMPANY SUPERINTENDENT
 Title

Sworn and Subscribed to before me, this the 21st day of December 19 67

[Signature]
 Notary Public in and for Midland County,
 Texas.

RECEIVED

DEC 28 1967

U. S. GEOLOGICAL SURVEY
 CANTON, NEW YORK