

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

Form C-105  
Revised 1-1-65

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LAND OFFICE	
OPERATOR	

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

1a. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐  
b. TYPE OF COMPLETION  
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name  
8. Farm or Lease Name  
**E. L. HARROD**  
9. Well No.  
**1**

2. Name of Operator  
**GREAT WESTERN DRILLING COMPANY**  
3. Address of Operator  
**BOX 1659 MIDLAND, TEXAS 79701**  
4. Location of Well

10. Field and Pool, or Wildcat  
**UNDESIGNATED**

UNIT LETTER **I** LOCATED **1980** FEET FROM THE **SOUTH** LINE AND **660** FEET FROM THE **EAST** LINE OF SEC. **7** TWP **16-S** RGE. **35-E** NMPM

12. County  
**LEA**

15. Date Drilled **12-9-72** 16. Date T.D. Reached **2-8-73** 17. Date Compl. (Ready to Prod.) **2-24-73** 18. Elevations (DF, RKB, RT, GR, etc.) **4039.9 GR** 19. Elev. Casinghead

20. Total Depth **13,060** 21. Plug Back T.D. **11,327** 22. If Multiple Compl., How Many  
23. Intervals Drilled By **Rotary Tools** **0-13,060'** Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name  
**11,268-11,294 GROUND MEASUREMENTS, CANYON LIME** 25. Was Directional Survey Made **NO**

26. Type Electric and Other Logs Run  
**Compensated acoustic velocity, gamma ray, induction-electric, contact caliper.** 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
<b>13 3/8"</b>	<b>48#</b>	<b>306</b>	<b>17"</b>	<b>370 sacks</b>	
<b>8 5/8"</b>	<b>32# &amp; 24#</b>	<b>4,660</b>	<b>11"</b>	<b>200 sacks</b>	
<b>4 1/2"</b>	<b>13.5# &amp; 11.6#</b>	<b>11,382</b>	<b>7 7/8"</b>	<b>300 sacks</b>	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<b>2 3/8"</b>	<b>11,012;</b>	<b>10,718'</b>

31. Perforation Record (Interval, size and number)  
**11,268' to 11,291' GLM, 23 holes, 14 gram charges**

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
<b>11,268 to 11,291</b>	<b>500 gallons mud acid</b>

33. PRODUCTION

Date First Production **2-25-73** Production Method (Flowing, gas lift, pumping -- Size and type pump) **Flowing** Well Status (Prod. or Shut-in) **Shut-in**

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas-Oil Ratio
<b>4-3-73</b>	<b>24</b>	<b>16/64</b>	<b>273.24</b>	<b>400.8</b>	<b>0</b>	<b>1467</b>	

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
<b>1280-780</b>	<b>1000</b>	<b>273.24</b>	<b>400.8</b>	<b>0</b>	<b>43.3</b>	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **VENTED** Test Witnessed By **HOWARD CLAYPOOL**

35. List of Attachments  
**DEVIATION RECORD, DST SUMMARY, LOGS.**

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 **CHIEF ENGINEER** DATE **4/11/73**

# 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 <u>1787</u>	T. Canyon <u>11,160</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>11,919</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>L. 12,193</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2,973</u>	T. <del>MORROW SAND</del> <u>12,923</u>	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. <del>CHESTER</del> <u>13,018</u>	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 <u>6,210</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. <del>YESO</del> <u>6,547</u>	T. Ellenburger _____	T. Dakota _____	T. _____
T. <del>CLEARFORK</del> <u>6,769</u>	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>7,375</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>8,033</u>	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. _____

### \*TOPS FROM KB MEASUREMENTS

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
* 0	1787	1787	<del>Redbeds</del> Redbeds	12,964	13,018	54	Shale
1787	1974	187	Anhydrite & Redbeds	13,018	13,054	36	Lime
1984	2973	999	<del>Salt</del> Salt/Anhydrite				
2973	4590	1617	Anhy., sand, shale				
4590	6210	1620	Dolomite				
6210	6769	559	Sand & Dolomite				
6769	7375	606	Dolomite				
7375	7593	218	Sand & Dolomite				
7593	8033	440	Dolomite				
8033	9860	1827	Shale & Dolomite				
9860	10,894	1034	Lime & Shale				
10,894	11,160	266	Shale & some Lime				
11,160	11,298	138	Lime & some shale				
11,298	11,876	578	Shale & some Lime				
11,876	11,893	17	Sand				
11,893	11,919	26	Shale				
11,919	11,985	66	Lime				
11,985	12,193	208	Shale, lime & sand				
12,193	12,290	97	Lime				
12,290	12,643	353	Shale & Sand				
12,643	12,897	254	Shale & Lime				
12,897	12,964	67	Sand w/shale stringers				

\*Formation record is from KB measurements

RECORD OF DEVIATION TESTS

GREAT WESTERN DRILG. COMPANY

E. L. HARROD NO. 1

SECTION 7, T-16-S, R-35-E, LEA COUNTY, NM

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
310	1½	7,106	1½
859	1	7,522	¾
1,300	1	8,016	1
1,769	¾	8,525	¼
2,045	¼	8,995	½
2,543	½	9,468	1
3,012	1	9,595	1
3,275	¾	10,065	1½
3,755	1	10,270	¾
3,900	¾	10,724	1½
4,275	1	10,874	1½
4,660	1	11,258	1 ¾
5,114	1	11,763	1½
5,618	½	12,025	2
6,119	¾	12,297	2
6,678	1	12,610	1
		12,962	1

DRILL STEM TEST SUMMARY

GREAT WESTERN DRILLING COMPANY

E. L. HARROD NO. 1

SECTION 7, T-16-S, R-35-E, LEA COUNTY, NM

DST NO. 1

11,165' to 11,258'. Open 15 minutes with strong blow immediately. Shut in one hour. Opened with gas to surface in 7 minutes on 1/2" choke. Calculated 180 MCFGPD with trace of distillate. Recovered 659' of gas cut and mud cut oil. Sample chamber recovered 0.75 CF of gas plus 800 cc of oil, 120# pressure. 1 HP 5298#, preflow 183#-183#, ISIP 1954#, FP 183#-229#, 3 hour FSIP 4017#, FHP 5254#.

DST NO. 2

11,240' to 11,310'. Opened 30 minutes, had gas to surface in 17 minutes at a maximum rate of 335 MCFPD. Shut in 2 hours, open one hour on 1/4" choke. Surface flowing pressure was 10# after 10 minutes, 25# after 40 minutes. Had oil to surface in 43 minutes at 33# FP, 40# after 45 minutes, and 140# at end of one hour flow period. Shut in 7 hours. Reversed out 19 bbls. of oil and no water. Recovered 150' of oil and gas cut mud from below circulating sub. MFE chamber recovery at 1240# was 5.8 CFG plus 300 cc of oil. HP 5437#-5395#, preflow 482#-1052#, 2 hour ISIP 5047#, regular flow 833#-1921#, 7 hour FSIP 4787#.

DST NO. 3

Atoka Sand, 11,995' to 12,025'. Open 30 minutes, shut in one hour, open one hour, shut in 2 hours. Had weak blow for 15 minutes and died. By-passed tool after 35 minutes, bubbled and died. Recovered 1027' of water blanket and 10' of mud. HP 5941#-5892#, FP 470#-470#, One hour ISIP 858#, FP 470#-470#, 2 hour FSIP 1663#.

DST NO. 4

Morrow Sand, 12,888'-12,962'. Had very weak blow throughout test. Open 30 minutes, shut in one hour, open 1½ hours, shut in 3 hours. Recovered 2400' water blanket plus 93' of drilling mud. Sample chamber recovery was 2500 cc of drilling mud at -0- pressure. HP 6777#-6691#, FP 1139#-1139#, One hour ISIP 3702#, FP 1139#-1182#, 3 hour FSIP 3745#.