

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

WELL API NO.
30-015-31711

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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 ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

7. Lease Name or Unit Agreement Name

Harroun 15

2. Name of Operator
Pogo Producing Company

8. Well No.
13

3. Address of Operator
P. O. Box 10340, Midland, TX 79702-7340

9. Pool name or Wildcat
Cedar Canyon Delaware

4. Well Location
Unit Letter P : 660 Feet From The South Line and 360 Feet From The East Line
Section 15 Township 24 Range 29 NMPM Eddy County

10. Date Spudded 06/19/01 11. Date T.D. Reached 07/06/01 12. Date Compl. (Ready to Prod.) 09/29/01 13. Elevations (DF & RKB, RT, GR, etc.) 2942 14. Elev. Casinghead 2943

15. Total Depth 8020 16. Plug Back T.D. 7973' 17. If Multiple Compl. How Many Zones? 1 18. Intervals Drilled By Rotary Tools ☒ Cable Tools ☐

19. Producing Interval(s), of this completion - Top, Bottom, Name 5282'-5310' Delaware 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run DLL/MLL, CN/ZDL 22. Was Well Cored No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	580	17-1/2	1070 sks	
8-5/8	32	2915	11	1050 sks	
5-1/2	17 & 15.5	8020	7-7/8	1830 sks	

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8	5188	

26. Perforation record (interval, size, and number) <u>5282'-5310' (2 spf)</u>	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	<u>5282-5310</u>	<u>Acidz w/ 1000 gals 7-1/2% acid</u>
		<u>Frac w/ 38,000# 20/40 Ottawa +</u> <u>10,000# 20/40 SLC</u>

PRODUCTION

Date First Production <u>09/29/01</u>		Production Method (Flowing, gas lift, pumping - Size and type pump) <u>Pumping</u>				Well Status (Prod. or Shut-in) <u>Producing</u>	
Date of Test <u>10/05/01</u>	Hours Tested <u>24</u>	Choke Size	Prod'n For Test Period	Oil - BbL. <u>48</u>	Gas - MCF <u>42</u>	Water - BbL. <u>195</u>	Gas - Oil Ratio <u>875:1</u>
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - BbL. <u>48</u>	Gas - MCF <u>42</u>	Water - BbL. <u>195</u>	Oil Gravity - API - (Corr.) <u>39.2</u>	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold Test Witnessed By
Jack Burnett

30. List Attachments
C-104, Sundry, Logs, Deviation Survey

31. 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

Signature Cathy Tomberlin Printed Name Cathy Tomberlin Title Sr. Operation Tech Date 10/05/01

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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 specific 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 25 through 29 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 Otzte _____
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. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

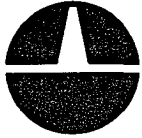
No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology
		2804.0	Basal Anhydrite
		3008.0	Delaware Lime
		3034.0	Bell Canyon
		3878.0	Cherry Canyon
		5111.0	Brushy Canyon
		6740.0	Bone Spring



PATTERSON-UTI DRILLING COMPANY

A LIMITED PARTNERSHIP

410 North Loraine Street • Midland, Texas 79701
Phone 915-682-9401 • Fax 915-682-1565

RECEIVED

JUL 19 2001

MIDLAND

July 18, 2001

Pogo Producing Company
P. O. Box 10340
Midland, TX 79702-7340

CONFIDENTIAL

Re: Deviation Report
Harroun 15 #13
Sec. 15, T-24-S, R-29-E

Gentlemen:

The following is a deviation survey on the above-referenced well located in Eddy County, New Mexico.

297' - 1.00	2440' - 0.75	4648' - 1.00	7465' - 1.75
541' - 1.00	2655' - 0.75	4959' - 0.50	7497' - 1.75
821' - 0.75	2875' - 1.00	5361' - 1.25	7528' - 1.75
1130' - 0.75	3199' - 0.75	5669' - 0.50	7775' - 2.25
1412' - 1.25	3498' - 1.00	5980' - 0.50	7898' - 2.75
1565' - 0.75	3778' - 1.25	6290' - 0.75	7991' - 2.75
1818' - 0.75	3963' - 1.50	6599' - 0.75	
2107' - 1.00	4151' - 1.00	6911' - 0.75	
2250' - 1.00	4369' - 1.00	7188' - 0.75	

Sincerely,

Treva Forrester

Treva Forrester

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 18th day of July, 2001 by Treva Forrester.

MY COMMISSION EXPIRES:

Denise Beck
NOTARY PUBLIC

