

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATES

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-29233

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 12

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

Livingston Ridge, Delaware

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

Section 12, T-22-S, R-31-E

12. COUNTY OR PARISH
Eddy

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

Pogo Producing Company (915)682-6822

3. ADDRESS OF OPERATOR

P.O. Box 10340, Midland, Texas 79702-7340

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

At surface 660' FNL & 330' FWL, Section 12, T-22-S, R-31-E

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

10-10-92

15. DATE SPUDDED

12-12-91

16. DATE T.D. REACHED

12-26-91

17. DATE COMPL. (Ready to prod.)

01-18-92

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

3553 GR

19. ELEV. CASINGHEAD

3552'

20. TOTAL DEPTH, MD & TVD

8460'

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

8416'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0'-8460'

CABLE TOOLS

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

7022'-7077' Delaware, Brushy Canyon

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

CBL, AIS, PDS & CNS

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"	61#	810'	17-1/2"	920 sx-Circ 250 sx	
8-5/8"	32#	4403'	11"	1675 sx-Circ 350 sx	
5-1/2"	15.5# & 17#	8460'	7-7/8"	1st Stg. 710 sx-Circ 150 sx	
				2nd Stg. 670 sx TOC 2156'	DV Tool @ 6198'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	6977'	--

31. PERFORATION RECORD (Interval, size and number)

7022'-7077' (50'-100 holes, .49 Dia.)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7022'-7077'	1500 gal 15% NEFE HCL
7022'-7077'	Frac - 30,000 gals Gel
	87,000 lbs. 20/40 Sand

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
01-18-92		Flowing					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
01-19-92	24	30/64	→	227	150	186	661:1	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL —BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
90	480	→	227	150	186	38.4 @ 60 deg. F		

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

Vented

TEST WITNESSED BY

Stan Morgan

35. LIST OF ATTACHMENTS

Logs, Deviation Surveys, C-104, 3160-5, 3162

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

SIGNED

TITLE

Division Operations Supt.

DATE

January 22, 1992

*(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 23, 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			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Basal Anhydrite	4212'	Log
				Delaware Lime	4450'	Log
				Bell Canyon	4520'	Log
				Cherry Canyon	5336'	Log
				Brushy Canyon	6609'	Log
				Bone Springs	8340'	Log

WELL Federal "12" #5

LOCATION Sec 12-22S-31E Eddy County, NM

(Give Unit, Section, Township, And Range)

OPERATOR Pogo 500 W. Illinois, Ste. 600 Midland, Tx 79701

DRILLING CONTRACTOR Exeter Drilling Company

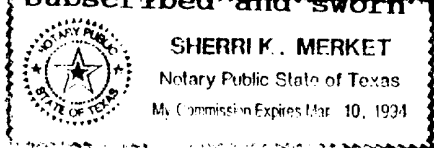
The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1/2 221'</u>	<u>3 4,884'</u>	
<u>1/2 499'</u>	<u>2 5,476'</u>	
<u>3/4 810'</u>	<u>1 5,977'</u>	
<u>1 1,303'</u>	<u>0 6,475'</u>	
<u>1 1,803'</u>	<u>1 6,972'</u>	
<u>3/4 2,301'</u>	<u>1/4 7,471'</u>	
<u>1 1/4 2,570'</u>	<u>1 1/2 7,965'</u>	
<u>1 1/2 2,799'</u>	<u>1 8,460'</u>	
<u>2 1/4 3,050'</u>		
<u>2 3,298'</u>		
<u>2 3,518'</u>		
<u>1 3/4 3,800'</u>		
<u>4 1/4 4,048'</u>		
<u>5 4,139'</u>		
<u>4 1/4 4,205'</u>		
<u>4 1/4 4,298'</u>		
<u>4 4,393'</u>		

Drilling Contractor EXETER DRILLING CO.

By Bob Lange
Bob Lange-Drilling Eng.-Southern Division

Subscribed and sworn to before me this 7th day of January, 1992.



Notary Public

Sherri K. Merket
Sherri K. Merket

My commission expires: 3-10-94

Midland County, Texas