

N.M. OIL COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

PAA
4-14-94

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Pogo Producing Company

3. Address and Telephone No.

P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822

4. Location of Well (Frontage, Sec., T., R., M., or Survey Description)

1980' FSL & 660' FEL, Section 27, T22S, R32E

5. Lease Designation and Serial No.

NM-81272

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Prize Federal #3

9. API Well No.

30-025-32143

10. Field and Pool, or Exploratory Area

W. Red Tank Delaware

11. County or Parish, State

Lea County, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Pogo respectfully request permission to dispose of off-lease produced water from the above well via 6" poly line into the Red Tank 28 Federal #3 SWD located NW/4, NE/4, Section 28, T22S, R32E, Lea County. The Red Tank 28 Federal #3 SWD is an approved disposal well per Administrative Order SWD-526 (Attached).

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APR 14 2 23 AM '94

BUREAU OF LAND MANAGEMENT
HOBBS, NM.

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APR 15 12 14 PM '94

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14. I hereby certify that the foregoing is true and correct

Signed Shannon J. Shaw

Title Senior Operations Engineer

Date April 7, 1994

(This space for Federal or State office use)

Orig. Signed by Shannon J. Shaw

Title Petroleum Engineer

Date 5/12/94

Approved by _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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1972

U.S. AIR FORCE
OFFICE



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

April 7, 1994

OPERATOR: Pogo Producing Company Lease No. NM-81272

WELL NO. & NAME Prize Federal #3

LOCATION: NE 1/4 SE 1/4, Sec. 27, T. 22 S., R. 32 E., Eddy County, N.M.
Lea

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Brushy Canyon/Bone Spring</u>	Name(s) of formation(s) producing water on the lease.
<u>70 Total BBLS</u>	Amount of water produced from each formation in barrels per day.
<u>Attached</u>	A water analysis of produced water from each zone showing in at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>500 BBL F.G. Tank</u>	How water is stored on the lease.
<u>6" Poly Line</u>	How water is moved to disposal facility.
<u>Pogo Producing Co.</u> <u>Red Tank 28 Fed. #3 SWD</u>	Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

Supervisory Petroleum Engineer Technician

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OLD FOLLY
OFFICE

TRETOLITE DIVISION

 (505) 746-3588
 Fax (505) 746-3580

 Reply to:
 P.O. Box FF
 Artesia, NM
 88211-7531

 WATER ANALYSIS REPORT

 Company : POGO PRODUCING
 Address : MIDLAND, TX
 Lease : PRIZE ~~3~~
 Well : #3
 Sample Pt. : WELLHEAD

 Date : 3/17/94
 Date Sampled : 3/16/94
 Analysis No. : 631

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	5.3		
2.	H ₂ S	NEG		
3.	Specific Gravity	1.175		
4.	Total Dissolved Solids	251347.0		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO ₂	NR		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaCO ₃)			
10.	Methyl Orange Alkalinity (CaCO ₃)			
11.	Bicarbonate	HCO ₃ 122.0	HCO ₃	2.0
12.	Chloride	Cl 154851.0	Cl	4368.2
13.	Sulfate	SO ₄ 300.0	SO ₄	6.2
14.	Calcium	Ca 14600.0	Ca	728.5
15.	Magnesium	Mg 2681.4	Mg	220.6
16.	Sodium (calculated)	Na 78792.6	Na	3427.3
17.	Iron	Fe NR		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO ₃)	47500.0		

 PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
-----	-----	-----	-----
729 *Ca <----- *HCO ₃	Ca(HCO ₃) ₂	81.0	162
/----->	CaSO ₄	68.1	425
	CaCl ₂	77.1	28969
	Mg(HCO ₃) ₂	73.1	
3427 *Na -----> *Cl	MgSO ₄	60.2	
	MgCl ₂	47.6	10502
	NaHCO ₃	84.0	
	Na ₂ SO ₄	71.0	
	NaCl	58.4	200289

Saturation Values Dist. Water 20 C

CaCO ₃	13 mg/L
CaSO ₄ * 2H ₂ O	2090 mg/L
BaSO ₄	2.4 mg/L

 REMARKS:

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 A. MILLER

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MAY 19 1964

OLD HOUSE
OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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

3. ADDRESS OF OPERATOR

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

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

At surface 1980' FSL & 660' FEL, Sec. 27, T22S, R32E

At top prod. interval reported below same

At total depth same

14. PERMIT NO.

DATE ISSUED

7/23/93

12. COUNTY OR PARISH

Lea

13. STATE

NM

15. DATE SPUDDED

11/6/93

16. DATE T.D. REACHED

11/19/93

17. DATE COMPL. (Ready to prod.)

12/2/93

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

3658.8' GR

19. ELEV. CASINGHEAD

3657.8'

20. TOTAL DEPTH, MD & TVD

8855'

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

8809'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0'-8855'

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

8368'-8402' Brushy Canyon (MD & TVD)

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-CNL-CBL

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	54.5#	815	17-1/2	1000 sx - circ 250 sx	
8-5/8	32#	4537	11	1800 sx - circ 280 sx	
5-1/2	17#	8855	7-7/8	1425 sx - TOC @ 2240'	

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	8280'	

31. PERFORATION RECORD (Interval, size and number)

8368'-8402' (68 - .50" Dia holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8368'-8402'	Acidz w/ 1000 gals 15% HCL
	Frac w/ 50390 gals X-L gel
	+ 42,000# 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)	
12/4/93		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/6/93	24	14/64"	→	150	177	50	1180:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
350	1020	→	150	177	50	44.5	

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

Vented

TEST WITNESSED BY

Stan Morgan

35. LIST OF ATTACHMENTS

Logs, C-104, Sundries, Deviation Survey

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

SIGNED

[Signature]

TITLE Senior Operations Engineer

DATE 12/8/93

*(See Instructions and Spaces for Additional Data on Reverse Side)

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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Basal Anhydrite	4422	log
				Delaware Lime	4722	log
				Bell Canyon	4787	log
				Cherry Canyon	5613	log
				Brushy Canyon	6863	log
				Bone Spring	8633	log

SCALE TENDENCY REPORT

Company	: POGO PRODUCING	Date	: 3/17/94
Address	: MIDLAND, TX	Date Sampled	: 3/16/94
Lease	: PRIZE 37	Analysis No.	: 631
Well	: #3	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I. =	-0.5	at	60 deg. F	or	16 deg. C
S.I. =	-0.5	at	80 deg. F	or	27 deg. C
S.I. =	-0.5	at	100 deg. F	or	38 deg. C
S.I. =	-0.5	at	120 deg. F	or	49 deg. C
S.I. =	-0.5	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S =	953	at	60 deg. F	or	16 deg C
S =	1059	at	80 deg. F	or	27 deg C
S =	1126	at	100 deg. F	or	38 deg C
S =	1155	at	120 deg. F	or	49 deg C
S =	1175	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

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MAY 11 1971

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