

C/S

Form 31 0-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.
NM-15433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
NEL #5

9. API Well No.
30-015-26933

10. Field and Pool, or Exploratory Area
E. Loving Delaware

11. County or Parish, State
Eddy County, NM

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

RECEIVED

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 (Footage, Sec., T., R., M., or Survey Description)
2310' FSL & 330' FEL, Section 9, T23S, R28E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> 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 3" poly line into the NEL #4 SWD located SE/4, NE/4, Section 9, T23S, R28E, Eddy County. The NEL #4 SWD is an approved disposal well per Administrative Order SWD-518 (Attached).

RECEIVED
MAY 13 11 42 AM '94

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)

Approved by Orig. Signed by Shannon J. Shaw Title Date 5/2/94

Conditions of approval, if any:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

IN REPLY REFER TO

3162

April 7, 1994

OPERATOR: Pogo Producing Company Lease No. NM-15433

WELL NO. & NAME NEL #5

LOCATION: NE 1/4 SE 1/4, Sec. 9, T. 23 S., R. 28 E., Eddy County, N.M.

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

<u>Brushy Canyon</u>	Name(s) of formation(s) producing water on the lease.
<u>121 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 shown 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>3" Poly Line</u>	How water is moved to disposal facility.
<u>Pogo Producing Co.</u> <u>NEL #4 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

REACTION CHEMICAL ENTERPRISES, INC.
P.O. BOX 3868 ODESSA, TEXAS 79760-3868
915/332-4324

W A T E R A N A L Y S I S

COMPANY:	POGO	DATE OF RUN:	3-30-94
LEASE:	NEL	SAMPLE DATE:	**
WELL:	# 5	RUN #	
SAMPLE:	**	3826	

	Mg./L.	Meq./L.
TOTAL HARDNESS - CaCO ₃	110,000	
TOTAL ALKALINITY - CaCO ₃	-	
TOTAL DISSOLVED SOLIDS	410,702	
CALCIUM - Ca	36,400	1,820
MAGNESIUM - Mg	4,617	378
SODIUM - Na	114,656	4,985
BARIUM - Ba	3	
BICARBONATE - HCO ₃	24	0
CARBONATE - CO ₃	0	
SULFATE - SO ₄	0	0
CHLORIDE - Cl	255,000	7,183
CARBON DIOXIDE - CO ₂	616	
HYDROGEN SULFIDE - H ₂ S	0	
TEMPERATURE	77.0	
pH	5.250	
SPECIFIC GRAVITY	1.200	
LBS/GAL	10.0	

STABILITY INDEX (Stiff-Davis)

SI=pH-pCa-pAlk-K

DEGREES F.	S.I.
77	-0.55
100	-0.26
180	1.76

	CaSO ₄	Mg./L.
SOLUBILITY	:	134,030
ACTUAL	:	0
SATURATION %	:	0

ANALYZED BY: M. ROBESON