#### OIL CONSERVATION DIV 811 S. 1st ST. ARTESIA, NM 88210-2834

Dispose Water

Completion or Recompletion Report and Log (orm.)

Form 3160-5 (June 1990)

#### UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED

Вι	iagei puri	cau No.	1004-01	S
	Expires:	March	31, 1993	
ease	Designat	ion and	Serial No	).

BUREAU OF LAND MANAGEMENT 5. [ NM-85893 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name 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 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Weil X Oil Well 8. Well Name and No. 2. Name of Operator Cedar Canyon 21 Federal #1 9. API Well No. Pogo Producing Company 3. Address and Telephone No 30-015-28354 P. O. Box 10340, Midland, TX 79702-7340 (915)862-6822 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Cedar Canyon Delaware 11. County or Parish, State 660' FNL & 330' FEL, Section 21, T24S, R29E Eddy County, New Mexico 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Change of Plans Abandonment Recompletion **New Construction** X Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection

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.)4

Pogo Producing Company respectfully request permission to dispose of off-lease produced water from the above well via 6" poly line into the River Bend Federal #8 SWD located NE/4, NW/4, Sec. 23, T24S, R29E, Eddy County, NM. The River Bend Federal #8 SWD is an approved disposal well per Administrative Order SWD-619 (Attached).

14. I hereby certify that the foregoing is Senior Operations Engineer Signed This space for Federal 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 traudulent statements or representations as to any matter within its jurisdiction.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

# Carisbed Resource Area Headquarters P. O. Box 1778 Carisbad, New Mexico 88220

April 29, 1996

	<del>-</del>	e e e e e e e e e e e e e e e e e e e	,
OPERATOR: Pogo Produc	cing Company	Lease No. NM-81586	
WELL NO. & NAMECedar	r Canyon 21 Federal No. 1		
LOCATION: NW 1 NE	1, Sec. 21 , T. 24 S., R.	29 E., Eddy County, N.	1.
The check list below i Salt Water Disposal me	ndicates the information nee thod can be approved:	ied before your Waste or	
Brushy Canyon	Name(s) of formation(s) pro	iucing water on the lease	<b>2</b> -
30	Amount of water produced from each formation in barrels per day.		
Attached	A water analysis of produced water from each zone show- in at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.		
500 bbl FG tank	How water is stored on the	ease.	
6" poly line	How water is moved to dispo	sal facility.	
Pogo Producing Co. River Bend Fed. #8 SWD	Operator's name, well name a township and range, of the disposal facility is an approperator's name and the name should suffice.	disposal facility. If the cover disposal system, the	ie

Supervisory Petroleum Engineer Technician

### Endura Products Corp.

P.O. Box 3394 Midland, Texas 79706
Phone (915) 684–4233 \* Fax (915) 684–4277

#### WATER ANALYSIS

Date 11/27/95 Endura Rep TERRY Sampling Point/Date HEATER DUMP Company POGO PRODUCING Field Lease		Code W-0390 State NEW MEXICO County EDDY 1" Well FEDERAL #1
DISSOLVED SOLIDS  CATIONS  Sodium, Na+ (Calc.) Total Hardness as Ca++ Calcium, Ca++ Magnesium, Mg++ Barium, Ba++ Iron (Total) Fe+	mg/1 123,257 48,800 44,800 2,439 100 25	me/1 5,359 0 2,240 203 1
ANIONS		
Chlorides, COl- Sulfate, SO4- Carbonate, CO3- Bicarbonate, HCO3- Sulfide, S Total Dissolved Solids (Calc.)	277,000 0 0 73 0 447,694	7,803 0 0 1 0
OTHER PROPERTIES		tion of the second seco
pH- Specific Gravity, 60-/60 F TURBIDITY	5.190 1.206 >500	

#### SCALING INDICIES

TEMP, F	CA CO3	CASO4*2H2O	CA SO4	BA SO4
80	3.0555	-33.4810	-34.1230	-29.7264
120	4.1038	-33.4625	-33.9241	-29.7401
160	5.6800	-33.3203	-33.6093	-29.8843

#### OIL CONSERVATION DIVISION

RECEIVED

FEB 14 1996

ADMINISTRATIVE ORDER SWD-619

MIDLAND

APPLICATION OF POGO PRODUCING COMPANY FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Pogo Producing Company made application to the New Mexico Oil Conservation Division on January 17, 1996, for permission to complete for salt water disposal its Riverbend Federal Well No.8 located 460 feet from the North line and 330 feet from the West line (Unit D) of Section 23, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico.

#### THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
  - (4) No objections have been received within the waiting period prescribed by said rule.

#### IT IS THEREFORE ORDERED THAT:

The applicant herein, is hereby authorized to complete its Riverbend Federal Well No.8 located 460 feet from the North line and 330 feet from the West line (Unit D) of Section 23, Township 24 South, Range 29 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of salt water for disposal purposes into the Bell Canyon and Upper Cherry Canyon formations at approximately 3070 feet to 4470 feet through 2 3/8-inch plastic-lined tubing set in a packer located at approximately 2970 feet.

#### IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 614 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Bell Canyon and Upper Cherry Canyon formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 9th day of February, 1996.

WILLIAM J. LEMAY, Director

SEAL

WJL/BES

xc: Oil Conservation Division - Artesia
Bureau of Land Management - Carlsbad

## BUREAU OF LAND MANAGEMENT CARLSBAD RESOURCE AREA

#### Disposal of Produced Water From Federal Wells

#### Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- This agency be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
- This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
- Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
- 7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.