



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON  
Governor  
Jennifer A. Salisbury  
Cabinet Secretary

2/6/01

Lori Wrotenbery  
Director  
Oil Conservation Division

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD X \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

SWD-796

Gentlemen:

I have examined the application for the:

Pogo Producing Co Aracanga Federal # 1-D-4-235-32E  
Operator Lease & Well No. Unit S-T-R Api # 3D-025-3165D

and my recommendations are as follows:

OK

Yours very truly,

Chris Williams

Chris Williams  
Supervisor, District 1

## **BILL F. HALEPESKA**

### **PETROLEUM ENGINEER**

**Texas #58052  
P. O. Box 80064  
915/694-5945**

### **GEOLOGIST**

**Cert #2941  
Midland, Texas 79708**

January 31, 2001

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505  
Att: Mr. David R. Catanach

Re: Red Tank West Prospect U. S. 98191  
Lea County, New Mexico  
Application for Administrative Approval to Inject  
Saltwater into the Aracanga Federal No. 1 Well,  
Located 330' FSL & 2310' FEL Section 4, T-23-S,  
R-32-E, U. S. M.

Gentlemen:

Pogo Producing Company respectfully submits two (2) original Applications for Authorization to Inject (Form C-108) pertaining to the captioned well and requests that same be given Administrative Approval.

Persuant thereto, please find enclosed the following:

- (1) Copy of Notification Letter sent to all offset Leasehold Operators within one-half (1/2) mile radius of the proposed injection well and to the surface owner upon which well is located, along with copies of proof of mailing; and
- (2) Proof of Legal Publication.

Notice was originally published in area newspaper on August 30, 2000, and proper notices mailed to offset operators on Sept. 5, 2000.  
If you have any questions, please contact the undersigned.

Very truly yours,



Bill F. Halepeska, P.E.  
Agent

Enclosure(s)

cc w/encl.: New Mexico Oil Conservation Division  
Hobbs, New Mexico

Pogo Producing Company  
Aracanga Federal No. 1

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: POGO PRODUCING COMPANY  
Address: P. O. Box 10340, Midland, Texas 79702  
Contact party: Richard L. Wright Phone: 915/685-8100
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Bill F. Halepeska Title: Agent (P.E.)  
Signature: *Bill F. Halepeska* Date: 09-05-00
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and foot age location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

#### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

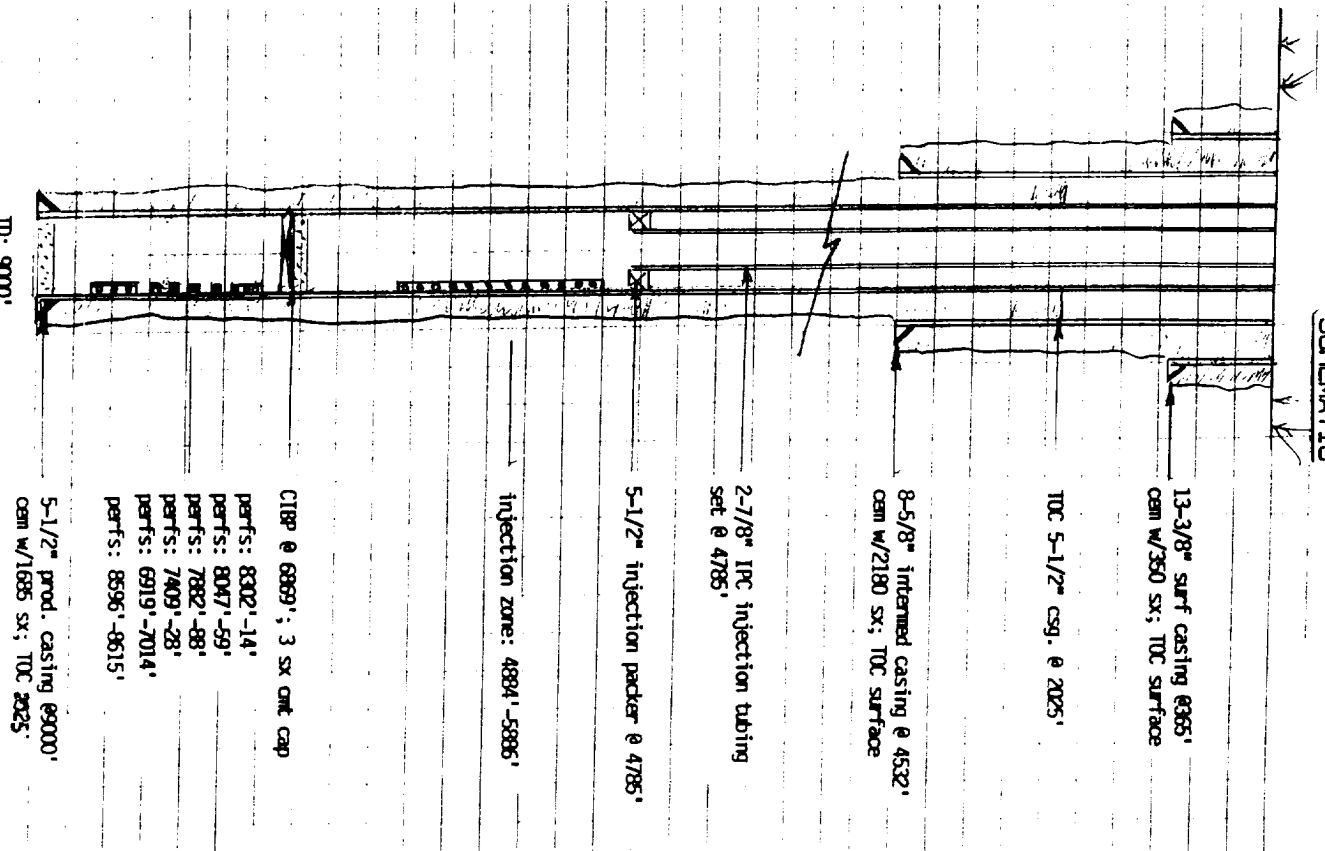
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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

FORM C-408  
ITEM 111-A

INJECTION WELL DATA SHEET

SCHEMATIC



TABULAR DATA

- (1). LEASE: Aracanga Federal WELL # 1  
 LOCATION: Sec. 4 TWP 23S Range 32E  
 County Lea County  
 Footage 330 FSL & 2310 FEL
- (2). CASING STRINGS:  
 Surface Casing  
 Size 13-3/8" Depth 365' Cemented w/ 350 sx.  
 TOC surf Determined by circulated 100 sx  
 Hole size 17-1/2"
- Intermediate Casing  
 Size 8-5/8" Depth 4532' Cemented w/ 2180 sx.  
 TOC surf Determined by circulated 200 sx  
 Hole size 12-1/4"
- Long String  
 Size 5-1/2" Depth 9000 Cemented w/ 1685 sx.  
 TOC 2025' Determined by CBL  
 Hole size 7-7/8"  
 Injection interval, from 4884 to 5886 ft.
- (3). INJECTION TUBING STRING:  
 Size 2-7/8 in., coated/lined with plastic  
 Setting depth 4785 ft.
- (4) INJECTION PACKER:  
 Size 5-1/2 in.; Make/Model UNI VI or equivalent  
 Setting depth 4785 ft.

FORM C-108

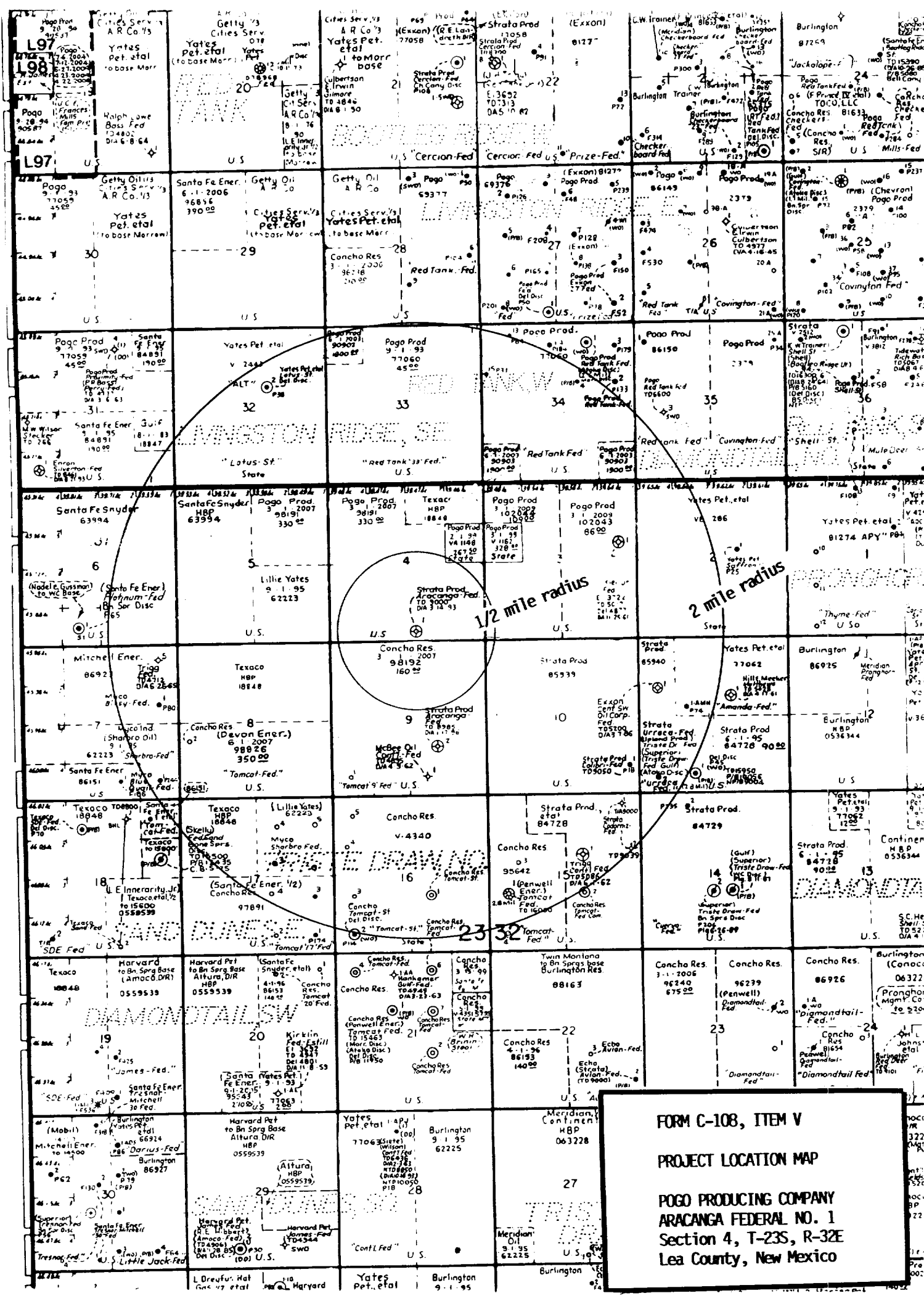
ITEM III-B

INJECTION WELL DATA

- (1). Injection formation: Delaware  
Field/Pool: Red Tank, West (Delaware)
- (2). Injection interval; from 4884 ft. to 5886 ft.  
Perforated XX Open Hole \_\_\_\_\_
- (3). Original purpose well drilled Test Lower Delaware for production
- (4). Other perforated intervals; XX Yes \_\_\_\_\_ No  
Squeezed with \_\_\_\_\_ sx., or isolated by CIBP  
test perforations 6919' - 8615' will be isolated with CIBP at +/-6869'  
and 3 sk cement cap
- (5). Oil or gas productive zone(s):  
Next higher none  
Next lower Lower Delaware (Brushy Canyon) at +/-7050'

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FORM C-108

ITEM VI

WELL DATA - AREA OF REVIEW

( ). Location: None currently within 1/2 mile radius  
Operator: \_\_\_\_\_  
Lease: \_\_\_\_\_ Well No. \_\_\_\_\_  
Well type: Oil \_\_\_\_\_ Gas \_\_\_\_\_ T.D. \_\_\_\_\_  
Date drilled: \_\_\_\_\_  
Completion data: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Plugged \_\_\_\_\_ Date \_\_\_\_\_ (diagram att.)

( ). Location: \_\_\_\_\_  
Operator: \_\_\_\_\_  
Lease: \_\_\_\_\_ Well No. \_\_\_\_\_  
Well type: Oil \_\_\_\_\_ Gas \_\_\_\_\_ T.D. \_\_\_\_\_  
Date drilled: \_\_\_\_\_  
Completion data: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Plugged \_\_\_\_\_ Date \_\_\_\_\_ (diagram att.)

( ). Location: \_\_\_\_\_  
Operator: \_\_\_\_\_  
Lease: \_\_\_\_\_ Well No. \_\_\_\_\_  
Well type: Oil \_\_\_\_\_ Gas \_\_\_\_\_ T.D. \_\_\_\_\_  
Date drilled: \_\_\_\_\_  
Completion data: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Plugged \_\_\_\_\_ Date \_\_\_\_\_ (diagram att.)

FORM C-108

ITEM VII

OPERATIONAL DATA

- (1). Average expected injection rate: 1000 BWPB; maximum anticipated rate: 3000 BWPB
- (2). Closed system
- (3). Estimated average injection pressure: 750 psi.  
Estimated maximum pressure: 975 psi.
- (4). Source of injection water: Produced water from Lower Delaware and Bone Spring zones in nearby Pogo operated wells  
Analysis of waters attached EXHIBITS I & II
- (5). Analysis of injection zone water attached, EXHIBIT III  
Data source: Corbin Delaware, Section 31, 17S, 33E from Roswell Geological Society Symposium

ITEM VIII

GEOLOGICAL DATA

INJECTION ZONE

Lithological description: sandstone, lt gray, fine to v fine grained, poorly consolidated, silty, poor calcareous cementing

Geological name: Delaware

Zone thickness: 1002 ft; Depth: 4884'

FRESH WATER SOURCE(S)

Geological name of aquifer: Santa Rosa

Depth to bottom of zone +/-650'

FORM C-108

ITEM IX

STIMULATION PROGRAM

ACIDIZE

Volume: 2000 Type acid: 7-1/2% HCl  
Rate: 5 BPM; Misc.: ball sealers  
\_\_\_\_\_

FRACTURE

Fluid volume: 55,000 gal.; Type: XLGW  
Prop type: 16/30 sand Volume (lb): 250,000  
Rate: 30 BPM; Conductor: 5-1/2"  
Misc: \_\_\_\_\_  
\_\_\_\_\_

ITEM X

LOGGING PROGRAM

Logging program included: GR/CN, L-D, DLL/MSFL  
\_\_\_\_\_  
Copy of GR/CND log(s) included with  
attachments

ITEM XI

FRESH WATER DATA

Fresh water well within 1 mile radius: xx Yes      No  
Chemical analysis from well located: Sec. 14-22S-31E  
Date sampled: 5-24-78 **EXHIBIT IV**  
Chemical analysis from well located: \_\_\_\_\_  
Date sampled: \_\_\_\_\_

ITEM XII

HYDROLOGY

Various engineering data and area logs reveal no evidence that there might exist hydrologic connection between the intended injection zone (Delaware) at 4884' and fresh water zone above 650' (Santa Rosa).

ITEM XIII

COMMERCIAL INTENTION

Initially, only water from Pogo operated wells will be disposed of in subject well/system. Eventually, Pogo could wish to take water from other leases in the area operated by someone else, but in which Pogo has a working interest. Only piped water will be taken into the system.

FORM C-108, ITEM VII(4)

ANALYSIS - BRUSHY CANYON  
PRODUCED WATER

POGO PRODUCING COMPANY  
ARACANGA FEDERAL NO. 1  
Section 4, T-23S, R-32E  
Lea County, New Mexico

EXHIBIT I

16010 Barker's Point Lane • Houston, Texas 77079  
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF  
Artesia, New Mexico 88210  
(505) 746-3588 Phone  
(505) 746-3580 Fax

WATER ANALYSIS REPORT  
-----

Company	: POGO PRODUCING	Date	: 01/08/93
Address	: MIDLAND, TEXAS	Date Sampled	: 01/04/93
Lease	: RED TANK FED. 28	Analysis No.	: 005
Well	: #1 <i>Brushy Canyon (Del)</i>		
Sample Pt.	: WELLHEAD		

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.2			
2. H <sub>2</sub> S	3 PPM			
3. Specific Gravity	1.160			
4. Total Dissolved Solids		279018.4		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO <sub>2</sub>		80 PPM		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )				
10. Methyl Orange Alkalinity (CaCO <sub>3</sub> )		60.0		
11. Bicarbonate	HCO <sub>3</sub>	73.2	HCO <sub>3</sub>	1.2
12. Chloride	Cl	170409.6	Cl	4807.0
13. sulfate	SO <sub>4</sub>	1000.0	SO <sub>4</sub>	20.8
14. Calcium	Ca	16881.7	Ca	842.4
15. Magnesium	Mg	1186.3	Mg	97.6
16. Sodium (calculated)	Na	89409.6	Na	3889.1
17. Iron	Fe	58.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO <sub>3</sub> )		47042.3		

PROBABLE MINERAL COMPOSITION  
-----

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	=	mg/L
-----	-----	-----	-----	-----	-----
842 *Ca <----- *HCO <sub>3</sub>	Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.0	1.2		97
----- /----->	CaSO <sub>4</sub>	68.1	20.8		1417
98 *Mg -----> *SO <sub>4</sub>	CaCl <sub>2</sub>	55.5	820.4		45523
----- <----- /	Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.2			
3889 *Na -----> *Cl	MgSO <sub>4</sub>	60.2			
-----	MgCl <sub>2</sub>	47.6	97.6		4646
Saturation Values Dist. Water 20 C	NaHCO <sub>3</sub>	84.0			
CaCO <sub>3</sub> 13 mg/L	Na <sub>2</sub> SO <sub>4</sub>	71.0			
CaSO <sub>4</sub> * 2H <sub>2</sub> O 2090 mg/L	NaCl	58.4	3889.1		227277
BaSO <sub>4</sub> 2.4 mg/L					

REMARKS:

----- L. MALLET / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
ROZANNE JOHNSON

ANALYSIS - UP. BONE SPRING  
PRODUCED WATERPOGO PRODUCING COMPANY  
ARACANGA FEDERAL NO. 1  
Section 4, T-23S, R-32E  
Lea County, New MexicoWATER ANALYSIS REPORT  
-----Lease : RED TANK FED.  
Well : 23-1 Bone Spring  
Sample Pt. : WELLDate : 1-23-93  
Date Sampled : 1-22-93  
Analysis No. : 006

ANALYSIS		mg/L		* meq/L	
-----		----		-----	
1.	pH	5.9			
2.	H <sub>2</sub> S	0			
3.	Specific Gravity	1.155			
4.	Total Dissolved Solids		243572.9		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO <sub>2</sub>		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO <sub>3</sub> )				
10.	Methyl Orange Alkalinity (CaCO <sub>3</sub> )				
11.	Bicarbonate	HCO <sub>3</sub>	48.8	HCO <sub>3</sub>	0.8
12.	Chloride	Cl	151230.0	Cl	4266.0
13.	Sulfate	SO <sub>4</sub>	250.0	SO <sub>4</sub>	5.2
14.	Calcium	Ca	16840.0	Ca	840.3
15.	Magnesium	Mg	4140.2	Mg	340.6
16.	Sodium (calculated)	Na	71063.9	Na	3091.1
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO <sub>3</sub> )		59100.0		

PROBABLE MINERAL COMPOSITION  
-----

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	=	mg/L
+-----+				-----				
840	*Ca <-----	*HCO <sub>3</sub>	1	Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.0	0.8		65
-----	/----->		-----	CaSO <sub>4</sub>	68.1	5.2		354
341	*Mg ----->	*SO <sub>4</sub>	5	CaCl <sub>2</sub>	55.5	834.3		46296
-----	<-----/		-----	Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.2			
3091	*Na ----->	*Cl	4266	MgSO <sub>4</sub>	60.2			
+-----+			+-----+	MgCl <sub>2</sub>	47.6	340.6		16215
Saturation Values Dist. Water 20 C				NaHCO <sub>3</sub>	84.0			
CaCO <sub>3</sub>		13 mg/L		Na <sub>2</sub> SO <sub>4</sub>	71.0			
CaSO <sub>4</sub> * 2H <sub>2</sub> O		2090 mg/L		NaCl	58.4	3091.1		180643
BaSO <sub>4</sub>		2.4 mg/L						

REMARKS: L. MALLET -FILE  
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Petrolite Oilfield Chemicals Group

Respectfully submitted,  
L. MALLET

FORM C-108, ITEM VII(5)

 ANALYSIS - INJECTION ZONE  
WATER

 POGO PRODUCING COMPANY  
ARACANGA FEDERAL NO. 1  
Section 4, T-23S, R-32E  
Lea County, New Mexico

**EXHIBIT III**

Name: Corbin Delaware

 Location: NE  $\frac{1}{4}$  Sec. 31, T.17 S., R.33 E.

County &amp; State: Lea Co., N. Mex.

COMPLETION DATE: March 31, 1960

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD: No cores taken

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil

OTHER SHOWS ENCOUNTERED IN THIS FIELD: None

TRAP TYPE: Stratigraphic, sand pinchout

NATURE OF OIL: 37.8° gravity, sweet

NATURE OF GAS: sweet

NATURE OF PRODUCING ZONE WATER: Salt

Resistivity:

ohm-meters @

°F.

	Total Solids	Na+K	Ca	Mg	Fe	SO <sub>4</sub>	Cl	CO <sub>3</sub>	HCO <sub>3</sub>	OH	H <sub>2</sub> S
ppm		47,700	6160	2060	100	1500	89,400		160		neg

INITIAL FIELD PRESSURE: Unknown

TYPE OF DRIVE: Unknown

NORMAL COMPLETION PRACTICES: Set through, perforate &amp; sand frac.

**PRODUCTION DATA:**

Year	Type	No. of wells @ yr. end		Production Oil in barrels Gas in MMCF	
		Producing	Shut in or Abnd.	Annual	Cumulative
1956	oil				
	gas				
1957	oil				
	gas				
1958	oil				
	gas				
1959	oil				
	gas				
1960*	oil	0	1 **	631.5	631.5
	gas				

\* 1960 Figure is production to July 1, 1960.

\*\* well shut in on April 19, 1960.

FORM C-108, ITEM XI

ANALYSIS - FRESH WATER

POGO PRODUCING COMPANY  
ARACANGA FEDERAL NO. 1  
Section 4, T-23S, R-32E  
Lea County, New Mexico

EXHIBIT IV

Chemical and radiochemical analyses of water from test hole H-5

Water produced from the Santa Rosa Sandstone, sample taken 5/24/78

Alkalinity Field (mg/l as HCO <sub>3</sub> )	200
Bicarbonate FET-FLD (mg/l as HCO <sub>3</sub> )	240
Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> Dissolved (mg/l as N)	0.36
Hardness (mg/l as CaCO <sub>3</sub> )	150
Hardness, noncarbonate(mg/l as CaCO <sub>3</sub> )	150
Calcium Dissolved (mg/l as Ca)	56
Magnesium, Dissolved (mg/l as MG)	51
Sodium, Dissolved (mg/l as Na)	280
Potassium, Dissolved (mg/l as K)	25
Chloride, Dissolved (mg/s as CL)	120
Sulfate, Dissolved (mg/l as SO <sub>4</sub> )	530
Fluoride, Dissolved (mg/l as F)	1.2
Silica, Dissolved (mg/l as SiO <sub>2</sub> )	11.0
Boron, Dissolved (ug/l as B)	890
Solids Residue at 105 Deg C, Dissolved (mg/l)	1200



# Affidavit of Publication

STATE OF NEW MEXICO                    )  
   ) ss.  
COUNTY OF LEA                         )

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

## Application For Authorization To Inject Saltwater

was published in a regular and entire issue of **THE LOV-  
INGTON DAILY LEADER** and not in any supplement there-  
of, for one (1) day, beginning with the issue of  
August 30, 2000 and ending with the issue  
of August 30, 2000.

And that the cost of publishing said notice is the sum of  
\$ 21.48 which sum has been (Paid) as  
Court Costs.

LEGAL NOTICE  
PUBLIC NOTICE  
APPLICATION FOR  
AUTHORIZATION  
TO INJECT SALTWATER  
POGO PRODUCING  
COMPANY, P.O. Box  
10340, Midland, Texas  
79702 (Contact Richard  
L. Wright at 815/685-  
8100) has applied to the  
New Mexico Oil  
Conservation Division for  
Administrative Approval  
for Authorization to Inject  
saltwater into its

**Aracanga-Federal No. 1** well, located 330' FSL & 2310' FEL of Section 4, T-23-S, R-32-E, U.S.M., Lea County, New Mexico. The purpose of such well will be to dispose of salt-water produced from Pogo's nearby wells. The injection interval will be in the Delaware Formation between 4884' and 5886' beneath the surface, with an expected maximum injection rate of 3000 BWPD with an expected

maximum injection pressure of 975 psi.

Any interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within fifteen (15) days from the date of Pogo's Application.

Published in the Lovington Daily Leader August 30, 2000.

Joyce Clemens

Subscribed and sworn to before me this 30th day of August 2000.

Debbie Schilling

Notary Public, Lea County, New Mexico

My Commission Expires June 22, 2002

**BILL F. HALEPESKA**

**PETROLEUM ENGINEER**

**Texas #58052  
P. O. Box 80064**

**GEOLOGIST**

**Cert #2941  
Midland, Texas 79708**

**VIA FAX AND MAIL**

August 25, 2000

The Lovington Daily Leader  
P. O. Box 1717  
Lovington, New Mexico 88260  
Att: Ms. Debbie Schilling

RE: Red Tank West Project, U.S. 98191  
Lea County, New Mexico  
Legal Notice of Application for Authorization  
to Inject into Aracanga Federal No. 1

Dear Ms. Schilling:

Please find attached a copy of Legal Notification which Pogo Producing Company requests be published in your newspaper **as soon as possible**.

Please provide the undersigned with proof of publication, which should include a copy of the legal advertisement, **returning same by overnight mail**, billing Pogo's Federal Express Account No. 1008-9250-2.

If you have any questions, please contact the undersigned.

Sincerely,



Bill F. Halepeska, P.E.

3400 Humble Ave.  
Midland, Tx. 79707

## **PUBLIC NOTICE**

### **APPLICATION FOR AUTHORIZATION TO INJECT SALTWATER**

**POGO PRODUCING COMPANY**, P. O. Box 10340, Midland, Texas 79702 (Contact - Richard L. Wright at 915/685-8100) has applied to the New Mexico Oil Conservation Division for Administrative Approval for Authorization to inject saltwater into its Aracanga Federal No. 1 well, located 330' FSL & 2310' FEL of Section 4, T-23-S, R-32-E, U.S.M., Lea County, New Mexico. The purpose of such well will be to dispose of saltwater produced from Pogo's nearby wells. The injection interval will be in the Delaware Formation between 4884' and 5886' beneath the surface, with an expected maximum injection rate of 3000 BWPD with an expected maximum injection pressure of 975 psi.

Any interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088 within fifteen (15) days from the date of Pogo's Application.

**BILL F. HALEPESKA**

**PETROLEUM ENGINEER**  
**Texas #58052**

**GEOLOGIST**  
**Cert #2941**

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

August 29, 2000

To: Offset Leasehold Operators and  
Surface Owner  
(See Attached List)

Re: Red Tank West Prospect U.S. 98191  
Lea County, New Mexico  
Application for Administrative  
Approval to Inject Saltwater into  
the Aracanga Federal No. 1 Well  
Located 330' FSL & 2310' FEL  
Section 4, T- 23-S, R-32-E, U.S.M.

Gentlemen:


Pogo Producing Company has applied to the New Mexico Oil Conservation Division for Administrative Approval to inject saltwater into the captioned well.

A copy of the Form C-108 submitted by Pogo to the Division is enclosed.

If you object to and/or wish to request that a hearing be held pertaining to this application, you must notify the Division within fifteen (15) days from the date of Pogo's Application.

If you have any questions, please contact the undersigned or Mr. Richard L. Wright.

Very truly yours,

  
Bill F. Halepeska, P.E.

Enclosure(s)

**P. O. Box 80064**  
**Midland, Texas 79708**

**915/694-5945**

**FORM C-108**

Attached to Notification Letter dated August 29, 2000, regarding Pogo's Application for Administrative Approval to Inject Saltwater into the Aracanga Federal No. 1 Well

Concho Resources  
110 W. Louisiana, Ste. 410  
Midland, Texas 79701  
Attention: Mr. Mike Gray

Strata Production  
P. O. Box 1030  
Roswell, New Mexico 88202  
Attention: Ms. Joe McInerney

United States Department of Interior  
Bureau of Land Management  
Roswell Resource Area Office  
2909 W. 2nd  
Roswell, New Mexico 88201-1287  
Attention: Mr. David Glass

FORM C-108

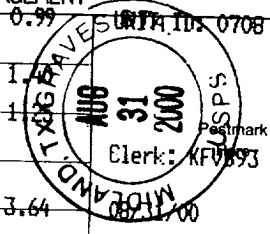
PROOF OF MAILING

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
 (Domestic Mail Only: No Insurance Coverage Provided)

Article Sent To:

ROSWELL, NM 88201  
 BUREAU OF LAND MANAGEMENT

Postage	\$	0.99
Certified Fee	\$	1.00
Return Receipt Fee (Endorsement Required)	\$	1.00
Restricted Delivery Fee (Endorsement Required)	\$	3.64
<b>Total Postage &amp; Fees</b>	<b>\$</b>	



Name (Please Print Clearly) (To be completed by mailer)

U. S. DEPT. OF INTERIOR/BLM

Street, Apt. No., or PO Box No.

2909 W. 2nd STREET

City, State, ZIP+ 4

ROSWELL, NM 88201-1287

PS Form 3800, July 1999

See Reverse for Instructions

SENDER: COM

PLACE STICKER AT TOP OF ENVELOPE  
 TO THE RIGHT OF RETURN ADDRESS.

ON DELIVERY

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

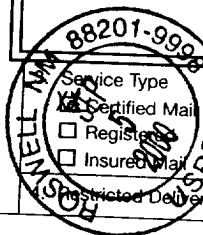
STRATA PRODUCTION  
 P. O. BOX 1030  
 ROSWELL, NM 88202

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

X *Kelly M. Bort* ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No



Service Type  
☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.  
 Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Copy from service label)

7099 3220 0005 5196-1139

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789

SENDER: COM

PLACE STICKER AT TOP OF ENVELOPE  
 TO THE RIGHT OF RETURN ADDRESS.

ON DELIVERY

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONCHO RESOURCES  
 110 W. LOUISIANA, STE. 410  
 MIDLAND, TX 79701

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

X *F. J. Jete* ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type  
☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Copy from service label)

7099 3220 0005 5196 1122

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789