12·1·93

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: Pogo Producing Co. Well: Proximity "31" Federal No. 4

Contact: Richard C. Wright Title: Eng.? Phone: 915·682·6822

DATE IN 11·23·93 RELEASE DATE 12·7·93 DATE OUT _____

Proposed Injection Application is for: ___ WATERFLOOD ___ Expansion ___ Initial

Original Order: R- _____ ___ Secondary Recovery ___ Pressure Maintenance

SENSITIVE AREAS X SALT WATER DISPOSAL

___WIPP ___ Capitan Reef ___ Commercial Operation

Data is complete for proposed well(s)? ___ Additional Data _____

AREA of REVIEW WELLS

0 Total # of AOR N/A # of Plugged Wells

N/A Tabulation Complete N/A Schematics of P & A's

N/A Cement Tops Adequate ___ AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) Bell & Cherry Canyons

Source of Water Lower Delaware & Bone Spring Compatible YES

PROOF OF NOTICE

YES Copy of Legal Notice YES Information Printed Correctly

YES Correct Operators ___ Copies of Certified Mail Receipts

___ Objection Received ___ Set to Hearing _____ Date

NOTES: _____

_____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL ___

COMMUNICATION WITH CONTACT PERSON:

1st Contact: X Telephoned ___ Letter 12·17·93 Date Nature of Discussion OUT OF OFFICE - NEED CERT. MAIL RCPT COPIES.

2nd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

3rd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

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: 915/682-6822

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.).

III. Attach appropriate geological 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.

III. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

(IV. 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 Halepeska Date: 09/17/93

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.

III. WELL DATA

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 footage 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.

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.

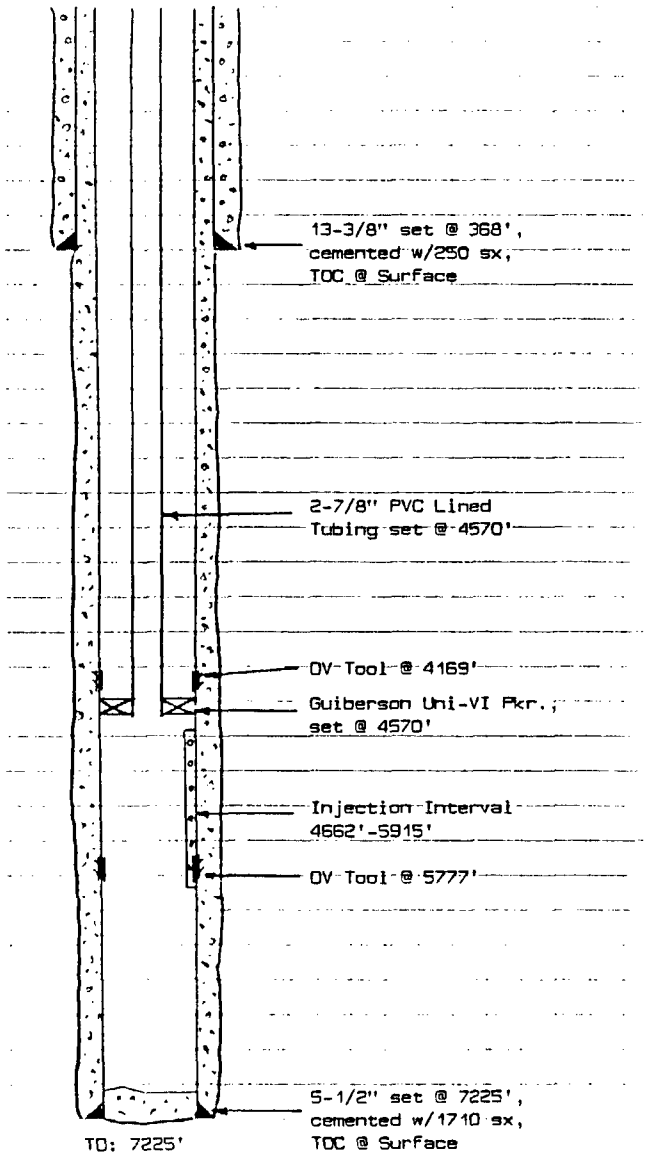
Pogo Producing Company

FORM C-108

ITEM III-A

INJECTION WELL DATA SHEET

SCHEMATIC



TABULAR DATA

(1). LEASE: Proximity 31 Federal WELL # 4

LOCATION: Sec. 31 TWP 22-S Range 32-E

County Lea

Footage 660' FNL & 2085' FEL

(2). CASING STRINGS:

Surface Casing

Size 8-5/8" Depth 368' Cemented w/ 250 sx.

TOC Surf. Determined by Circulated

Hole size 12-1/4"

Intermediate Casing

Size _____ Depth _____ Cemented w/ _____ sx.

TOC _____ Determined by _____

Hole size _____

Long String

Size 5-1/2" Depth 7225' Cemented w/ 1710 sx.

TOC Surf. Determined by Circulated 300 sx

Hole size 7-7/8"

Injection interval, from 4662' to 5915' ft.

(3). INJECTION TUBING STRING:

Size 2-7/8 in., ~~coated~~/lined with PVC

Setting depth 4570 ft.

(4) INJECTION PACKER:

Size 5-1/2 in.; Make/Model Guiberson Uni-VI

Setting depth 4570 ft.

FORM C-108

Pogo Producing Company

ITEM III-B

INJECTION WELL DATA

(1). Injection formation: Bell Canyon and Up. Cherry Canyon

Field/Pool: South East Livingston Ridge Delaware

(2). Injection interval, from 4662 ft. to 5915 ft.

Perforated XX Open Hole _____

(3). Original purpose well drilled -- Test Lower Delaware

(4). Other perforated intervals; _____ Yes XX No

Squeezed with _____ sx., or isolated by _____

_____

(5). Oil or gas productive zone(s):

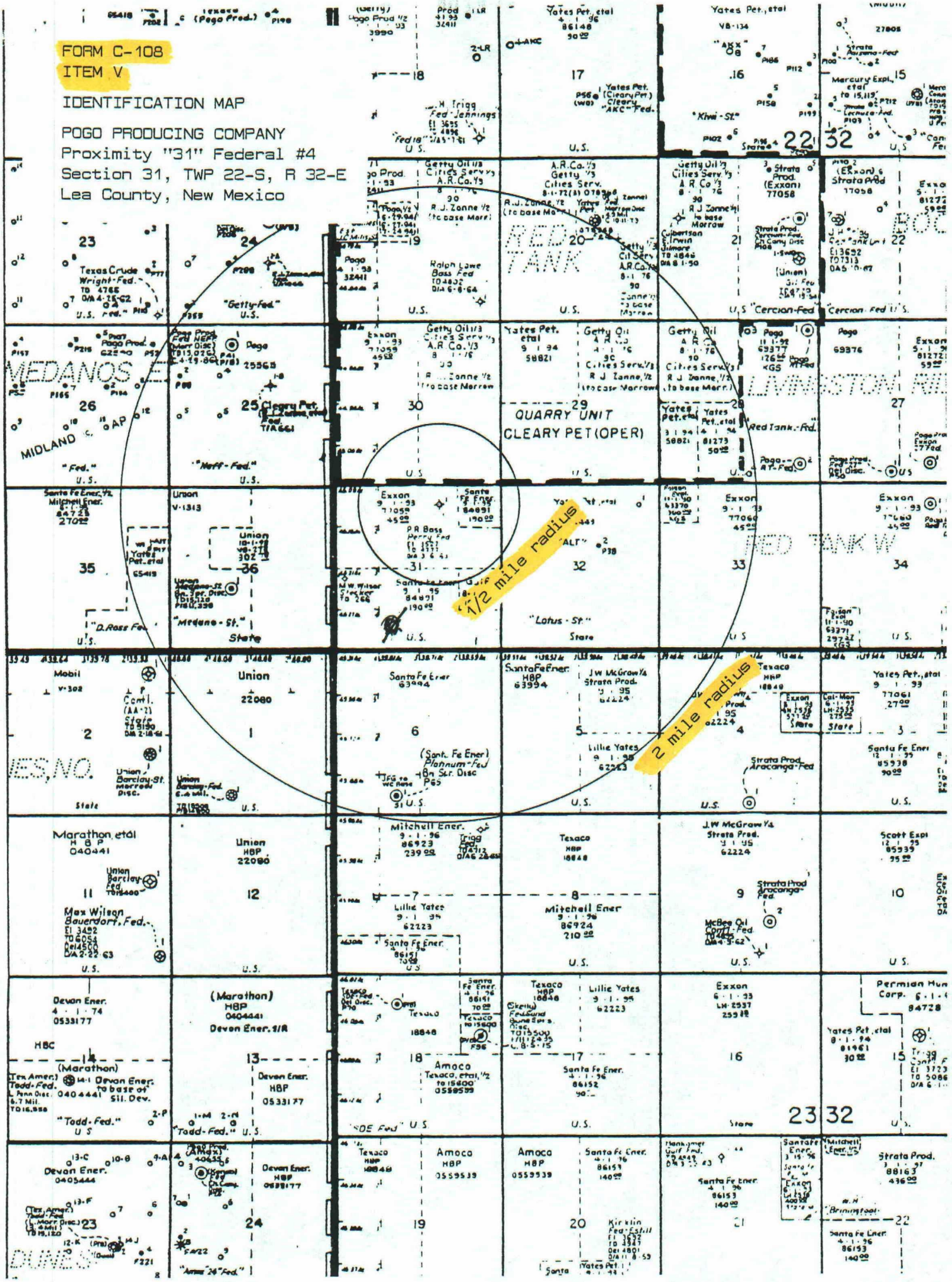
Next higher: None

Next lower: Lower Delaware (Brushy Canyon) @ +/- 7000'

FORM C-108
ITEM V

IDENTIFICATION MAP

POGO PRODUCING COMPANY
Proximity "31" Federal #4
Section 31, TWP 22-S, R 32-E
Lea County, New Mexico



FORM C-108

Pogo Producing Company

ITEM VI

WELL DATA - AREA OF REVIEW

(1). Location: NONE WITHIN 1/2 MILE RADIUS

Operator: _____ Lease: _____ Well # ____

Well type: Oil _____ Gas _____ D&A _____ Total depth _____ ft.

Date drilled: _____

Completion Data: _____

_____

_____

_____

Plugged _____ Date: _____ (Schematic attached)

(2). Location: _____

Operator: _____ Lease: _____ Well # ____

Well Type: Oil ____ Gas ____ D&A _____ Total Depth: _____ ft.

Date Drilled: _____

Completion Data: _____

_____

_____

Plugged _____ Date _____ (Schematic attached)

(3). Location: _____

Operator: _____ Lease: _____ Well # ____

Well Type ; Oil _____ Gas _____ D&A _____ Total Depth: _____ ft.

Date Drilled: _____

Completion Data: _____

_____

_____

_____

_____

Plugged _____ Date _____ (Schematic attached)

FORM C-108

ITEM VII

OPERATIONAL DATA

(1). Average expected injection rate: 1000 BWPD; maximum anticipated rate: 3000 BWPD

(2). Closed system

(3). Estimated average injection pressure: 650 psi.
Estimated maximum pressure: 932 psi.

(4). Source of injection water: From Lower Delaware and Bone Spring zones in nearby POGO wells

Analysis of waters attached. Exhibits 1 and 2

(5). Analysis of injection zone water attached. Exhibit 3
Data source: Corbin Delaware; 31-17-33, from Roswell Geological Society Symposium

FORM C-108

Pogo Producing Company

ITEM VIII

GEOLOGICAL DATA

INJECTION ZONE

Lithological description: sandstone, lt. gray, fine to v fine grained, poorly consolidated, silty, poor calc cem

Geological name: Bell Canyon (Delaware) and Up. Cherry Canyon

Zone thickness: 1250 ft.; Depth: 5660 ft.

FRESH WATER SOURCES

Geological name: Santa Rosa

Depth to bottom of zone: +/-650 ft.

ITEM IX

STIMULATION PROGRAM (Proposed)

ACIDIZE:

Volume: 3000 gal Type acid: 15% HCl/Pentol 100

Rate: 5 BPM; Misc. Ball Sealers

FRACTURE:

Fluid volume: 30,000 gal.; Type: Gelled Water

Prop type: 20/40 sand Volume (#): 15,000

Rate: 18 BPM; Conductor: 2-7/8 in.

Misc. Stage w/ Ball Sealers

FORM C-108

Pogo Producing Company

ITEM X

LOGGING PROGRAM

Logging program included: CND/DLL/MLL/GR/C

Copy of CND log included in attachments

ITEM XI

FRESH WATER ANALYSIS

Fresh water well within 1 mile radius; _____ Yes XX No

Chemical analysis from well(s) located: Sec. 14/22/31

Date sampled: 5/24/78 Exhibit 4

Chemical analysis from well(s) 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 (Bell Canyon) at 4662' and possible fresh water zone above 650'.

ITEM XIII

COMMERCIAL INTENTION

Initially, only water from Pogo operated wells will be disposed of in subject well (system). Eventually, Pogo could 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)

EXHIBIT I

ANALYSIS - BRUSHY CANYON
PRODUCED WATER

POGO PRODUCING COMPANY
Proximity "31" Federal #4
Section 31, TWP 22-S, R 32-E
Lea County, New Mexico

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

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

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TEXAS
Lease : RED TANK FED. 28
Well : #1 Brushy Canyon (Def.)
Sample Pt. : WELLHEAD

Date : 01/08/93
Date Sampled : 01/04/93
Analysis No. : 005

	ANALYSIS		mg/L		* meq/L
1.	pH	6.2			
2.	H2S	3 PPM			
3.	Specific Gravity	1.160			
4.	Total Dissolved Solids		279018.4		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		80 PPM		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)		60.0		
11.	Bicarbonate	HCO3	73.2	HCO3	1.2
12.	Chloride	Cl	170409.6	Cl	4807.0
13.	Sulfate	SO4	1000.0	SO4	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 (CaCO3)		47042.3		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

842	*Ca <----- *HCO3	1
	/------->	
98	*Mg -----> *SO4	21
	<----------/	
3889	*Na -----> *Cl	4807

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	1.2	97
CaSO4	68.1	20.8	1417
CaCl2	55.5	820.4	45523
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	97.6	4646
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3889.1	227277

REMARKS:
-------- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

FORM C-108
ITEM VII(4)

EXHIBIT 2

ANALYSIS - BONE SPRING
PRODUCED WATER

POGO PRODUCING COMPANY
Proximity "31" Federal #4
Section 31, TWP 22-S, R 32-E
Lea County, New Mexico

WATER ANALYSIS REPORT

Date : 1-23-93
Date Sampled : 1-22-93
Analysis No. : 006

Lease : RED TANK FED.
Well : 23-1 Bone Spring
Sample Pt. : WELL

	ANALYSIS		mg/L		* meq/L
1.	pH	5.9			
2.	H2S	0			
3.	Specific Gravity	1.155			
4.	Total Dissolved Solids		243572.9		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	48.8	HCO3	0.8
12.	Chloride	Cl	151230.0	Cl	4266.0
13.	Sulfate	SO4	250.0	SO4	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 (CaCO3)		59100.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

840	*Ca <----- *HCO3	1
	/------->	
341	*Mg -----> *SO4	5
	<----------/	
3091	*Na -----> *Cl	4266

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	0.8	65
CaSO4	68.1	5.2	354
CaCl2	55.5	834.3	46296
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	340.6	16215
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3091.1	180643

REMARKS: L. MALLETT -FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
L. MALLETT

FORM C-108
ITEM VII(5)

ANALYSIS - INJECTION ZONE
PRODUCED WATER

POGO PRODUCING COMPANY
Proximity "31" Federal #4
Section 31, TWP 22-S, R 32-E
Lea County, New Mexico

EXHIBIT 3

d Name: Corbin Delaware
Location: NE¼ Sec. 31, T.17 S., R.33 E.
County & 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_4	Cl	CO_3	HCO_3	OH	H_2S
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 & sand frac.

PRODUCTION DATA:

Year	Type	No. of wells @ yr. end: Producing	No. of wells @ yr. end: Shut in or Abnd.	Production Oil in barrels Gas in MMCF: Annual	Production Oil in barrels Gas in MMCF: 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 - SANTA ROSA WATER

POGO PRODUCING COMPANY
Proximity "31" Federal #4
Section 31, TWP 22-S, R 32-E
Lea County, New Mexico

EXHIBIT 4

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 HCO3)	200
Bicarbonate FET-FLD (mg/l as HCO3)	240
Nitrogen, NO2 + NO3 Dissolved (mg/l as N)	0.36
Hardness (mg/l as CACO3)	150
Hardness, noncarbonate(mg/l as CACO3)	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 SO4)	530
Fluoride, Dissolved (mg/l as F)	1.2
Silica, Dissolved (mg/l as SIO2)	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 he is **Adv. 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

Public Notice

and numbered ..... in the

..... of the

..... Court, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~and on each~~ same day of the week, for **one (1) day** ~~consecutive weeks~~, beginning with the issue of

October 27, 19**93**

and ending with the issue of

October 27, 19**93**

And that the cost of publishing said notice is the sum of $**16.43**

which sum has been (Paid) ~~(Assessed)~~ as Court Costs

Joyce Clemens

Subscribed and sworn to before me this **17th** day of **November**, 19**93**

Mrs. Jean Denier
Notary Public, Lea County, New Mexico

My Commission Expires **Sept. 28**, 19**94**

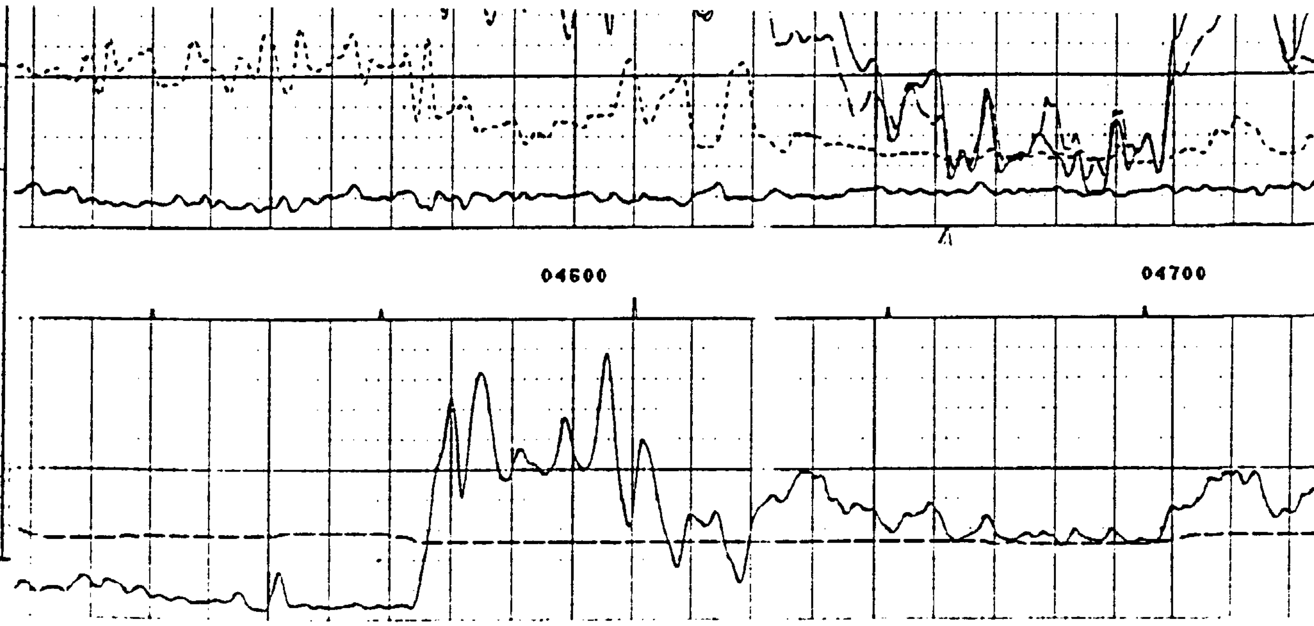
LEGAL NOTICE
PUBLIC NOTICE
APPLICATION FOR AUTHORIZATION TO INJECT SALTWATER

Pogo Producing Company, P.O. Box 10340, Midland, Texas 79702, (915/682-6822) Contact: Richard L. Wright at 915/682-6822 has applied to the New Mexico Oil Conservation Division for Administrative Approval for Authorization to Inject saltwater into its Proximity "31" Federal No. 4 Well, located 660' FNL and 2085' FEL of Section 31, T-22-S, R-32-E, N.M.P.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 Bell Canyon and Upper Cherry Canyon formations between 4,662'-5,915' beneath the surface, with an expected maximum injection rate of approximately 3,000 BOWPD with an expected maximum injection pressure of approximately 932 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 87504-1088 within fifteen (15) days from the date of Pogo's Application.
Published in the Lovington Daily Leader October 27, 1993.

MEASURED FROM KELLY BUSHING 12.5 FT ABOVE PERMANENT DATUM | KB 3539.5' DF 3538.5' GL 3527.0'

... MEAS. FROM KELLY BUSHING

[illegible]	04 SEPTEMBER 1995	
[illegible]	1	
SERVICE ORDER	121881	
DEPTH DRILLER	7225'	
DEPTH LOGGER	7216'	
BOTTOM LOGGED INTERVAL	7214'	
TOP LOGGED INTERVAL	SURFACE	
CASING DRILLER	8 5/8" @360'	@
CASING LOGGER	380'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	XC	
DENSITY / VISCOSITY	10.5 | 42	
PH / FLUID LOSS	7.5 | 7	
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP	0.041 @80 DEG F	@
RMF AT MEAS. TEMP	0.041 @80 DEG F	@
RMC AT MEAS. TEMP	@ --	@
SOURCE OF RMF / RMC	MEASURED | --	
RM AT BHT	0.028 @117 DEG F	@
TIME SINCE CIRCULATION	3 HOURS	
MAX. REC. TEMP. DEG F	117 DEG F	
EQUIP. NO. / LOCATION	HL 6419 | MIDLAND, TX	
RECORDED BY	CARLOS CRUZ JR.	
WITNESSED BY	GARLAND LAMP	



ILLEGIBLE

POGO PRODUCING COMPANY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 25, 1993

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

Re: S.E. Red Tank Prospect NM-607
Lea County, New Mexico
Application for Administrative
Approval to Inject Saltwater
into the Proximity "31" Federal
No. 4 Well, located 660' FNL &
2085' FEL Section 31, T-22-S, R-32-E

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 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,

POGO PRODUCING COMPANY

Terry Gant
Senior Landman

TG:lf/c:SWD131

Enclosure

cc: New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088
Attention: Mr. David R. Catanach

500 WEST ILLINOIS, SUITE 600 • POST OFFICE BOX 10340 • MIDLAND, TEXAS 79702-7340 • 915/682-6822 • FAX 915/682-9139

Attached to Notification Letter dated October 25, 1993
regarding Pogo's Application for Administrative Approval
to Inject Saltwater into the Proximity "31" Federal No. 4 Well

Bureau of Land Management
P. O. Box 1449
Santa Fe, New Mexico 87504

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Attention: Mr. Randy G. Patterson

Samson Resources Company
Two West Second Street
Samson Plaza
Tulsa, Oklahoma 74103
Attention: Mr. David Hoffman

Santa Fe Energy Operating Partners, L.P.
550 West Texas, Suite 1330
Midland, Texas 79701
Attention: Mr. Gary V. Green

POGO PRODUCING COMPANY

OVERNIGHT MAIL

November 22, 1993

New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504
Attention: Mr. David R. Catanach

Re: S.E. Red Tank Prospect NM-607
Lea County, New Mexico
Application for Administrative
Approval to Inject Saltwater
into the Proximity "31" Federal #4 Well
located 660' FNL & 2085' FEL
Section 31, T-22-S, R-32-E, N.M.P.M.

Gentlemen:

Pogo hereby 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.

Pursuant thereto, please find enclosed the following:

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

(2) Proof of Legal Publication.

If you should have any questions regarding the subject Application, please contact the undersigned.

Very truly yours,

POGO PRODUCING COMPANY

Terry Gant
Senior Landman

TG:lf/c:SWD221
Enclosures

cc w/encl.: New Mexico Oil Conservation Division
District I Office
P. O. Box 1980
Hobbs, New Mexico 88240

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

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BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

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

RE: Proposed:
MC_____
DHC_____
NSL_____
NSP_____
SWD X
WFX_____
PMX_____

Gentlemen:

I have examined the application for the:

Pogo Producing Co Proximity 31 Federal #4-B 31-22-32
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed