

OVERNIGHT MAIL

May 18, 1993

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

> Re: Sand Dunes Prospect NM-555 Eddy County, New Mexico

Application for Administrative
Approval to Inject Saltwater
into the Federal "44" No. 1 Well,

located 660' FSL & 660' FEL

Section 34, T-23-S, R-31-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

Consulting Landman

TG:lf/c:SWD22

Enclosures

cc w/encl.: New Mexico Oil Conservation Division

District I Office P. O. Box 1157

Hobbs, New Mexico 88240



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 6, 1993

To: Offset Leasehold Operators and

Surface Owner

(See Attached List)

Re: Sand Dunes Prospect NM-555

Eddy County, New Mexico

Application for Administrative Approval to Inject Saltwater into the Federal "44" No. 1 Well

located 660' FSL & 660' FEL Section 34, T-23-S, R-31-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

Consulting Landman

TG:lf/c:SWD19a

Enclosure

cc: New Mexico Oil Conservation Division

P. O. Box 2088

Santa Fe, New Mexico 87504-2088 Attention: Mr. David R. Catanach Attached to Notification Letter dated May 6, 1993 regarding Pogo's Application for Administrative Approval to Inject Saltwater into the Federal "44" No. 1 Well

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

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

Texaco, Inc.
P. O. Box 3109
Midland, Texas 79702
Attention: Mike R. Mullins

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

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8. Signature (Agent) / Fuderal 44#/

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

E. C. Cantwell, being first duly sworn, on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

<u>May 11.</u>	, 19 <u>93</u>
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	, 19
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that the cost of publication is \$ 24.50, and that payment thereof has been made and will be assessed as court costs.

E C Cantwell

Subscribed and sworn to before me this

__11_ day of __May____

My commission expires _6/01/96

Notary Public

May 11, 1993

PUBLIC NOTICE

APPLICATION FOR AUTHORIZATION TO INJECT SALTWATER

Pogo Producing Company, P.O. Box 10340, Midland, Texas 79702-7340 (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 Federal "44" No. 1 Well, located 660" FSL and 660' FEL of Section 34, T-23-S, R-31-E, N.M.P.M., Eddy 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 forma-tions between 4,420'-5,748' beneath the surface, with an expected maximum injection rate of approximately 3,000 BOWPD with an expected maximum injection pressure of approximately 880 psi. Any interested parties must file objections or requests for a hear ing 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.

of the earlier submittal.

OIL CONSERVATION DIVISION POST OFFICE SOX JOHS STATE LAND OFFICE MULCING SANTAPE, NEW MEXICO STAGE

APPL TOATT	AN FAR	AUTHORIZATION	TO	INJECT
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11.	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?
٧.	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 walls 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, data 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposel 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 geological data on the injection zone including appropriate lithological 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.
ıx.	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 svailable 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. Malepeska Title Agent (P.E.)
	Signature: Dele Valence Date: 5/5/93

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 cament used, hole size, top of cament, 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 poor 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 speks 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 wall, 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 lessehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be aubmitted. 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 acvertisement 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 walls or the section, township, and range location of multiple walls;
- (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 Dil 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 SUBHITTED.

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.

ITEM 111-A

INJECTION WELL DATA SHEET

TABULAR DATA	(1). LEASE: Federal "44" WELL # 1 LOCATION: Sec. 34 TWP 23-5 Range 31-E County Eddy	Footage 660 FSL & 660 FEL	(2). CASING STRINGS: Surface Casing	Size 8 5/8" Depth 558 Cemented w/ 350 sx. TOC surf. Determined by circulation	Hole size 12%"	Intermediate Casing	Size NA Depth Cemented w/ sx.	TOCDetermined by	Hole size	, Long String	Size 5½" Depth 5850' Cemented w/ 1400 sx.	TOC surf. Determined by circulation	Hole size 7 7/8"	Injection interval, from 4420 to 5748 ft.	(3). INJECTION TUBING STRING:	Size 2 7/8 in., coated/lined with PVC	Setting depth 4330 ft.	(4) INJECTION PACKER:	Size 5½ in.; Make/Model Guiberson Uni-VI	Setting depth <u>4330</u> ft.
SCHEMATIC					AN EVE		₩) 63 Κ'•₹**		real old " of t	tubing tubing			5/2 6016.		- 332		27. 20	6	sks Jeina DV t	

ITEM 111-8

INJECTION WELL DATA

	Injection formation: Bell Canyon and Up. Cherry Canyon (Delaware) Field/Pool: Sand Dunes
(2).	Injection interval, from 4420 ft. to 5748 ft. Perforated XX Open Hole
(3).	Original purpose well drilled Lower Delaware (Cherry Canyon) test
	Other perforated intervals;YesXX No Squeezed withNAsx., or isolated by
	Oil or gas productive zone(s): Next higher: None 63001
	Next lower: Cherry Canyon , 6300'

FORM C-108 ITEM V

IDENTIFICATION MAP

POGO PRODUCING COMPANY Federal "44" Well #1 Sec. 34, T 23-S, R 31-E Eddy County, New Mexico

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377 4	Allar Corp. elar	Bettie, I.A. Morganta, etal	Moreonto, etal	Monsanto, et al	Beths Bros,

ITEM V1

WELL DATA - AREA OF REVIEW

).	Location:	NA: No	wells or	dry holes w	ithin ½ mi. ra	adius	
	Operator: _	·· <u></u> -		Lease: _		Well	#
	Well type:	Oil_	Gas	DSA	Total de	pth	ft
	Date drill	ed:			·		
	Completion	Data: _			*		
		·					
							
	Plunnad		Nsta •	(=	chematic atta	ched)	

ITEM VII

OPERATIONAL DATA

(1).	Average expected injection rate: 1200 BWPO; maximum antici-
	pated rate: 3000 BWPD
(2).	Closed system
(3).	Estimated average injection pressure: 500 psi.
	Estimated maximum pressure: 880 psi.
(4).	Source of injection water: Produced water from nearby Pogo operated leases
	Analysis of waters attached. Exhibit I
(5).	Analysis of injection zone-water attached. Exhibit 2
	Data source: Corbin Delaware; 31-17-33
	Roswell Geological Society Symposium, 1965

GEOLOGICAL DATA

	NJECTION ZONE
	Lithological description: <u>sand, fine-very fine grained, unconsol</u> unconsol. friable, trs. lime and shale
	Geological name: <u>Bell Canyon and Up. Cherry Canyon (Delaware)</u> Zone thickness: 1350 ft.; Depth: <u>5750</u> ft. to base
	RESH WATER SOURCES
	Geological name: Rustler/Santa Rosa (Permian Ochoa)
	Depth to bottom of zone: 650 ft. or less
ITEM	X STIMULATION PROGRAM (Proposed)
	CIDIZE:
	Volume: 3000 gal. Type acid: 15% HCl w/Pentol 100
	Rate: 5 BPM; Misc. Ball Sealers for distribution
	RACTURE:
	Fluid volume: 30,000 gal.; Type: Gelled Water
	Prop type: 20/40 sd. Volume (#): 20,000
	Rate: $\frac{18}{8}$ 8PM; Conductor: $\frac{27/8}{8}$ in.
	Misc. Ball sealers for selectivity

FORM C-108

HUHM	U=108
ITEM	X <u>LOGGING PROGRAM</u> Logging program included:
	CND, DLL
	Copy of log included with attachments
ITEM	XI FRESH WATER ANALYSIS
	Fresh water well within 1 mile radius:YesXX No
	Chemical analysis from well(s) located: 23-S. 31-E.26.34411
	Date sampled: 4/1/92 Attached Exhibit 3
	Chemical analysis from well(s) located: 24-S. 31-E.04.433422
	Date sampled: 4/1/92 Attached Exhibit 3
ITEM	XII <u>HYDROLOGY</u>
	Engineering data and area well logs reveal no evidence that hydro
	logic connection might exist between the intended injection zone
	(Bell Canyon) at 4420' and probable fresh water zone above 650'
ITEM	XIII COMMERCIAL INTENT

Initially, only water from Pogo operated wells will be disposed of in subject system. Eventually, Pogo could take water from other leases in the area operated by someone else, but in which Pogo has a working interest. It is intended that all water will be piped to the system.

FORM C-108 ITEM VII(4)

ANALYSIS-INJECTION WATER

POGO PRODUCING COMPANY Federal "44" Well #1 Sec. 34, T-23-S, R 31-E Eddy County, New Mexico EXHIBIT 1

ory Services

Tasker Drive w Mexico 88240

RLUIFYES

SEP 2 1 1982

SHIPLAND

WATER ANALYSIS

COMPANY P	ogo Producing Co.
SAMPLE C	AL MON #7
SAMPLED BY F	olland Perry
DATE TAKEN 9/15	92
DEMARKS	
REMARKS	BRUSHY CANYON FORMATION (LOWER DELAWARE)
Sodium	50
Nitrate	22.44
Barium as Ba	0
Carbonate alkalinity	PPM 0
Bicarbonate alkilinity	PPM 82
pH At Lab	5.62
Specific Gravity @ 6) F1.160
Magnesium as Mg	24,418
<u>Total Hardness as C</u>	aCO3 42,100
Clorides as CL	145,436
Sulfate as SO4	475
Iron as Fe	45.5
Potassium	25.63
Hydrogen Sulfide	0
Resistivity Ohms	0.2288
Total Disolved Solids	
Carbonate as CO3	<u>G/L 7.45</u>
Calcium as CA	17,682
Results reported as	Parts Per Million Unless Stated.
Langelier Saturation	Index + 0.12

<u>Analysis By</u>	Rolland Perry
Date:	9/15/92

EXHIBIT 2

d Name: Corbin Delaware

FORM C-108 ITEM VII(5)

ANALYSIS - INJECTION ZONE WATER

POGO PRODUCING COMPANY Federal "44" Well #1 Sec. 34, T 23-S, R 31-E Eddy County, New Mexico

Locarion: NE 1 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	millide	il Cit		% Porasity		Liquid Sacuration	(% of some space)	
Horizantai	i	Verticas		1	Water		OII	
	1		1					

OTHER SHOWS ENCOUNTERED IN THIS FIELD:

None

TRAF TYPE: Stratigraphic, sand pinchout

NATURE OF OIL: 37.80 gravity, sweet NATURE OF GAS: sweet

NATURE OF	PRODUCING	ZONE WATER:	Salt			Resistivity	<u>:</u>		onm-meters_@)	•5.
	Torai Soilás	Na-X	Ca	Mg	Fe	1 50.	C ;	COs	HCO3	QH	HzS
mac		47,700	2700	2060	100	1500	189, 40	a	160		neg

INITIAL FIELD PRESSURE:

Unknown

TYPE OF DRIVE: Unknown

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

PRODUCTION DATA:

	1	No. of weil	s @ yr. end		Production			
Year Ty	-	Producing	Shue in		Gas in MM	C:		
	Type	Producing	or Abnd.	Аппчаі		Cumulative		
	ail i			1				
1956	303		1	1				
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1957	101		1	l				
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1953	305		1					
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1959	105		ı	1	!			
	ાાં :	n] ±exe	631.5	1	631.5		
1960°	462		;	1	I			

^{* 1960} Figure is production to July 1, 1960. ** well shut in on April 19, 1960.

FORM C-108 ITEM XI

ANALYSIS - FRESH WATER SUPPLY

POGO PRODUCING COMPANY Federal "44" Well #1 Sec. 34, T 23-S, R 31-E Eddy County, New Mexico



DF NEW MEXICO

ITE ENGINEER OFFICE

ROSWELL

1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

April 27, 1993

Bill Halepeska P. O. Box 11117 Midland, Texas 79702

Dear Sir:

Please find enclosed information and logs requested from this office. Below please find water quality data on wells which you requested:

USE	LOCATION	CLORIDES	CONDUCTIVITY	DATE
Irr. Irr.	23S.28.05.111444 23S.28.08.13111	731ppm 1001	6400 5400	04/09/53 07/17/53
III.	11 11 11 11	1400	6821	07/17/33
Irr.	238.28.10.333423	1001	5300	07/16/53
T#	11 11 11	1310 1570	7017 7837	05/14/81 08/23/85
Irr.	235.28.15.32111	2020	8960	05/27/81
Irr. Irr.	23S.28.15.32111A 23S.28.15.433131	1132 1079	7000 5900	04/19/53 07/16/53
Irr.	235.28.17.33333	89	1600	03/03/53
Stk.	235.31.26.32230	122	3455	12/19/79
Stk.	235.31.26.34411	150 134	240 3503	12/11/70 10/20/76
11	n n n	130	3383	02/06/85
11	17 18 89 99 17 18 89 89	124 230	3520 3690	07/16/87 04/01/92
Stk.	245.31.04.433422	246	3690	07/15/87
11	17 18 19 19	310	3780	04/01/92

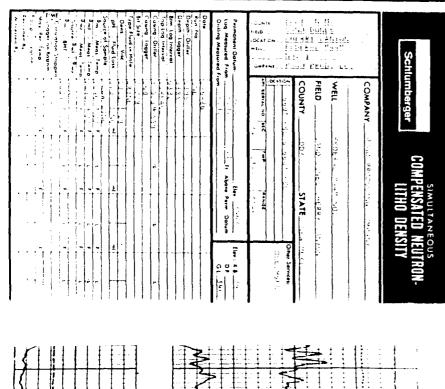
If you have any further questions, feel free to call this office.

lery truly yours

Ramon Torres

Water Resource Tech II

RT/lc encs.



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