CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS Operator: POGO PROPULING CO. Well: LOST TANK '33' FED NO.Z Contact: SCOTT MCDANIEC Title: SR. LANDMAN Phone: 915.685.8100 DATE IN 3.11.98 RELEASE DATE 3.26.98 DATE OUT 5.22.98 ___ WATERFLOOD ___ Expansion ___ Initial Proposed Injection Application is for: ___ Secondary Recovery ___ Pressure Maintenance Original Order: R- _____ × SALT WATER DISPOSAL ___ Commercial Well **SENSITIVE AREAS** Capitan Reef Data is complete for proposed well(s)?463 Additional Data Req'd _____ **AREA of REVIEW WELLS** 3 Total # of AOR ______# of Plugged Wells Schematics of P & A's 4/C Tabulation Complete AOR Repair Required ⟨¿₹≤ Cement Tops Adequate INJECTION FORMATION Injection Formation(s) <u>See Carron</u>/ Compatible Analysis 4/5 PROOF of NOTICE Information Printed Correctly Copy of Legal Notice Correct Operators Copies of Certified Mail Receipts ___ Set to Hearing ____ Date √o Objection Received NOTES: APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? 464 COMMUNICATION WITH CONTACT PERSON:

1st Contact:	Telephoned	Letter	Date	Nature of Discussion
2nd Contact:	Telephoned	Letter	Date	Nature of Discussion
3rd Contact:	Telephoned	Letter	Date	Nature of Discussion

OVERNIGHT MAIL

March 10, 1998

New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 Attention: Mr. David R. Catanach

> Re: Lost Tank Prospect NM-621 Eddy County, New Mexico

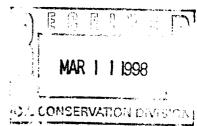
> > Application for Administrative Approval to Inject Saltwater into the Lost Tank "33" Federal No. 2 Well

located 330' FSL & 510' FWL

Section 33, T-21-S, R-31-E, N.M.P.M.



POGO PRODUCING COMPANY



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, enclosed are the following:

- (1) Copy of Notification Letter sent on this date to all Offset Leasehold Operators within a one-half (1/2) mile radius of the proposed injection well and to the surface owner of the land upon which such well is located, along with copies of proof of mailing (copy of Return Receipts will be forwarded to your attention when same are available); and
- (2) Copy of letter concerning publication of legal notice, which was sent to Carlsbad Current-Argus on this date (proof of legal publication will be forwarded to your attention when same is available).

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

Yours very truly,

POGO PRODUCING COMPANY

R. Scott McDaniel

c:\NMOCD.LTR Enclosures

cc: New Mexico Oil Conservation Division (w/enclosures)

District II Office P. O. Drawer DD

Artesia, New Mexico 88210 Attention: Mr. Tim Gum

300 NORTH MARIENFELD, SUITE 600 • POST OFFICE BOX 10340 • MIDLAND, TEXAS 79702-7340 • 915/ 685-8100 • FAX 915/ 685-8150



POGO PRODUCING COMPANY

CONSERVATION DIVISION

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 10, 1998

To: Offset Leasehold Operators and

Surface Owner (See Attached List)

Re:

Lost Tank Prospect NM-621

Eddy County, New Mexico

Application for Administrative Approval to Inject Saltwater into the Lost Tank "33" Federal No. 2 Well Located 330' FSL & 510' FWL Section 33, T-21-S, R-31-E, N.M.P.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 request that a hearing be held pertaining to this Application, you must notify the Division within fifteen (15) days from the date of this letter.

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

Yours very truly,

POGO PRODUCING COMPANY

R. Scott McDaniel Senior Landman

c:\nm621\leasehold operators.ltr Enclosure

300 NORTH MARIENFELD, SUITE 600

CC:

New Mexico Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 Attention: Mr. David R. Catanach

> 915/685-8100 FAX 915/685-8150

Attached to Notification Letter dated March 10, 1998 regarding Pogo's Application for Administrative Approval to Inject Saltwater into the Lost Tank "33" Federal No. 2 Well

Bureau of Land Management
P. O. Box 27115
Santa Fe, New Mexico 87502-0115

Penwell Energy, Inc. 600 N. Marienfeld, Suite 1100 Midland, Texas 79701 Attention: Mr. Mark Wheeler

Bass Enterprises Production Company 201 Main Street, Suite 2900 Ft. Worth, Texas 76102 Attention: Mr. Wayne Bailey Division Landman



VIA FAX (505-885-1066) / MAIL

March 10, 1998

Carlsbad Current-Argus 620 South Main Carlsbad, New Mexico 88220 Attention: Ms. Amy McKay

Re: Lost Tank Prospect NM-621

Eddy County, New Mexico
Legal Notice of Application
for Authorization to Inject
Lost Tank "33" Federal #2 Well

Ladies and Gentlemen:

Please find attached hereto a copy of Legal Notification which Pogo requests be advertised 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 our Federal Express Account Number 1008-9250-2.

If you have any questions, please contact the undersigned.

Yours very truly,

POGO PRODUCING COMPANY

R. Scott McDaniel Senior Landman

c:\nm621\carlsbad current-argus.ltr

Attachment

300 NORTH MARIENFELD, SUITE 600 • POST OFFICE BOX 10340 • MIDLAND, TEXAS 79702-7340 • 915/ 685-8100 • FAX 915/ 685-8150

Public Notice

Application for Authorization to Inject Saltwater

Pogo Producing Company, P. O. Box 10340, Midland, Texas 79702-7340 (Contact - Richard L. Wright at 915/685-8100) has applied to the New Mexico Oil Conservation Division for Administrative Approval for Authorization to inject saltwater into its Lost Tank "33" Federal No. 2 Well, located 330' FSL & 510' FWL of Section 33, T-21-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 Delaware (Bell Canyon and Upper Cherry Canyon) formation between 4,166'-5,160' beneath the surface, with an expected maximum injection rate of approximately 3,000 BWPD within an expected maximum injection pressure of approximately 830 psi. Any interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days from the date of this publication.

OVERNIGHT MAIL

March 10, 1998

New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Attention: Mr. David R. Catanach

11.11.26 (508)

POGO PRODUCING COMPANY

Re:

Lost Tank Prospect NM-621

Eddy County, New Mexico

Application for Administrative Approval to Inject Saltwater into the Lost Tank "33" Federal No. 2 Well

located 330' FSL & 510' FWL

Section 33, T-21-S, R-31-E, N.M.P.M.

Gentlemen:

By letter dated March 10, 1998, you were submitted two (2) original Applications for Authorization to Inject (Form C-108) and various other materials relative to the referenced well. Additionally, you were advised that Return Receipts for Notification Letters sent to offset leasehold operators and proof of legal publication relative to the aforesaid application would be forwarded to your attention when same were available.

With the above in mind, enclosed is a copy of each of the Return Receipts relative to the abovementioned Notification Letters, together with a copy of Affidavit of Publication concerning Pogo's application.

If you have any questions or need additional information regarding Pogo's application, please call.

Yours very truly,

POGO PRODUCING COMPANY

R. Scott McDani

c:\NMQCD.LTR Enclosures

cc: Ne

New Mexico Oil Conservation Division (w/enclosures)

District II Office
P. O. Drawer DD

Artesia, New Mexico 88210 Attention: Mr. Tim Gum

300 NORTH MARIENFELD, SUITE 600

POST OFFICE BOX 10340

MIDLAND, TEXAS 79702-7340

915/685-8100

FAX 915/685-8150

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write "Return Receipt Requested" on the mailpiece below the article. The Return Receipt will show to whom the article was delivered and delivered.	e does not e number.	1 also wish to receive the following services (for an extra fee): 1.
Ď	3. Article Addressed to:	4a. Article N	umber
N ADDRESS completed	Bureau of Land Management P.O. Box 27115 Santa Fe, NM 87205-0115	4b. Service Registere Express Return Rec	Mail Cortified Mail Insured Delipt for Merchandise COD
s your HEIUE	5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X	8. Addressee and fee is	a's Address (Only if requested paid)
Ξ,	PS Form 3811 , December 1994		Domestic Return Receipt

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ğ		Z 296 5	93 990
릞	Penwell Energy, Inc.	4b. Service	Type
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Ω Ω	Midland, Texas 79701	☐ Express	Mail Insured
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ᇘ	Attention: Mark Wheeler	7. Date of D	Delivery
3			3-11-98
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Affidavit of Publication

RECEIVED State of New Mexico. March 15, 1998 MAR 17 1998 County of Eddy, ss. **Public Notice** Amy McKay MIDLAND Application for Authorization to Inject Saltwater being first duly sworn, on oath says: Pogo Producing Company, P.O. Box 10340, Midland, Texas 79702-7340 (Contact Richard L. Wright at 915/685 That she is Business Manager of the Carlsbad Current-Argus, a newspaper pub-8100) has applied to the New lished daily at the City of Carlsbad, in said county Mexico Oil Conservation Division for Administrative Apof Eddy, state of New Mexico and of general paid proval for Authorization to inject saltwater into its Lost Tank "33" Federal No. 2 Well, circulation in said county; that the same is a duly qualified newspaper under the laws of the state located 330' FSL & 510' FWL of Section 33, T-21-S, R-31-E, N.M.P.M., Eddy County, New Mexico. The purpose of such well will be to dispose of saltwherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of water produced by Pogo's nearby wells. The injection insaid newspaper and not in supplement thereof on terval will be in the Delaware (Bell Canyon and Upper the date as follows, to wit: Cherry Canyon) formation between 4,166'-5,160' beneath the surface, with an expected March 15 maximum injection rate of approximately 3,000 BWPD _____, 19____ within an expected maximum injection pressure of approxi-. 19 mately 830 psi. Any interested parties must file objections c: requests for a hearing with the .19 New Mexico Oil Conservation Division, 2040 South Pacheco _____,19____ Street, Santa Fe, New Mexico 87505 within fifteen (15) days ____, 19____ from the date of this publica-That the cost of publication is \$_26.31 and that payment thereof has been made and will be assessed as court costs. APPROVED FOR PAYMENT, Subscribed and sworn to before me this DATE ____ //249_dayof_ SIGNATURE _____

8/1/98

Notary Public

My commission expires_

200

18342

Nº

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE NEW MEXICO 87501

Lost Tank "33" Fed. No.2

|--|

APPLIC	ATION FOR AUTHORIZATION TO INJECT									
Ι.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes 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?									
۷.	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:									
	 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 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 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.									

- Attach appropriate logging and test data on the well. (If well logs have been filed х. 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. DILL E HYLEDECKY ACTAIN

	Name: BILL F. MALEPESKA	Title	AGENI	
	Signature: Sill Talesuska	Date:	2/19/98	_
Ιf	the information required under Sections VI. VIII, \	and XI a	above has been previously	

submitted, it need not be dublicated and resubmitted. Please show the date and circumstance of the earlier submittai.

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:
 - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (I) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of bement, 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.

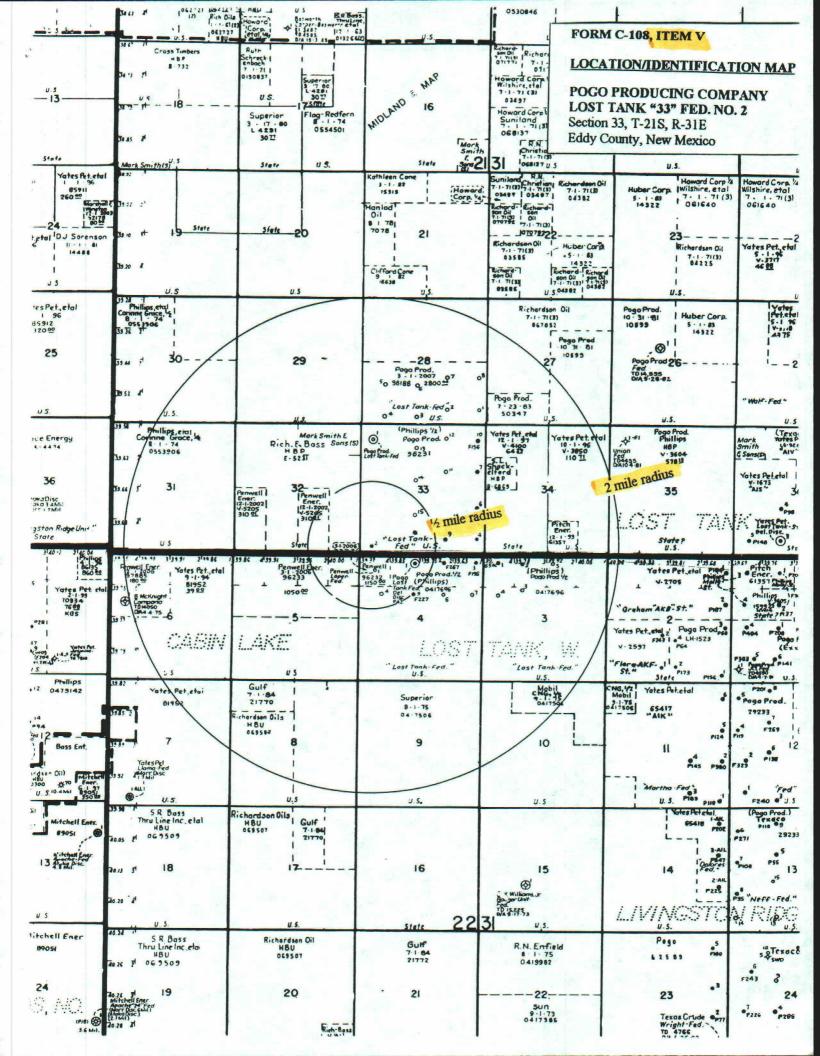
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative poplications within 15 days from the date this application was mailed to them.

ITEM 111-A

INJECTION WELL DATA SHEET

(1). LEASE: Lost Tank "33" Federal WELL # 2	LOCATION: Sec. 33 TWP 21-S Range 31-E	County <u>Eddy</u>	Footage 330' FSL & 510' FWL	(2). CASING STRINGS:	Surface Casing	Size 13-3/8 Depth 535' Cemented w/ 450_ sx.	TOC SULT Determined by circ. ant	Hole size 17-1/2"	Intermediate Casing	Size 8-5/8" Depth 3900' Cemented w/ 1100 sx.	TOC surf. Determined by circ. amt.	Hole size	Long String	Size <u>5-1/2</u> "Depth <u>8130'</u> Cemented w/ <u>1560</u> sx	TOC_surf Determined by circ. cmt, 3rd stg.	Hole size 7-7/8"	Injection interval, from 4166' to 5160 ft.	(3). INJECTION TUBING STRING:	Size 2-7/8 in., charredXlined with PVC	Setting depth <u>4066</u> ft.	(4) INJECTION PACKER:	Size 5-1/2imm; Make/Model Guiberson Uni VI	Setting depth <u>4066</u> ft.
SCHEMATIC			SURFACE CASING			TOTAL OF TOTAL	DV 100-16 38.11 INTERMEDIATE CASING 8-567: 337 (2) 3900: WI 1100 RV	TOC suff, circ 175 sx	1.78" PVC Lined @ 4066'	INJECTION PACKER	Guberson Uni-VI @ 4066		INJECTION ZONE 4166 - 5160'				DV 100L @ 5 /W		CIBP @ 7654' Capped w/35' cmt.		BRUSHY CANYON PERFS 7704' - 14' 7785' - 780' & 7865' - 85'		TOTAL DEPTH 8130' 5-1/2" & 17# @ 8130; w/1560 sx.

FORM	C-108 Pogo Producing Company
ITEM	Lost Tank "33" Fed. No. 2 INJECTION WELL DATA
	Injection formation: <u>Delaware/Bell Canyon & Up. Cherry Canyon</u> Field/Pool: <u>Lost Tank Delaware, West</u>
	Injection interval, from <u>4166</u> ft. to <u>5160</u> ft. Perforated <u>xx</u> Open Hole
(3).	Original purpose well drilled <u>test for production from Lower D</u> elaware
(4).	Other perforated intervals;No Squeezed with sx., or isolated byCIBP @ 7654', capped w/35' cement above perfs 7704' - 14', 7785' - 7800' & 7865' - 85'
(5).	Oil or gas productive zone(s):



ITEM V1

WELL DATA - AREA OF REVIEW

(1).	Location: 660' FSL & 2310' FWL, Sec 33, T-21S, R-31E, Fddy Co.									
	Operator: Pogo Producing Co. Lease: Lost Tank "33" FedWell # 8									
	Well type: Oil X Gas DSA Total depth 8150 ft.									
	Date drilled: spud 9/19/97; test 10/31/97									
	Completion Data: 10-3/4" @ 696' w/650 sx, circ cmt; 7-5/8" @ 3950'									
	w/950 sx, circ cmt; 4-1/2" @ 8150' w/1350 sx, 3 stgs; perf 7805'									
	-19'; A/1000g 7-1/2%; F/79,000# sd; perf 7620'-34'; A/1000g 7-1/2% pump 90 BOPD, 122 BW + 67 MCFG									
	Plugged Date: (Schematic attached)									
(2).	Location: 330' FNL & 2310' FWL, Sec 4, T-22S, R-31E, Eddy Co.									
	Operator: Pogo Producing Co. Lease: Lost Tank "4" Fed Well # 1									
	Well Type: Oil X Gas D&A Total Depth: 10,020 ft.PB8595									
	Date Drilled: <u>spud 11/15/95</u> ; test 11/22/96									
	Completion Data: 13-3/8" @ 425' w/425 sx, circ cmt; 8-5/8" @ 3945'									
	w/122 sx, DNC; perf @ 700' to sq & tie-back to surf; 5-1/2" @									
	8575' w/1690 sx, 3 stg; perf 7772'-7822'; A/1500g 7-1/2%; F/58,440 sd; pump 88 BOPD, 93 BW + 79 MCFG PluggedDate(Schematic attached)									
(3)	. Location: 650' FNL & 2310' FWL, Sec 4, T-22S, R-31E, Eddy Co.									
(-)	Operator: Pogo Producing Co. Lease: Lost Tank "4" Fed. Well #5									
	Well Type ; Oil X Gas DSA Total Depth: 8116 ft.									
	Date Drilled: spud 8/14/97; tested 9/9 97									
	Completion Data: 10-3/4" @ 656' w/550 sx, circ cmt; 7-5/8" @ 3976'									
	w/1100 sx, circ cmt; 4-1/2" @8116' w/1300 sx, circ 3rd stg; perf									
	7806'-30'; A/1000g 7-1/2%; F/96,500# sd; flo 227 BOPD, 125 BW + 231 MCFG									
	Plugged Pate (Schematic attached)									

ITE

EM VII	OPERATIONAL DATA
	UFCHATIONAL DATA
(1).	Average expected injection rate: 1000 BWPD; maximum antici-
	pated rate: 3000 BWPD
(2).	Closed system
(3).	Estimated average injection pressure: 750 psi.
	Estimated maximum pressure: 830 psi.
(4).	Source of injection water: Lower Delaware wells nearby operated
	by Pogo Producing Co.
	Analysis of waters attached. EXHIBIT I
(5).	Analysis of injection zone water attached. EXHIBIT II
	Data source:Corbin Delaware Fld., 31-17-33
	Roswell Geological Society Symposium

GEOLOGICAL DATA

	INJE	CTION ZONE
		Lithological description: ss, lt gray, fine - vf grain, poorly consolidated, poor calc. cement
		Geological name: Delaware, Bell Canyon & Up. Cherry Canyon Zone thickness: 994 ft.; Depth: 5160 ft.
	FRES	H WATER SOURCES
		Geological name: Santa Rosa
		Depth to bottom of zone: $\pm \frac{1}{-650}$ ft.
ITEM	1×	STIMULATION PROGRAM (Proposed)
	ACIO.	IZE:
		Volume: Type acid:
		Rate: 5 BPM; Misc. Ball Sealers
	FRAC	TURE:
		Fluid volume: 55,000 gal.; Type: XI.GW
		Prop type: 16/30 sd Volume (#): 250,000
		Rate: 30 BPM; Conductor: 5-1/2"in.
		Misc.

FORM C-108		_	Producing	• •						
ITEM X	LOGGING PROGRAM	Lost	Tank "33"	Federal No. 2						
Logging program included	_GR,_CND;_GR,Ind	, SP,	_CBL							
				a - Cardan - Company of the state of the sta						
Copy of <u>GR/CND</u> log incl	luded in attachment	ts								
ITEM XI	RESH WATER ANALYSIS	<u> </u>								
Fresh water well within	1 mile radius;	Yes	<u> </u>	o						
Chemical analysis from we	ell(s) located: _{Sec}	ec. 14, T-22S, R-31E								
Date sampled: 5/24/78	EXHIBIT III									
Chemical analysis from we	ell(s) located:									
Date sampled:										

ITEM XII

HYDROLOGY

Various engineering data and area well logs reveal no evidence that there might exist hydrologic connection between the intended injection zone and possible fresh water zone above 650'

COMMERCIAL INTENTION

Initially, only water from Pogo operated wells will be disposed of into the subject well/system. Eventually, Pogo could take water from leases in the area operated by someone else. Only piped water will be accepted into the system.

EXHIBIT I

P O BOX 1468 MONAHANS, TEXAS 79756 PH 943 3234 OR 563 1040

Mr. Barrett Smith

P. O. Box 10340, Midland, TX

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

79702

LABORATORY NO SAMPLE RECEIVE **RESULTS REPORT**

FORM C-108, ITEM VII(4)

ANALYSIS-BRUSHY CANYON PRODUCED WATER

POGO PRODUCING COMPANY LOST TANK "33" FED. NO.2 Section 33, T-21S, R-31E Eddy County, New Mexico

COMPANY Pogo Pr	oducing (Company		L	EASE L	0.EE	ddy County, New	v Mexico
FIELD OR POOL						<u></u>		
SECTION BLOCK _	SURVEY	·	cour	NTYE	ddy	STATE	E NM	
SOURCE OF SAMPLE AND	D DATE TAKE	N:						
NO 1 Froduced w	ater - ta	ikeu from	Lost	Tank 4	Federal #	l (we	11head). 4	-3-97
NO 2 Produced w	ater – ta	ken from	Lost	Tank 3	3 Federal	#2 (4	ellheid).	4-3-9,
NO.3 Froduced w	nter - ta	iken from	Lost	Tank 3	3 Federal i	14 (18	ellhead).	4-3-97
NO 4 Produced w	ater - ta	ken from	Lost	Tank 3	3 Federal	#6 (w	ellhead).	4-3-97
					ansky, Endi			
					AL PROPERTIES			
). 1	NO. 2		NO. 3	NO. 4
Specific Gravity at 60° F			1.2	022	1.2034		1,2038	1,1971
pH When Sampled						7		
pH When Received				5.91	6.	10	5.85	_6.08
Bicarbonale as HCO,				46	44		41	37
Supersaturation as CaCO,								
Undersaturation as CaCO,								
Total Hardness as CaCO,			89,0	00	88,000		94,000	91.000
Calcium as Ca			28,4	00	28,400		30,000	28,400
Magnesium as Mg			4,3	74	4,131		4,617	4,850
Sodium and/or Petassium			77.0	43	79,334		83,038 -	76,129
Sulfate as SO,			1.	50	136		173	179
Chloride as CI			181.7	5 <u>U</u>	184,600		194,540	181,760
Iron as Fe				23.4	63.2	2	23.9	24.4
Barium as Ba				0	J0		0	J 0
Turbidity, Electric								
Color as Pt								
1otal Solids, Calculated			291.7	83	296,645		312,410	291,365
Temperature *F								
Carbon Dioxide, Calculated								
Dissolved Oxygen,								
Hydrogen Sulfide				0.0	0.0		0.0	0.0
Resistivity, ohms/m at 77" F				0.046	0.0	146	0.044	0.046
Suspended Oil					 			
Filtrable Solids as mg/l	·							
Volume Filtered, ml								
								·
			culte Panari	ad As Millia	rams Per Liter			
Additional Determinations And F	Remarks D1 -							
tation of the abo			CL US	IIWE.	CAIL DE OI	any i	assistance i	n Interpre-
COLIVII DE CHE ADI	DIE LEGUL							
					·			
Form No. 3								

FORM C-108, ITEM VII(5)

ANALYSIS-INJECTION ZONE WATER

POGO PRODUCING COMPANY LOST TANK "33" FED. NO. 2 Section 33, T-21S, R-31E

Eddy County, New Mexico

EXHIBIT 11

Corbin Delaware

Location: 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

Parm, in millidarcys		% Porosity	Liquid Saturation (% of pore space)		
Horizontai	Vertical		Weter	ON	

OTHER SHOWS ENCOUNTERED IN THIS FIELD:

None

TRAP TYPE: Stratigraphic, sand pinchout

NATURE OF OIL: 37.80 gravity, sweet

NATURE OF GAS: sweet

NATURE OF PRODUCING ZONE WATER: Salt Resistivity: okm-meters @ Ne+K Fe SQ. CI Total Solids Ca Mq COz HCO. OH His 47,700 6160 | 2060 100 1500 189, 400 160 neg ppm

INITIAL FIELD PRESSURE:

Unknown

TYPE OF DRIVE: Unknown

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

PRODUCTION	DATA:
------------	-------

Year		No. of well	e @ yr. end	Production Oil in burrels Gas in MMCF		
	Түре	Producing	Shut in or Abod.			
				Annuai	Cumulative	
	gél					
1956	gas					
	oil		:			
1957	968		1			
	cel					
1958	903					
1959	qei					
	gas				j	
	oil i	0	1 **	631.5	631.5	
1960*	901					

^{* 1960} Figure is production to July 1, 1960.

^{**} well shut in on April 19, 1960.

FORM C-108, ITEM XI

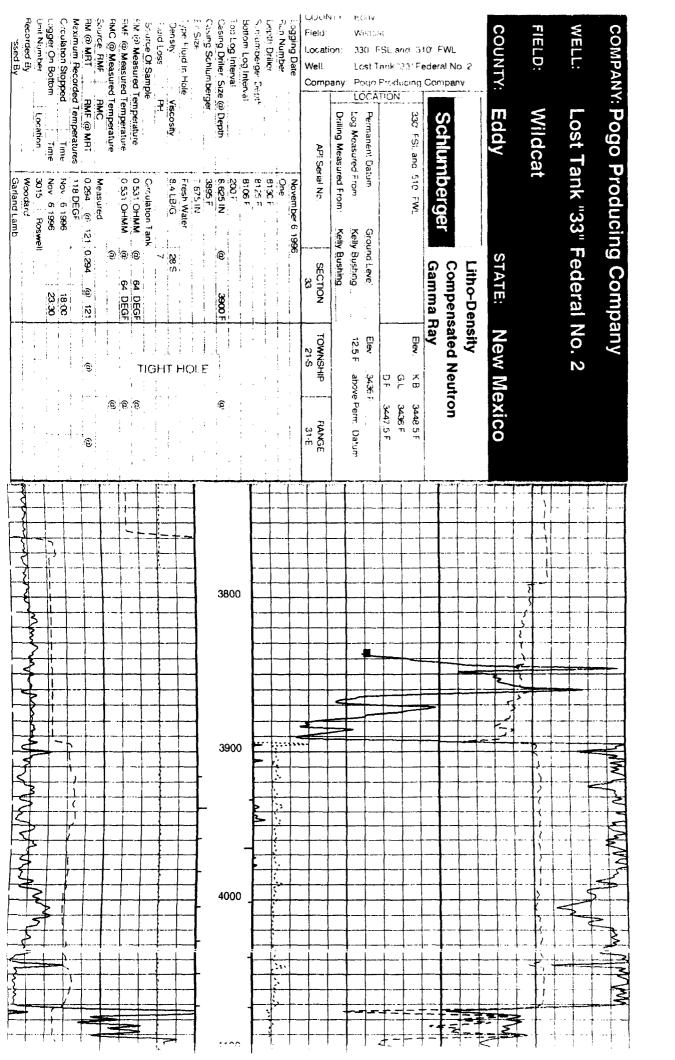
ANALYSIS SANTA ROSA WATER

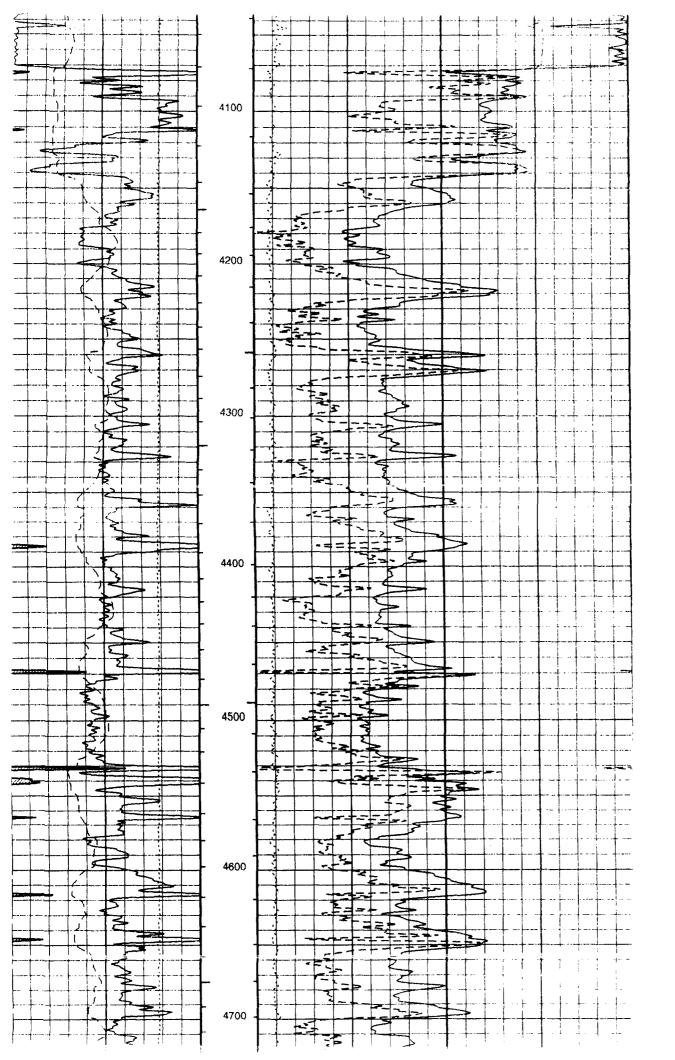
POGO PRODUCING COMPANY LOST TANK "33" FED. NO.2 Section 33, T-21S, R-31E Eddy County, New Mexico

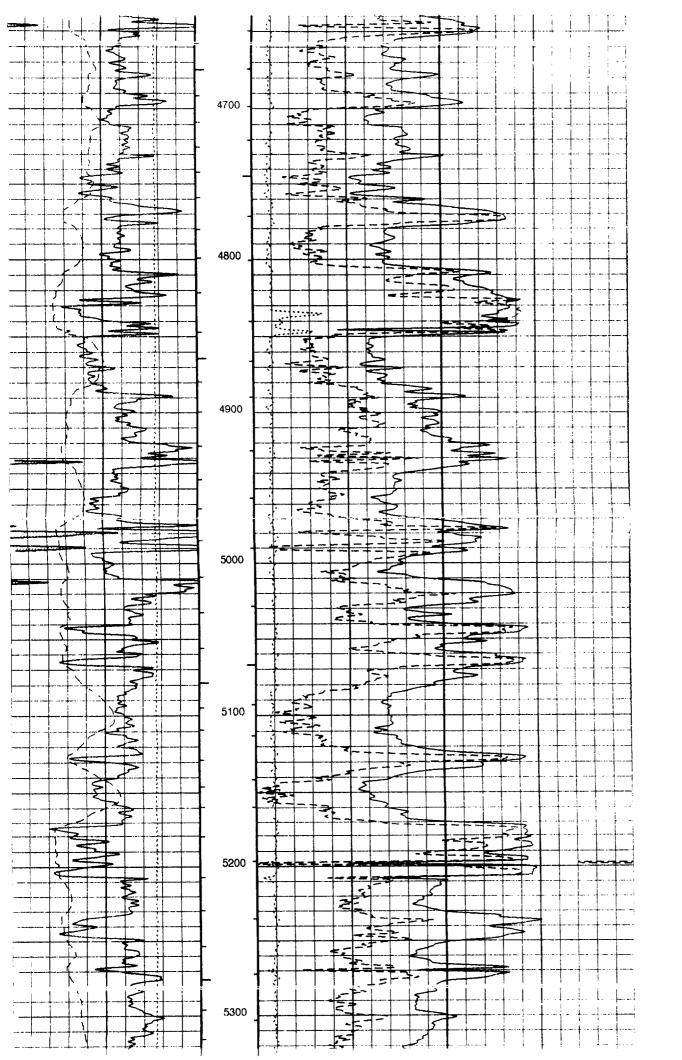
EXHIBIT III

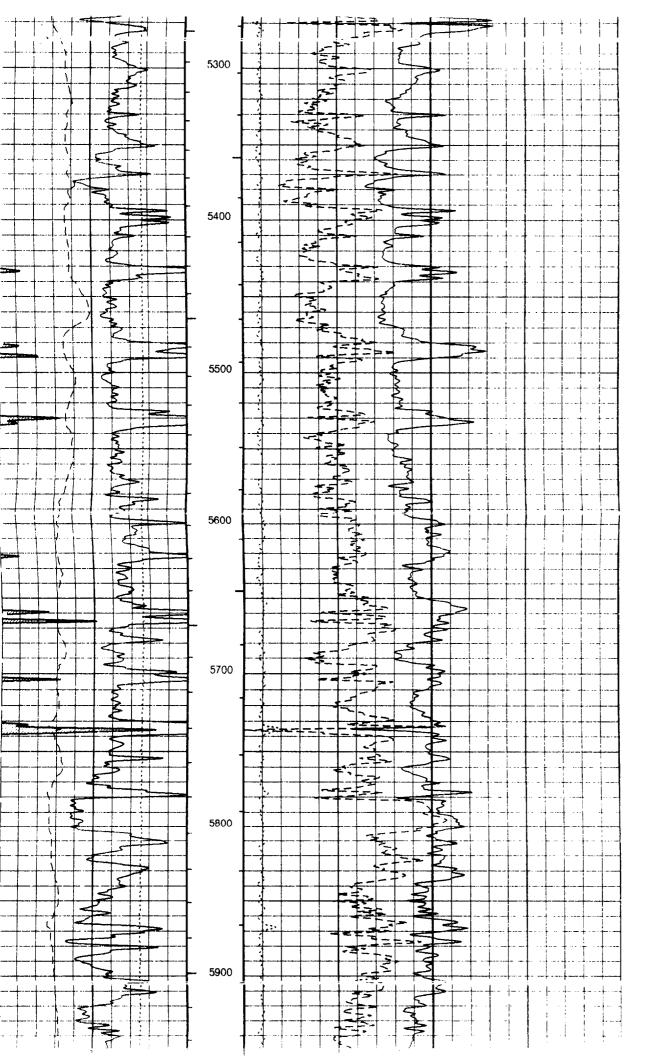
Chemical and radiochemical analyses of water from test hole H-5
Water produced from the Santa Rosa Sandstone, sample taken 5/24/78

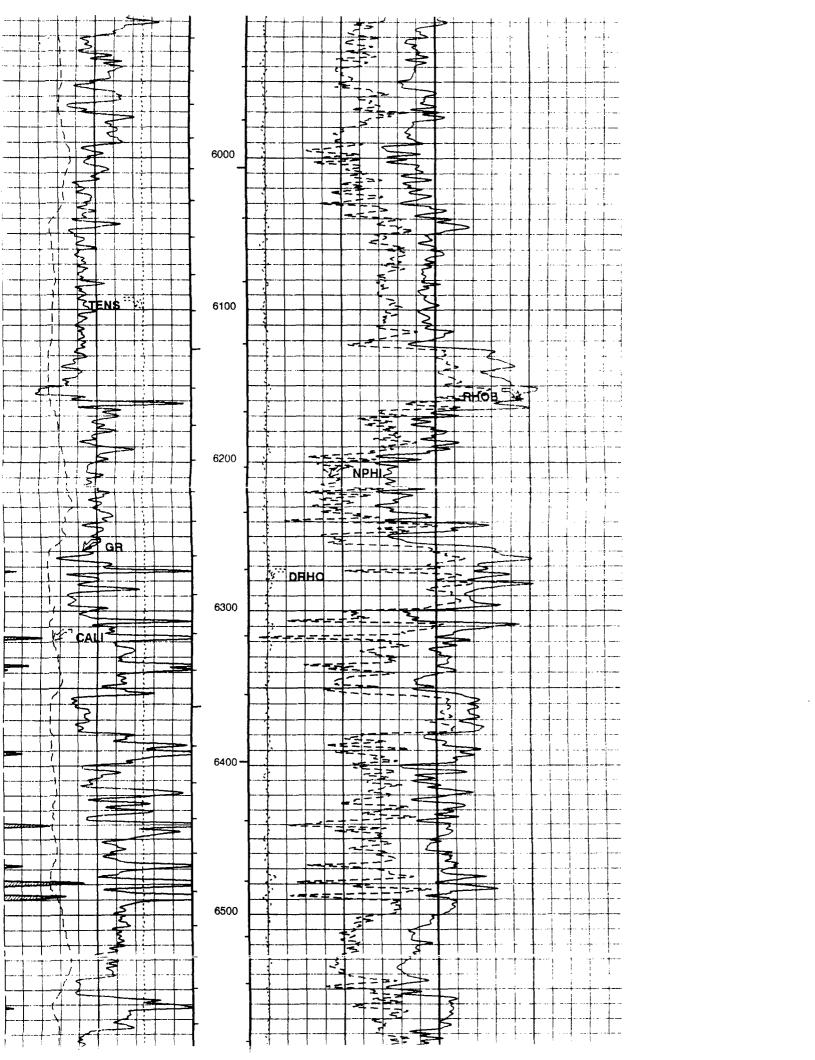
Alkalinity Field (mg/l as HCO3)	200
Bicarbonate FET-FLD (mg/l as HCO3)	240
Nitrogen, NO2 + NO3 Dissolved (mg/l as N)	0.36
Hardness (mg/l as CACO3)	150
Hardness, noncarbonate(mg/l as CACO3)	150
Calcium Dissolved (mg/l as CA)	56
Magnesium, Dissolved (mg/l as MG)	51
Sodium, Dissolved (mg/l as NA)	280
Potassium, 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













NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

May 3, 2002

Lori Wrotenbery
Director
Oil Conservation Division

Pogo Producing Company 300 North Marienfeld Suite 600, PO Box 10340 Midland, Texas 79702-7340

Attn: Mr. Barrett L. Smith

Re: Injection Pressure Increase

Lost Tank 33 Federal Well No.2 SWD

Eddy County, New Mexico

Dear Mr. Smith:

Reference is made to your request dated March 22, 2002 (received in this office April 9, 2002), to increase the surface injection pressure on the above referenced SWD well. This request is based on a step rate test conducted on the well on January 29, 2002. After reviewing test results, we feel an increase in injection pressure is justified at this time.

This well is equipped with 2 7/8" coated tubing and injection packer. With size and type of tubing remaining the same, you are authorized to increase the surface injection pressure to the following:

Well and Location	Maximum Surface Injection Pressure
Lost Tank 33 Federal Well No. 2 SWD (API: 30-015-29330)	900 PSIG Water
330 FSL, 510 FWL, Sec 33, T21S, R31E, NMPM, Eddy County	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery

Director

cc: Oil Conservation Division – Artesia

Bureau of Land Management - Carlsbad

Files: SWD-708; IPI 2002