

11/8/04

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

*Called 11/4/04
 RE-Noticed
 See CIBP
 Done to Bottom of
 APIS on top
 wells*

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

BILL F. HALEPESKA

PETROLEUM ENGINEER

Texas #58052
P. O. Box 80064
432/694-5945

GEOLOGIST

Cert. #2941
Midland, Texas 79708

October 11, 2004

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attention: Mr. David R. Catanach

RE: Water Disposal Project - US MI, Lea County, New Mexico
Application for Administrative Approval to Inject Saltwater into
the Livingston Ridge 18 Federal No. 3 Well, Located 480' FNL &
330' FWL, Section 18, T-22S, R-32E

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.

Persuant thereto, please find enclosed the following:

- (1) Copy of Notification Letter sent to all Leasehold Operators within
one-half (1/2) mile radius of the proposed injection well and to
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 or Richard L. Wright.

Very truly yours,


Bill F. Halepeska, P.E.

Enclosure(s)

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

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XX Disposal _____ Storage
Application qualifies for administrative approval? XX Yes _____ No
- II. OPERATOR: POGO PRODUCING COMPANY
ADDRESS: P. O. Box 10340 Midland, Texas 79702
CONTACT PARTY: ~~Richard L. Wright~~ Barrett SMITH PHONE: 432/685-8100
- 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 XX 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, geologic 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 sources 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 sources 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. Halapeska TITLE: Agent
SIGNATURE: *Bill F. Halapeska* DATE: 10-06-04
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances 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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

FORM C-108
ITEM III-A

INJECTION WELL DATA SHEET

SCHEMATIC

Diagram attached

TABULAR DATA

(1). LEASE: Livingston Ridge 18 Federal WELL NO. 3
LOCATION: Sec. 18 TWP 22S RANGE 32E
County Lea
Footage 480' FNL & 330' FWL
TD: 8600' PBTD: 7100' (proposed)

(2). CASING STRINGS:

Surface Casing

Size 13-3/8 Depth 755 Cemented W/ 950 sx
TOC surf. Determined by circ. 200 sx
Hole Size 17-1/2"

Intermediate Casing

Size 8-5/8 Depth 4428 Cemented w/ 1825 sx
TOC surf. Determined by circ. 30 sx
Hole Size 11"

Long String

Size 5-1/2 Depth 8600' Cemented w/ 1175 sx
TOC 3150' Determined by CBL
Hole Size 7-7/8"

(3). INJECTION INTERVAL

4658' to 5854'

(4). INJECTION TUBING STRING

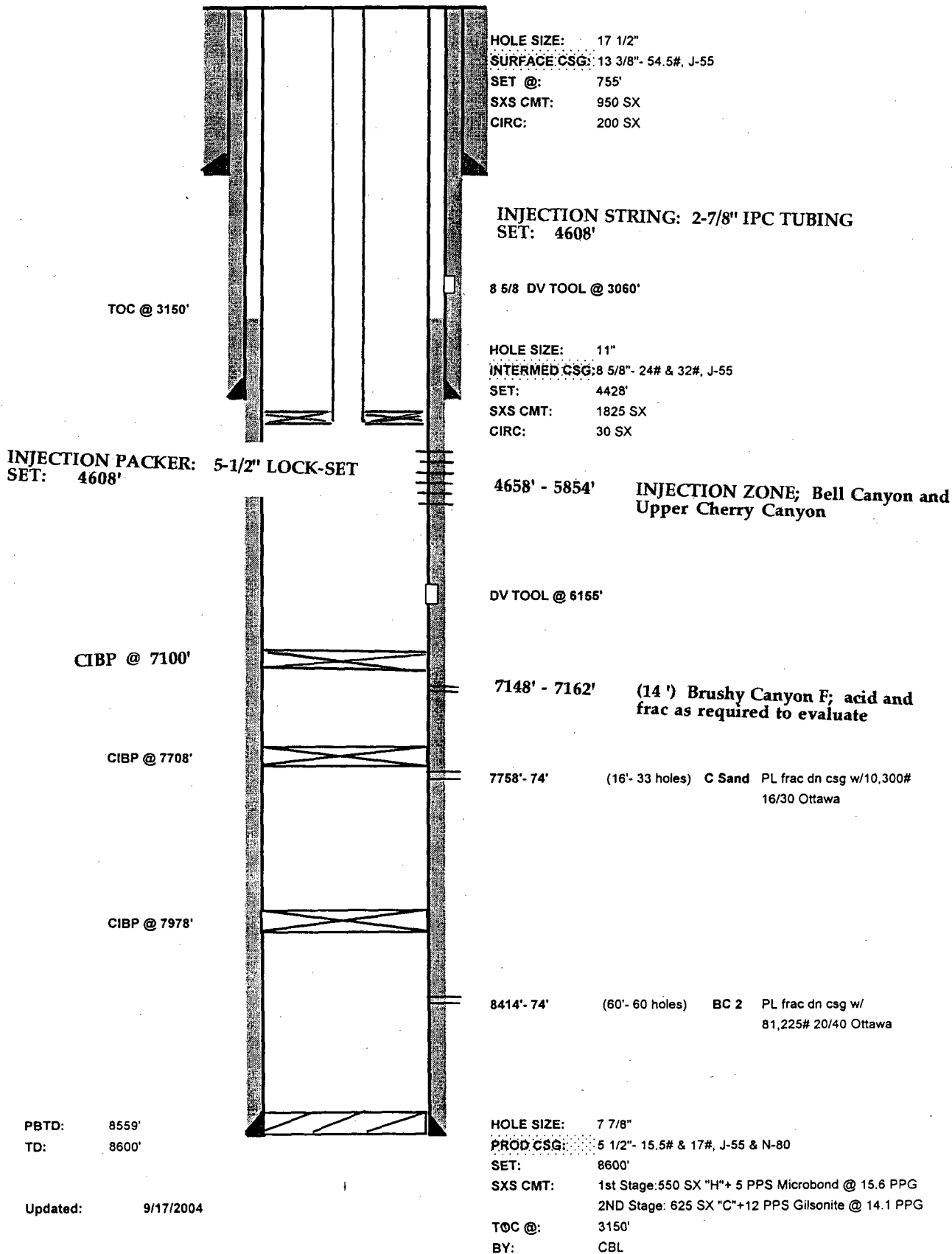
Size 2-7/8 in., Coated/Lined with PVC
Setting Depth 4608'

(5). INJECTION PACKER

Size 5-1/2 in. Make/Model Lock-Set
Setting Depth 4608'

CURRENT WELLBORE DIAGRAM

LEASE: LR 18 FEDERAL	WELL: #3	FIELD: LIVINGSTON RIDGE	API: 30-025-32324
LOC: 480' FNL & 330' FWL	SEC: 18	TNSHP: 22S	ID NO: 377
RANGE: 32E	GL: 3632.4'	CTY/ST: EBY/NM	SPUD: 12/5/1993
CURRENT STATUS: T/A'D	KB: 13.5'	DF: 3644.9'	TD DATE: 12/18/1993



FORM C-108
ITEM III-B

INJECTION WELL DATA

- (1). Injection Formation: Delaware Bell Canyon and Cherry Canyon
Field/Pool: Livingston Ridge
- (2). Injection Interval : from 4658' ft. to 5854 ft.
Perforated XX Open Hole
- (3). Original Purpose for Drilling Well production test Brushy Canyon
- (4). Other Perforated Intervals: XX Yes No
Squeezed with sx., or Isolated by CIBP @ 7978' and 7100'
perfs 8414' - 74' and 7758' - 74' tested; will test perfs
7148' - 62' prior to converting to SWD service
- (5). Oil or Gas Productive Zone(s):
Next Higher none
Next Lower Brushy Canyon +/-7100'

FORM C-108
ITEM VII

OPERATIONAL DATA

- (1) . Average expected Injection Rate: 2000 BWPD; Maximum Anticipated
Rate: 5000 BWPD
- (2) . Closed System
- (3) . Estimated Average Injection Pressure 1000 psi
Estimated Maximum Injection Pressure 1165 psi
- (4) . Source of Injection Water(s) : nearby Pogo operated wells

Analysis of water(s) attached _____
- (5) . Analysis of Injection Zone Water Attached
Data Source : Roswell Geological Symposium
Corbin Delaware, 1960 sec. 31-17-33

ITEM VIII

GEOLOGICAL DATA

INJECTION ZONE

Lithological Description : sandstone, lt gray, f - v f grained,
poorly consolidated, poor calc cementing

Geological Name : Delaware, Bell Canyon and Cherry Canyon
Zone Thickness : 1196 ft ; Depth : 4658'

FRESH WATER SOURCE(S)

Geological Name of Aquifer : Santa Rosa

Depth to Bottom of zone: +/-700'

FORM C-108
ITEM IX

STIMULATION PROGRAM

ACIDIZE

Volume: 3000 gal Type Acid : 7-1/2% HCl, NEFE
Injection Rate : 5 BPM; Miscellaneous : ball sealers

FRACTURE TREATMENT

Fluid Volume : 30,000 gal Type : GW
Prop Type : 20/40 sand Volume (lb) : 15,000#
Rate : 18 BPM; Conductor : 2-7/8'
Miscellaneous : ball sealers

ITEM X

LOGGING PROGRAM

Logs Included: GR-DLL-MSFL-RSCT
Copy of GR/DLL Log(s) Included with Attachments

ITEM XI

FRESH WATER DATA

Fresh Water Wells Within One (1) Mile Radius : Yes XX No
Chemical Analysis from Well Located : Sec. 14, T-22S, R-31
Date Sampled : 05-24-78
Chemical Analysis from Well Located : _____
Date Sampled : _____
Analyses Attached

ITEM XII

HYDROLOGY

Various Engineering data and Logs reveal no evidence that there might exist hydrologic connection between the intended injection zone at 4658' and possible fresh water zone(s) above 700'.

FORM C-108, ITEM VII(4)

ANALYSIS - PRODUCED WATERs Point Lane • Houston, Texas 77079
• Telex: 4620346 • FAX: 713 589-4737POGOPRODUCING COMPANY
Livingston Ridge 18 Federal No. 3
D - 18-22-32, Lea County, NMMexico 88210
Phone
FaxWATER ANALYSIS REPORTCompany : POGO PRODUCING
Address : MIDLAND, TEXAS
Lease : RED TANK FED. 28
Well : #1 *Brushy Canyon (Del)*
Sample Pt. : WELLHEADDate : 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. MALLET / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

FORM C-108, ITEM VII(5)

Name: Corbin Delaware
 Location: NE $\frac{1}{4}$ Sec. 31, T.17 S., R.33 E.
 County & State: Lea Co., N. Mex.

ANALYSIS - INJECTION ZONE WATER

COMPLETION DATE: March 31, 1960

POGOPRODUCING COMPANY
 Livingston Ridge 18 Federal No. 3
 D -- 18-22-32, Lea County, NM

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 ₂ 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 & 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.

ANALYSIS SANTA ROSA WATER

POGO PRODUCING COMPANY
Livingston Ridge 18 Federal No. 3
D - 18-22-32, Lea County, NM

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 ₃)	200
Bicarbonate FET-FLD (mg/l as HCO ₃)	240
Nitrogen, NO ₂ + NO ₃ Dissolved (mg/l as N)	0.36
Hardness (mg/l as CaCO ₃)	150
Hardness, noncarbonate (mg/l as CaCO ₃)	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 ₄)	530
Fluoride, Dissolved (mg/l as F)	1.2
Silica, Dissolved (mg/l as SiO ₂)	11.0
Boron, Dissolved (ug/l as B)	890
Solids Residue at 105 Deg C, Dissolved (mg/l)	1200

COMPUTALOG

CS400

DUAL INDUCTION
LATEROLOG
GAMMA RAY

COMPANY POGO PRODUCING CO.

WELL EAST LIVINGSTON RIDGE
FEDERAL 18 #3
FIELD E. LIVINGSTON DEL.
COUNTY LEA STATE NM

COMPANY POGO PRODUCING COMPANY
WELL EAST LIVINGSTON RIDGE FEDERAL 18 #3
FIELD EAST LIVINGSTON RIDGE DELAWARE
COUNTY LEA STATE N MEXICO
LOCATION 2130' FNL & 1980' FEL
SEC. 18 TWP. 22S RGE. 32E
ELEV. 3711.2
ELEV. K.B. 3726.2
D.F. 3725.2
G.L. 3711.2

OTHER SERVICES:
SLD-CNS-GR

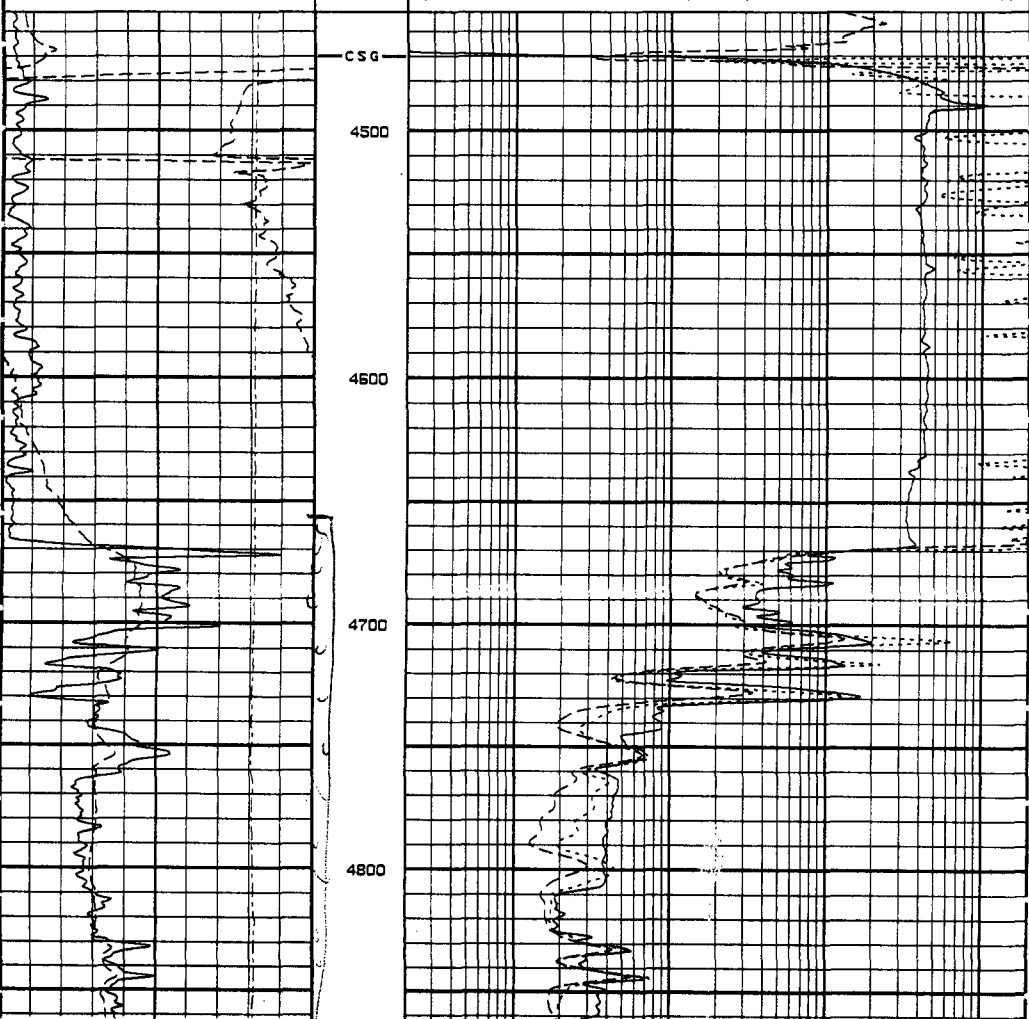
DATE 09-06-93
RUN NO. ONE
DEPTH-DRILLER 8782
DEPTH-LOGGER 8772
BITM. LOG INTER. 8768
TOP LOG INTER. 4470
CASING-DRILLER 8-5/8 @ 4474
CASING-LOGGER 4470
BIT SIZE 7-7/8
FLUID TYPE FRESH
DENS. 8.4 VISC. 28
PH | FLUID LOSS 10.5 NA ML
SOURCE OF SAMPLE PIT
RM @ MEAS. TEMP. 0.56 @ 78 F
RM @ MEAS. TEMP. NA @ NA F
RMC @ MEAS. TEMP. NA @ NA F
SOURCE: RMF/RMC NA NA
RM @ BHT 0.38 @ 125 F
TIME SINCE CIRC. 6.5 HOURS
MAX. REC. TEMP. 125 F @ TD
EQUIP. LOCATION 3033 CODES
RECORDED BY DOENZ
WITNESSED BY COMPTON

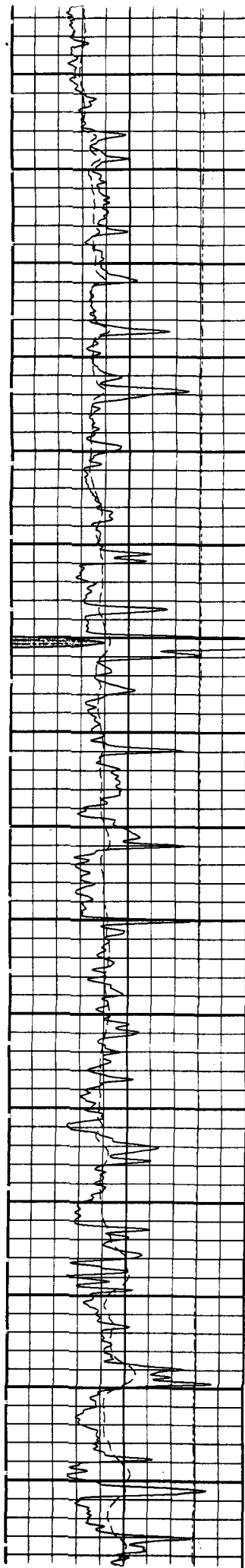
SUPMP

FINISH DEPTH: 4450.5 FEET DIRECTION: UP DATE: 09/06/93 TIME: 23:58 MODE: TRACE PLAYBACK

TENSION (lbs) 0
GR (API) 150
SP (mv) 75

RLL3 (ohm-m) 2000.0
ILM (ohm-m) 2000.0
ILD (ohm-m) 2000.0





4800

4900

5000

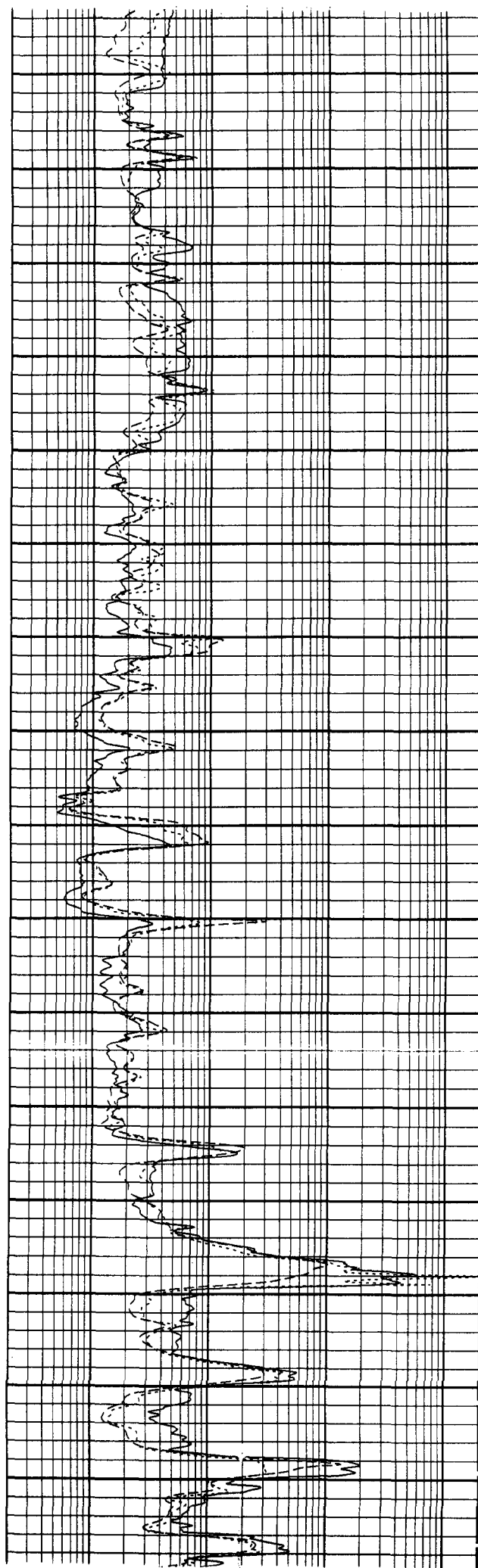
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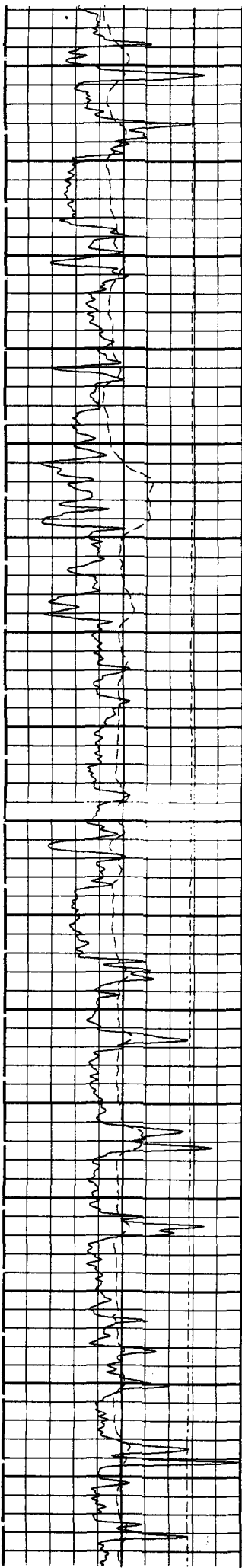
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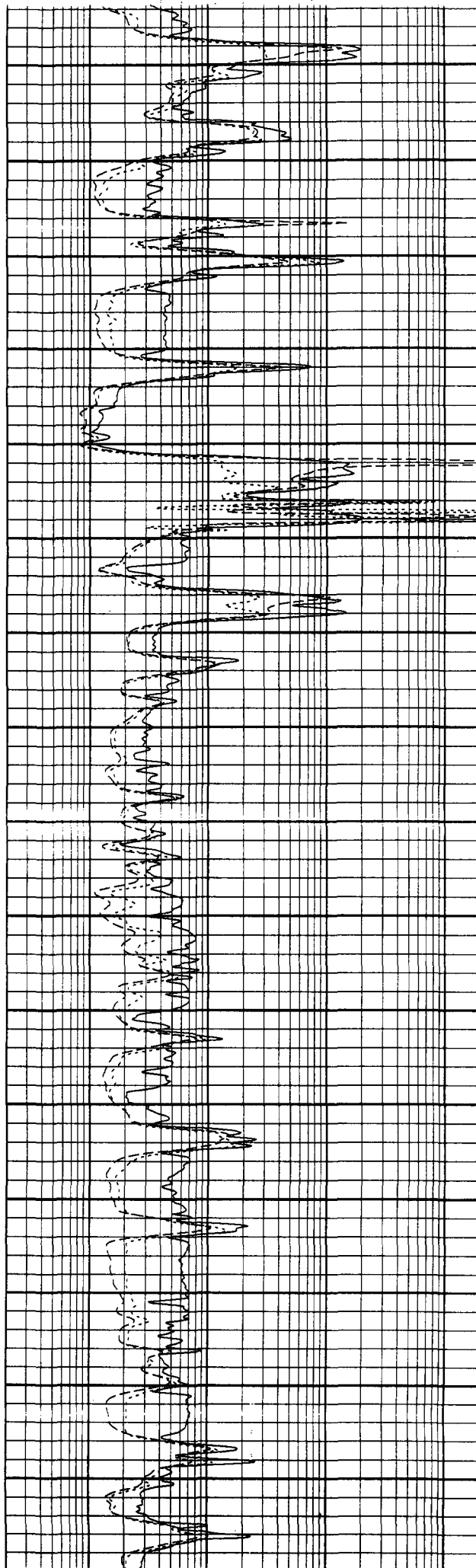
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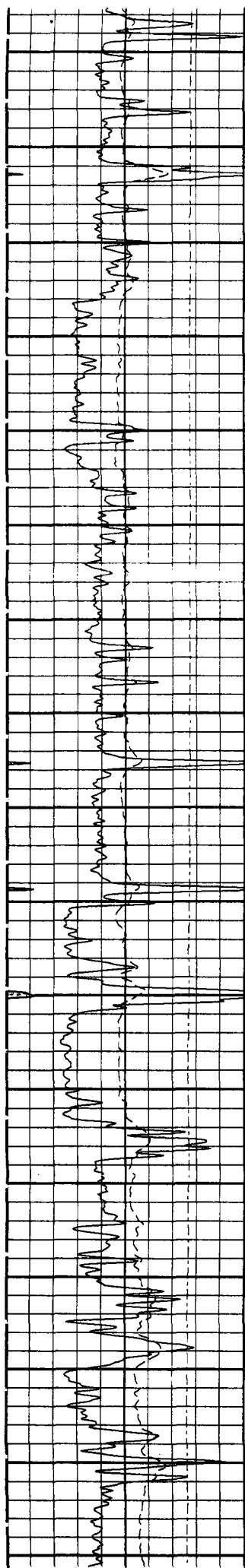
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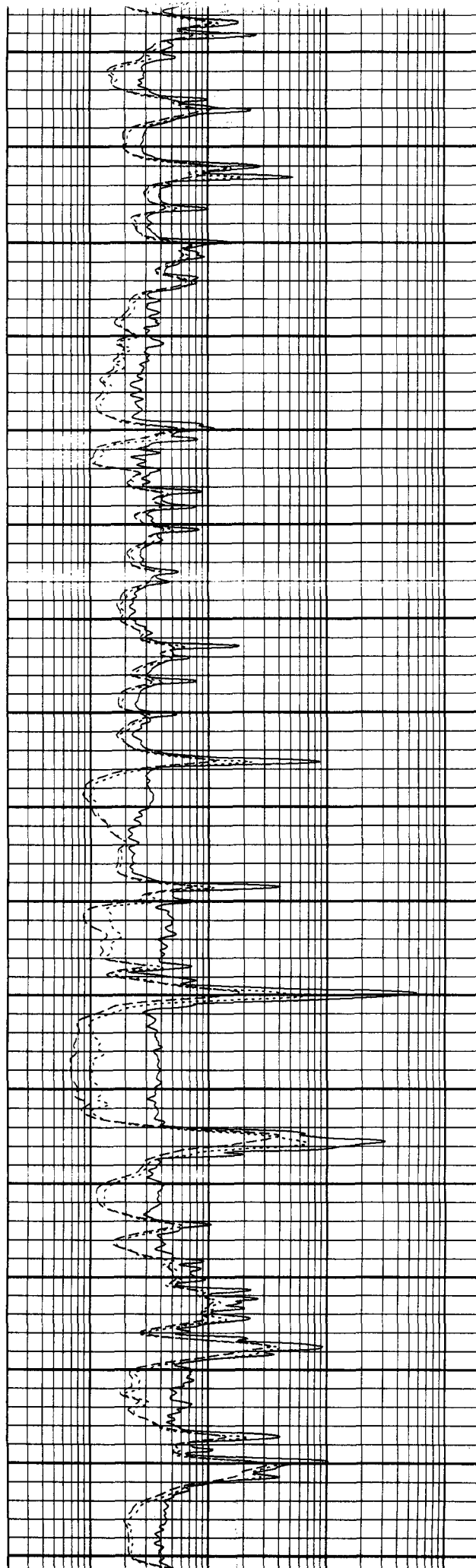
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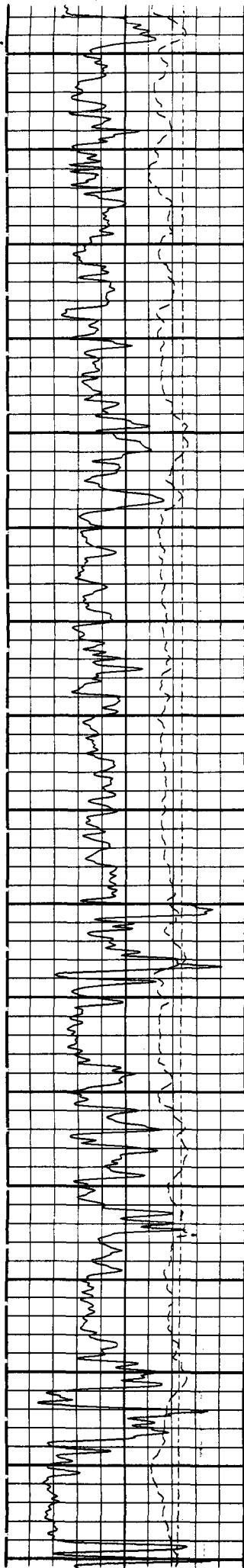
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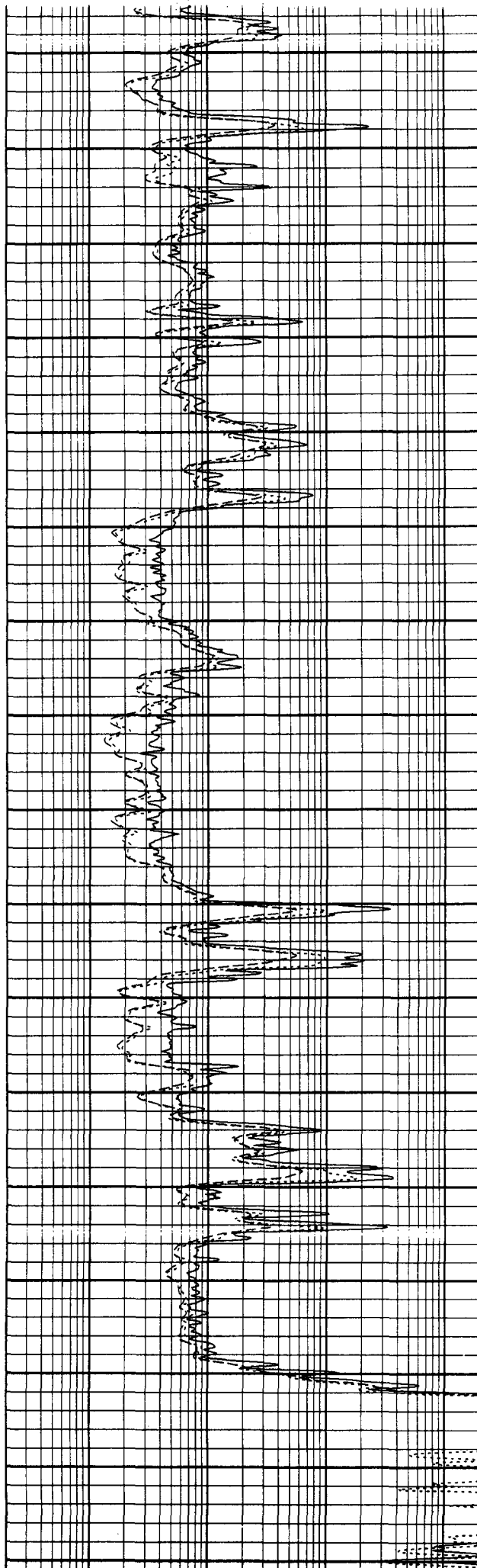
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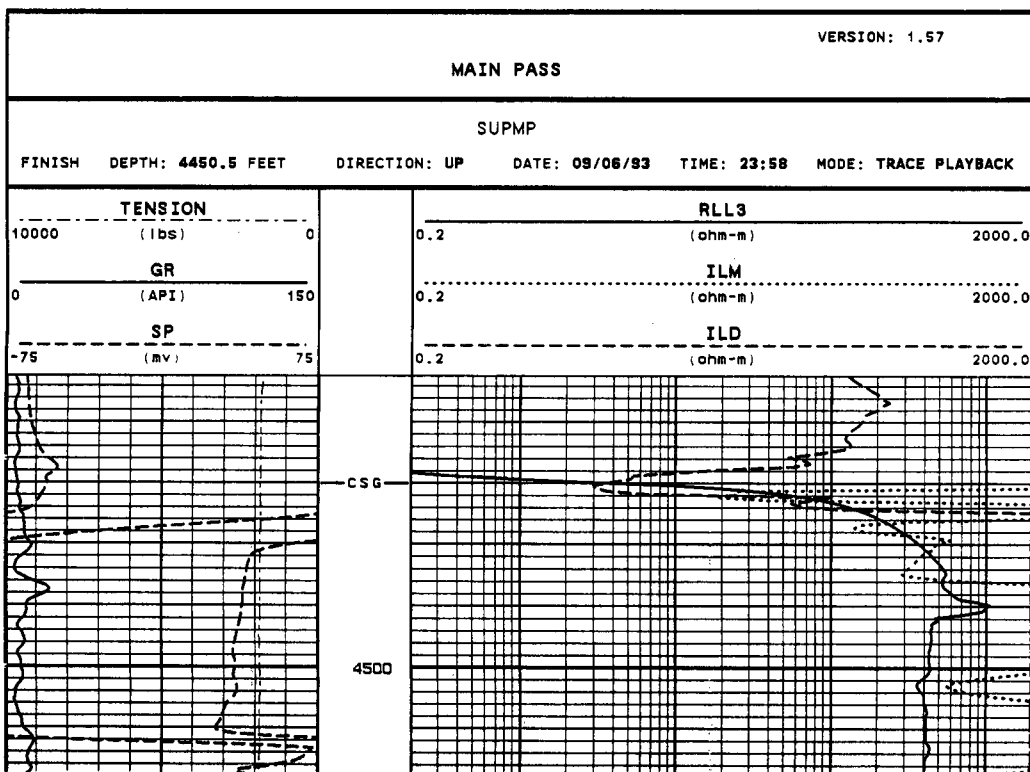
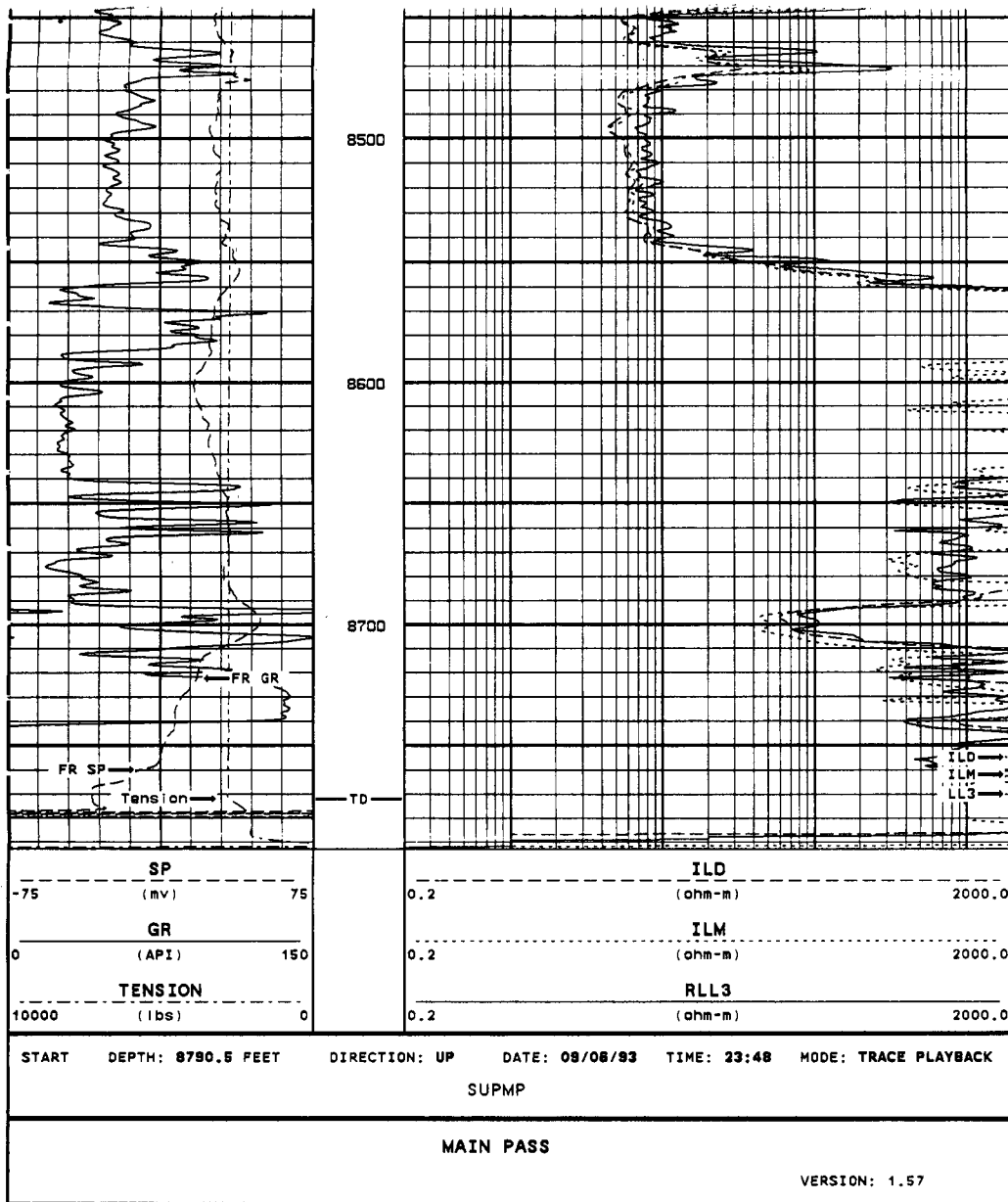
8300

8400

8500

8600





BILL F. HALEPESKA

Petroleum Engineer
Texas #58852
P. O. Box 80064

Geologist
Cert. #2941
Midland, TX 79708

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 07, 2004

To: Offset Leasehold Operators
(See Attached List)

Re: Water Disposal Project, US MI; Lea County, New Mexico
Application for Administrative Approval to Inject
Saltwater into the Livingston Ridge 18 Federal No, 3
Well, Located 480' FNL & 330' FWL Section 18, T-22S, R-32E

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,


Bill F. Halepeska, P.E.

Enclosure(s)

FORM C-108

Attached to Notification Letter dated October 7, 2004, regarding Pogo's Application for Administrative Approval to Inject Saltwater into the Livingston Ridge 18 Federal No. 3 Well

Chevron U.S.A. Inc.
15 Smith Road
Midland, Texas 79705
Attention: Ms. Denise Beckham

Yates Petroleum Corporation
105 South 4th Street
Artesia, New Mexico 88210

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

Notice forwarded by Certified Mail, Return Receipt requested, on *Oct. 7,* 2004.



Bill F. Halepeska

FORM C-108
PROOF OF MAILING

Pogo Producing Company
Livingston Ridge 18 Federal No. 3
Lea County, New Mexico

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to: U.S. Dept. of Interior BLM Roswell Resource Area 2909 W. 2nd St. Roswell, NM 88201-1287</p>		<p>A. Signature <i>[Signature]</i></p> <p>B. Received by (Printed Name) 10/9/94</p> <p>C. Date of Delivery 10/9/94</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label) 7000 0520 0020 7931 5953</p> <p>PS Form 3811, August 2001</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to: Yates Petroleum Corp. 105 S. 4th St. Artesia, NM 88210</p>		<p>A. Signature <i>[Signature]</i></p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label) 7000 0520 0020 7931 5946</p> <p>PS Form 3811, August 2001</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to: Chevron, USA 13 Smith Rd. Midland, TX 79705</p>		<p>A. Signature <i>[Signature]</i></p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label) 7000 0520 0020 7931 5946</p> <p>PS Form 3811, August 2001</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

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

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of October 5, 2004 and ending with the issue of October 5, 2004.

And that the cost of publishing said notice is the sum of \$22.88 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 27th day of October 2004

Debbie Schilling

Debbie Schilling

Notary Public, Lea County, New Mexico

My Commission Expires June 22, 2006

LEGAL NOTICE
PUBLIC NOTICE
APPLICATION FOR
AUTHORIZATION
IN 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
Livingston Ridge 18
Federal No. 3 well, located
480' FNL & 330' FWL
of Section 18, T-22-S, R-
32-E, Lea County, New
Mexico. The purpose of
such well will be for injection/
disposal of saltwater
produced from Pogo's
nearby wells. the injection
interval will be in the
Delaware (Bell Canyon
and Cherry Canyon)
Formation between 4658'
and 5854' beneath the
surface, with an expected
maximum injection rate of
5000 BWPD and an
expected maximum injection
pressure of 1165 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
October 5, 2004.

New Mexico OCD
Att: Will Jones

VIA FAX AND MAIL

November 4, 2004

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

RE: Pogo Producing Company - Livingston Ridge 18
Federal No. 3; Livingston Ridge Field; Lea
County, New Mexico; Legal Notice of Application
for Authorization to Inject

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 as soon as possible, with billing.

If you have any questions, please contact the undersigned.

Sincerely,

Bill F. Halepeska, P.E.

P. O. Box 80064
Midland, Tx. 79708

Att: WILL JONES

PUBLIC NOTICE
(corrected to show new OCD address)
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 Livingston Ridge 18 Federal No. 3 well, located 480' FNL & 330' FWL of Section 18, T-22-S, R-32-E, Lea County, New Mexico. The purpose of such well will be for injection/disposal of saltwater produced from Pogo's nearby wells. The injection interval will be in the Delaware (Bell Canyon and Cherry Canyon) Formation between 4658' and 5854' beneath the surface, with an expected maximum injection rate of 5000 BWPD and an expected maximum injection pressure of 1165 psi.

Any interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within fifteen (15) days from the date of Pogo's Application. ✓

Pogo Producing Company
Livingston Ridge 18 Federal #3

FORM C-108
ITEM VI

Internal 458-5854

WELL - AREA OF REVIEW

(1). Location : Section 7 1650' FSL & 660' FWL 7-22-32 API# 30-035-51076
Operator : Yates Petroleum
Lease : Flamenco Federal Well No. 1-WI
Well Type - Oil SWD Gas TD: 8537' PBTD: 6950'
Date Drilled/Completed: Spud 12-10-90; Comp. 7-03-91
Completion Data: 8-5/8" @ 850' cem w/250 sx, circ; 5-1/2" @ 8537'
cem w/2850 sx; DV tool @ 7006'; perf 8449'-55' & 8312'-32'; test;
set CIBP @ 8270'; perf 7184'-94'; set CIBP @ 7170'; perf 7085'-7104';
set CIBP @ 6985' plus 35' cement; perf 4676'-5814'; acid selectively
w/20,000 gal; comp as SWD; first injection 7-03-91

Plugged _____ Date _____ (diagram attached)

(2). Location : Section 13 - 22 - 31 1980' FNL & 660' FEL API# 30-015-26165
Operator : Chevron/Texaco
Lease : Neff Federal 13 Well No. 2
Well Type - Oil XX Gas TD: 8450' PBTD: 7300'
Date Drilled/Completed: Spud 9-07-89 Comp 10-07-89
Completion Data: 11-3/4" @ 838' cem w/675 sx; 8-5/8" @ 4520' cem
w/1283 sx; 5-1/2" @ 8450' cem w/1635 sx; perf 7126'-7161'; A/1500
gal 7-1/2%; F/50,000# sd; IPP: 304 BO + 119 BWPD with GOR 322:1

*DVC 1
5979
circ Bottom
Stage
850 SX
on Stage II
no circ*

Plugged _____ Date _____ (diagram attached)

(3). Location: Section 13 - 22 - 31 660' FNL & 1980' FEL 30-015-26502
Operator : Chevron/Texaco
Lease : Neff 13 Federal Well No. 4
Well Type - Oil XX Gas TD: 8450' PBTD: 8435'
Date Drilled/Completed: Spud 12-27-90 Comp 02-03-91
Completion Data: 11-3/4" @ 840' cem w/700 sx; 8-5/8" @ 4350' cem
w/1540 sx; 5-1/2" @ 8450' cem w/1550 sx; perf 7112'-7138'; A/2300
gal 7-1/2%; F/92,500# sd; IPP: 198 BO + 27 BWPD and 72 MCFG

Plugged _____ Date _____ (diagram attached)

Pogo Producing Company
Livingston Ridge 18 Federal #3

FORM C-108
ITEM VI

WELL - AREA OF REVIEW

(4). Location : Section 13 - 22 - 31 740' FNL & 990' FEL *Ad # 30-016-32761*
Operator : Chevron
Lease : Neff 13 Federal Well No. 16
Well Type - Oil XX Gas TD: 8600' PBTD:8530'
Date Drilled/Completed: Spud 5-16-03 Comp 8-02-03
Completion Data; 13-3/8" @ 795' cem w/950 sx; 8-5/8" @ 4465' cem
w/1420 sx; 5-1/2" @ 8600' cem w/2177 sx; perf 8320'-43 & 8391'-8409';
A/3000 gal 7-1/2"; F/60,000# sd; perf 8182'-8290'; A/3000 gal 7-1/2"
F/21,900#; perf 7128'-7149'; A/1300 gal 7-1/2"; F/20,000#; perf
7041'-7075'; A/2100 gal 7-1/2"; F/44,000#; perf 6906'-56 & 6661'-
6815'; Acidize 6661'-7852' w/4550 gal; IPP: 69 BOPD + 765 BOPD and
110 MCFG

Plugged Date (diagram attached)

(). Location :
Operator :
Lease : Well No.
Well Type - Oil Gas TD:
Date Drilled/Completed:
Completion Data;

Plugged Date (diagram attached)

(). Location:
Operator :
Lease : Well No.
Well Type - Oil Gas TD:
Date Drilled/Completed:
Completion Data;

Plugged Date (diagram attached)