

DATE IN	SUSPENSE	ENGINEER	LOGGED BY	TYPE
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

### ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

#### Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
 [DD-Directional Drilling] [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 - Directional Drilling  
☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [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

#### [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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

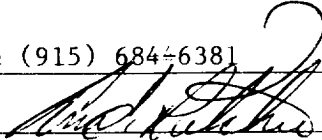
Ann E. Ritchie  
Print or Type Name

Signature

Regulatory Agent  
Title

7-22-99  
Date

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Sonat Raton, L.L.C.  
ADDRESS: P.O. Box 190, Raton, NM 87740  
CONTACT PARTY: Don Lankford PHONE: 505 445-4621
- 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 X 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: Ann E. Ritchie (915) 684-6381 TITLE: Regulatory Agent  
SIGNATURE:  DATE: 7-22-99
- \* 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: \_\_\_\_\_

Sonat Raton, L.L.C.  
Vermejo Park Ranch "A", Well #7 Water Disposal  
1074' FNL & 2276' FEL  
Section I, T-31-N, R-19-E  
Colfax County, New Mexico

**Attachment A**

**III. Well Data**

**Section A:**

1. Lease Name: Vermejo Park Ranch "A", Well #7 (Water Disposal)  
Location: 1074' FNL & 2276' FEL, Sec 1, T31N, R19E, Colfax County, NM
2. Casing & Cementing (Wellbore Diagram attached)

**Proposed:**

Casing Size	Setting Depth	Sacks Cement	Hole Size	Top of Cement
13 3/8"	350'	170 sx	15 1/2"	Surface
9 5/8"	2300'	518 sx	12 1/4"	Surface
7"	6450'	375 sx	8 3/4"	1800'

3. Tubing: 2 7/8" 6.5# J-55 @ +/- 6200'
4. Packer: Baker Model R-3 @ +/- 6200'

**Section B:**

1. Injection Formation: Entrada Sand  
Field Name: Vermejo Park Ranch
2. Injection Interval: Entrada Sandstone +/- 6200' – 6400' (perforated interval)
3. Original Purpose of Well: Drilled for the purpose of disposing of produced formation water.
4. No other perforated intervals
5. Next Higher gas/oil zone: Dakota Formation  
Next Lower gas/oil zone: None

**Casing and Cementing Plan**

WDW: "VPRA-07"

Casing and Cementing Design

Surface casing cement <sup>300</sup> 170 sx. Class 'G'  
(100% excess) at 14.5 ppg., 1.38 yield  
(cement to surface)  
32 sx circulated to surface

Intermediate casing cement with <sup>400</sup> 818 sx.  
Silica Light (75% excess) at 11.5 ppg.,  
2.19 yield, followed by 68 sx. Class 'G'  
at 14.5 ppg., 1.38 yield, w/120 sx Mid-con 2  
(cement to surface) & 75 sx C1 G  
TS: 1500'  
Bradenhead squeeze: 300 sx squeezed  
to surface Top Trinidad @ +/-2200'  
7-8-99

Long string cement with 375 sx. Silica Light  
(30% excess) at 11.5 ppg., 2.19 yield  
followed by 75 sx. Class 'G' (30% excess)  
at 14.8 ppg., 1.32 yield  
(cement to 1800')

top Dakota @ +/-5100'

top Entrada @ +/-6200'

15 1/2" hole

13 3/8" 48# csg. @ 350'  
7-3-99

12 1/4" hole

9 5/8" 36# csg. @ <sup>2662'</sup> 2360'  
7-7-99

8 3/4" hole

7" 20# csg. @ <sup>6450'</sup> 6400'  
7-14-99

Page 2

Sonat Raton, L.L.C.

Vermejo Park Ranch "A", Well #7

- IV. This is not an expansion of an existing project.
- V. Map attached – "Attachment B", two mile & 1/2 mile radius area of review

**VI. Area of Review**

There are no wells within one half mile of the proposed disposal well that penetrate the target formation. There is one shallow water well in the one half mile radius and one planned CBM well targeting the Vermejo Formation at +/- 2300'.

**VI. Operation Data:**

- 1. Proposed average daily injection volume: 10,000 BWPD  
Proposed maximum daily injection volume: 20,000 BWPD
- 2. This well will be a closed system.
- 3. Proposed average daily injection pressure: 875 psi  
Proposed maximum daily injection pressure: 1240 psi
- 4. Sources of injection/disposal water will be from the Vermejo and Raton Formation CBM wells that have been drilled or are scheduled to be drilled on the Vermejo Park Ranch.
- 5. Chlorides in the Entrada Formation are estimated to be between 1133 to 11,795 ppm as described in the "Attachment C" C-1, C-2 and C-3 Water Analysis, Pantechs Laboratories taken from area wells – as available  
Chemical analysis of water zones penetrated while drilling were obtained by Roy Johnson, District 4, Oil Conservation Division, Santa Fe, NM

**VIII. Geological Data**

Information pertaining to the lithological details and thickness are limited to the Eustace #1, located in Section 36, north of the proposed Vermejo Park Ranch "A" Well #7. To best of our knowledge the logs on the Eustace #1 were previously submitted to the Oil Conservation Division. (Eustace #1, Form C-103 & C-105 attached)

**IX. Stimulation Program**

Anticipated frac job will be 200,000# 20/40 sand w/cross linked gell @ 5# per Gallon.

**Page 3**

Sonat Raton L.L.C.  
Vermejo Park Ranch "A", Well #7

**X. Logs and Test Data**

Well has not been logged to date; the Oil Conservation Division, Att: Roy Johnson, Santa Fe, NM, is on the distribution list for all logs

**XI. Fresh Water**

Roy Johnson, OCD took fresh water samples, during drilling

**XII. Statement**

To the best of our current knowledge of the area there is no evidence of open faults or other hydrologic connection between and disposal zone and underground sources of drinking water.

**XIII. Proof of Notice attached as "Attachment D"**

Sonat Raton L.L.C. offsets Section 1 on all sides.

**XIV. Certification: Form C-108 "Application for Authorization to Inject"**

A horizontal scale bar with markings at 4000, 0, 4000, and 8000. The word "FEET" is centered below the bar.

# PANTLE IS LABORATORIES

☐ P. O. BOX 2439

TEL. 806 669-6821

PAMPA, TEXAS 79066-2439

☐ P. O. BOX 3246

TEL. 806 797-4325

LUBBOCK, TEXAS 79452-3246

## WATER ANALYSIS

### SAMPLING DATA

Lab #.....0689  
 Customer.....VERMEJO MINERALS CORP.  
 Sample ID.....# Well # D  
 Date sampled.....3-1-90  
 Sampling point.....Produced Water  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....3-7-90

### REMARKS:

\* Cimarron, New Mexico Area  
 Color:  
 Gray, cloudy; suspended Solids

### DISTRIBUTION

3-Vermejo Minerals Corporation  
 Rte 1 Box 68  
 Cimarron, New Mexico 87714  
 Mr Larry Williamson

### ANALYTICAL DATA

pH.....8.09  
 Specific gravity @ 75 deg. F.....1.0031  
 Resistivity (ohm-cm).....1.19  
 Filterable solids (mg/l).....166.8  
 Carbon dioxide (CO<sub>2</sub>) mg/l.....NA  
 Sulfide (as H<sub>2</sub>S) mg/l.....NA  
 Total hardness (as CaCO<sub>3</sub>) mg/l.....NA

### DISSOLVED SOLIDS

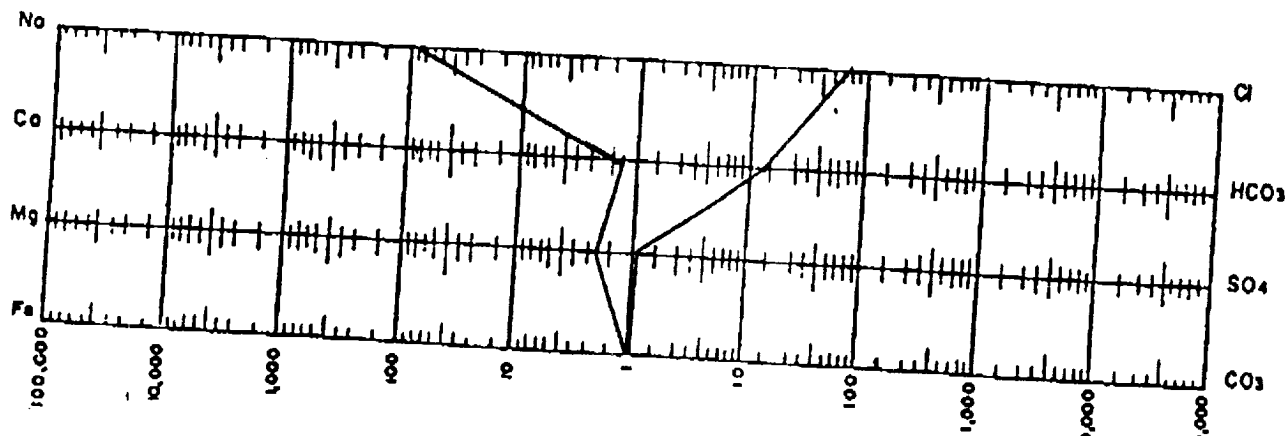
Cations	meq/l	mg/l	ppm
Sodium (Na)	85.4	1963	1957
Calcium (Ca)	1.5	30	30
Magnesium (Mg)	2.5	30	30
Iron (Fe), total	.7	20	20
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA

### Anions

Chloride (Cl)	71.2	2524	2516
Sulfate (SO <sub>4</sub> )	0	0	0
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	18.9	1153	1149
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	180.2	5720	5702

Analysis By: \_\_\_\_\_ Steve Hopkins \_\_\_\_\_

Water Patterns (meq/l)  
 Logarithmic





# PANTLICH'S LABORATORIES

☐ P. O. BOX 2439

TEL. 806 669-6821

PAMPA, TEXAS 79066-2439

☐ P. O. BOX 3246

TEL. 806 797-4325

LUBBOCK, TEXAS 79452-3246

## WATER ANALYSIS

### SAMPLING DATA

Lab #.....0687  
 Customer.....VERMEJO MINERALS CORP.  
 Sample ID.....Well # 1  
 Date sampled.....3-1-90  
 Sampling point.....Produced Water  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....3-7-90

### REMARKS:

\* Cimarron, New Mexico Area

Color:  
 Yellow; cloudy; suspended solids

### DISTRIBUTION

3-Vermejo Minerals Corporation  
 Rte 1 Box 68  
 Cimarron, New Mexico 87714  
 Mr Larry Williamson

### ANALYTICAL DATA

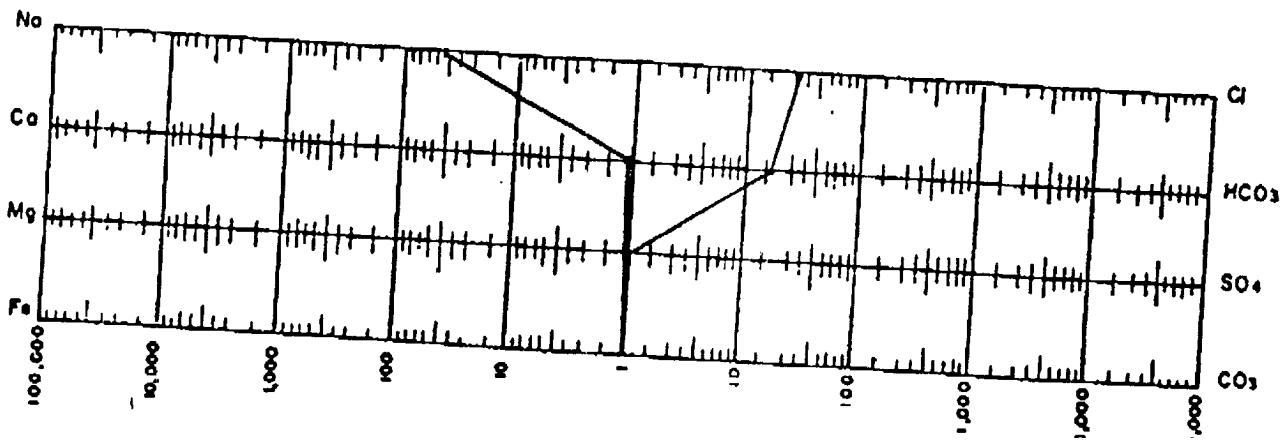
pH.....8.14  
 Specific gravity @ 75 deg. F.....1.0005  
 Resistivity (ohm-cm).....1.98  
 Filterable solids (mg/l).....10.8  
 Carbon dioxide (CO<sub>2</sub>) mg/l.....NA  
 Sulfide (as H<sub>2</sub>S) mg/l.....NA  
 Total hardness (as CaCO<sub>3</sub>) mg/l.....NA

### DISSOLVED SOLIDS

Cations	meq/l	mg/l	ppm
Sodium (Na)	53.7	1235	1234
Calcium (Ca)	.9	18	18
Magnesium (Mg)	.7	9	9
Iron (Fe), total	0	0	0
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
Anions			
Chloride (Cl)	32	1134	1133
Sulfate (SO <sub>4</sub> )	0	0	0
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	23.3	1421	1420
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	110.6	3817	3814

Analysis By: Steve Hopkins

Water Patterns (meq/l)  
 Logarithmic



# LABORATORIES

☐ P. O. BOX 2439

TEL. 806 669-6821

PAMPA, TEXAS 79066-2439

☐ P. O. BOX 3246

TEL. 806 797-4325

LUBBOCK, TEXAS 79452-3246

Attachment C-3

## WATER ANALYSIS

### SAMPLING DATA

Lab #.....0586  
 Customer.....VERMEJO MINERALS CORP.  
 Sample ID.....Well # P  
 Date sampled.....1-30-90  
 Sampling point.....Produced Water  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....2-3-90

### REMARKS:

\* Cimarron, New Mexico Area

Color:  
 Orange W/Suspended Solids

### DISTRIBUTION

3-Vermejo Minerals Corporation  
 Rte 1 Box 68  
 Cimarron, New Mexico 87714  
 Mr Larry Williamson

### ANALYTICAL DATA

pH.....6.37  
 Specific gravity @ 75 deg. F.....1.0141  
 Resistivity (ohm-cm).....31  
 Filterable solids (mg/l).....366  
 Carbon dioxide (CO<sub>2</sub>) mg/l.....NA  
 Sulfide (as H<sub>2</sub>S) mg/l.....NA  
 Total hardness (as CaCO<sub>3</sub>) mg/l.....NA

### DISSOLVED SOLIDS

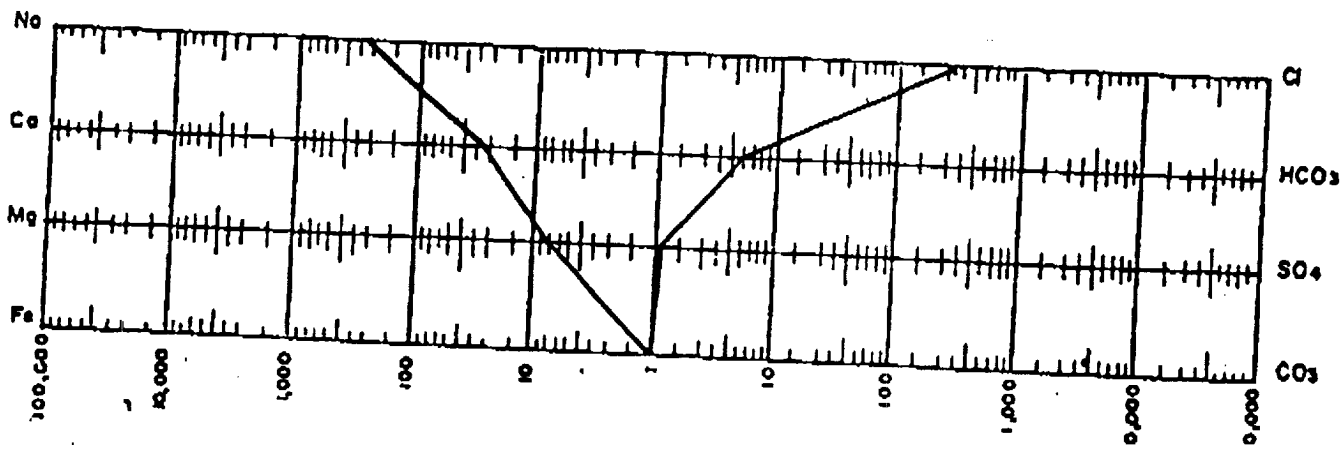
Cations	meq/l	mg/l	ppm
Sodium (Na)	302.2	6948	6851
Calcium (Ca)	32.6	653	644
Magnesium (Mg)	7.6	92	91
Iron (Fe), total	1.1	31	31
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA

### Anions

Chloride (Cl)	337.4	11961	11795
Sulfate (SO <sub>4</sub> )	.1	5	5
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	6	366	361
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	687	20056	19770

Analysis By Steve Hopkins

Water Patterns (meq/l)  
 Logarithmic



Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 3 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

STATE OF NEW MEXICO  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-105  
Revised 1-1-89

WELL API NO. 30-007-20076
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. NA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. Lease Name or Unit Agreement Name  NA
b. Type of Completion: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DRY RESERVE <input type="checkbox"/> OTHER <input type="checkbox"/> P & A		
2. Name of Operator Pennzoil Exploration & Production Company		8. Well No. Eustace #1
3. Address of Operator P.O. Box 2967, Houston, TX 77252		9. Pool name or Wildcat Wildcat
4. Well Location Unit Letter <u>J</u> : <u>2500</u> Feet From The <u>South</u> Line and <u>2300</u> Feet From The <u>East</u> Line Section <u>36</u> Township <u>32 N</u> Range <u>19 E</u> NMPM Colfax County		
10. Date Spudded 4/27/85	11. Date T.D. Reached 5/14/85	12. Date Compl. (Ready to Prod.) 11/15/89
13. Elevations (DP & RKB, RT, GR, etc.) 8069 GR		14. Elev. Casinghead 8071 GR
15. Total Depth 2497	16. Plug Back T.D. 2008	17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools 0-2497 Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 1894-1986 Coal		20. Was Directional Survey Made No
21. Type Electric and Other Logs Run Unknown		22. Was Well Cored Yes

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	327	12 1/4	225 Sacks	0
5 1/2	14	2464	7 7/8	325 sacks foam cement	0

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
1894-1904	1951-1955	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
1920-1922	1963-1970	1894-1986	150,000 sand
1924-1934	1978-1986		
1939-1945			

PRODUCTION

28. Date First Production 11/15/89		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-in) Shut-in	
Date of Test 12/17/89	Hours Tested 24	Choke Size NA	Prod'n For Test Period Oil - Bbl. 0	Gas - MCF 10	Water - Bbl. 244	Gas - Oil Ratio NA	
Flow Tubing Press. NA	Casing Pressure 20	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 10	Water - Bbl. 244	Oil Gravity - API - (Corr.) NA	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented	Test Witnessed By L. D. Williamson
--	---------------------------------------

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature L. D. Williamson Printed Name L. D. Williamson Title Operations Supt. Date 6/01/90

penetrated top of Trinidad

**EUSTACE**  
Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
30-007-20076

5. Indicate Type of Lease  
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name  
NA

8. Well No.  
Eustace #1

9. Pool name or Wildcat  
Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:  
OIL ☐ GAS ☐ OTHER ☐

2. Name of Operator  
Pennzoil Exploration & Production Company

3. Address of Operator  
P.O. Box 2967, Houston, TX 77252

4. Well Location  
Unit Letter J : 2500 Feet From The South Line and 2300 Feet From The East Line  
Section 36 Township 32 N Range 19 E NMPM Colfax County

10. Elevation (Show whether DP, RKB, RT, GR, etc.)  
8069 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

4-20-90 Set CIBP @ 1850'. Set 100' cement plug w/ 12 sks of class A @ 15.6 ppg from 1850' to 1750'. Fill hole with 8.8 ppg Bentonite mud. Set 100' cement plug w/12 sks of class A @ 15.9 ppg from 975 to 875 across known casing leak. Set CIBP @ 850'. Set 50' surface plug and marker w/6 sks class A 15.6 ppg. Location cleared and leveled.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 6/1/90

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. (505) 376-281

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 6-5-90

CONDITIONS OF APPROVAL, IF ANY

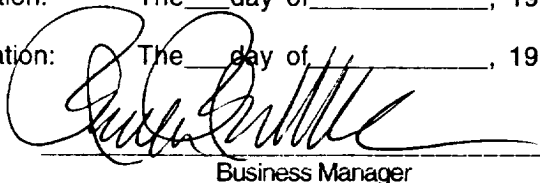
## Attachment D

## Affidavit of Publication

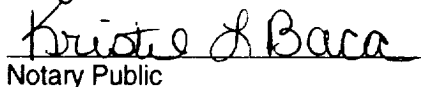
STATE OF NEW MEXICO )  
 ) ss.  
 COUNTY OF COLFAX )

The undersigned, being first duly sworn according to law, on his/her oath deposes and says that he/she is the business manager of the newspaper named "The Raton Range" and that he/she has personal knowledge of the facts stated herein; that the said "The Raton Range" is a twice-weekly newspaper of general paid circulation printed and published in the County of Colfax and State of New Mexico and entered under the Second class postal privilege in said County, and having been uninterruptedly and continuously printed and published in said County during the period of more than six months to the date of publishing of the first issue of the publication next prior or notice concerning which this affidavit is made and a copy of which is hereto attached; that said newspaper is duly qualified for that purpose under the laws of the state of New Mexico; that the publication, a printed copy of which is hereunto attached and made a part of this affidavit, was published in said newspaper once each week for 1 successive weeks, said paid publication having been made on the following dates, to-wit:

First publication: The 2 day of July, 1999  
 Second publication: The \_\_\_ day of \_\_\_, 199\_\_\_  
 Third publication: The \_\_\_ day of \_\_\_, 199\_\_\_  
 Fourth publication: The \_\_\_ day of \_\_\_, 199\_\_\_  
 Fifth publication: The \_\_\_ day of \_\_\_, 199\_\_\_  
 Sixth publication: The \_\_\_ day of \_\_\_, 199\_\_\_

  
 Business Manager

Subscribed and sworn to before me this 15<sup>th</sup>  
 day of July, 1999.

  
 Notary Public



OFFICIAL SEAL  
 KRISTIE L. BACA  
 NOTARY PUBLIC  
 STATE OF NEW MEXICO

MY COMMISSION EXPIRES: Sept 16, 2002

## PUBLISHER'S BILL

50 lines, 8pt. type, 1 Times, 27.00  
1.87 tax  
28.87

**NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT**  
 Sonat Raton, L.L.C., P.O. Box 1513, Houston, TX 77251 is seeking administrative approval from the New Mexico Oil Conservation Division to complete their Vermejo Park Ranch "A" Well #7, as a water disposal well. The well is located in Section 1, T-31-N, R-19-E, Colfax County, New Mexico. The proposed disposal interval is the Entrada Sand from an estimated depth of 6200-6400'. Sonat Raton, L.L.C. intends to inject a maximum of 20,000 bbls of produced formation water per day at a maximum injection pressure of 1240 psi. Interested parties must file objections or request for hearing with the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, NM 87505 within 15 days of this notice. Thank you, Ann E. Ritchie, Regulatory Agent, Sonat Raton, L.L.C., C/o P.O. Box 953 Midland, TX 79702 1-800-432-2967, (915) 682-1458-fax e-mail: Arlic19676@aol.com Legal No. 262399. Published in The Raton Range: July 2, 1999.



### **XIII. Proof of Notice**

Surface Owner:


Vermejo Park, L.L.C.  
P.O. Drawer E  
Raton, NM 87740

Working/Offset & Royalty Owners:

Sonat Raton, L.L.C.  
Sonat Exploration  
P.O. Box 1513  
Houston, TX 77251-1513  
Att: Stephen P. Guerin, P.E.

PennzEnergy, Exp. & Prod., L.L.C.  
P.O. Box 4616  
Houston, TX 77210-4616  
Att: Greg Davis

Copies of the Oil Conservation Division, Form C-108 have been sent to the above stated parties by certified mail on this the 23<sup>rd</sup> day of July, 1999.



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Ann E. Ritchie, Regulatory Agent  
Sonat Raton, L.L.C.  
P.O. Box 190  
Raton, NM 87740