

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]

JUL 26

**[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

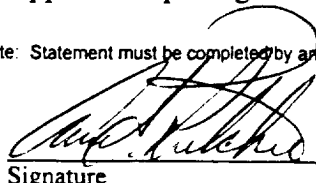
**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or  Does Not Apply**

- [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.

  
 Signature

(915) 6846381  
 Regulatory Agent  
 Title

Ann E. Ritchie  
 Print or Type Name

7-22-99  
 Date

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  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  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> 878 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

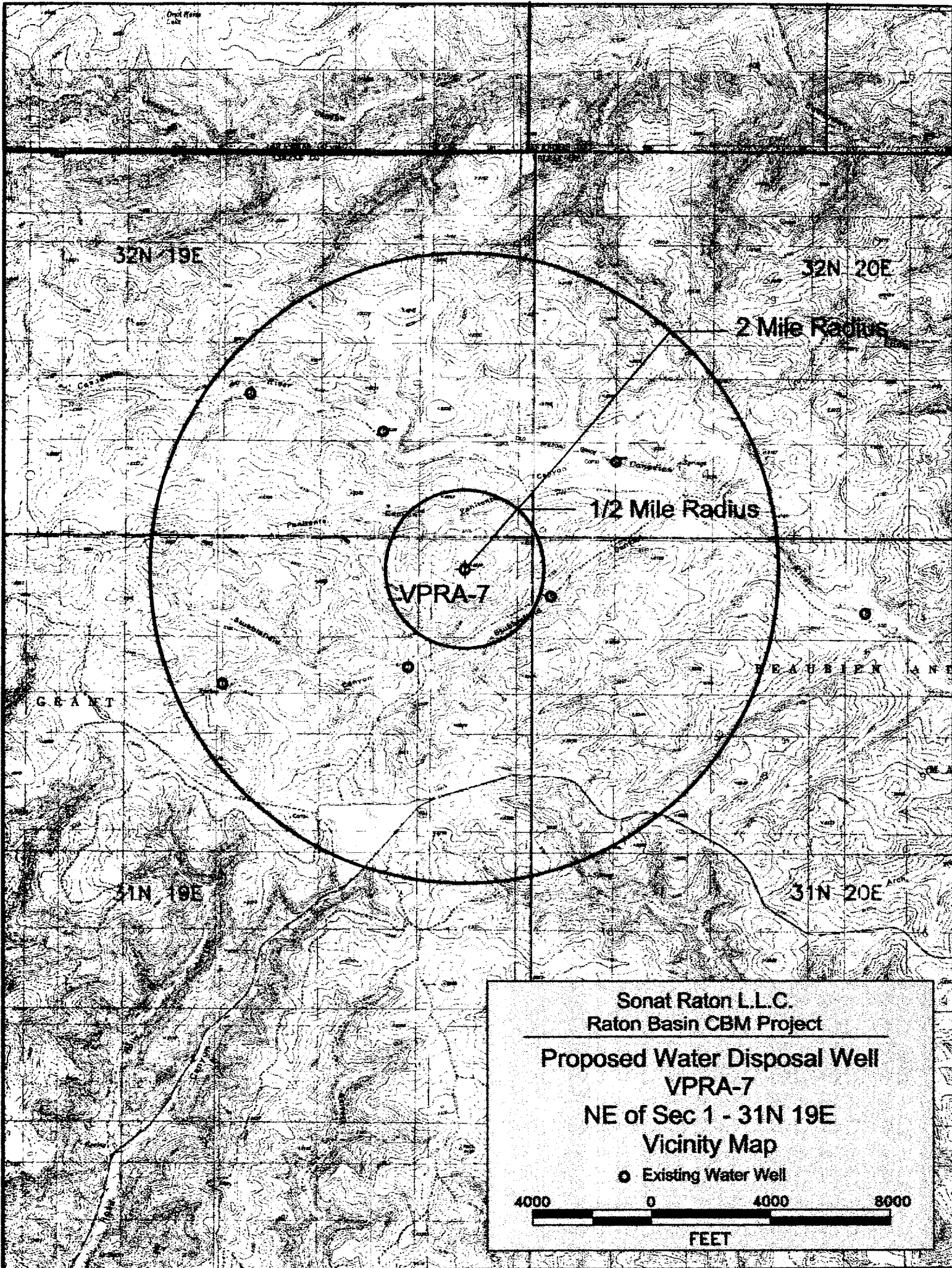
**XII. Statement**

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"**



Sonat Raton L.L.C.  
Raton Basin CBM Project

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Proposed Water Disposal Well  
VPRA-7  
NE of Sec 1 - 31N 19E  
Vicinity Map

○ Existing Water Well

4000 0 4000 8000  
FEET

# 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  
                                   Produced Water  
 Date sampled.....3-1-90  
 Sampling point.....  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....3-7-90

### 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

### REMARKS:

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

### DISSOLVED SOLIDS

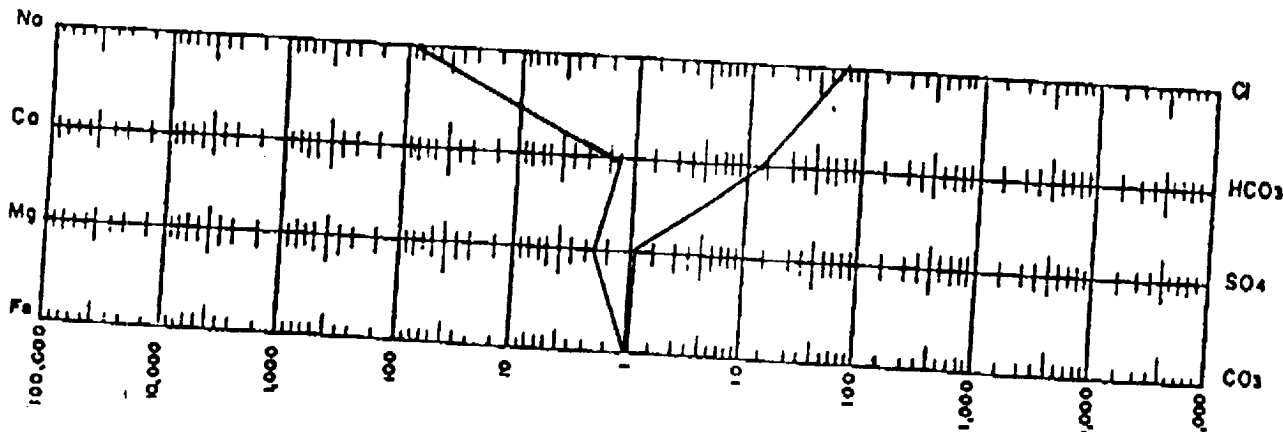
Cations	meq/l	mg/l	ppm
Sodium (Na)	85.4	1963	1957
Calcium (Ca)	1.5	30	30
Magnesium (Mg)	2.5	30	30
Iron (Fe), total	.7	20	20
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
<b>Anions</b>			
Chloride (Cl)	71.2	2524	2516
Sulfate (SO <sub>4</sub> )	0	0	0
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	18.9	1153	1149
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	180.2	5720	5702

### DISTRIBUTION

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

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  
                       Produced Water  
 Date sampled.....3-1-90  
 Sampling point.....  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....3-7-90

### 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

### REMARKS:

\* Cimarron, New Mexico Area

Color:  
 Yellow; cloudy; suspended solids

### DISSOLVED SOLIDS

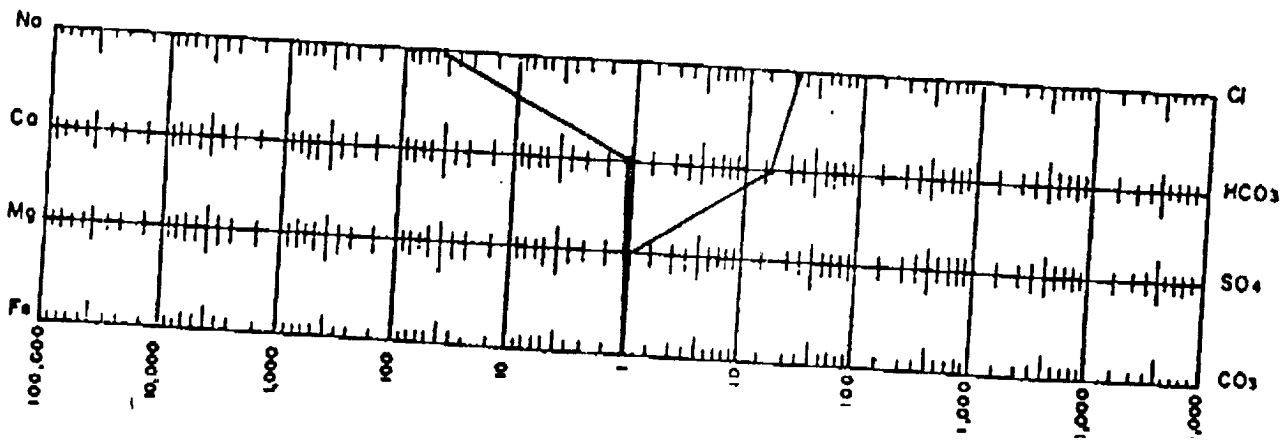
Cations	mg/l		ppm
	mg/l	ppm	
Sodium (Na)	53.7	1235	1234
Calcium (Ca)	.9	18	18
Magnesium (Mg)	.7	.9	9
Iron (Fe), total	0	0	0
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
Anions			
Chloride (Cl)	32	1134	1133
Sulfate (SO <sub>4</sub> )	0	0	0
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub>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

### DISTRIBUTION

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

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  
                     Produced Water  
 Date sampled.....1-30-90  
 Sampling point.....  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....2-3-90

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

REMARKS:

# Cimarron, New Mexico Area

Color:  
 Orange w/Suspended Solids

DISSOLVED SOLIDS

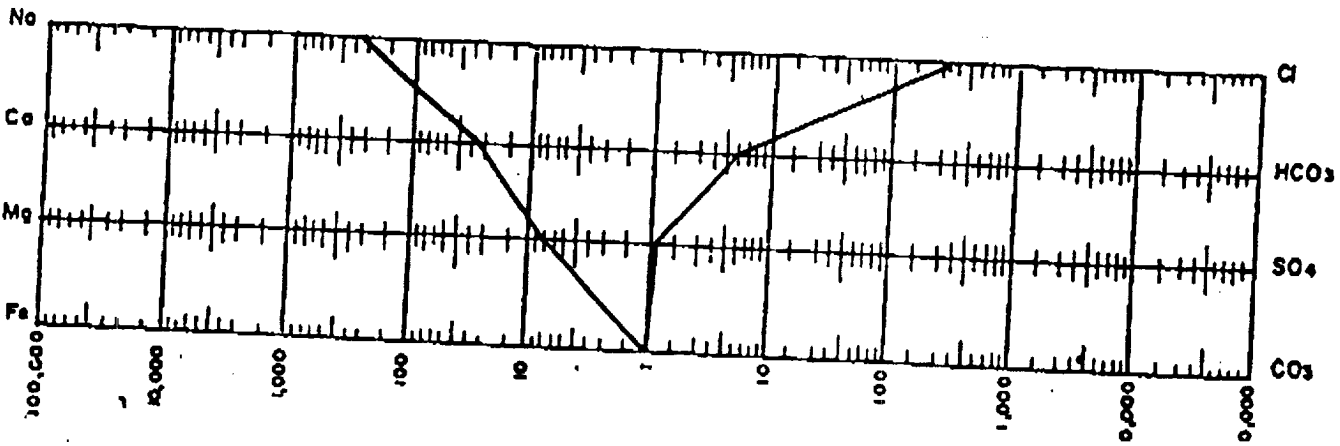
Cations	mg/l		ppm
	meq/l		
Sodium (Na)	302.2	6948	6851
Calcium (Ca)	32.6	653	644
Magnesium (Mg)	7.6	92	91
Iron (Fe), total	1.1	31	31
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
<u>Anions</u>			
Chloride (Cl)	337.4	11961	11795
Sulfate (SO <sub>4</sub> )	.1	5	5
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	6	366	361
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	687	20056	19770

DISTRIBUTION

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

Analysis By Steve Hopkins

Water Patterns (meq/l)  
 Logarithmic



Submit to Appropriate District Office  
 State Lease - 6 copies  
 Fee Lease - 5 copies  
**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

STATE OF NEW MEXICO  
 Energy, Minerals and Natural Resources Department

Form C-105  
 Revised 1-1-89

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

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

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

WELL API NO.  
 30-007-20076

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.  
 NA

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well:  
 OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. Type of Completion:  
 NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESERV.  OTHER P & A

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

5. Date Spudded 4/27/85 11. Date T.D. Reached 5/14/85 12. Date Compl. (Ready to Prod.) 11/15/89 13. Elevations (DF & 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

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DATE	INTERVAL	SIZE	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
1894-1904	1951-1955			
1920-1922	1963-1970	4 SPF	1894-1986	150,000 sand
1924-1934	1978-1986			
1939-1945				

**28. PRODUCTION**

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

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

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

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

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

WELL API NO.  
 30-007-20076

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

**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.)

7. Lease Name or Unit Agreement Name  
 NA

1. Type of Well:  
 OIL WELL  GAS WELL  OTHER

8. Well No.  
 Eustace #1

2. Name of Operator  
 Pennzoil Exploration & Production Company

9. Pool name or Wildcat  
 Wildcat

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

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\_\_

[Signature]
Business Manager

Subscribed and sworn to before me this 15th day of July, 1999.

[Signature]
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: Arf1c19676@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