

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

NM Roswell District

Modified Form No.

NM60-3160-4

5. LEASE DESIGNATION AND SERIAL NO.

NM-27805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Lechuza Federal

9. WELL NO.

#3

10. FIELD AND POOL, OR WILDCAT

Livingston Ridge Delaware East

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 15-22S-32E

12. COUNTY OR PARISH 13. STATE

Lea

NM

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—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Strata Production Company

3a. Area Code & Phone No.

505-622-1127

3. ADDRESS OF OPERATOR

P. O. Box 1030, Roswell, New Mexico 88202-1030

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface

660' FSL & 2310' FEL

14. PERMIT NO.

30-025-31753

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3704' GR

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

NTL-2B Approval

X

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROMISED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*

In response to your letter dated February 4, 1993 regarding the NTL-2B approval, please review the following:

- a) Produces from the Delaware formation.
- b) Produces approximately 227 bbls water per day.
- c) Water analysis attached.
- d) Produced water is moved via 3" poly pipe to the Gilmore Federal #1 SWD. Water is not stored on location.
- e) Gilmore Federal #1 SWD is operated by Strata Production Company and is located 1980' FSL & 660' FEL in Section 21, Township 22 South, Range 32 East, Lea County. SWD-470.
- f) No pits on location.
- g) SWD-470.

18. I hereby certify that the foregoing is true and correct

SIGNED Carol J. Garcia

TITLE Production Supervisor

DATE 3/12/93

(This space for Federal or State office use)

APPROVED BY (ORIG. SCD.) JOE G. LARA

TITLE Production Supervisor

DATE 4/30/97

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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OCD HOBBS  
OFFICE

# TRETOLITE

## Chemicals and Services



16010 Barker's Point Lane • Houston, Texas 77079  
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF  
Artesia, New Mexico 88210  
(505) 746-3588 Phone  
(505) 746-3580 Fax

### WATER ANALYSIS REPORT

Company : STRATA  
Address : ARTESIA, NEW MEXICO  
Lease : LECHUZA FEDERAL  
Well : #3  
Sample Pt. : WELLHEAD

Date : 02/10/93  
Date Sampled : 02/02/93  
Analysis No. : 248

ANALYSIS		mg/L	* meq/L
-----		----	-----
1.	pH	6.7	
2.	H2S	10 PPM	
3.	Specific Gravity	1.075	
4.	Total Dissolved Solids	114238.3	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO2	260 PPM	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO3)		
10.	Methyl Orange Alkalinity (CaCO3)	410.0	
11.	Bicarbonate	HCO3 500.2	HCO3 8.2
12.	Chloride	Cl 73131.0	Cl 2062.9
13.	Sulfate	SO4 350.0	SO4 7.3
14.	Calcium	Ca 19639.2	Ca 980.0
15.	Magnesium	Mg 5421.1	Mg 446.0
16.	Sodium (calculated)	Na 14999.2	Na 652.4
17.	Iron	Fe 197.5	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	71364.2	

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound      Equiv wt X meq/L      =      mg/L			
+-----+				-----			
980	*Ca <-----	*HCO3	8	Ca(HCO3)2	81.0	8.2	665
-----	/----->		-----	CaSO4	68.1	7.3	496
446	*Mg ----->	*SO4	7	CaCl2	55.5	964.5	53521
-----	<----->	/	-----	Mg(HCO3)2	73.2		
652	*Na ----->	*Cl	2063	MgSO4	60.2		
+-----+				MgCl2	47.6	446.0	21232
Saturation Values Dist. Water 20 C				NaHCO3	84.0		
CaCO3                                      13 mg/L				Na2SO4	71.0		
CaSO4 * 2H2O                              2090 mg/L				NaCl	58.4	652.4	38128
BaSO4                                        2.4 mg/L							

#### REMARKS:

----- D. CANADA / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
ROZANNE JOHNSON

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OGG ROBB  
OFFICE

PETROLITE

SCALE TENDENCY REPORT  
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Company	: STRATA	Date	: 02/10/93
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 02/02/93
Lease	: LECHUZA FEDERAL	Analysis No.	: 248
Well	: #3	Analyst	: ROZANNE JOHNSON
Sample Pt.	: WELLHEAD		

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO3 Scaling Tendency

S.I. = 1.4 at 60 deg. F or 16 deg. C  
S.I. = 1.5 at 80 deg. F or 27 deg. C  
S.I. = 1.5 at 100 deg. F or 38 deg. C  
S.I. = 1.6 at 120 deg. F or 49 deg. C  
S.I. = 1.7 at 140 deg. F or 60 deg. C

\*\*\*\*\*

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS  
(Skillman-McDonald-Stiff Method)  
Calcium Sulfate

S = 779 at 60 deg. F or 16 deg C  
S = 866 at 80 deg. F or 27 deg C  
S = 923 at 100 deg. F or 38 deg C  
S = 950 at 120 deg. F or 49 deg C  
S = 969 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
ROZANNE JOHNSON

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Disposal of Produced Water From Federal Wells  
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. That this agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of NTL-2B.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks shall be covered with a wire screen to prevent entry by birds and other wildlife.
7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
8. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.

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