

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N. M. Oil Cons. Commission
P. O. BOX 1900
HOBBS, NEW MEXICO 88202
CONTACT RECEIVING
OFFICE FOR MESSAGES
OF COPIES REQUIRED
(Other instructions on reverse side)

RM Roswell District
Modified Form No.
NM60-3160-4

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-27805	
2. NAME OF OPERATOR Strata Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1030, Roswell, New Mexico 88202-1030		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit F 2310' FNL & 1650' FWL		8. FARM OR LEASE NAME Paisano Federal	
14. PERMIT NO. 30-025-31615 ✓		9. WELL NO. #2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3758' GR		10. FIELD AND POOL, OR WILDCAT East Livingston Ridge Delaware	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 15-22S-32E	
		12. COUNTY OR PARISH Lea	
		13. STATE NM	

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 PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

NTL-2B Approval

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. DESCRIBE PROPOSED 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 pertinent 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 110 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. Signed by Adam Salameh

TITLE PETROLEUM ENGINEER

DATE 4-19-93

CONDITIONS OF APPROVAL, IF ANY:

ATTACHED

*See Instructions on Reverse Side

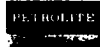
Disposal of Produced Water From Federal Wells
Conditions of Approval

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.

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 PRODUCTION
Address : ARTESIA, NEW MEXICO
Lease : PAISANO FEDERAL
Well : #2
Sample Pt. : WELLHEAD

Date : 11/25/92
Date Sampled : 11/20/92
Analysis No. : 2823

ANALYSIS		mg/L	* meq/L
-----		----	-----
1.	pH	5.6	
2.	H2S	4 PPM	
3.	Specific Gravity	1.190	
4.	Total Dissolved Solids	301454.9	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO2	100 PPM	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO3)		
10.	Methyl Orange Alkalinity (CaCO3)	40.0	
11.	Bicarbonate	HCO3 48.8	HCO3 0.8
12.	Chloride	Cl 188497.2	Cl 5317.3
13.	Sulfate	SO4 52.5	SO4 1.1
14.	Calcium	Ca 26773.4	Ca 1336.0
15.	Magnesium	Mg 6194.2	Mg 509.6
16.	Sodium (calculated)	Na 79857.2	Na 3473.6
17.	Iron	Fe 31.5	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	92363.1	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
1336 *Ca <----- *HCO3	Ca(HCO3)2	81.0	0.8	65
----- /----->	CaSO4	68.1	1.1	74
510 *Mg -----> *SO4	CaCl2	55.5	1334.1	74030
----- <----- /	Mg(HCO3)2	73.2		
3474 *Na -----> *Cl	MgSO4	60.2		
----- +-----+	MgCl2	47.6	509.6	24260
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	3473.6	202995
BaSO4 2.4 mg/L				

REMARKS

----- D. CANADA / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SHELIA DEARMAN

PETROLITE

SCALE TENDENCY REPORT

Company	: STRATA PRODUCTION	Date	: 11/25/92
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 11/20/92
Lease	: PAISANO FEDERAL	Analysis No.	: 2823
Well	: #2	Analyst	: SHELIA DEARMAN
Sample Pt.	: WELLHEAD		

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

S.I. =	-0.2	at	60 deg. F	or	16 deg. C
S.I. =	-0.2	at	80 deg. F	or	27 deg. C
S.I. =	-0.2	at	100 deg. F	or	38 deg. C
S.I. =	-0.3	at	120 deg. F	or	49 deg. C
S.I. =	-0.3	at	140 deg. F	or	60 deg. C

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

S =	431	at	60 deg. F	or	16 deg C
S =	480	at	80 deg. F	or	27 deg C
S =	510	at	100 deg. F	or	38 deg C
S =	522	at	120 deg. F	or	49 deg C
S =	530	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SHELIA DEARMAN