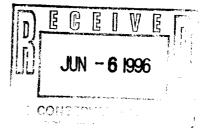


€35 TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

May 20, 1996

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088



Re: Proposed Water Disposal Well

Stivason Federal #1 330' FNL & 330' FEL Section 33-19S-34E Lea County, New Mexico

#### Gentlemen:

Strata Production Company proposes converting the captioned well for water disposal into the Queen formation. The well will be used to dispose of produced water from the Queen formation in the Pearl Queen field. Please find enclosed the following data pertinent to our application:

- 1. Form C-108 with attached information.
- 2. Area of Review Plat.
- Wellbore Diagram Stivason Federal #1.
- 4. Proposed Wellbore Diagram Stivason Federal #1.
- 5. Logs of proposed disposal zone Stivason Federal #1.
- 6. Copies of public notice.
- 7. Copies of notices to surface owner and offset operators.
- 8. Water Analysis.

Should you have any questions regarding this matter, please contact this office.

Sincerely,

STRATA PRODUCTION COMPANY

Carol J. Garcia

**Production Records Manager** 

CJG:ms Enclosures

CHE	CKLIST for AD	MINIST	RATIVE	NJECTION	APPLICA	TIONS	
Operator: $\sqrt{7}$	RATA PRODUCTION	CORP.	Well: $\int_{\mathcal{L}}$	INASON FER	DERAC K	20.1	
Contact: FRA	NK MORGAN	Title:	V. P.		_ Phone:	505-677.	1127
	<u>6696</u> R		•				
Proposed Injec	ction Application is	s for:	_ WATER	FLOOD	Expar	nsion	Initial
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SENSIT	IVE AREAS		SALT W	ATER DISPO	SAL	_ Commercia	al Well
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	ete for proposed v	vell(s)? <i>91</i>	<u>∕</u> Addit	ional Data Re	q'd	<del></del>	
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	: Telephoned						

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#### **OIL CONSERVATION DIVISION**

POST DIFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501 FORM C-108 Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yyes no
II.	Operator: Strata Production Company
	Address: P.O. Box 1030, Roswell, New Mexico 88202-1030
	Contact party: Frank S. Morgan, Vice President Phone: 505-622-1127
111.	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?   If yes, give the Division order number authorizing the project
٧.	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 penctrate 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;
    - Whether the system is open or closed; 2.

    - Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with 4. 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 geological data on the injection zone including appropriate lithologic detail, geological 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 source known to be immediately underlying the injection interval.
  - IX. Describe the proposed stimulation program, if any.
- Attach appropriate logging and test data on the well. (If well logs have been filed Х. with the Division they need not be resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. 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 source of drinking water.
- Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII.
- 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:	Frank S. Morgan	Title	Vice President/Operations
Signat	ure: Frand Ming	Date	: February 29, 1996

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Refer to Stivason Federal #3 SWD-420 application dated

April 3, 1991

#### 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 heed 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, i∱ 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 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, P. O. Box 2088, Santa Fe, New Mexico 87501 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.

#### **ANSWERS TO FORM C-108:**

- III. See attached well diagram.
- IV. No.
- V. See attached plat. There are eleven (11) wells within the area of review.
- VI. Proposed Injection Well:

Stivason Federal #1: Located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 6/1/84. TD 5207'. Set 8 5/8" 24# casing at 1535' with 600 sacks cement. Set 4 1/2" 10 .5# casing at 5207' with 600 sacks cement. Set 1" tubing in annulus between 8 5/8" casing and 4 1/2" casing. Circulated cement from base of 8 5/8" casing to surface with 300 sacks cement. Perforated 5022'-5028'. Acidize with 500 gallons 7 1/2% acid. Frac with 16,000 gallons gel water and 18,000# 20/40 sand. Perforated 4511'-4532'. Acidize with 500 gallons 7 1/2% acid. Frac with 20,000 gallons 30# gel KCL and 24,500# 20/40 sand. Set bridge plug and perforated 3908'-4100'. Acidized with 3500 gallons 7 1/2% DS-30 acid. Produced from the Seven Rivers formation. Squeezed 3098'-4100' with 250 sacks cement. Produced from the Queen formation. Current status Shut-in.

#### Off-Set Wells in Area of Review:

Stivason Federal #3: Located 330' FNL and 1650' FEL of Section 33, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 12/15/85. TD 4630'. Set 8 5/8" 24# casing at 1597' with 550 sacks cement. Circulated 25 sacks to pit. Set 5 1/2" 15.5# casing at 4630' with 375 sacks cement. Perforated 4291'-4294' and 4092'-4108'. Squeezed perfs with 75 sacks cement. Perforated 3926'-3932'. Squeezed perfs with 75 sacks cement. Perforated Queen 4527'-4536'. Set CIBP at 4500' with 35' cement on top. Perforated 3901'-3908'. Produced from Seven Rivers 3901'-3908'. Squeezed with 150 sacks cement. Drilled out cement and CIBP. Perforated 4546'-4556'. Acidize with 3000 gallons 15% NEFE. Converted to SWD.

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Stivason Federal #2: Located 330' FSL and 1650' FEL of Section 28, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 12/20/84. TD 4610'. Set 8 5/8" 24# casing at 1562' with 550 sacks cement. Circulated 50 sacks to pit. Set 5 1/2" 14.8# casing at 4610' with 450 sacks cement. Perforated 4523'-4531'. Acidize with 350 gallons 7 1/2% acid. Produced from the Queen formation. Current status Shut-in. Plan to Plug and Abandon.

Stivason Federal #4: Located 660' FSL and 760' FEL of Section 28, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 6/13/89. TD 5125'. Set 8 5/8" 23# casing at 1330' with 650 sacks cement. Set 5 1/2" 15.5# casing at 5125' with 550 sacks cement. Perforated 4668-4469', 4804'-4805', 4851'-4861' and 4508'-4831'. Acidize with 2700 gallons 15% acid. Frac with 30,000 gallons gel and 59,000# sand. Current status Producing.

Stivason Federal #5: Located 660' FSL and 550' FWL of Section 27, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 11/5/89. TD 5115'. Set 8 5/8" 24# casing at 1318' with 600 sacks cement. Circulated 175 sacks cement to pit. Set 5 1/2" 15.5# casing at 5115' with 830 sacks cement. Perforated 4794'-4844'. Acidize with 1200 gallons 7 1/2% acid. Frac with 40,000 gallons gel and 70,000# sand. Perforated 4518'-4537'. Acidize with 2,000 gallons 7 1/2% acid. Frac with 35,000 gallons gel and 50,000# 20/40 sand. Current status Producing.

Sun Pearl Federal #1: Located 1650' FSL and 1650' FEL of Section 28, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 6/2/89. TD 5152'. Set 8 5/8" 23# casing at 1342' with 700 sacks cement. Set 4 1/2" casing at 5150' with 1600 sacks cement. Perforated 5070'-5080'. Acidize with 1000 gallons 15% acid. Frac with 29,500# sand. Perforated 4844'-4846', 4795'-4797', 4505'-4517' and 4525'-4532'. Current status Producing.

Sun Pearl Federal #2: Located 1850' FSL and 550' FEL of Section 28, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 11/17/89. TD 5153'. Set 8 5/8" 23# casing at 1359' with 400 sacks cement. Set 5 1/2" casing at 5153' with 1100 sacks cement. Perforated 4782'-4788', 4829'-4835', 4520'-4530' and 4535'-4540'. Acidize with 800 gallons 15% acid. Frac with 300,000 gallons gel and 45,000# 20/40 sand and 20,000# 16/30 sand. Current status Producing.

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West Pearl Federal #1: Located 1980' FSL and 660' FWL of Section 27, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 4/5/91. TD 5300'. Set 8 5/8" casing at 1310' with 700 sacks cement. Set 5 1/2" casing at 5300' with 1075 sacks cement. Perforated 4670'-4673'. Acidize with 1000 gallons 15% acid. Perforated 4784'-4945'. Acidize with 7000 gallons 15% acid. Frac with 50,000 gallons gel and 116,000# sand. Perforated 4515'-4541'. Acidize with 4,000 gallons 15% acid. Squeezed perfs with 100 sacks cement. Produced from Queen formation. Set RBP at 4400'. Perforated 3884'-3989'. Acidize with 5,000 gallons 7 1/2% acid. Frac with 25,000 gallons gel and 53,000# sand. Current status Producing.

Mallon "34" Federal #1: Located 660' FNL and 990' FWL of Section 34, Township 19 South, Range 34 East, Lea County, New Mexico. Spud 8/3/94. TD 6306'. Set 9 5/8" casing at 1501' with 950 sacks cement. Set 5 1/2" casing at 6306' with 1410 sacks cement. Perforated 5094'-5138'. Frac with 2000 gallons gel and 54,500# sand. Produced from Grayburg formation. Squeezed perfs with 157 sacks cement. 8/20/95 convert to SWD. Perforated 6180'-6260'. Acidize with 3000 gallons 15% acid. Frac with 24,000# sand. Current status SWD.

VII/VIII. Injection Zone/Procedure

Zone to be Injected:

4511'-5028'

Cased hole

This interval produces oil in the vicinity. The sandstone to be injected in to is down dip from oil-water contact.

TYPE INJECTION SYSTEM:

Closed

PROPOSED DAILY INJECTION RATE:

350 barrels initial (1 BPM)

MAXIMUM DAILY INJECTION RATE:

650 barrels (1.5 BPM)

**AVERAGE INJECTION PRESSURE:** 

650 psi Estimated

**MAXIMUM INJECTION PRESSURE:** 

880 psi

Water Compatibility: The water to be injected will initially be produced from adjacent Strata and Manzano operated wells producing from the Queen and Penrose sandstone. Currently the field produces approximately 110 BOPD and 190 BWPD. No additional drilling or workovers in the Queen formation are scheduled at this time.

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- IX. Stimulation Program: Inject 2500 gallons 15% NEFE in zone, if necessary.
- X. See attached log showing open-hole.
- XI. Water Analysis attached.
- XII. Strata Production Company has examined all available geologic and engineering data in this area and finds no evidence of open faults or other hydrologic connections between the disposal zone and any potable aquifers.

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STR. 'RODUCTION COMPANY STIVASON FEDERAL #1 330' FNL & 330' FEL SECTION 33-T19S-R34E LEA COUNTY, NEW MEXICO LEASE No.: NM-57285

SPUD DATE: 5/31/84

I" ANNULUS BETWEEN 4 1/2" & 8 5/8" CASING W/300 SX PACESETTER LITE

8 5/8" - 24 #/FT., J-55, @ 1533"

CMT. W/ 400 SX PACESETTER LITE & 200 SX CLASS "C" W/ 2% CACL, CIRC. 160 SX.

APPROX. T.O.C. @ 2700

3906, 7 8 9 10, 11, 12, 13, & 14

4010, 11, 12, 19, 20, 21, 22, 23, 24, & 25; 4095-4100\*

4511, 12, 13, 14, 28, 29, 30, 31 & 32

5022, 23, 21, 25, 26, 27, & 28

4 1/2" 10.5 LB./FT. 1-55 ST.R.C @ 5200" CMT. W/600 SX CLASS "C" 3% CACL

RUSTLER @ 1684' SALT @ 1774'

TANSILL @ 3310

YATES @ 3500

SEVEN RIVERS @ 3807

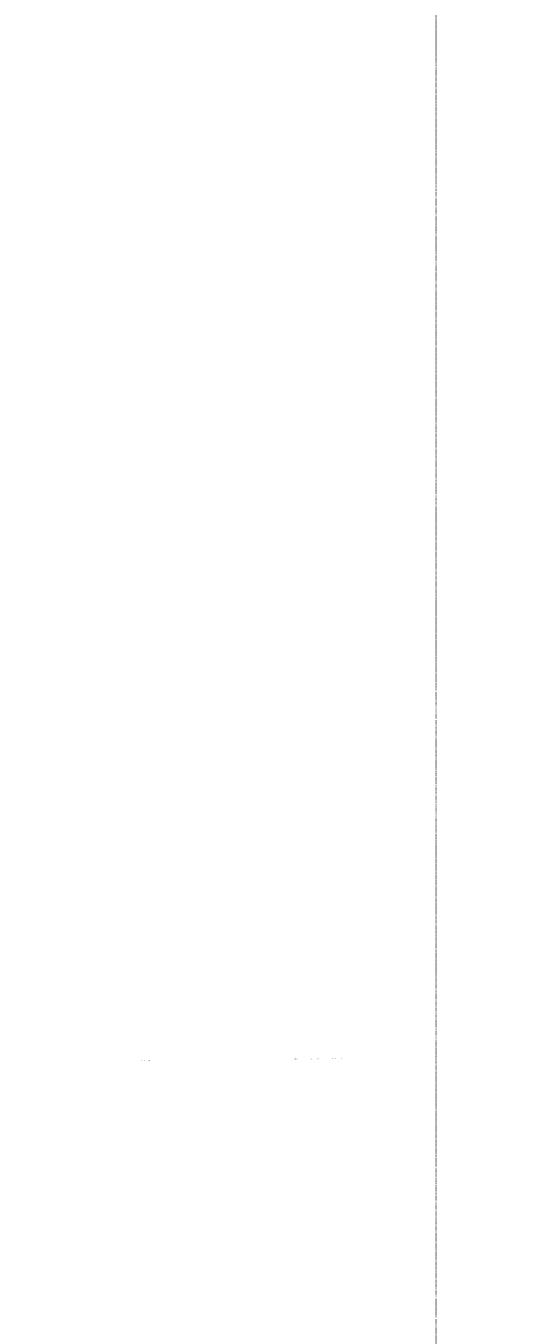
QUEEN @ 4483"

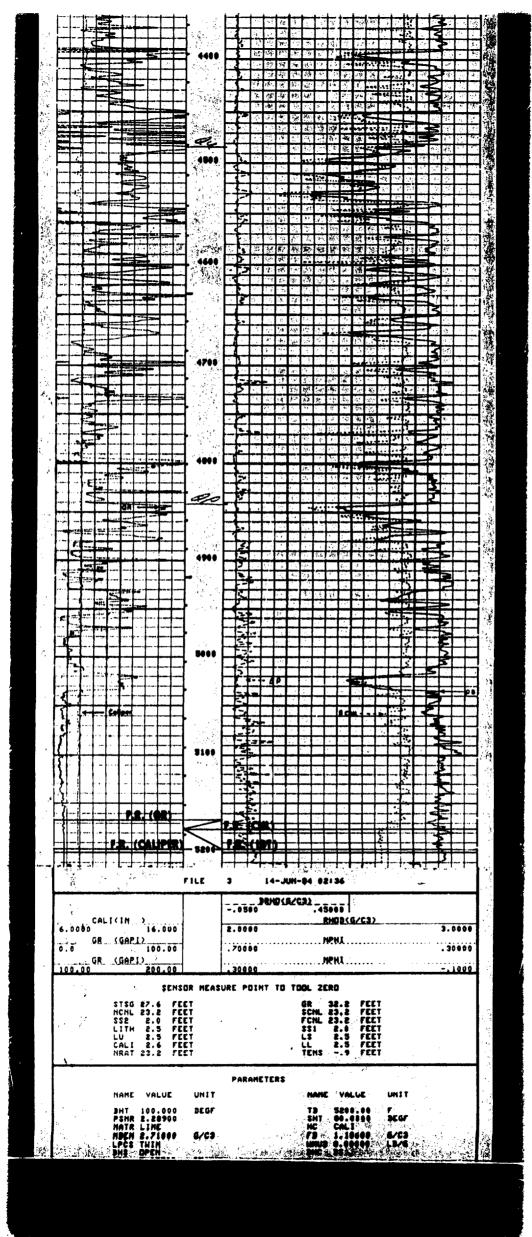
PENROSE @ 4796'

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Strata Prod	uction Company	Stivason Federal		
#1 WELL NO.	330' FNL & 330' FEL	33 SLCTION	198 TOWNSHTP	34E RANGE
Sche	mntic	<u>1</u>	abular Data	
		Surface Casing Size 8 5/8 TOC Circulated Hole size 12 1/	feet determined by	
		Intermediate Casing Size TOC Hole size	feet determined by	
		Long string  Size 4 1/2  TOC 3504  Hole size 7 7/	feet determined by	
Cement top		Injection interval  4511 feet (perforated or open-h		feet
Squeeze perfs 3908'-3914' 4010'-4025' 4095'-4100'	250 Dri 150	neeze with: 0 sx Class "C" cement. 11 out and test to 10# for 15 minutes. decrease in pressure.		
	ed Mylar Tension 4 1/2	pocker	crial)	set in a
Other Data 1. Name of	e any other casing-tubin the injection formation field or Pool (if appli	Queen		· .
If no,	a new well drilled for for what purpose was the ed for oil and gas reserved to the second sec	e well originally drille		
and giv	o plugging detail (aacka am.	s of cement or bridge pl	lug(a) uand) Yes,	as indicated on
	ne depth to and name of a		derlyimy oil or gas	zones (pools) in





#### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

-
I, Kathi Bearden
Publisher
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of
1 weeks.
Beginning with the issue dated
<u>March 7</u> , 1996
and ending with the issue dated
<u>March 7</u> ,1996
Buth Bourde
Publisher Sworn and subscribed to before
me this day of
Molary Public. (1996
Motani Public (1)
notal prublic. ( W
My Commission expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

March 24, 1998

(Seal)

#### LEGAL NOTICE March 7, 1996 PUBLIC NOTICE APPLICATION FOR WATER DISPOSAL

Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, (Contact: Frank S. Morgan, 505-622-1127), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administra-tive Approval and authority to inject salt water into the Stivason Federal #1 well located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico.

The purpose of the water injection well is to dispose of salt water produced from the producing Queen and Penrose formations as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

Water to be disposed will be injected into the Upper Queen formation at an interval between 4511 feet to 5028 feet beneath the surface.

The minimum injection rate is expected to be approximately 350 barrels of water per day. The maximum injection rate is expected to be approximately 650 barrels of water per day.

Minimum injection pressure is expected to be approximately 650 PSI. The maximum injection pressure is expected to be approximately 880 PSI.

Any interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date of publication. STRATA PRODUCTION

COMPANY By: Carol J. Garcia P. O. Box 1030 Roswell, New Mexico 88202-1030 Telephone 505-622-1127 #14427

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STRATA PRODUCTION COMPANY

TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

March 4, 1996

Hobbs Daily Sun P. O. Box 860 Hobbs, New Mexico 88241-0860

Re: Legal Publications

#### Gentlemen:

Enclosed herewith please find a Legal Notice to be published in your newspaper at the earliest possible date.

Please publish the notice one (1) time only and forward an Affidavit of Publication along with your invoice to:

Strata Production Company ATTN: Carol J. Garcia P. O. Box 1030 Roswell, New Mexico 88202-1030

Should you have any questions regarding this matter, please contact this office. Thank you for your cooperation.

Sincerely,

STRATA PRODUCTION COMPANY

Carol J. Garcia

**Production Records Manager** 

CJG:ms Enclosure

#### **PUBLIC NOTICE**

#### APPLICATION FOR WATER DISPOSAL

Strata Production Company, P. O. Box 1030, Roswell, New Mexico 88202-1030, (Contact: Frank S. Morgan, 505-622-1127), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the Stivason Federal #1 well located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, NMPM, Lea County, New Mexico.

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STRATA PRODUCTION COMPANY

Carol J. Garcia

P. O. Box 1030

Roswell, New Mexico 88202-1030

Telephone 505-622-1127

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Form 3160-5 (JUNE 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND AMANGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to despen or rearrily to a different reservoir.  Use 'APPLICATION FOR PERMIT - for such proposals  SUBMIT IN TRIPLICATE  7. If Unit or CA. Agreement Designation  ON Gest Other  SUBMIT IN TRIPLICATE  7. If Unit or CA. Agreement Designation  SUBMIT IN TRIPLICATE  9. ART Wall No.  SUBMIT IN TRIPLICATE  9. ART Wall No.  SUBMIT IN TRIPLICATE  9. ART Wall No.  SUBMIT IN TRIPLICATE  9. ART W	<b>50</b> 1. <b></b> 1.5		5. Lease Designation and Serial No.
Do not use this form for proposals to drill or to deepen or reently to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals    Type of well	SUNDRY NOTIC	ES AND REPORTS ON WELLS	
Submit In TRIPLICATE   7. If Unit or CA, Agreement Designation   1. Type of Well   Well   Well   Other   8. Well Name and No.   Silvasson Fockeral #1   9. ART Well   Well   Well   Well   Well   Other   8. Well Name and No.   Silvasson Fockeral #1   9. ART Well   Mell   Well   9. ART Well   9.			
Type of Well   Gras   Color	• •		l and any a motion of Those Name
Type of View   Color   Strata Production COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION COMPANY   Strata Production STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION STRATA PRODUCTION Strata Production Production Strata Production Production Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.    Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.    Strata Production Company requests approval to Change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.    Strata Production Company requests approval to Change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.    Strata Production Company requests approval to Change plans from plugging and abandoning well to converting to water disposal processed. A copy of said Application is attached.			
State   Companies   State   Content   State   State   Content   State		SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
2. Name of Operator  STRATA PRODUCTION COMPANY  3. Address and Telephone No. P. O. Box 1030  3. Address and Telephone No. P. O. Box 1030  3. Address and Telephone No. P. O. Box 1030  3. Address and Telephone No. P. O. Box 1030  4. Location of Well (Footage, Sec., T. R. M., or Survey Description)  Strata Production Annual Production Records Manager  2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  Notice of Intent  Advantagement  Recompletion  Recom			·
STRATA PRODUCTION COMPANY  3. Address and Tetephone No. P.O. Box 1030  Roswell, New Mexico 88202—1030  3. Decities of Well (Footage, Sec., T. R. M. or Survey Description)  3. O25—28745  10. Field and Prod, or Exploratory Area  Pearl Queen  11. Country or Parish, State  Lea Country, New Mexico  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  X. Notice of Interest  Recompletion  Recompletion  Plugging Book  Altering Casing  Countries and Teteroring  Water Sher-Off  Casing Repair  Altering Casing  Countries Interest of Interest of Interest and zones pertinent dates, including estimated date of starting any proposed work. If well is directionally directionally directionally capital and zones pertinent to Inhia work.)*  Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.  14. I hereby ceptiff that the foregoing is June and correct  Signed CAAA  Title Production Records Manager  Date  Date  Online Specific Proposed or State office use)  Approved by  Title  Date	X Well Other		8. Well Name and No.
3. Address and Telephone No. P.O. Box 1030 Roswell, New Mexico 88202—1030 S05—622—1127 10. Field and Pool, or Exploratory Area Peage (Company) Roswell (Footage, See, T. R. M. or Survey Decription) 330 FNL 8 330 FEL 911. County or Partial, State Lea County, New Mexico 11. County or Partial, State Lea County, New Mexico 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 177E OF SUBMISSION 177E OF SUBMISSION 177E OF ACTION  X Notice of fatest Abundonment Recompletion Non-Routine Facturing New Construction Subsequent Report Plugging Back Non-Routine Facturing Casing Conversion to Injection Altering Casing Conversion to Injection Of THER 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent date, including estimated date of starring, any proposed work. If well is directionally defaulted, give instanced and less vertical depths for all markets and control pertinent to this work.)  Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.  14. Incretive cepts that the foregoing is proved or converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.  14. Incretive cepts that the foregoing is proved or converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.  14. Incretive cepts that the foregoing is proved and correct Supposed or Converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.		OTION COMPANY	
A Location of Wall (Footage, Sec., T. R. M. or Survey Description)  4. Location of Wall (Footage, Sec., T. R. M. or Survey Description)  330° FNL & 330° FEL Section 33–19S–34E  CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF ACTION  Notice of Intent  Abandoament  Recompletion Plugging Back Plugging Pl		STION COMPANY	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  330' FRIL & 330' FRIL & 330' FRIL Section 33–19S–34E  11. County of Parish, State Lea County, New Mexico  12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF AUTION    Notice of Intent		vino 99202 1020 505 622 1127	
330' FNL & 330' FEL Section 33–19S–34E  CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF ACTION  X Notice of Intent Abandonment Recompletion Plugging Back Noa-Routine Tricturing Altering Casing Repair OTHER X Dispose Water Conversion to Injection OTHER X Dispose Water Conversion as well converting to the subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.  14. I hereby comb that the foregoing fulrus and add correct Signed CALL A STACLAL Title Production Records Manager Date 3/7/96  (This space for Federal or State office sue) Approved by Title Date			• •
Section 33—19S—34E  CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  Abandonment  Recompletion  Recompletion  New Construction  Note Conversion to Instead of Plant  Note Conversi	· -		
TYPE OF SUBMISSION  TYPE OF ACTION    A Notice of Intent			
TYPE OF SUBMISSION    X   Notice of Intent   Abandonment   X   Change of Plans   New Construction   New Construction   New Construction   Plugging Back   Non-Routine Fracturing   Water Stut-Off   Casing Repair   Water Stut-Off   Water Stut-Off   Other Plugging Back   Other Stut-Off   Water Stut-Off   Other Plugging Back   Other	Section 33–19S-	-34E	Lea County, New Mexico
Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   New Construction	12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT, OR C	OTHER DATA
Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   Abandonment   New Construction	TYPE OF SURMISSION	TYPE OF ACTION	
Recompletion   New Construction   New Construction   Plugging Back   Non - Routine Fracturing   Casing Repair   Water Shut-Off   Altering Casing   Conversion to Injection   Dispose Water (Note: Reportersults of multiple completion on Well Completion or Recompletion or Recompletion of			V au an
Subsequent Report	Notice of intent		
Casing Repair	Subsequent Report	-	
Final Abandonment Notice OTHER Solopose Water Conversion to Injection THER Solopose Water Conversion to 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.)*  Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attached.  14. I hereby certify that the foregoing fixture and correct Signed Owner Signed S			
Choice: Report results of multiple completion on Well Completion of Melliple completion on Well Completion on Recompletion of Recompletion for Recompletion for Recompletion for Recompletion of Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for Recompletion for all markers and zones pertinent to this work.)*    Strata Production Company requests approval to change plans from plugging and abandoning well to converting to water disposal. The OCD Form C—108 Application For Authorization To Inject is being processed. A copy of said Application is attrached.    14.   I hereby ceptify that the foregoing is true and correct	Final Abandonment Notice	Altering Casing	Conversion to Injection
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Signed Carol f. Darcia Title Production Records Manager Date 3/7/96  (This space for Federal or State office use)  Approved by Title Date	water disposal. The OCD Form C		-
Approved by Title Date	Signed Carol J. Darce	Title Production Records Manager	Date 3/7/96
	•	Title	Date
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STRATA PRODUCTION COMPANY

TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

May 20, 1996

CERTIFIED/RETURN RECEIPT REQUESTED

Devon Energy Corporation 20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260

Re:

Salt Water Disposal Well

Stivason Federal #1 Section 33-19S-34E

Lea County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Stivason Federal #1 well located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, Lea County, New Mexico, please note the following.

Strata Production Company is filing Application with the New Mexico Oil Conservation Division for authority to convert the hole to a water disposal well for the re-injection of water produced from the Pearl Queen field into porous zones in the Upper Queen formation.

Consequently, and pursuant to the rules and regulations of the NMOCD, enclosed please find a copy of the NMOCD Form C-108 which is the Application for Authorization to Inject.

If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O.Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

STRATA PRODUCTION COMPANY

Carol J. Garcia Production Records Manager

DEVON ENERGY	CORPORATION	does not object	to the subject	Application

By:		
Dated:	 	

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STRATA PRODUCTION COMPANY

TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

May 29, 1996

#### CERTIFIED/RETURN RECEIPT REQUESTED

Mallon Resources Corporation 999 18th Street, Suite 1700 Denver, Colorado 80202

Re:

Salt Water Disposal Well

Stivason Federal #1 Section 33-19S-34E

Lea County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Stivason Federal #1 well located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, Lea County, New Mexico, please note the following.

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If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O.Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

Sincerely,

STRATA PRODUCTION COMPANY

Carol J. Garcia

Production Records Manager

MALLON RESOURCES CORPORATION does not object to the subject Application.

By:	 		
Dated:	 	 	

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STRATA PRODUCTION COMPANY

TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

May 20, 1996

#### CERTIFIED/RETURN RECEIPT REQUESTED

Manzano Oil Corporation
P. O. Box 2107
Roswell, New Mexico 88202-2107

Re:

Salt Water Disposal Well

Stivason Federal #1 Section 33-19S-34E

Lea County, New Mexico

Gentlemen:

As an operator of an oil and gas lease within one-half mile of the Stivason Federal #1 well located 330' FNL and 330' FEL of Section 33, Township 19 South, Range 34 East, Lea County, New Mexico, please note the following.

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If you have an objection to the Application or feel that a public hearing is necessary, please contact the NMOCD, P. O. Box 2088, Santa Fe, New Mexico 87504-2088. You may also contact Mr. Frank S. Morgan, Strata Production Company, P. O.Box 1030, Roswell, New Mexico 88202-1030, telephone 505-622-1127.

If you do not have an objection to the above mentioned Application, please sign one copy of this letter in the space provided and return to the undersigned.

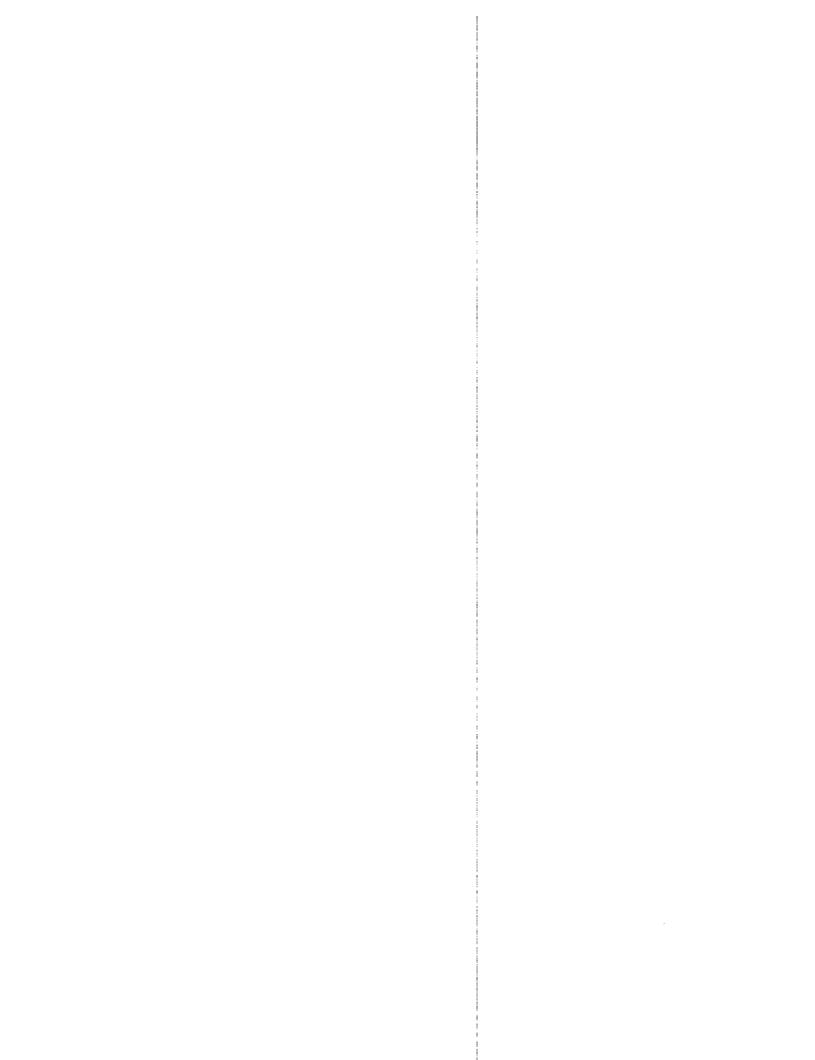
Sincerely,

STRATA PRODUCTION COMPANY

Carol J. Garcia Production Records Manager

MANZANO OIL CORPORATION does not object to the subject Application.

By:	 	 
Dated:	 	 





#### **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 5250 Hobbs, New Mexico 88241 (505) 392-6711 Phone (505) 392-3759 Fax

#### WATER ANALYSIS REPORT

Company : STRATA PRODUCTION
Address : LOCO HILLS, NM
Lease : STIVANSON
Well : #4
Sample Pt. : WELLHEAD Date : 02/07/92 Date Sampled : 02/05/92 Analysis No. : 136

	ANALYSIS			mg/L		* meq/L
1.	рН	6.2				
2.	H2S	5 PPM				
3.	Specific Gravity	1.125				
4. 5.	Total Dissolved Solids	3		180272.1		
5.	Suspended Solids					
6.	Dissolved Oxygen					
7.	Dissolved CO2			180 PPM		
8.	Oil In Water	_				
9.	Phenolphthalein Alkali	inity (Ca	aCO3)			
10.	Methyl Orange Alkalin	ity (CaC	03)	100.0		
11.	Bicarbonate		HCO3	122.0	HCO3	2.0
	Chloride		Cl	110377.1	Cl	3113.6
	Sulfate		S04	2000.0	SO4	41.6
	Calcium		Ca	7262.5	Ca	362.4
	Magnesium		Mg	4200.8	Mg	345.6
16.	Sodium (calculated)		Na	56308.2	Na	2449.2
17.	Iron		Fe	1.5		
	Barium		Ba	0.0		
19.	Strontium		Sr	0.0		
20.	Total Hardness (CaCO3)			35431.9		

#### PROBABLE MINERAL COMPOSITION

*	milli e	equivalents per Lite	r	Compound	Equiv wt	X meq/L	= mg/L
	362  346	*Ca < *HCO3 /> *Mg> *SO4 </td <td>42</td> <td>Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2</td> <td>81.0 68.1 55.5 73.2</td> <td>2.0 41.6 318.8</td> <td>162 2835 17687</td>	42	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2	81.0 68.1 55.5 73.2	2.0 41.6 318.8	162 2835 17687
+	2449     Saturati	*Na> *Cl´  -   lon Values Dist. Wat		MgSO4 MgCl2 NaHCO3	60.2 47.6 84.0	345.6	16452
	CaCC CaSC BaSC	04 * 2H2O 2090 m	g/L	Na2SO4 NaCl	71.0 58.4	2449.2	143134

REMARKS:

---- D. CANADA / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, ROZANNE JOHNSON

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# SCALE TENDENCY REPORT

Company : STRATA PRODUCTION
Address : LOCO HILLS, NM
Lease : STIVANSON
Well : #4
Sample Pt. : WELLHEAD Date : 02/07/92
Date Sampled : 02/05/92
Analysis No. : 136
Analyst : ROZANNE JOHNSON

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

S.I. = -0.1 at 60 deg. F or 16 deg. C S.I. = -0.0 at 80 deg. F or 27 deg. C S.I. = 0.0 at 100 deg. F or 38 deg. C S.I. = 0.1 at 120 deg. F or 49 deg. C S.I. = 0.1 at 140 deg. F or 60 deg. C

\*

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

S = 2239 at 60 deg. F or 16 deg C S = 2468 at 80 deg. F or 27 deg C S = 2614 at 100 deg. F or 38 deg C S = 2681 at 120 deg. F or 49 deg C S = 2728 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted, ROZANNE JOHNSON

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# TRETOLI'I E

#### **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 5250 Hobbs, New Mexico 88241 (505) 392-6711 Phone (505) 392-3759 Fax

## WATER ANALYSIS REPORT

Company : STRATA PRODUCTION Date : 02/07/92
Address : LOCO HILLS, NM Date Sampled : 02/05/92
Lease : STIVANSON Analysis No. : 139

Well : #5

Sample Pt. : WELLHEAD

	ANALYSIS		mg/L		* meq/L
1.	рН 6.1				
2.	H2S 5 PPM				
3.	Specific Gravity 1.120				
4.	Total Dissolved Solids		169420.4		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.			140 PPM		
8.					
9.	Phenolphthalein Alkalinity (C				
10.	Methyl Orange Alkalinity (CaC	:03)	100.0		
11.	Bicarbonate	HCO3	122.0	HCO3	2.0
12.	Chloride	Cl	103329.7	Cl	2914.8
13.	Sulfate	SO4	2050.0	SO4	42.7
14.	Calcium	Ca	6990.0	Ca	348.8
15.	Magnesium	Mg	3471.5	Mg	285.6
16.	Sodium (calculated)	Na	53453.8	Nā	2325.1
17.	Iron	Fe	3.5		
18.	Barium	Ba	0.0		
	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		31748.5		

#### PROBABLE MINERAL COMPOSITION

\*milli equivalents per Liter Compound Equiv wt X meq/L = mg/L349 \*Ca <---- \*HCO3 2 Ca (HCO3) 2 81.0 2.0 162 /----> 42.7 CaSO4 68.1 2906 43 16875 286 \*Mq ----> \*SO4 CaCl2 55.5 304.1 <----/ 73.2 Mg (HCO3) 2 ----\*Na ----> \*Cl 2915 2325 MgSO4 60.2 MqCl2 47.6 285.6 13596 Saturation Values Dist. Water 20 C NaHCO3 84.0 13 mg/L Na2S04 71.0 CaCO3 2090 mg/L CaSO4 \* 2H2O NaCl 58.4 2325.1 135878

REMARKS:

BaSO4

----- D. CANADA / MLAB / FILE

2.4 mg/L

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Respectfully submitted, ROZANNE JOHNSON

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### SCALE TENDENCY REPORT

Company : STRATA PRODUCTION
Address : LOCO HILLS, NM
Lease : STIVANSON
Well : #5 Date : 02/07/92 Date Sampled: 02/05/92

Analysis No.: 139

Analyst : ROZANNE JOHNSON

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. = -0.1 at 100 deg. F or 38 deg. C
S.I. = -0.1 at 120 deg. F or 49 deg. C
S.I. = -0.0 at 140 deg. F or 60 deg. C
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#### CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

```
S = 2318 at 60 deg. F or 16 deg C
S = 2551 at 80 deg. F or 27 deg C
S = 2699 at 100 deg. F or 38 deg C
S = 2771 at 120 deg. F or 49 deg C
S = 2824 at 140 deg. F or 60 deg C
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