

DATE IN 9-2-04	SUSPENSE 9/17/04	ENGINEER JONES	LOGGED IN 9-2-04	TYPE SWD	APP NO. PSEM0424645
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



BCD-orig

Tenneco ADP State Com #1

30-025-25762

### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

30-025-25762

Check One Only for [B] or [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

939

[D] Other: Specify \_\_\_\_\_

#### [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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sam Brandon

*Sam Brandon*

Operations Engineer

8/17/04

Print or Type Name

Signature

Title

Date

e-mail Address

**Tenneco ADP State Com #1 APPLICATION FOR AUTHORIZATION TO INJECT 30-025-25762**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? X Yes No
- II. OPERATOR:  
ADDRESS: 105 South 4<sup>th</sup> Street, Artesia, New Mexico 88210  
CONTACT PARTY: Sam Brandon PHONE: (505) 748-4281
- 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 re-injected 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 litho logic 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: Sam Brandon TITLE: Operations Engineer  
SIGNATURE: Sam Brandon DATE: 8/17/04
- \* 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: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

### 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 need 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, if 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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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.

MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

S. P. YATES  
CHAIRMAN OF THE BOARD  
JOHN A. YATES  
PRESIDENT  
PEYTON YATES  
EXECUTIVE VICE PRESIDENT  
RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER

August 12, 2004

New Mexico Energy & Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504

Dear Mr. Catanach;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Tenneco ADP State Com No. 1 located in Unit A, Section 2-T11S-R34E of Lea County New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4281.

Sincerely,

A handwritten signature in cursive script that reads 'Sam Brandon'.

Sam Brandon  
Operations Engineer

SB/cm

Enclosure

MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



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SECRETARY  
DENNIS G. KINSEY  
TREASURER

August 12, 2004

Chris Williams  
New Mexico Energy & Minerals Department  
OIL CONSERVATION DIVISION  
1625 N. French Drive  
Hobbs, New Mexico 88240

Dear Mr. Williams,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Tenneco ADP State Com No. 1 located in Unit A, Section 2-T11S-R34E of Lea County New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4281.

Sincerely,

A handwritten signature in cursive script that reads 'Sam Brandon'.

Sam Brandon  
Operations Engineer

SB/cm

Enclosure

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1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

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RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER

August 12, 2004

Pete Martinez  
State of New Mexico  
Commissioner of Public Lands  
P.O. Box 1148  
Santa Fe, New Mexico 87504-1148

Dear Mr. Martinez,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation's Tenneco ADP State Com No. 1, located in Unit A, Section 2-T11S-R34E of Lea County New Mexico.

Should you have any questions please feel free to contact me at (505) 748-4281.

Sincerely,

A handwritten signature in cursive script that reads 'Sam Brandon'.

Sam Brandon  
Operations Engineer

SB/cm

Enclosure

MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

S. P. YATES  
CHAIRMAN OF THE BOARD  
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EXECUTIVE VICE PRESIDENT  
RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER

August 12, 2004

Bogle Limited Company  
P.O. Drawer 460  
Dexter, New Mexico 88230

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Tenneco ADP State Com No. 1 located in Unit A, Section 2-T11S-R34E of Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4281.

Sincerely,

A handwritten signature in cursive script that reads 'Sam Brandon'.

Sam Brandon  
Operations Engineer

SB/cm

Enclosure

**C-108 Application for Authorization to Inject  
Yates Petroleum Corporation  
Tenneco ADP State Com No. 1  
Unit A Sec. 2, T11S, R34E  
Lea County, New Mexico**

- I. The purpose of completing this well is to make a disposal well for produced Devonian, Mississippian, Morrow, Atoka and Penn Sands water into the Devonian Dolomite formation.**

**Yates Petroleum Corporation plans to convert this well to a water disposal well into the Devonian Dolomite.**

- II. Operator: Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210  
Sam Brandon (505) 748-4281**
- III. Well Data: See Attachment A**
- IV. This is not an expansion of an existing project.**
- V. See attached map, Attachment B.**
- VI. 4 wells within the area of review penetrate the proposed injection zone. (See Attachment C)**
- VII. 1. Proposed average daily injection volume approximately 500 BWPD. Maximum daily injection volume approximately 2000 BWPD.**
- 2. This will be a closed system.**
- 3. Proposed average injection pressure –unknown.  
Proposed maximum injection pressure –2500 psi.**
- 4. Sources of injected water would be produced water from the Mississippian, Morrow, Atoka and Penn Sands. (Attachment D)**
- VIII. 1. The proposed injection interval is the portion of the Devonian Dolomite formation consisting of porous Dolomite from estimated depths of 13133-13250.**



**Application for Authorization to Inject  
Tenneco ADP State Com No. 1**

**-2-**

**2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 110'. There are no fresh water zones underlying the formation.**

**IX. The proposed disposal interval may be acidized with 15% HCL acid.**

**X. Logs were filed at your office when the well was drilled.**

**XI. There are no windmills within a one-mile radius of the subject location.**

**XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval. (Attachment G)**

**XIII. Proof of notice.**

**A. Certified letters sent to the surface owner and offset operators attached (Attachment E)**

**B. Copy of legal advertisement attached. (Attachment F)**

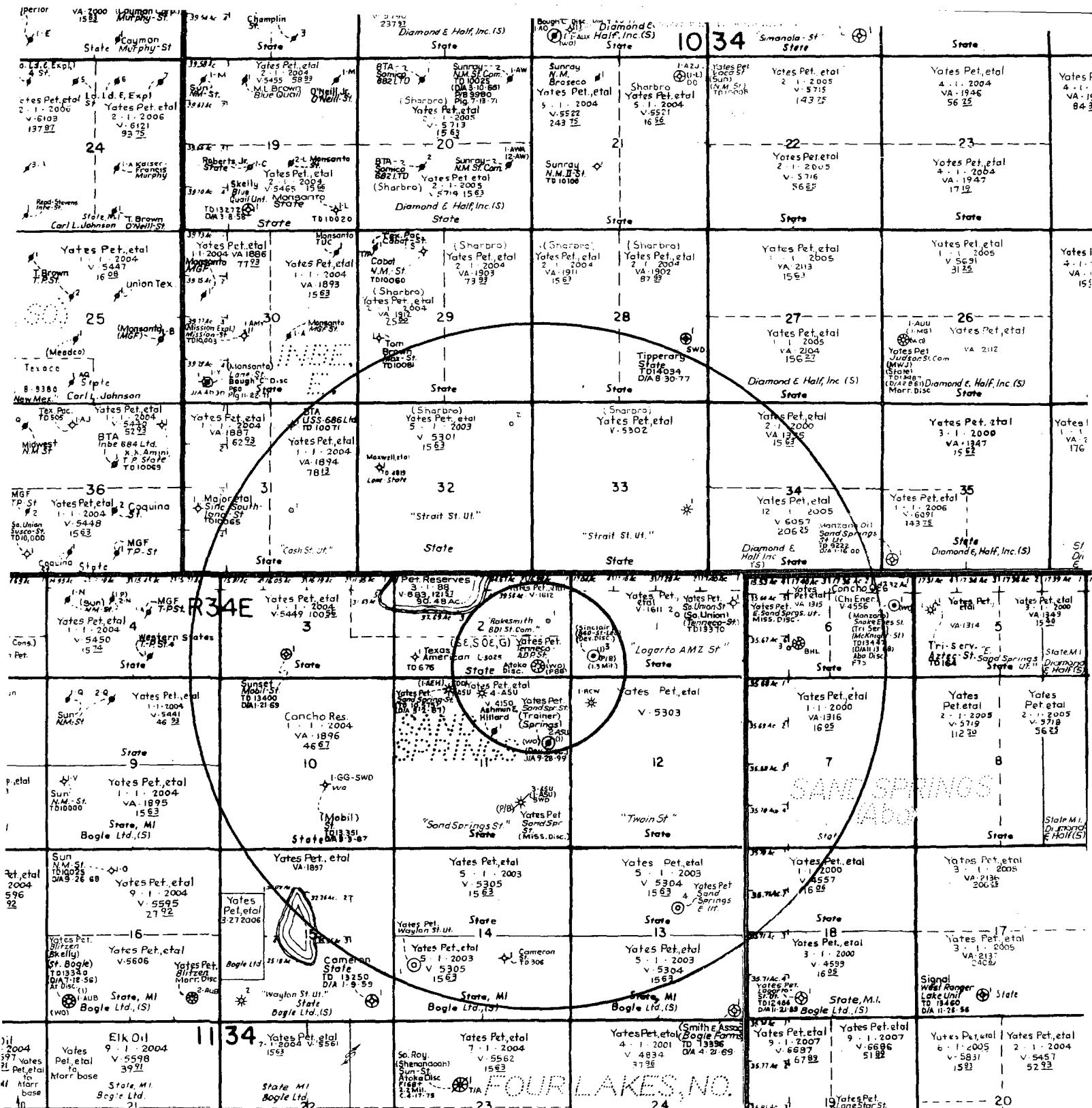
**XIV. Certification is signed.**

**Yates Petroleum Corporation  
Tenneco ADP State Com No. 1  
A-SEC. 2-11S-34E  
Lea County, New Mexico**

**Attachment A**

**III. Well Data**

- A.**
1. Lease Name/Location  
Tenneco ADP State Com No. 1  
A-SEC. 2-11S-34E  
330' FSL & 990' FEL
  2. Casing Strings:
    - a. Present well condition  
13 $\frac{3}{8}$ " @ 457 w/450 sx (circ)  
8 $\frac{5}{8}$ " @ 4176' w/1525 sx.  
5 $\frac{1}{2}$ ", 17#, 20# @ 13180' w/455 sx (TOC 11160').
    - b. Present Status:  
Non-commercial completion in Atoka at 11911-16'.
  3. Proposed well condition:  
Casing same as above.  
2 $\frac{7}{8}$ " 6.5# N80 plastic-coated injection tubing @ 13100'.
  4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 13100'.
- B.**
1. Injection Formation: Devonian Dolomite.
  2. Injection Interval will be through perforations and open hole from 13133' to approximately 13250'.
  3. Well was originally drilled as a Devonian Dolomite oil well. Well will be a Devonian Dolomite water disposal well (13133-13250') when work is completed.
  4. Perforations: High porosity dolomite will be drilled and previous perforations 13133-67' will be utilized.
  5. Next higher (shallower) oil or gas zone within 2 miles-Mississippian.  
Next lower (deeper) oil or gas zone within 2 miles-None.



YATES PETROLEUM CORPORATION

TENNECO ADP STATE COM NO. 1

PROPOSED SALT WATER DISPOSAL WELL

SEC. 2-11S-34E

330' FSL & 990' FEL

LEA COUNTY, NEW MEXICO

ATTACHMENT B

Tabulation of data on wells within area of review

Well Name	Operator	Type	Spud	Total Depth	Producing Zone	Perforations	Completion Information
Sand Springs ASU State No. 4 700' FNL & 1650' FEL Sec 11-11S-34E	Yates Petroleum Corp	Gas	2/3/2000	13170	Morrow Miss Devonian	12068-76', 12078-88' 12453-68', 12494-502' CIBP @ 12400' OH 13120'-14227'. CIBP @ 12950'	13 3/8" 48# H40 @ 434'. Cmtd w/ 425 sx. 9 5/8" 36 & 40# J55 @ 4178' Cmtd w/ 1225 sx. 7" 26# P110 @ 13166' Cmtd w/ 1000 sx.
Sand Springs ASU State No. 2 1980' FNL & 660' FEL Sec. 11-11S-34E	Yates Petroleum Corp	Gas	10/29/1961	13274	P&A	None See wellbore sketch	13 3/8" 40# @ 332'. Cmtd w/ 275 sx. 8 5/8" 24 & 32# @ 4159'. Cmtd w/ 1000 sx. 5 1/2" 17 & 20# @ 13225'. Cmtd w/ 150 sx.
Lagarto AMZ St No. 1	Yates Petroleum Corp	Gas	6/19/1957	13206	Atoka U. Atoka Devonian	11881-87'. 11602-28' (SI - Pkr set below these perfs) 13115-53' - Squeezed w/ 150 sx.	13 3/8" 32.75# @ 304'. Cmtd w/ 350 sx. 9 5/8" 36 & 40# @ 4132'. Cmtd w/ 1700 sx. 5 1/2" 17 & 20# @ 13205'. Cmtd w/ 200 sx.
State 11 No. 1	Ashmun & Hilliard		12/19/1963	13140'	Devonian	OH 13129-40' See wellbore sketch	13 3/8" 48# @ 355'. Cmtd w/ 325 sx. Cmt circ. 8 5/8" 24 & 32# J55 @ 4200'. Cmtd w/ 350 sx. 5 1/2" 17 & 20# @ 13129'. Cmtd w/ 250 sx.

Attachment 'D'



# MILLER CHEMICALS, INC.

Post Office Box 298  
Artesia, N.M. 88211-0298  
(505) 746-1919 Artesia Office  
(505) 392-2893 Hobbs Office  
(505) 746-1918 Fax

## WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 6/25/04
Address	: ARTESIA, NM	Date Sampled	: 6/24/04
Lease	: SAND SPRINGS "ASU"	Analysis No.	: 00756
Well	: #4		
Sample Pt.	: UNKNOWN		

ANALYSIS		mg/L		* meq/L
1. pH	6.9			
2. H2S	0			
3. Specific Gravity	1.030			
4. Total Dissolved Solids		25916.5		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	671.0	HCO3	11.0
12. Chloride	Cl	15336.0	Cl	432.6
13. Sulfate	SO4	25.0	SO4	0.5
14. Calcium	Ca	1640.0	Ca	81.8
15. Magnesium	Mg	146.8	Mg	12.1
16. Sodium (calculated)	Na	8051.4	Na	350.2
17. Iron	Fe	46.3		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		4700.0		

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	=	mg/L
+-----+	+-----+					
82  *Ca <----- *HCO3	11	Ca (HCO3) 2	81.0	11.0		891
-----  /----->	-----	CaSO4	68.1	0.5		35
12  *Mg -----> *SO4	1	CaCl2	55.5	70.3		3902
-----  <-----/	-----	Mg (HCO3) 2	73.2			
350  *Na -----> *Cl	433	MgSO4	60.2			
+-----+	+-----+	MgCl2	47.6	12.1		575
Saturation Values Dist. Water 20 C		NaHCO3	84.0			
CaCO3	13 mg/L	Na2SO4	71.0			
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	350.2		20466
BaSO4	2.4 mg/L					

REMARKS:

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 6/25/04  
Address : ARTESIA, NM Date Sampled : 6/24/04  
Lease : SAND SPRINGS "ASU" Analysis No. : 00756  
Well : #4 Analyst : A. MILLER  
Sample Pt. : UNKNOWN

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO<sub>3</sub> Scaling Tendency

S.I. = 0.7 at 70 deg. F or 21 deg. C  
S.I. = 0.8 at 90 deg. F or 32 deg. C  
S.I. = 0.9 at 110 deg. F or 43 deg. C  
S.I. = 0.9 at 130 deg. F or 54 deg. C  
S.I. = 1.0 at 150 deg. F or 66 deg. C

\*\*\*\*\*

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

S = 2340 at 70 deg. F or 21 deg C  
S = 2433 at 90 deg. F or 32 deg C  
S = 2486 at 110 deg. F or 43 deg C  
S = 2490 at 130 deg. F or 54 deg C  
S = 2464 at 150 deg. F or 66 deg C

Respectfully submitted,  
A. MILLER

## Attachment 'D'

**MILLER CHEMICALS, INC.**

Post Office Box 298  
Artesia, N.M. 88211-0298  
(505) 746-1919 Artesia Office  
(505) 392-2893 Hobbs Office  
(505) 746-1918 Fax

WATER ANALYSIS REPORT  
-----

Company	: YATES PETROLEUM	Date	: 6/25/04
Address	: ARTESIA, NM	Date Sampled	: 6/24/04
Lease	: TWAIN "BCW"	Analysis No.	: 00755
Well	: #1		
Sample Pt.	: UNKNOWN		

ANALYSIS		mg/L	* meq/L
-----		----	-----
1. pH	6.9		
2. H <sub>2</sub> S	0		
3. Specific Gravity	1.020		
4. Total Dissolved Solids		18163.7	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO <sub>2</sub>		NR	
8. Oil In Water		MR	
9. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )			
10. Methyl Orange Alkalinity (CaCO <sub>3</sub> )			
11. Bicarbonate	HCO <sub>3</sub>	549.0	HCO <sub>3</sub> 9.0
12. Chloride	Cl	10650.0	Cl 300.4
13. Sulfate	SO <sub>4</sub>	50.0	SO <sub>4</sub> 1.0
14. Calcium	Ca	1080.0	Ca 53.9
15. Magnesium	Mg	122.2	Mg 10.1
16. Sodium (calculated)	Na	5667.5	Na 246.5
17. Iron	Fe	45.0	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO <sub>3</sub> )		3200.0	

PROBABLE MINERAL COMPOSITION  
-----

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+			
54   *Ca <----- *HCO <sub>3</sub>   9	Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.0 9.0	729
-----  /----->  -----	CaSO <sub>4</sub>	68.1 1.0	71
10   *Mg -----> *SO <sub>4</sub>   1	CaCl <sub>2</sub>	55.5 43.9	2433
-----  <-----/  -----	Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.2	
247   *Na -----> *Cl   300	MgSO <sub>4</sub>	60.2	
+-----+	MgCl <sub>2</sub>	47.6 10.1	478
Saturation Values Dist. Water 20 C	NaHCO <sub>3</sub>	84.0	
CaCO <sub>3</sub> 13 mg/L	Na <sub>2</sub> SO <sub>4</sub>	71.0	
CaSO <sub>4</sub> * 2H <sub>2</sub> O 2090 mg/L	NaCl	58.4 246.5	14407
BaSO <sub>4</sub> 2.4 mg/L			

REMARKS:

# SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 6/25/04  
Address : ARTESIA, NM Date Sampled : 6/24/04  
Lease : TWAIN "BCW" Analysis No. : 00755  
Well : #1 Analyst : A. MILLER  
Sample Pt. : UNKNOWN

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

S.I. = 0.5 at 70 deg. F or 21 deg. C  
S.I. = 0.6 at 90 deg. F or 32 deg. C  
S.I. = 0.6 at 110 deg. F or 43 deg. C  
S.I. = 0.7 at 130 deg. F or 54 deg. C  
S.I. = 0.7 at 150 deg. F or 66 deg. C

\*\*\*\*\*

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

S = 2263 at 70 deg. F or 21 deg C  
S = 2342 at 90 deg. F or 32 deg C  
S = 2383 at 110 deg. F or 43 deg C  
S = 2381 at 130 deg. F or 54 deg C  
S = 2356 at 150 deg. F or 66 deg C

Respectfully submitted,  
A. MILLER



## **Attachment F**

### **Legal Notice**

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well the Tenneco ADP State Com No. 1 located 330' FSL & 990' FEL, Unit A, Section 2, Township 11 South, Range 34 East of Lea County, New Mexico, will be used for saltwater disposal. Disposal waters from the Devonian, Mississippian, Morrow, Atoka and Penn Sands will be injected into the Devonian Dolomite at a depth of 13133'-13250' with a maximum pressure of 2500 psi and a maximum rate of 1,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Sam Brandon at (505) 748-4281.

MARTIN YATES, III  
1912 - 1985  
FRANK W. YATES  
1936 - 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

S. P. YATES  
CHAIRMAN OF THE BOARD  
JOHN A. YATES  
PRESIDENT  
PEYTON YATES  
EXECUTIVE VICE PRESIDENT  
RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER

August 12, 2004

Hobbs News Sun  
201 N. Thorp  
Hobbs, New Mexico 88240

Gentlemen:

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed. Please place this notice in your paper on Sunday, August 15, 2004 and forward a copy of it with your billing as soon as possible to:

Yates Petroleum Corporation  
105 S 4<sup>th</sup> Street  
Artesia, NM 88210  
Attn: Sam Brandon

If you have any questions, please contact me at 748-4281. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads 'Sam Brandon'.

Sam Brandon  
Operations Engineer

SB/cm

Enclosure

## **Attachment F**

### **Legal Notice**

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AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a  
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

August 17 2004  
and ending with the issue dated

August 17 2004

*Kathi Bearden*

Publisher

Sworn and subscribed to before

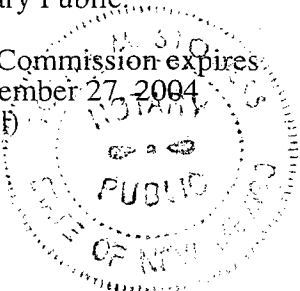
me this 17th day of

August 2004

*Joseph M. Starnes*

Notary Public.

My Commission expires  
November 27, 2004  
(Seal)



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

LEGAL NOTICE  
August 17, 2004

Attachment F

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well the Tenneco ADP State Com No. 1 located 330' FSL & 990' FEL, Unit A, Section 2, Township 11 South, Range 34 East of Lea County, New Mexico, will be used for saltwater disposal. Disposal waters from the Devonian, Mississippian, Morrow, Atoka and Penn Sands will be injected into the Devonian Dolomite at a depth of 13133'-13250' with a maximum pressure of 2500 psi and a maximum rate of 1,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Sam Brandon at (505)748-4281 #20876

01101029000

02571822


Yates Petroleum Corporation  
105 S. 4th Street  
Artesia, NM 88210

ATTACHMENT F

**Attachment G**

C-108 Application for Authorization to Inject  
Yates Petroleum Corporation  
Tenneco ADP State Com No. 1  
Unit A, Section 2 T11S-R34E  
Lea County, New Mexico

Available engineering and geological data have been examined and no evidence of open faults of hydrologic connection between the disposal zone and any underground sources of drinking water has been found.

  
\_\_\_\_\_  
John Amiet  
Geologist  
Yates Petroleum Corporation

  
\_\_\_\_\_  
Date

72736 22542 0000 0550 4004

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**P.O. Box 460**  
**Dexter, New Mexico 88230**

PS Form 3800, June 2004

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**Mr. Pete Martinez**  
**State of New Mexico**  
**Commissioner of Public Lands**  
**P.O. Box 1148**  
**Santa Fe, New Mexico 87504-1148**

PS Form 3800, June 2004

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-163  
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.  
30-025-01822

5. Indicate Type of Lease  
STATE ☒ FEDERAL ☐

6. State Oil & Gas Lease No.  
VO-4510

7. Lease Name or Unit Agreement Name

Sand Springs ASU State

8. Well No.

2

9. Pool name or Wildcat  
Sand Springs Atoka (gas)

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 WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator  
YATES PETROLEUM CORPORATION

3. Address of Operator  
105 South 4th St., Artesia, NM 88210

4. Well Location  
Unit Letter H : 1980 Feet From The North Line and 660 Feet From The East

Section 11 Township 11S Range 34E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
4145.2' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
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 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.

Dyke Dodson, Completions Superintendent for Yates Petroleum Corporation, received verbal permission from Paul Kautz w/OCD-Hobbs, to plug and abandon. Well was plugged and abandoned as follows:

9-29-99 - TIH with 2-7/8" tubing open ended to 1145'. Spotted 25 sacks Class C cement. Pulled up to 380'. Spotted 30 sacks Class C cement. POOH with tubing and laid down tubing. Nippled down BOP. RIH with 1 joint of tubing. Spotted 10 sacks Class C at surface. Cut off 8-5/8" head. Installed regulation abandonment marker. Cleaned location. PLUGGED AND ABANDONED - FINAL REPORT. Plugging completed 9-28-99.

Approved as to plugging of the Well Bore.  
Liability under bond is retained until  
surface restoration is completed.

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

SIGNATURE Rusty Klein TITLE Operations Technician DATE Oct. 12, 1999

TYPE OR PRINT NAME Rusty Klein TELEPHONE NO. 505/748

(This space for State Use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

COPY TO WINK  
OCC FIELD REPRESENTATIVE II/STAFF MANAGER

JAN 23 2003

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 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.	30-025-01822
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	VO-4510
7. Lease Name or Unit Agreement Name	Sand Springs ASU State
8. Well No.	2
9. Pool name or Wildcat	Sand Springs Atoka (gas) <i>Morrison</i>

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>			
1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			
b. Type of Completion: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DEEP RESVR <input type="checkbox"/> OTHER <input type="checkbox"/> Re-entry <input type="checkbox"/>			
2. Name of Operator		YATES PETROLEUM CORPORATION (505) 748-1471	
3. Address of Operator		105 South 4th St., Artesia, NM 88210	
4. Well Location			
Unit Letter <u>H</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line			
Section <u>11</u> Township <u>11S</u> Range <u>34E</u> NMPM Lea County			
10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF& RKB, RT, GR, etc.)
9-24-99	9-27-99	P & A 9-28-99	4145.2' GR
15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By
13225' (1145')*	*YPC re-entry TD		Rotary Tools Pulling Unit
19. Producing Interval(s), of this completion - Top, Bottom, Name			20. Was Directional Survey Made
Plugged & Abandoned - 9-28-99			No
21. Type Electric and Other Logs Run			22. Was Well Cored
None on re-entry			No

**CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	40#	332'	17"	In place	
8-5/8"	24# & 32#	4159'	12-1/4"	In place	
5-1/2"	17# & 20#	5600-TD	7-7/8"	In place	

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

26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)						
	P & A 9-28-99						
Well Status (Prod. or Shut-in)	Plugged						
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

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

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
--

Printed Name Rusty Klein Title Operations Tech. Date 10-12-99



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.  
30-025-01822

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
VO-4510

7. Lease Name or Unit Agreement Name

Sand Springs ASU State

8. Well No. 2

9. Pool name or Wildcat  
Sand Springs Atoka (gas)

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 WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator  
YATES PETROLEUM CORPORATION

3. Address of Operator  
105 South 4th St., Artesia, NM 88210

4. Well Location  
Unit Letter H : 1980 Feet From The North Line and 660 Feet From The East Line

Section 11 Township 11S Range 34E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
4145.2' 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: Re-entry ☐

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.

9-21-99 - Dig out cellar. Removed dry hqle marker. Cut off and dress 8-5/8" casing. Install 11" X 5000 starting head. Clean and level location. Dig pit.  
9-22-99 - Moved in and rigged up re-entry equipment. Set anchors.  
9-24-99 - Moved in and rigged up pulling unit. Nipped up 10" 5000 BOP. Build 3" line from BOP to shale shaker. Set racks and unloaded tubing. NOTE: Notified Sylvia w/OCD-Hobbs of intent to spud.  
9-25-99 - TIH with 7-7/8" mill tooth bit and 4-3/4" drill collars. Drilled 3' of cement and fell thru 10'. Drilled 3' and fell thru 15'. Drilled solid cement. Fell out of cement at 440'. TIH and tagged up at 1095'. Drilling at 1130' and report time. NOTE: Spudded at 8:00 AM 9-24-99.  
9-26-99 - Drilled cement down to 1137', bouncing and rough. Metal cuttings in returns. TOOH. TIH with 7" magnet. Recovered several pieces of metal. Made 2nd run and recovered more metal pieces. Ran cutlip guide on magnet. Rotated and circulated. TOOH. TIH with 7-3/4" globe basket and cut 3'. TOOH. Had cement core but no metal.

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

CONTINUED ON NEXT PAGE:

SIGNATURE Rusty Klein TITLE Operations Technician DATE Oct. 12, 1999

TYPE OR PRINT NAME Rusty Klein TELEPHONE NO. 505/748-

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

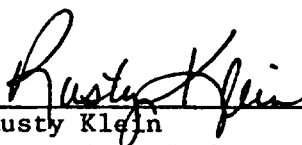
YATES PETROLEUM CORPORATION  
Sand Springs ASU State #2  
Section 11-T11S-R34E  
Lea County, New Mexico

SUNDRY NOTICE CONTINUED:

TIH with bit. Reamed from 1137-1140'. Drilled 5' of cement and quit making hole. Getting redbed back. NOTE: In 2 hours drilling, made about 6".

9-27-99 - TOOH with bit - all teeth worn off except outside row on cones. TIH with re-tipped bit and drill collars. Tagged up at 1145' and started drilling. Rotated 1 hour - rough. Did not make any hole. Had redbed and rocks in returns. TOOH - several teeth broken off bit. TIH with 7-1/2" OD lead block and tagged up at 1145'. TOOH - no marks on blocks. Had chunks of redbed stuck to bottom of block. Shut well in and shut down.

9-28-99 - Decision was made not to continue on well due to redbed coming into 8-5/8" casing. NOTE: Casing is parted.

  
\_\_\_\_\_  
Rusty Klein  
Operations Technician  
October 12, 1999

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U.S.G.S.		
LAND OFFICE		
OPERATOR		

# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease	State <input type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	L-5388	

## 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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> P&A Disposal well	7. Unit Agreement Name
2. Name of Operator New Mexico Salt Water Disposal Co., Inc.	8. Farm or Lease Name Trainer-State Springs
3. Address of Operator P. O. Box 566, Roswell, New Mexico 88201	9. Well No. # 1
4. Location of Well UNIT LETTER <u>H</u> <u>660</u> FEET FROM THE <u>East</u> LINE AND <u>1980</u> FEET FROM THE <u>North</u> LINE, SECTION <u>11</u> TOWNSHIP <u>11S</u> RANGE <u>34E</u> N.M.P.M.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
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"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. 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.

1. Fished out 3 1/2" Tubing to 10,080'.
2. Set Cast Iron Bridge plug @ 9745' on wire line. Put 40' of cement on top of bridge plug with wire line dump bailer.
3. Filled hole with salt base mud.
4. Cut and removed 5 1/2" casing @ 5600'.
5. Set 35 Sks Cement plug 5617' to 5517'.  
Set 35 Sks Cement plug 4237' to 4137'.  
Set 35 Sks Cement plug 2013' to 1913'.  
Set 10 Sks Cement plug 10' to 0'
6. Installed regulation marker

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

SIGNED Harry C. Lawrence Jr. TITLE President DATE 6-28-77  
M. H. Hartman TITLE OIL & GAS INSPECTOR DATE 6-28-77