

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**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

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

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

SWD-1512  
 - Yates Petroleum Corp  
 25575  
 - Lost Tank SWD #11  
 30-015-43367  
 - Pool  
 - SWD, Devonian  
 9610

[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.

Brice A. Letcher

*Brice A. Letcher*  
 Signature

Area Engineer

09/02/2015

Print or Type Name

Title

Date

bletcher@yatespetroleum.com  
 e-mail Address

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

[www.yatespetroleum.com](http://www.yatespetroleum.com)

JOHN A. YATES  
CHAIRMAN EMERITUS

JOHN A. YATES JR.  
CHAIRMAN OF THE BOARD

DOUGLAS E. BROOKS  
PRESIDENT  
CHIEF EXECUTIVE OFFICER

JOHN D. PERINI  
EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

State of New Mexico  
Oil Conservation Division  
1220 S. Saint Francis Drive  
Santa Fe, NM 87505

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

RECEIVED  
SEP 11 2015  
OIL CONSERVATION DIVISION

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 12, 2011

Submit one copy to appropriate  
District Office

**DISTRICT I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone (505) 393-6161 Fax: (505) 393-0720

**DISTRICT II**  
811 S. First St., Artesia, NM 88210  
Phone (505) 748-1283 Fax: (505) 748-9720

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6176 Fax: (505) 334-8170

**DISTRICT IV**  
1229 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 478-3460 Fax: (505) 478-3462

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

AMENDED REPORT

API Number <b>30-015-43367</b>	Pool Code <b>40299-96101</b>	Pool Name <b>SWD East Tank, Delaware</b>
Property Code <b>315260</b>	Property Name <b>LOST TANK SWD STATE</b>	Well Number <b>11</b>
OGRID No. <b>025575</b>	Operator Name <b>YATES PETROLEUM CORPORATION</b>	Elevation <b>3586'</b>

**Surface Location**

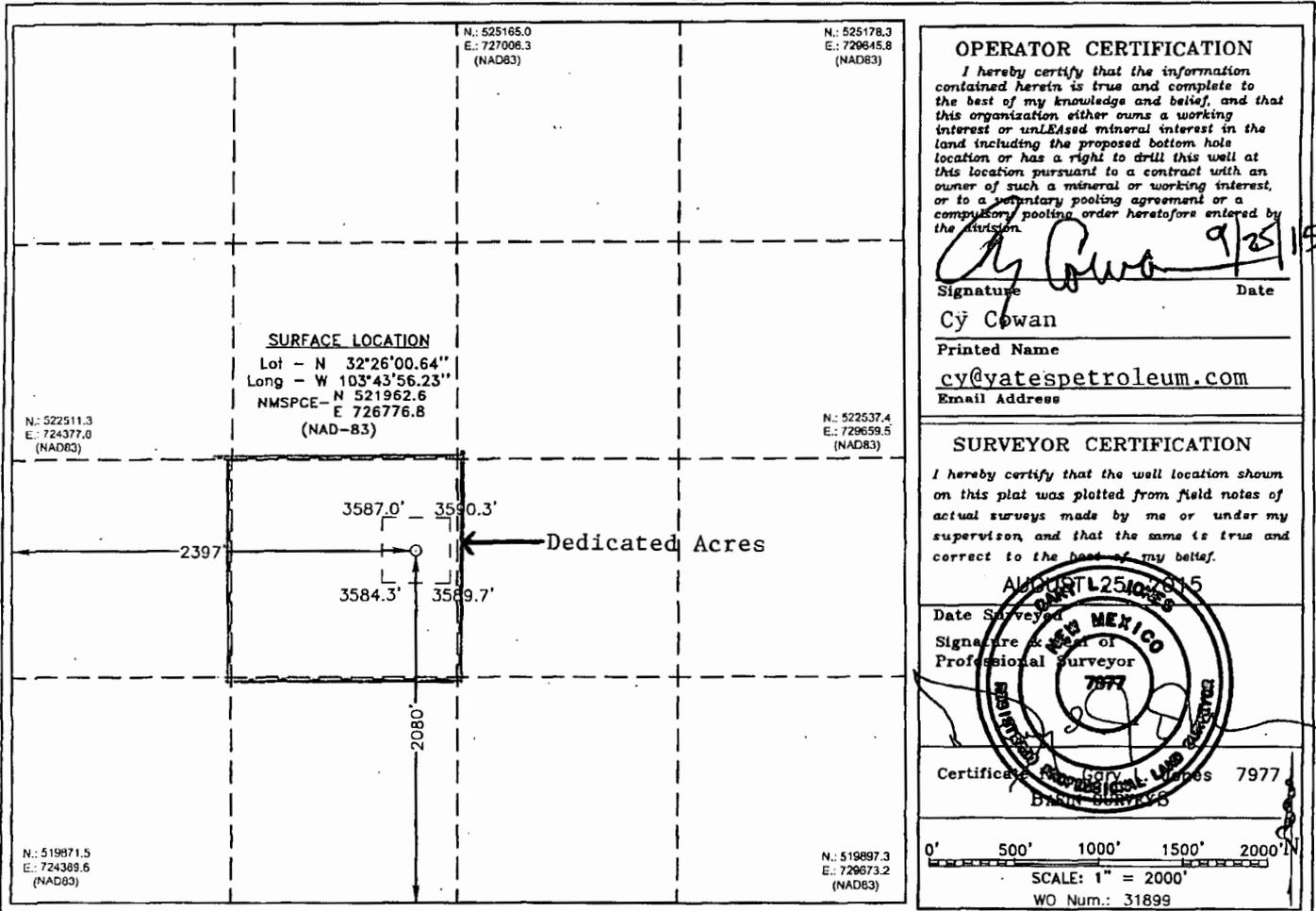
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
K	36	21 S	31 E		2080	SOUTH	2397'	WEST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40.00			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a unitary pooling agreement or a compulsory pooling order heretofore entered by the Division.

*Cy Cowan* 9/25/15  
Signature Date  
Cyan Cowan  
Printed Name  
cy@yatespetroleum.com  
Email Address

**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

August 25, 2015  
Date Surveyed  
Signature & Seal of Professional Surveyor  
7977  
Certificate No. 7977  
Bureau of Land Management

0' 500' 1000' 1500' 2000'  
SCALE: 1" = 2000'  
WO Num.: 31899



### 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.

## **C-108 Application for Authorization to Inject**

**Yates Petroleum Corporation  
Lost Tank SWD State #11  
Unit K, 2080' FSL & 2397' FWL, Sec. 36, T21S, R31E  
Eddy County, New Mexico**

- I. The purpose of drilling this well is to make a disposal well for produced Bone Springs and Delaware water into the Devonian Dolomite formation. The Application qualifies for administrative approval.

Yates Petroleum Corporation plans to drill this well as a water disposal well into the Devonian Dolomite.

- II. Operator: Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210  
Brice Letcher (575) 748-4180
- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. See attached data for wells within the area of review, Attachment C.
- VII. 1. Proposed average daily injection volume approximately 10,000 BWP/D. Maximum daily injection volume approximately 15,000 BWP/D.
2. This will be a closed system.
3. Proposed average injection pressure – unknown.  
Proposed maximum injection pressure – 3,100 psi.
4. Sources of injected water will be produced water from the Delaware and Bone Springs. (Attachment D)
- VIII. 1. The proposed injection interval is the Devonian Dolomite formation consisting of porous carbonate from approximately 15,265'-15,600'.
2. Ground water maps over the area indicate that fresh water sources have been encountered in aquifers down to a depth of 500'-600'. There are no fresh water zones underlying the formation.

- IX. The proposed disposal interval may be acidized with 20% HCL acid, or hydraulically fractured with proppant laden fluids.
- X. Well logs will be filed with the Division after well is drilled. GR Neutron will be run from TD to surface. Density and Laterolog will be run from TD to Intermediate casing shoe. CBL log will be run after casing is set and cemented.
- XI. There are no windmills or water wells 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.

## Attachment A

### Well Data

- A.
1. Lease Name/Location  
Lost Tank SWD State #11  
K-36-T21S-R31E  
2080' FSL & 2397' FWL  
Will apply for APD when C-108 is approved.
  2. Casing Strings:
    - a. 20" 94# J-55 ST&C @ ±610' with 980 sx (circ).  
13 3/8" 54.5# & 68# J-55 & HCL-80 ST&C @ ±4,500' w/  
3,190 sx (circ).  
9 5/8" 43.5# & 47# HCP-110 LT&C @ ±11,700' w/ 1,915 sx  
(circ).  
7" 32# Q-125 LT&C @ ±11,200'-15,265' w/ 515 sx. Est TOC  
@ 11,200'.
    - b. Present Status:  
Not yet drilled.
  3. Proposed well condition:  
Plan to drill well and set casing as described above.  
Open hole completion interval of Devonian Dolomite from 15,265'-  
15,600'.  
3 1/2" 9.5# J-55 plastic-coated injection tubing @ ±15,240'.
  4. Propose to use Guiberson or Baker plastic-coated or nickel-plated  
packer set at ±15,240'.
- B.
1. Injection Formation: Devonian Dolomite.
  2. Injection Interval will be from approximately 15,265'-15,600' gross  
interval.
  3. Well will be a Devonian water disposal well when work is  
completed.
  4. Open hole completion in Devonian Dolomite at ±15,265'-15,600'.
  5. Next higher (shallower) oil or gas zone within 2 miles – Wolfcamp.  
Next lower (deeper) oil or gas zone within 2 miles – none.

WELL NAME: Lost Tank SWD State #11 FIELD: \_\_\_\_\_

LOCATION: 2080' FSL & 2397' FWL of Section 36-21S-31E Eddy Co., NM

GL: 3,580' (est) ZERO: \_\_\_\_\_ KB: \_\_\_\_\_ 3,605' (est)

SPUD DATE: \_\_\_\_\_ COMPLETION DATE: \_\_\_\_\_

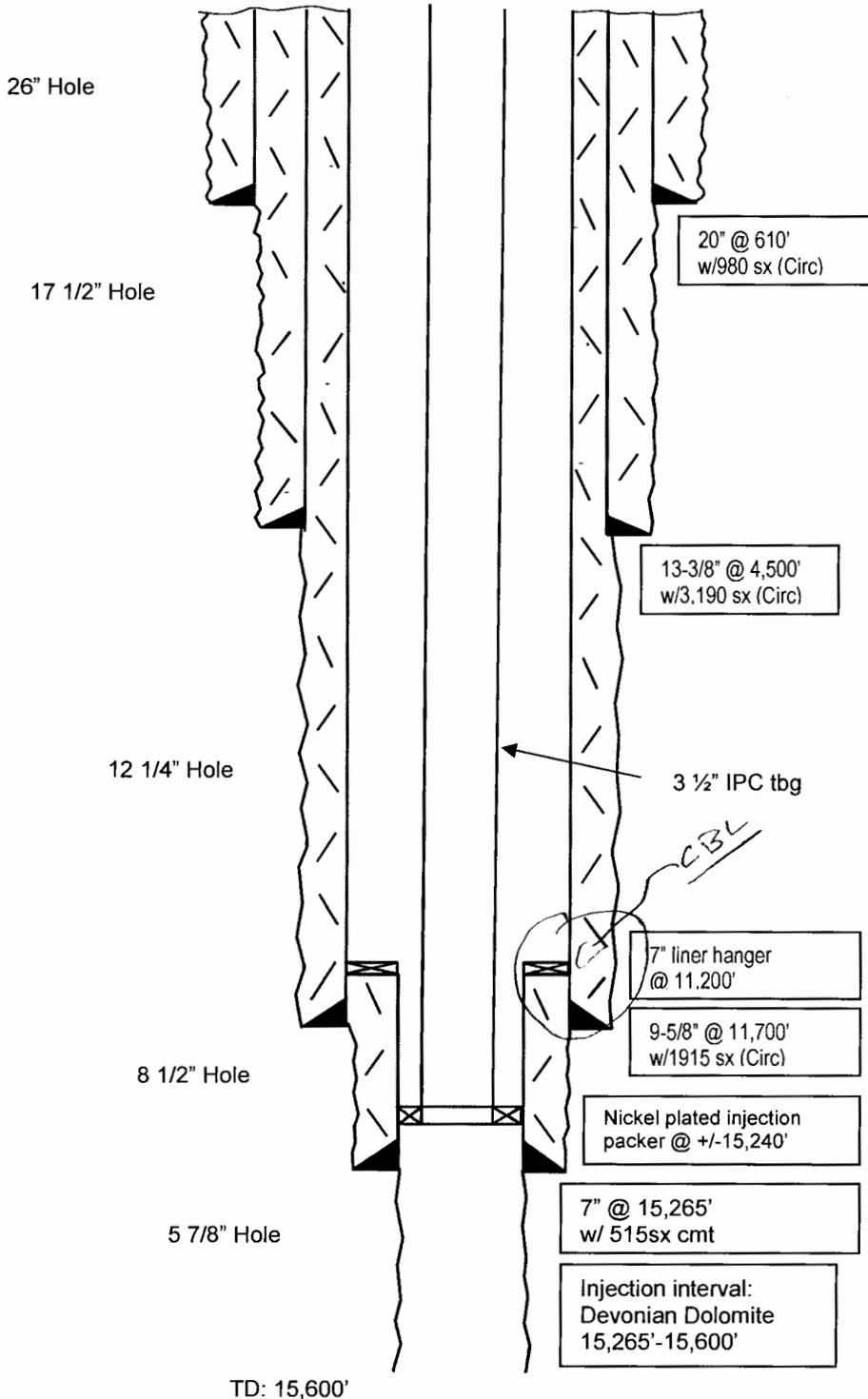
COMMENTS: New drill. APD application will be filed.

**CASING PROGRAM**

20" 94# J-55 ST&C	<b>610'</b>
13 3/8" 54.5# & 68# J-55 & HCL-80 ST&C	<b>4,500'</b>
9 5/8" 43.5# & 47# HCP-110 LT&C	<b>11,700'</b>
7" 32# Q-125 LT&C	<b>15,265'</b>

**Proposed**

TOPS	
Rustler	585'
TOS	1,000'
BOS	3,958'
Bell Canyon	4,427'
Cherry Canyon	5,360'
Brushy Canyon	7,202'
Bone Spr. Lime	8,322'
1 <sup>st</sup> Bone Spr.	9,360'
2 <sup>nd</sup> Bone Spr.	10,006'
3 <sup>rd</sup> Bone Spr.	10,939'
Wolfcamp	11,564'
Atoka	13,314'
Morrow	14,064'
Mississippian	14,664'
Devonian	15,214'



TD: 15,600'

**Not to Scale**  
9/2/2015  
BAL



**Address for Notice of Lost Tank SWD**

<b>Tract/Lease</b>	<b>Legal - Eddy County, NM</b>	<b>Operator or Affected Party</b>
V-1673	T21S-R31E Sec. 35: S/2, S/2NW	Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Abo Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Myco Industries, Inc. 105 S. 4th Street Artesia, NM 88210 Oxy Y-1 Company Attention: Land Manager - Permian Basin P. O. Box 4294 Houston, TX 77210-4294
LG-9280	T21S-R31E Sec. 35: NE, N/2NW	Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Abo Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Myco Industries, Inc. 105 S. 4th Street Artesia, NM 88210 Oxy Y-1 Company Attention: Land Manager - Permian Basin P. O. Box 4294 Houston, TX 77210-4294 Penroc Oil Corporation P. O. Box 2769 Hobbs, NM 88241-2769
V-3804	T21S-R31E Sec. 34: All	Oxy USA, Inc. 5 Greenway Plaza, Suite 110 Houston, TX 77046
NMNM-043556	T22S-R34E Sec. 1: Lots 1, 2 (N/2NW/4)	Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Abo Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 Myco Industries, Inc. 105 S. 4th Street Artesia, NM 88210 Oxy Y-1 Company Attention: Land Manager - Permian Basin P. O. Box 4294 Houston, TX 77210-4294 Matador Petroleum Corporation 14001 Dallas Parkway, Suite1000 Dallas, TX 75240-4384
V-3805	T22S-R31E Sec. 1: NW/4	Legacy Reserves Operating LP 303 West Wall, Suite 1400 Midland, TX 79701

Attachment C

Lost Tank SWD State #11  
Form C-108

Tabulation of data on wells within area of review

Well Name	Operator	Type	Spud	Total Depth	Producing Zone	Perforations	Completion Information
Lost Tank AIS St #1 1980' FSL & 660' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	12/7/1991	8550	Delaware	7148-8406	13 3/8" @ 869' Cmtd w/850 sx (circ) 8 5/8" @ 4,270' Cmtd w/1675 sx (circ) 5 1/2" @ 8,550' Cmtd w/1525 sx Stage 1: 250 sx (circ) Stage 2: 725 sx (circ) Stage 3: 550 sx DV tool @ 4592' & 7426' TOC @ 4200' (CBL)
Lost Tank AIS St #2 660' FSL & 1980' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	10/21/1991	8500	Delaware	6613-8346	13 3/8" @ 870' Cmtd w/850 sx (circ) 8 5/8" @ 4,230' Cmtd w/1700 sx (circ) 5 1/2" @ 8,490' Cmtd w/ Stage 1: 200 sx (circ) Stage 2: 700 sx (circ) Stage 3: 575 sx (circ) DV tool @ 4386' & 7386' TOC @ Surface.
Lost Tank AIS St #3 660' FSL & 1980' FWL Sec 36-21S-31E	Yates Petroleum Corp	Oil	12/29/1990	8620	Delaware	6783-7084	13 3/8" @ 852' Cmtd w/1000 sx (circ) 8 5/8" @ 4,430' Cmtd w/2000 sx (circ) 5 1/2" @ 8,620' Cmtd w/ Stage 1: 800sx (circ) Stage 2: 475 sx DV tool @ 5922' TOC @ 4400' (CBL)
Lost Tank AIS St #4 1980' FSL & 1980' FWL Sec 36-21S-31E	Yates Petroleum Corp	Oil	11/19/1991	8450	Delaware	6978-8294	13 3/8" @ 850' Cmtd w/850 sx (circ) 8 5/8" @ 4,175' Cmtd w/2225 sx (circ) 5 1/2" @ 8,450' Cmtd w/ Stage 1: 250 sx (circ) Stage 2: 825 sx (circ) Stage 3: 600 sx (circ) DV tool @ 4464' & 7411' TOC @ Surface.
Lost Tank AIS St #5 660' FSL & 660' FWL Sec 36-21S-31E	Yates Petroleum Corp	Oil	12/27/1991	8440	Delaware	7026-8272	13 3/8" @ 850' Cmtd w/850 sx (circ) 8 5/8" @ 4,180' Cmtd w/1600 sx (circ) 5 1/2" @ 8,440' Cmtd w/ Stage 1: 225 sx (circ) Stage 2: 575 sx (circ) Stage 3: 650 sx (circ) DV tool @ 4440' & 7432' TOC @ Surface.
Lost Tank AIS St #6 1980' FSL & 1980' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	11/5/1991	8610	Delaware	7057-8468	13 3/8" @ 868' Cmtd w/850 sx (circ) 8 5/8" @ 4,240' Cmtd w/1600 sx (circ) 5 1/2" @ 8,610' Cmtd w/ Stage 1: 325 sx (circ) Stage 2: 850 sx (circ) Stage 3: 675 sx (circ) DV tool @ 4533' & 7448' TOC @ Surface.
Lost Tank AIS St #7 2310' FNL & 2310' FWL Sec 36-21S-31E	Yates Petroleum Corp	Oil	5/17/2003	8500	Delaware	6834-8326	13 3/8" @ 865' Cmtd w/700 sx (circ) 8 5/8" @ 4,220' Cmtd w/1585 sx (circ) 5 1/2" @ 8,500' Cmtd w/

Well Name	Operator	Type	Spud	Producing		Perforations	Completion Information
				Total Depth	Zone		
Lost Tank AIS St #8 660' FSL & 660' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	10/2/1991	8530	Delaware	6875-8303	Stage 1: 600 sx Stage 2: 380 sx (circ) DV tool @ 4152' TOC @ 5533' (CBL)
Lost Tank AIS St #10 1650' FSL & 990' FWL Sec 36-21S-31E	Yates Petroleum Corp	Oil	10/2/1991 P&A 12/15/2010	8508	Delaware	6780-8256	13 3/8" @ 850' Cmtd w/700 sx (circ) 8 5/8" @ 4,200' Cmtd w/1300 sx (circ) 5 1/2" @ 8,508' Cmtd w/ Stage 1: 200 sx (circ) Stage 2: 600 sx (circ) Stage 3: 600 sx (circ) DV tool @ 4750' & 7435' TOC @ Surface.
Mary AIV State #1 1980' FNL & 1980' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	10/31/1991 P&A 12/26/2006	8470	Delaware	6991-7105	13 3/8" @ 852' Cmtd w/800 sx (circ) 8 5/8" @ 4,480' Cmtd w/1700 sx (circ) 5 1/2" @ 8,470' Cmtd w/ Stage 1: 260 sx (circ) Stage 2: 410 sx DV tool @ 7400' TOC @ 5704' (CBL) <b>See attached P&amp;A sketch</b> Spot cmt plugs @ 4432'-surface
Mary AIV State #3 660' FNL & 1980' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	5/20/1991	8500	Delaware	7013-7140	13 3/8" @ 850' Cmtd w/750 sx (circ) 8 5/8" @ 4,442' Cmtd w/1700 sx (circ) 5 1/2" @ 8,500' Cmtd w/ Stage 1: 250 sx (circ) Stage 2: 500 sx DV tool @ 7485' TOC @ 4470' (CBL)
Mary AIV State #5 660' FNL & 330' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	12/13/1991	8565	Delaware	6695-8443	13 3/8" @ 850' Cmtd w/850 sx (circ) 8 5/8" @ 4,260' Cmtd w/1600 sx (circ) 5 1/2" @ 8,557' Cmtd w/ Stage 1: 225 sx (circ) Stage 2: 600 sx (circ) Stage 3: 625 sx (circ) DV tool @ 4532' & 7370' TOC @ Surface.
Wolf AJA Fed Comm #21H SL: 1480' FSL & 650' FWL Sec 36-21S-31E BL: 215' FNL & 398' FWL Sec 25-21S-31E	Yates Petroleum Corp	Oil	6/25/2014	16745 8158 TVD	Delaware	8573-16632	13 3/8" @ 712' Cmtd w/560 sx (circ) 9 5/8" @ 4,405' Cmtd w/1110 sx (circ) 5 1/2" @ 8,557' Cmtd w/2820 sx (circ) TOC @ Surface.

WELL NAME: Lost Tank AIS State #10 FIELD: Lost Tank Delaware

LOCATION: 1,650' FSL & 990' FWL of Section 36-21S-31E Eddy Co., NM

GL: 3,549' ZERO: \_\_\_\_\_ KB: 3,561'

SPUD DATE: \_\_\_\_\_ COMPLETION DATE: \_\_\_\_\_

COMMENTS: API No.: 30-015-32522

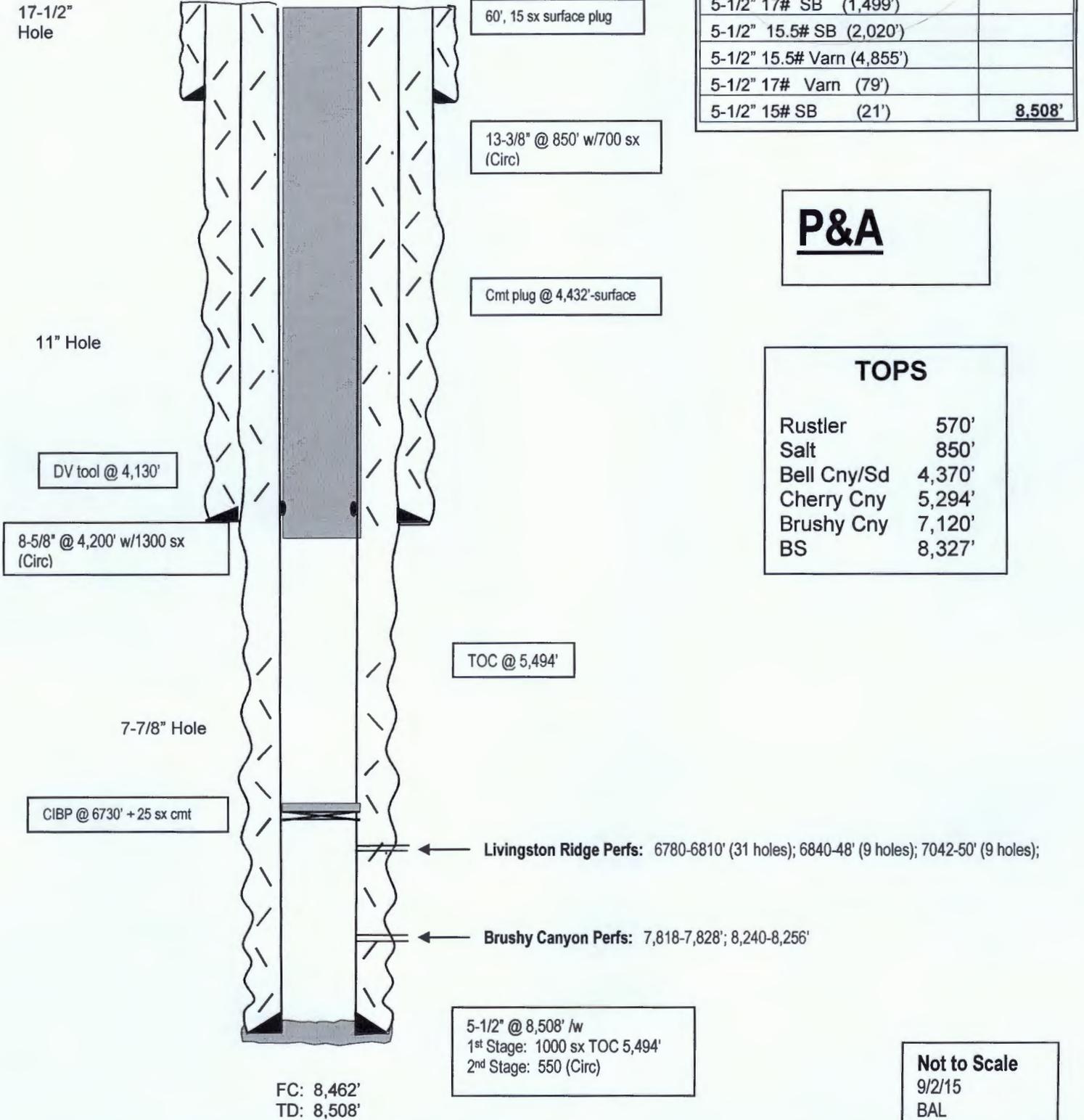
**CASING PROGRAM**

13-3/8" 48#	<b>850'</b>
8-5/8" 32#	<b>4,200'</b>
5-1/2" 17# SB (1,499')	
5-1/2" 15.5# SB (2,020')	
5-1/2" 15.5# Varn (4,855')	
5-1/2" 17# Varn (79')	
5-1/2" 15# SB (21')	<b>8,508'</b>

**P&A**

**TOPS**

Rustler	570'
Salt	850'
Bell Cny/Sd	4,370'
Cherry Cny	5,294'
Brushy Cny	7,120'
BS	8,327'



**Not to Scale**  
9/2/15  
BAL

**WELL NAME:** Mary AIV State #1 **FIELD:** Livingston Ridge

**LOCATION:** 1,980' FNL & 1,980' FEL of Section 36-21S-31E **Eddy Co., NM**

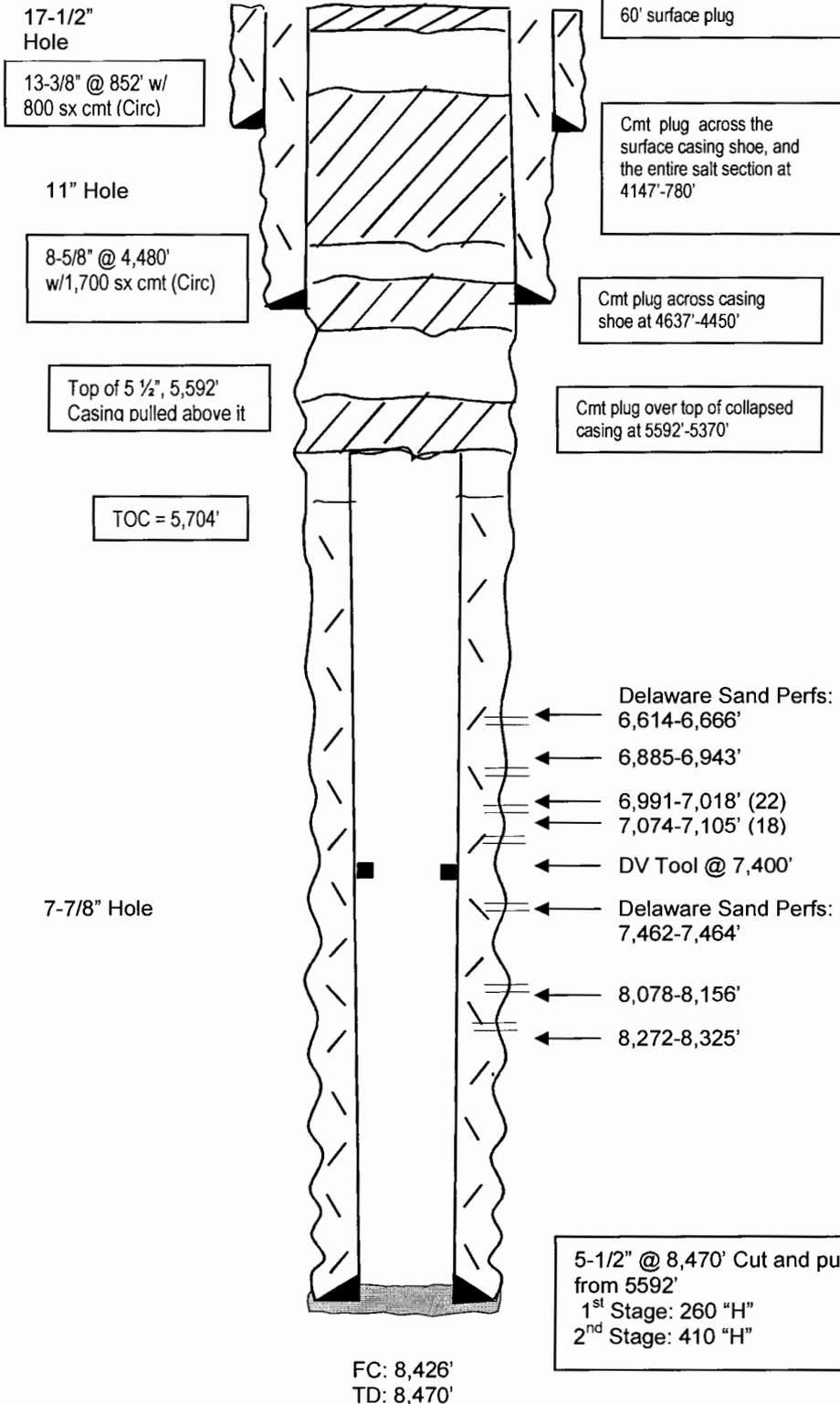
**GL:** 3,603' **ZERO:** 14' **KB:** 3,617'

**SPUD DATE:** 1/31/91 **COMPLETION DATE:** 4/8/91

**COMMENTS:** API No.: 30-015-26625

**CASING PROGRAM**

13-3/8" 54.5# J55 STC	<b>852'</b>
8-5/8" 32# S80/J55	<b>4,480'</b>
5-1/2" 15.5 & 17# J55 LTC	<b>8,470'*</b>
<b>*Cut and pulled from 5,592'</b>	



**P&A**

**TOPS**

Rustler	631'
Delaware	4,456'
Cherry Cny	5,489'
Brushy Cny	7,206'
Bone Spr.	8,392'

**Not to Scale**  
9/2/15  
BAL

# Attachment D: Example of water to be injected.



Permian Basin Area Laboratory  
2101 S Market Street  
Bldg. B

Report Date: 3/20/2015

## Complete Water Analysis Report SSP v.8

Customer:	YATES PETROLEUM	Sample Point Name	GRAHAM AKB #5
District:	New Mexico	Sample ID:	201501002570
Sales Rep:	Tony W Hernandez	Sample Date:	1/15/2015
Lease:	GRAHAM	Log Out Date:	1/29/2015
Site Type:	Well Sites	Analyst:	Samuel Newman
Sample Point Description:	WELL HEAD		

### YATES PETROLEUM, GRAHAM, GRAHAM AKB #5

Field Data		Analysis of Sample					
		Anions:		Cations:			
		mg/L	meq/L	mg/L	meq/L		
Initial Temperature (°F):	250	Chloride (Cl <sup>-</sup> ):	157032.5	4429.7	Sodium (Na <sup>+</sup> ):	66240.1	2882.5
Final Temperature (°F):	80	Sulfate (SO <sub>4</sub> <sup>2-</sup> ):	336.6	7.0	Potassium (K <sup>+</sup> ):	1422.3	36.4
Initial Pressure (psi):	100	Borate (H <sub>3</sub> BO <sub>3</sub> ):	290.2	4.7	Magnesium (Mg <sup>2+</sup> ):	3970.0	326.7
Final Pressure (psi):	15	Fluoride (F <sup>-</sup> ):	ND		Calcium (Ca <sup>2+</sup> ):	24789.3	1237.0
		Bromide (Br <sup>-</sup> ):	ND		Strontium (Sr <sup>2+</sup> ):	674.2	15.4
pH:		Nitrite (NO <sub>2</sub> <sup>-</sup> ):	ND		Barium (Ba <sup>2+</sup> ):	8.0	0.1
pH at time of sampling:	6.4	Nitrate (NO <sub>3</sub> <sup>-</sup> ):	ND		Iron (Fe <sup>2+</sup> ):	29.6	1.1
		Phosphate (PO <sub>4</sub> <sup>3-</sup> ):	ND		Manganese (Mn <sup>2+</sup> ):	6.7	0.2
		Silica (SiO <sub>2</sub> ):	ND		Lead (Pb <sup>2+</sup> ):	ND	
					Zinc (Zn <sup>2+</sup> ):	0.0	0.0
					Aluminum (Al <sup>3+</sup> ):	ND	
					Chromium (Cr <sup>3+</sup> ):	ND	
					Cobalt (Co <sup>2+</sup> ):	ND	
					Copper (Cu <sup>2+</sup> ):	ND	
					Molybdenum (Mo <sup>2+</sup> ):	ND	
					Nickel (Ni <sup>2+</sup> ):	ND	
					Tin (Sn <sup>2+</sup> ):	ND	
					Titanium (Ti <sup>2+</sup> ):	ND	
					Vanadium (V <sup>2+</sup> ):	ND	
					Zirconium (Zr <sup>2+</sup> ):	ND	
					Total Hardness:	79104	N/A
Alkalinity by Titration:	mg/L meq/L	Organic Acids:		mg/L meq/L			
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ):	193.0 3.2	Formic Acid:	ND				
Carbonate (CO <sub>3</sub> <sup>2-</sup> ):	ND	Acetic Acid:	ND				
Hydroxide (OH <sup>-</sup> ):	ND	Propionic Acid:	ND				
aqueous CO <sub>2</sub> (ppm):	340.0	Butyric Acid:	ND				
aqueous H <sub>2</sub> S (ppm):	0.0	Valeric Acid:	ND				
aqueous O <sub>2</sub> (ppb):	ND						
Calculated TDS (mg/L):	254992						
Density/Specific Gravity (g/cm <sup>3</sup> ):	1.1670						
Measured Density/Specific Gravity:	1.1814						
Conductivity (mmhos):	ND						
Resistivity:	ND						
MCF/D:	No Data						
BOPD:	No Data						
BWPD:	No Data	Anion/Cation Ratio:	0.99		ND = Not Determined		

Conditions		Barite (BaSO <sub>4</sub> )		Calcite (CaCO <sub>3</sub> )		Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O)		Anhydrite (CaSO <sub>4</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.88	4.120	1.92	48.894	-0.12	0.000	-0.19	0.000
99°F	24 psi	0.77	3.929	1.95	49.148	-0.11	0.000	-0.10	0.000
118°F	34 psi	0.66	3.690	2.00	49.513	-0.10	0.000	-0.01	0.000
137°F	43 psi	0.55	3.397	2.05	49.871	-0.10	0.000	0.08	27.101
156°F	53 psi	0.45	3.049	2.09	50.195	-0.10	0.000	0.17	53.431
174°F	62 psi	0.36	2.645	2.12	50.482	-0.11	0.000	0.26	75.287
193°F	72 psi	0.27	2.182	2.16	50.732	-0.11	0.000	0.36	93.183
212°F	81 psi	0.19	1.658	2.19	50.985	-0.11	0.000	0.45	107.612
231°F	91 psi	0.11	1.066	2.23	51.222	-0.12	0.000	0.54	119.068
250°F	100 psi	0.04	0.392	2.25	51.428	-0.13	0.000	0.63	128.035

Conditions		Celestite (SrSO <sub>4</sub> )		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO <sub>3</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.14	45.633	-0.44	0.000	-8.47	0.000	0.59	12.698
99°F	24 psi	0.16	50.070	-0.45	0.000	-8.57	0.000	0.69	13.987
118°F	34 psi	0.17	52.861	-0.47	0.000	-8.63	0.000	0.78	15.190
137°F	43 psi	0.17	55.077	-0.49	0.000	-8.67	0.000	0.87	16.117
156°F	53 psi	0.18	57.378	-0.50	0.000	-8.70	0.000	0.93	16.784
174°F	62 psi	0.19	60.130	-0.52	0.000	-8.72	0.000	0.98	17.240
193°F	72 psi	0.20	63.466	-0.53	0.000	-8.74	0.000	1.02	17.529
212°F	81 psi	0.22	67.338	-0.55	0.000	-8.75	0.000	1.04	17.728
231°F	91 psi	0.23	71.556	-0.56	0.000	-8.75	0.000	1.05	17.822
250°F	100 psi	0.25	75.830	-0.57	0.000	-8.76	0.000	1.04	17.803

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered  
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales  
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity. %CO<sub>2</sub> is not included in the calculations.



ScaleSoft Pitzer™  
SSP2010

Comments: \_\_\_\_\_

# Attachment D: Example of water to be injected

North Permian Basin Region  
P.O. Box 740  
Sundown, TX 79372-0740  
(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
(432) 681-8300

## Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	664631
Lease/Platform:	GRAHAM 'AKB' UNIT	Analysis ID #:	137804
Entity (or well #):	6	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 664631 @ 75 F			
		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	10/29/13	Chloride:	165433.0	Sodium:	74621.0
Analysis Date:	11/04/13	Bicarbonate:	61.0	Magnesium:	4100.0
Analyst:	SANDRA SANCHEZ	Carbonate:	0.0	Calcium:	27109.0
TDS (mg/l or g/m3):	274675.5	Sulfate:	402.0	Strontium:	1039.0
Density (g/cm3, tonne/m3):	1.184	Phosphate:		Barium:	3.5
Anion/Cation Ratio:	1.0716136	Borate:		Iron:	185.0
		Silicate:		Potassium:	1710.0
Carbon Dioxide:	400 PPM	Hydrogen Sulfide:	0 PPM	Aluminum:	
Oxygen:		pH at time of sampling:	6.6	Chromium:	
Comments:		pH at time of analysis:		Copper:	
		pH used in Calculation:	6.6	Lead:	
				Manganese:	12.000
				Nickel:	0.44

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	0.53	2.69	-0.15	0.00	-0.09	0.00	-0.03	0.00	0.58	1.35	0.07
100	0	0.58	2.96	-0.23	0.00	-0.11	0.00	-0.05	0.00	0.39	1.08	0.09
120	0	0.63	3.50	-0.29	0.00	-0.09	0.00	-0.06	0.00	0.22	0.81	0.11
140	0	0.67	4.04	-0.35	0.00	-0.06	0.00	-0.05	0.00	0.08	0.27	0.13

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- Note 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

# Attachment D: Example of water to be injected

North Permian Basin Region  
 P.O. Box 740  
 Sundown, TX 79372-0740  
 (806) 229-8121  
 Lab Team Leader - Sheila Hernandez  
 (432) 681-8300

## Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	661558
Lease/Platform:	LLAMA 'ALL' FEDERAL	Analysis ID #:	142343
Entity (or well #):	9 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 661558 @ 75 F			
		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	06/19/14	<b>Chloride:</b>	188547.0	<b>Sodium:</b>	75351.0
Analysis Date:	07/01/14	<b>Bicarbonate:</b>	61.0	<b>Magnesium:</b>	4854.0
Analyst:	SANDRA SANCHEZ	<b>Carbonate:</b>	0.0	<b>Calcium:</b>	33005.0
TDS (mg/l or g/m3):	305419.5	<b>Sulfate:</b>	342.0	<b>Strontium:</b>	1457.0
Density (g/cm3, tonne/m3):	1.205	Phosphate:		<b>Barium:</b>	2.5
Anion/Cation Ratio:	1.0145091	Borate:		<b>Iron:</b>	33.0
		Silicate:		<b>Potassium:</b>	1757.0
Carbon Dioxide:	340 PPM	Hydrogen Sulfide:	0 PPM	<b>Aluminum:</b>	
Oxygen:		pH at time of sampling:	4.9	<b>Chromium:</b>	
Comments:		pH at time of analysis:		<b>Copper:</b>	
		<b>pH used in Calculation:</b>	<b>4.9</b>	<b>Lead:</b>	
				<b>Manganese:</b>	10.000
				<b>Nickel:</b>	0.36

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	-1.06	0.00	-0.13	0.00	-0.06	0.00	-0.01	0.00	0.31	0.52	3.15
100	0	-0.97	0.00	-0.22	0.00	-0.08	0.00	-0.03	0.00	0.12	0.26	3.64
120	0	-0.89	0.00	-0.29	0.00	-0.07	0.00	-0.03	0.00	-0.05	0.00	4.09
140	0	-0.79	0.00	-0.34	0.00	-0.04	0.00	-0.02	0.00	-0.19	0.00	4.47

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- Note 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

# Attachment D: Example of water to be injected



Permian Basin Area Laboratory  
2101 S Market Street  
Bldg. B

Report Date: 3/20/2015

## Complete Water Analysis Report SSP v.8

Customer:	YATES PETROLEUM	Sample Point Name:	WOLF AJA FEDERAL #21H
District:	New Mexico	Sample ID:	201501002571
Sales Rep:	Tony W Hernandez	Sample Date:	1/15/2015
Lease:	WOLF	Log Out Date:	1/29/2015
Site Type:	Well Sites	Analyst:	Samuel Newman
Sample Point Description:	FWKO OUTLET		

### YATES PETROLEUM, WOLF, WOLF AJA FEDERAL #21H

Field Data		Analysis of Sample			
		Anions:		Cations:	
		mg/L	meq/L	mg/L	meq/L
Initial Temperature (°F):	250	Chloride (Cl):	152168.6	Sodium (Na <sup>+</sup> ):	64944.6
Final Temperature (°F):	80	Sulfate (SO <sub>4</sub> <sup>2-</sup> ):	367.0	Potassium (K <sup>+</sup> ):	1548.0
Initial Pressure (psi):	100	Borate (H <sub>3</sub> BO <sub>3</sub> ):	229.8	Magnesium (Mg <sup>2+</sup> ):	3798.6
Final Pressure (psi):	15	Fluoride (F):	ND	Calcium (Ca <sup>2+</sup> ):	24381.5
		Bromide (Br):	ND	Strontium (Sr <sup>2+</sup> ):	904.9
pH:		Nitrite (NO <sub>2</sub> ):	ND	Barium (Ba <sup>2+</sup> ):	2.1
pH at time of sampling:	5.6	Nitrate (NO <sub>3</sub> ):	ND	Iron (Fe <sup>2+</sup> ):	37.3
		Phosphate (PO <sub>4</sub> <sup>3-</sup> ):	ND	Manganese (Mn <sup>2+</sup> ):	7.1
		Silica (SiO <sub>2</sub> ):	ND	Lead (Pb <sup>2+</sup> ):	ND
				Zinc (Zn <sup>2+</sup> ):	0.0
				Aluminum (Al <sup>3+</sup> ):	ND
				Chromium (Cr <sup>3+</sup> ):	ND
				Cobalt (Co <sup>2+</sup> ):	ND
				Copper (Cu <sup>2+</sup> ):	ND
				Molybdenum (Mo <sup>2+</sup> ):	ND
				Nickel (Ni <sup>2+</sup> ):	ND
				Tin (Sn <sup>2+</sup> ):	ND
				Titanium (Ti <sup>2+</sup> ):	ND
				Vanadium (V <sup>2+</sup> ):	ND
				Zirconium (Zr <sup>2+</sup> ):	ND
				Total Hardness:	77637
					N/A
Alkalinity by Titration:		Organic Acids:			
		mg/L	meq/L		
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ):	61.0	Formic Acid:	ND		
Carbonate (CO <sub>3</sub> <sup>2-</sup> ):	ND	Acetic Acid:	ND		
Hydroxide (OH <sup>-</sup> ):	ND	Propionic Acid:	ND		
		Butyric Acid:	ND		
		Valeric Acid:	ND		
aqueous CO <sub>2</sub> (ppm):	340.0				
aqueous H <sub>2</sub> S (ppm):	0.0				
aqueous O <sub>2</sub> (ppb):	ND				
Calculated TDS (mg/L):	248450				
Density/Specific Gravity (g/cm <sup>3</sup> ):	1.1635				
Measured Density/Specific Gravity:	1.1754				
Conductivity (mmhos):	ND				
Resistivity:	ND				
MCF/D:	No Data				
BOPD:	No Data				
BWPD:	No Data	Anion/Cation Ratio:	0.97	ND = Not Determined	

Conditions		Barite (BaSO <sub>4</sub> )		Calcite (CaCO <sub>3</sub> )		Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O)		Anhydrite (CaSO <sub>4</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.33	0.686	0.59	8.608	-0.11	0.000	-0.19	0.000
99°F	24 psi	0.22	0.509	0.63	8.975	-0.10	0.000	-0.09	0.000
118°F	34 psi	0.11	0.289	0.68	9.514	-0.09	0.000	0.00	0.000
137°F	43 psi	0.01	0.021	0.74	10.047	-0.09	0.000	0.09	32.866
156°F	53 psi	-0.09	0.000	0.80	10.532	-0.09	0.000	0.18	61.529
174°F	62 psi	-0.18	0.000	0.85	10.963	-0.09	0.000	0.28	85.179
193°F	72 psi	-0.27	0.000	0.90	11.341	-0.09	0.000	0.37	104.436
212°F	81 psi	-0.35	0.000	0.96	11.745	-0.09	0.000	0.47	119.884
231°F	91 psi	-0.42	0.000	1.01	12.103	-0.10	0.000	0.56	132.096
250°F	100 psi	-0.49	0.000	1.06	12.419	-0.11	0.000	0.66	141.619

Conditions		Celestite (SrSO <sub>4</sub> )		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO <sub>3</sub> )	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.28	95.050	-0.48	0.000	-9.59	0.000	-0.63	0.000
99°F	24 psi	0.30	99.586	-0.50	0.000	-9.66	0.000	-0.53	0.000
118°F	34 psi	0.31	102.597	-0.51	0.000	-9.67	0.000	-0.42	0.000
137°F	43 psi	0.32	105.067	-0.53	0.000	-9.66	0.000	-0.33	0.000
156°F	53 psi	0.33	107.597	-0.54	0.000	-9.64	0.000	-0.25	0.000
174°F	62 psi	0.34	110.512	-0.56	0.000	-9.62	0.000	-0.18	0.000
193°F	72 psi	0.35	113.926	-0.57	0.000	-9.60	0.000	-0.13	0.000
212°F	81 psi	0.37	117.789	-0.58	0.000	-9.57	0.000	-0.09	0.000
231°F	91 psi	0.39	121.924	-0.60	0.000	-9.54	0.000	-0.06	0.000
250°F	100 psi	0.40	126.073	-0.61	0.000	-9.51	0.000	-0.05	0.000

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered  
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales  
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO<sub>2</sub> is not included in the calculations.



ScaleSoft Pitzer™  
SSP2010

Comments: \_\_\_\_\_

## Attachment E

Certified Notification letters sent to:

### **1. Surface owner:**

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

### **2. Operators within ½ mile radius:**

T21S-R31E  
Section 35: S/2, S/2NW  
Lease: V-1673  
&  
Section 35: NE, N/2NW  
Lease: LG-9280  
&  
T22S-R31E  
Section 1: Lots 1, 2 (N/2NW/4)  
Lease: NMNM-043556

Yates Petroleum Corporation  
105 South 4<sup>th</sup> Street, Artesia, NM 88210

Abo Petroleum Corporation  
105 South 4<sup>th</sup> Street, Artesia, NM 88210

Myco Industries, Inc.  
105 South 4<sup>th</sup> Street, Artesia, NM 88210

Oxy Y-1 Company  
Attention: Land Manager – Permian Basin  
PO Box 4294, Houston, TX 77210-4294

T21S-R31E  
Section 35: NE, N/2NW  
Lease: LG-9280

Penroc Oil Corporation  
PO Box 2769, Hobbs, NM 88241-2769

T21S-R31E  
Section 34: All  
Lease: V-3604

Oxy USA, Inc.  
5 Greenway Plaza, Suite 110, Houston, TX 77046

T22S-R31E  
Section 1: Lots 1, 2 (N/2NW/4)  
Lease: NMNM-043556

Matador Petroleum Corporation  
14001 Dallas Parkway, Suite 1000, Dallas, TX 75240-4384

T22S-R31E  
Section 1: NW/4  
Lease: V-3605

Legacy Reserves Operating LP  
303 West Wall, Suite 1400, Midland, TX 79701

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (575) 748-1471  
www.yatespetroleum.com

JOHN A. YATES  
CHAIRMAN EMERITUS

JOHN A. YATES JR.  
CHAIRMAN OF THE BOARD

DOUGLAS E. BROOKS  
PRESIDENT  
CHIEF EXECUTIVE OFFICER

JOHN D. PERINI  
EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

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

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

U.S. Postal Service™ <b>CERTIFIED MAIL™ RECEIPT</b> (Domestic Mail Only; No Insurance Coverage Provided)											
For delivery information visit our website at www.usps.com.											
OFFICIAL USE											
<table border="1" style="width: 100%;"> <tr> <td style="width: 70%;">Postage</td> <td style="width: 30%;">\$ 7.61</td> </tr> <tr> <td>Certified Fee</td> <td></td> </tr> <tr> <td>Return Receipt Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Restricted Delivery Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td><b>Total Postage &amp; Fees</b></td> <td><b>\$</b></td> </tr> </table>	Postage	\$ 7.61	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		<b>Total Postage &amp; Fees</b>	<b>\$</b>	
Postage	\$ 7.61										
Certified Fee											
Return Receipt Fee (Endorsement Required)											
Restricted Delivery Fee (Endorsement Required)											
<b>Total Postage &amp; Fees</b>	<b>\$</b>										
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SECRETARY

DENNIS G. KINSEY  
TREASURER

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

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EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

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EXECUTIVE VICE PRESIDENT  
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JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Intrepid Potash, Inc.  
707 17th Street, Suite 4200  
Denver, CO 80202

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

KATHY H. PORTER  
SECRETARY

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City, State, Z.

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JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Abo Petroleum Corporation  
105 South 4th Street  
Artesia, NM 88210

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

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105 S. 4<sup>th</sup> St  
Artesia, NM 88210

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DATE 928 1000 0302 2007

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S.P. YATES  
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JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Legacy Reserves Operating LP  
303 West Wall, Suite 1400  
Midland, TX 79701

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

1222 6929 1000 0E02 2002

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CHIEF OPERATING OFFICER

September 2, 2015

Matador Petroleum Corporation  
14001 Dallas Parkway, Suite 1000  
Dallas, TX 75240-4384

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

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JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Myco Industries, Inc.  
105 South 4th Street  
Artesia, NM 88210

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

097E 6928 T000 0E02 2007

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City, State, ZIP	Artesia, NM 88210

PS Form 3849

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CHIEF FINANCIAL OFFICER  
JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Oxy Y-1 Company  
Att: Land Manager – Permian Basin  
PO Box 4294  
Houston, TX 77210-4294

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

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Total Postage & Fees	\$
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Street, Apt. No.; or PO Box No.	Att: Land Manager – Permian Basin PO Box 4294
City, State, ZIP+4	Houston, TX 77210-4294
PS Form 3800, Aug	

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1936-1986  
S.P. YATES  
1914-2008



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EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER  
JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

OXY USA, Inc.  
5 Greenway Plaza, Suite 110  
Houston, TX 77046

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

7002 2030 0001 8269 3214

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City, State, ZIP	Houston, TX 77046
PS Form 3800,	

KATHY H. PORTER  
SECRETARY

DENNIS G. KINSEY  
TREASURER

MARTIN YATES, III  
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FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



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TELEPHONE (575) 748-1471

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EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

September 2, 2015

Penroc Oil Corporation  
PO Box 2769  
Hobbs, NM 88241-2769

Re: Lost Tank SWD State #11

To Whom It May Concern:

Please see enclosed copy of form C-108 (Application for Authority to Inject) for said well located in Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please feel free to contact me at (575)748-4180.

Sincerely,

Brice A. Letcher  
Area Engineer  
Yates Petroleum Corporation

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Hobbs, NM 88241-2769	
Street, Apt. or PO Box	
City, State,	

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SECRETARY

DENNIS G. KINSEY  
TREASURER

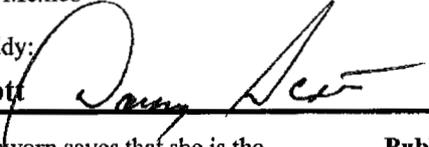
# Affidavit of Publication

No. 23630

State of New Mexico

County of Eddy:

**Danny Scott**



being duly sworn says that she is the Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

### Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication September 4, 2015

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

Sixth Publication \_\_\_\_\_

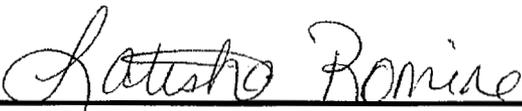
Subscribed and sworn before me this

4th day of September 2015



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico

# Copy of Publication:

## 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 Lost Tank SNO State #11, is located 2287 FSL & 2287 FNL, Unit K, Section 36, Township 21 South, Range 31 East of Eddy County, New Mexico and will be used for surface water disposal. Produced water from the Bone Springs and Delaware will be re-injected into the Devonian Dolomite at a depth of 15,265-15,610' with a maximum pressure of 3,120 psi and a maximum rate of 15,000 Bbl/D.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1230 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Brice Lattner at (575) 748-4180.

Published in the Artesia Daily Press, Artesia, N.M., Sept. 4, 2015 Legal No. 23630.

Attachment F.

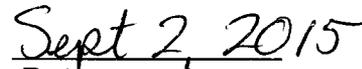
**Attachment G**

C-108 Application for Authorization to Inject  
Yates Petroleum Corporation  
Lost Tank SWD State #11

Unit K, Section 36-T21S-R31E  
Eddy 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.

  
Alec Mauritsen  
Geologist  
Yates Petroleum Corporation

  
Date



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column
<u>C 02727</u>	ED		ED	3	1	1	33	21S	31E	613716	3589809*	913	
<u>C 02949 EXPL</u>	ED		ED	1	1	4	34	21S	31E	616140	3589231*	970	

Average Depth to Water: --  
Minimum Depth: --  
Maximum Depth: --

**Record Count: 2**

**PLSS Search:**

Section(s): 33-35

Township: 21S

Range: 31E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



---

*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

PLSS Search:

Section(s): 1-3

Township: 22S

Range: 31E

---

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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---

*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

**PLSS Search:**

**Section(s):** 31-33

**Township:** 22S

**Range:** 32E



ORDER TYPE: WFX / PMX / SWD Number: \_\_\_\_\_ Order Date: \_\_\_\_\_ Legacy Permits/Orders: \_\_\_\_\_

Well No. 11 Well Name(s): LOST TANK SWD State

API: 30-0 15-43367 Spud Date: \_\_\_\_\_ New or Old: N (UIC Class II Primacy 03/07/1982)  
2080 FSL  
Footages 2397 FWL Lot \_\_\_\_\_ or Unit 1 Sec 36 Tsp 215 Rge 31E County EDL

General Location: ~35 miles W/Eunic Pool: SWD, DEUSIAN Pool No.: 6601

BLM 100K Map: 5A1 Operator: Petroleum Corp OGRID: 25575 Contact: Brice Letcher

COMPLIANCE RULE 5.9: Total Wells: 2305 Inactive: 4 Fincl Assur: Y Compl. Order? N IS 5.9 OK? Y Date: 10-2-2015

WELL FILE REVIEWED  Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: N/A

Planned Rehab Work to Well: \* LBL 6W 9 5/8 5 7" Liner

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (Sx or Cf)	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>26 / 20"</u>	<u>610</u>	<u>680</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2 / 13 3/8"</u>	<u>4500</u>	<u>3190</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 9 5/8"</u>	<u>11700</u>	<u>1915</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Prod <input checked="" type="checkbox"/> Line	<u>8 3/4 / 7"</u>	<u>15265</u>	<u>515</u>	<u>11200</u>
Planned ___ or Existing ___ Liner				

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>MS</u>	<u>14664</u>	Drilled TD <u>15600</u> PBTD _____
Confining Unit: Litho. Struc. Por.		<u>DEU</u>	<u>15214</u>	NEW TD _____ NEW PBTD _____
Proposed Inj Interval TOP:	<u>15265</u>			NEW Open Hole <input type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>15600</u>			Tubing Size <u>3 1/2</u> in. Inter Coated? _____
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>15240</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>1565</u> (100-ft limit)
				Proposed Max. Surface Press. <u>3100</u> psi
				Admin. Inj. Press. <u>3053</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P  Noticed?  BLM Sec Ord  WIPP  Noticed? \_\_\_\_\_ Salt/Salado T: \_\_\_\_\_ B: \_\_\_\_\_ NW: Cliff House fm \_\_\_\_\_

FRESH WATER: Aquifer N/A; G... Max Depth 600' HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: CAPITAN CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? \_\_\_\_\_ FW Analysis \_\_\_\_\_

Disposal Fluid: Formation Source(s) Delaware Bone Spring Analysis? \_\_\_\_\_ On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 1000/15004 Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System: Closed  or Open

HC Potential: Producing Interval? \_\_\_\_\_ Formerly Producing? \_\_\_\_\_ Method:  Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map?  Well List?  Total No. Wells Penetrating Interval: 0 Horizontals? \_\_\_\_\_

Penetrating Wells: No. Active Wells 0 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 0 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

NOTICE: Newspaper Date Sept 4 Mineral Owner NMSLU Surface Owner NMSLU N. Date Sept 4

RULE 26.7(A): Identified Tracts?  Affected Persons: LEGACY, Oxy, Penrod N. Date Sept 4

Order Conditions: Issues: \_\_\_\_\_

Add Order Cond: \_\_\_\_\_

**McMillan, Michael, EMNRD**

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**From:** Salaz, Robert <rsalaz@blm.gov>  
**Sent:** Tuesday, October 06, 2015 7:41 AM  
**To:** McMillan, Michael, EMNRD  
**Subject:** Yates Petroleum Lost Tank State SWD Well No. 11

Mr. McMillan,

The BLM Geologist is OK with casing set points.

However, does the state allow such deep wells to be drilled with a 5M BOP? This well is going to 15,600 feet, they most likely will encounter high pressures and having adequate mud weight and BOP is highly recommended from the BLM.

Thanks,  
Zeke

**Robert Zeke Salaz**  
**Geologist**  
**Bureau of Land Management**  
**Carlsbad Field Office**  
**(575) 234-5918**