

9/17/2015 DATE IN	SUSPENSE	ENGINEER <i>PRG</i>	9/18/2015 LOGGED IN	SWD TYPE	PMAMIS2453029 APP NO.
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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



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 _____

[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

Print or Type Name

Brice A. Letcher
 Signature

Area Engineer

Title

09/02/2015

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

JOHN A. YATES
CHAIRMAN EMERITUS

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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 10 2015
OIL CONSERVATION
DIVISION
SANTA FE, NM

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6101 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
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3460 Fax: (505) 478-3462

NM OIL CONSERVATION
ARTESIA DISTRICT

State of New Mexico SEP 08 2015
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 12, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

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

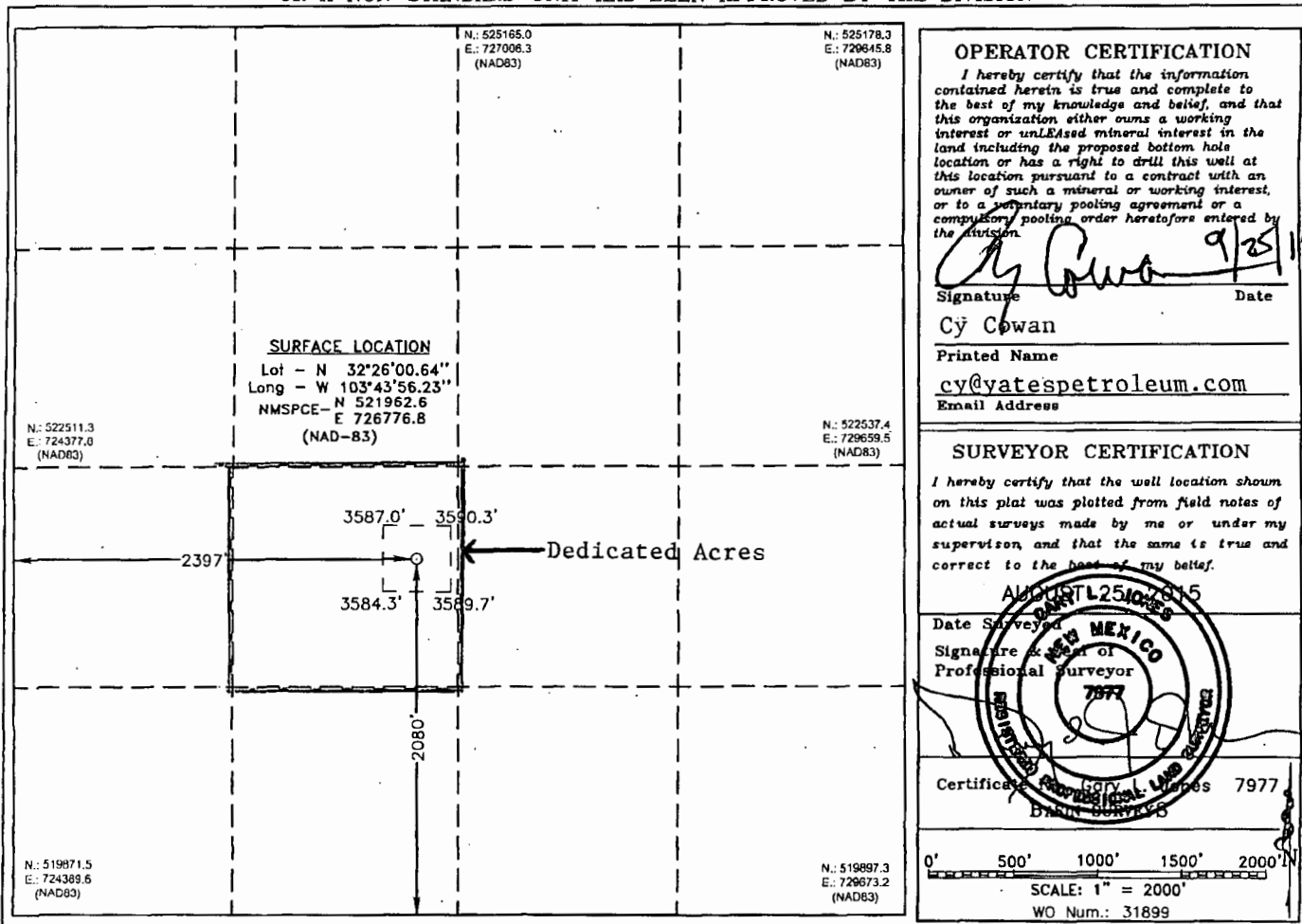
Surface Location

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



APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: Yates Petroleum Corporation
ADDRESS: 105 South 4th Street, Artesia, NM 88210
CONTACT PARTY: Brice Letcher PHONE: (575) 748-4180
- 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 reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic 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: Brice A. Letcher TITLE: Area Engineer

SIGNATURE: Brian A. Setzler DATE: 09/02/2015

E-MAIL ADDRESS: bletcher@yatespetroleum.com

- * 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:

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.

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 BWPD. Maximum daily injection volume approximately 15,000 BWPD.
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

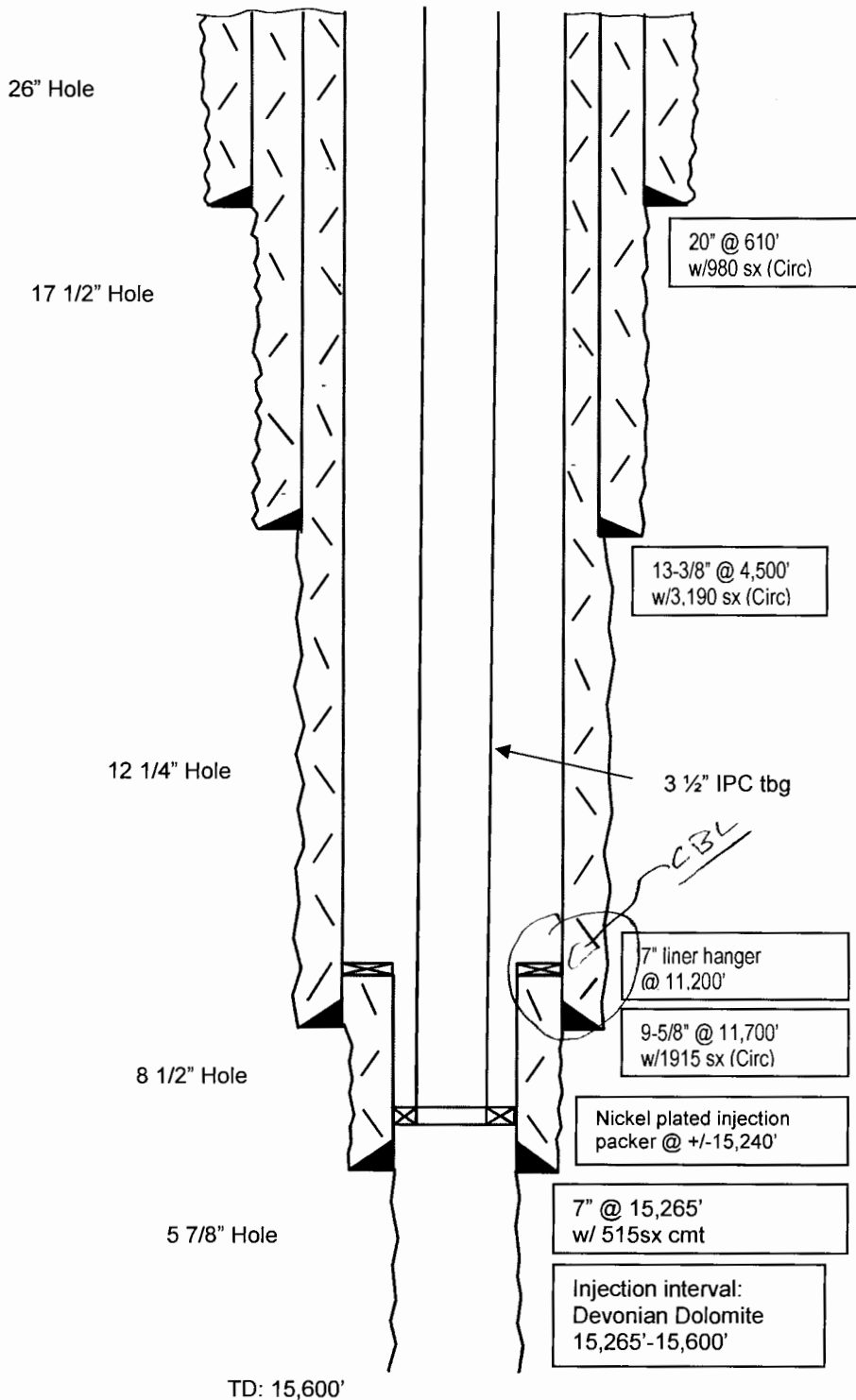
GL: 3,580' (est) **ZERO:** _____ **KB:** _____ **3,605' (est)**

SPUD DATE: _____ **COMPLETION DATE:** _____

COMMENTS: New drill. APD application will be filed.

CASING PROGRAM

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



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 st Bone Spr.	9,360'
2 nd Bone Spr.	10,006'
3 rd Bone Spr.	10,939'
Wolfcamp	11,564'
Atoka	13,314'
Morrow	14,064'
Mississippian	14,664'
Devonian	15,214'

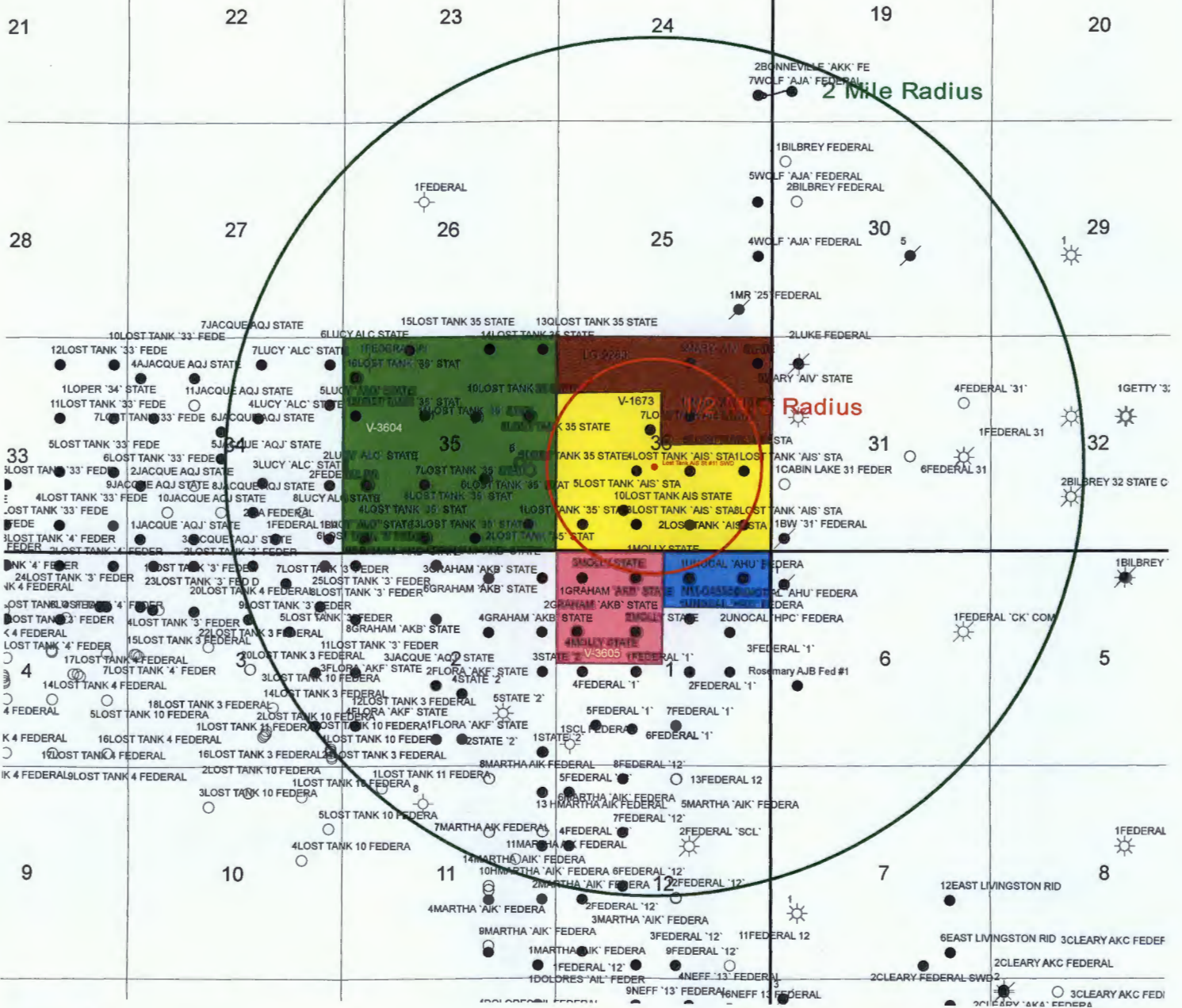
Not to Scale

9/2/2015
BAL

Attachment B

13 51E

1688PFCFEDEF



NM-043556

V-3605

V-1673

LG-9280

V-3604

1/2 Mile Radius

2 Mile Radius

Yates Petroleum Corporation

Eddy County, NM
Lost Tank 'AIS' St #11 SWD
Plat: 21S-31E

Author: Chuck M.	Date: 1 September 2015
Scale:	Permian Basin - TP CM Lost Tank SWD #11.

Address for Notice of Lost Tank SWD

Tract/Lease	Legal - Eddy County, NM	Operator or Affected Party
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, Suite 1000 Dallas, TX 75240-4384
V-3605	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' Cmtld w/850 sx (circ) 8 5/8" @ 4,270' Cmtld w/1675 sx (circ) 5 1/2" @ 8,550' Cmtld 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' Cmtld w/850 sx (circ) 8 5/8" @ 4,230' Cmtld w/1700 sx (circ) 5 1/2" @ 8,490' Cmtld 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' Cmtld w/1000 sx (circ) 8 5/8" @ 4,430' Cmtld w/2000 sx (circ) 5 1/2" @ 8,620' Cmtld 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' Cmtld w/850 sx (circ) 8 5/8" @ 4,175' Cmtld w/2225 sx (circ) 5 1/2" @ 8,450' Cmtld 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' Cmtld w/850 sx (circ) 8 5/8" @ 4,180' Cmtld w/1600 sx (circ) 5 1/2" @ 8,440' Cmtld 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' Cmtld w/850 sx (circ) 8 5/8" @ 4,240' Cmtld w/1600 sx (circ) 5 1/2" @ 8,610' Cmtld 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' Cmtld w/700 sx (circ) 8 5/8" @ 4,220' Cmtld w/1585 sx (circ) 5 1/2" @ 8,500' Cmtld w/

Well Name	Operator	Type	Spud	Total Depth	Producing Zone	Perforations	Completion Information
							Stage 1: 600 sx Stage 2: 380 sx (circ) DV tool @ 4152' TOC @ 5533' (CBL)
Lost Tank AIS St #8 660' FSL & 660' FEL Sec 36-21S-31E	Yates Petroleum Corp	Oil	10/2/1991	8530	Delaware	6875-8303	13 3/8" @ 875' Cmt d w/750 sx (circ) 8 5/8" @ 4,500' Cmt d w/1700 sx (circ) 5 1/2" @ 8,530' Cmt d w/ Stage 1: 200 sx (circ) Stage 2: 600 sx (circ) Stage 3: 600 sx (circ) DV tool @ 4750' & 7435' TOC @ Surface.
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' Cmt d w/700 sx (circ) 8 5/8" @ 4,200' Cmt d w/1300 sx (circ) 5 1/2" @ 8,508' Cmt d w/ Stage 1: 1000 sx Stage 2: 550 sx (circ) DV tool @ 4130' TOC @ 5494' (CBL) See attached P&A sketch CIBP @ 6730' + 25 sx cmt Spot cmt plugs @ 4432'-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' Cmt d w/800 sx (circ) 8 5/8" @ 4,480' Cmt d w/1700 sx (circ) 5 1/2" @ 8,470' Cmt d w/ Stage 1: 260 sx (circ) Stage 2: 410 sx DV tool @ 7400' TOC @ 5704' (CBL) See attached P&A sketch Spot cmt plugs @ 5592'-5370' 4637'-4450' 4147'-780' 60'-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' Cmt d w/750 sx (circ) 8 5/8" @ 4,442' Cmt d w/1700 sx (circ) 5 1/2" @ 8,500' Cmt d 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' Cmt d w/850 sx (circ) 8 5/8" @ 4,260' Cmt d w/1600 sx (circ) 5 1/2" @ 8,557' Cmt d 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 Zone #21H SL: 1480' FSL & 650' FWL Sec 36-21S-31E BL: 21S FNL & 398' FWL Sec 25-21S-31E	Yates Petroleum Corp	Oil	6/25/2014	16745 8158 TVD	Delaware	8573-16632	13 3/8" @ 712' Cmt d w/560 sx (circ) 9 5/8" @ 4,405' Cmt d w/1110 sx (circ) 5 1/2" @ 8,557' Cmt d 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

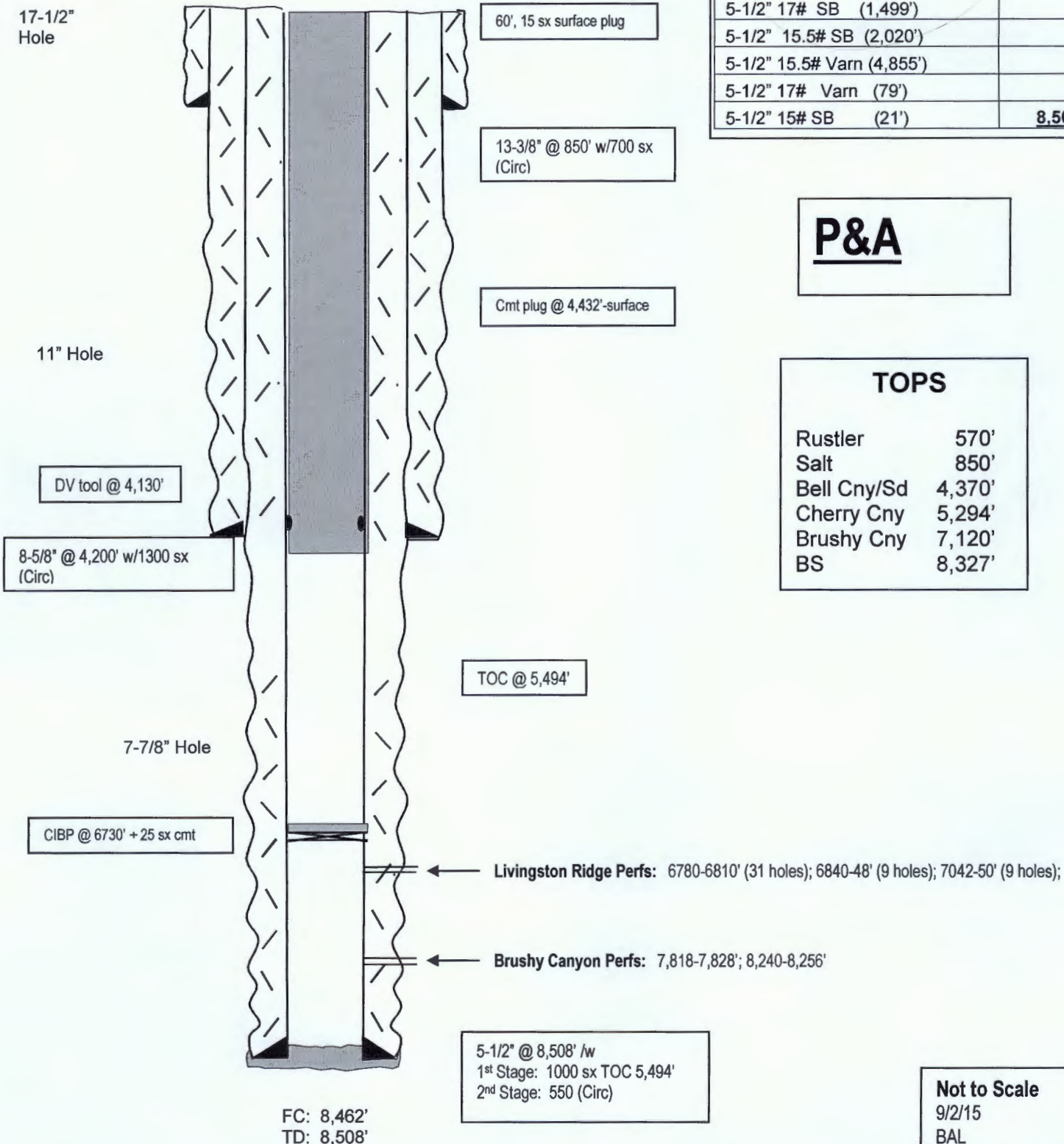
CASING PROGRAM

13-3/8" 48#	850'
8-5/8" 32#	4,200'
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')	8,508'

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

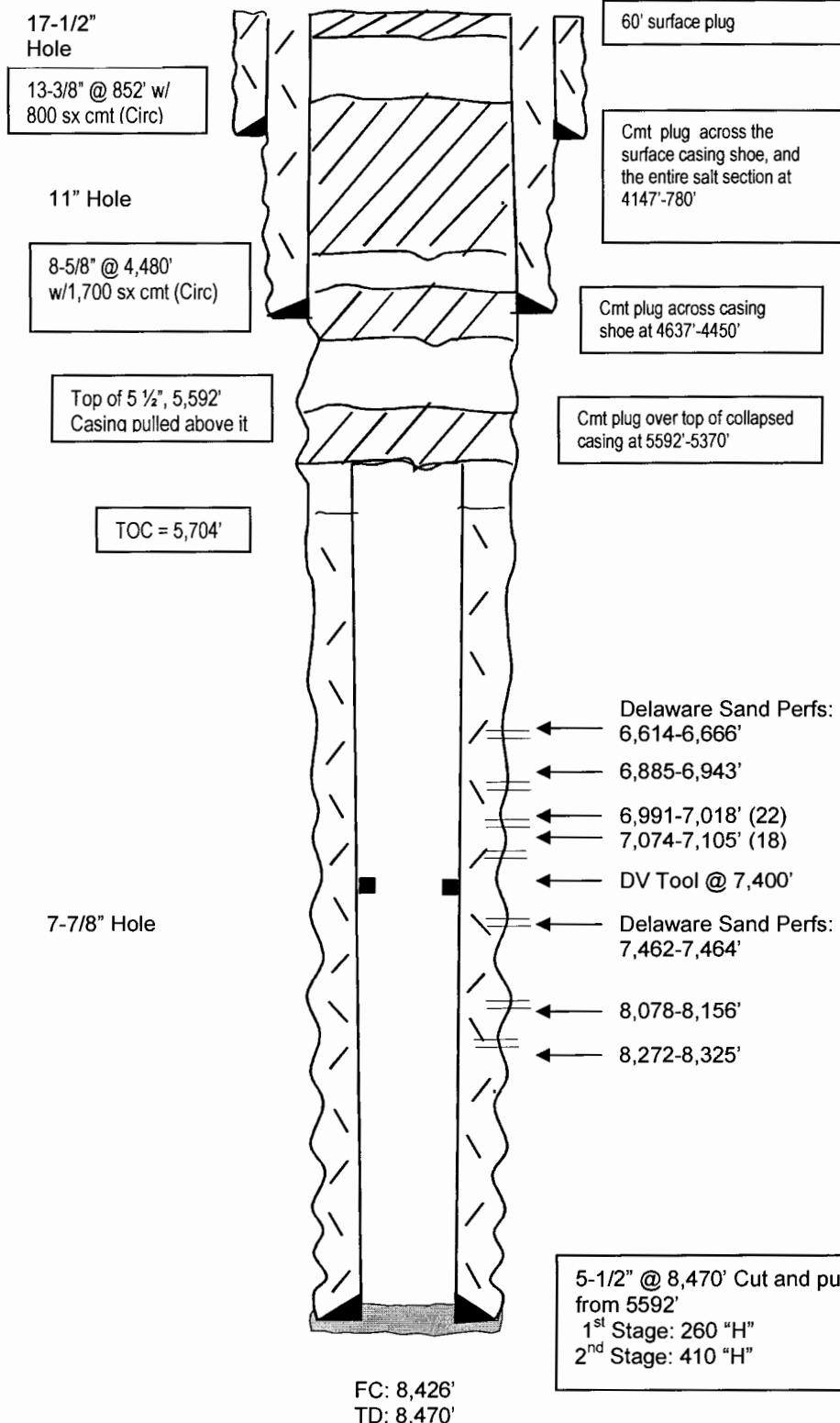
GL: 3,603' ZERO: 14' KB: 3,617'

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	852'
8-5/8" 32# S80/J55	4,480'
5-1/2" 15.5 & 17# J55 LTC	8,470'*
*Cut and pulled from 5,592'	



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:	
Initial Temperature (°F):	250	Chloride (Cl):	157032.5	Sodium (Na ⁺):	66240.1
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):	336.6	Potassium (K ⁺):	1422.3
Initial Pressure (psi):	100	Borate (H ₃ BO ₃):	290.2	Magnesium (Mg ²⁺):	3970.0
Final Pressure (psi):	15	Fluoride (F):	ND	Calcium (Ca ²⁺):	24789.3
		Bromide (Br):	ND	Strontium (Sr ²⁺):	674.2
pH:		Nitrite (NO ₂ ⁻):	ND	Barium (Ba ²⁺):	8.0
pH at time of sampling:	6.4	Nitrate (NO ₃ ⁻):	ND	Iron (Fe ²⁺):	29.6
		Phosphate (PO ₄ ³⁻):	ND	Manganese (Mn ²⁺):	6.7
		Silica (SiO ₂):	ND	Lead (Pb ²⁺):	ND
				Zinc (Zn ²⁺):	0.0
Alkalinity by Titration:				Aluminum (Al ³⁺):	ND
Bicarbonate (HCO ₃ ⁻):	193.0			Chromium (Cr ³⁺):	ND
Carbonate (CO ₃ ²⁻):	ND			Cobalt (Co ²⁺):	ND
Hydroxide (OH ⁻):	ND			Copper (Cu ²⁺):	ND
		Organic Acids:		Molybdenum (Mo ²⁺):	ND
aqueous CO ₂ (ppm):	340.0	Formic Acid:	ND	Nickel (Ni ²⁺):	ND
aqueous H ₂ S (ppm):	0.0	Acetic Acid:	ND	Tin (Sn ²⁺):	ND
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND	Titanium (Ti ²⁺):	ND
		Butyric Acid:	ND	Vanadium (V ²⁺):	ND
Calculated TDS (mg/L):	254992	Valeric Acid:	ND	Zirconium (Zr ²⁺):	ND
Density/Specific Gravity (g/cm ³):	1.1670			Total Hardness:	79104
Measured Density/Specific Gravity	1.1814				N/A
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 ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
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 ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
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. %CO₂ is not included in the calculations.

Comments:

ScaleSoft Pitzer™
SSP2010

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					
Sampling Date:	10/29/13	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	11/04/13	Chloride:	165433.0	4666.26	Sodium:	74621.0	3245.83
Analyst:	SANDRA SANCHEZ	Bicarbonate:	61.0	1.	Magnesium:	4100.0	337.28
TDS (mg/l or g/m3):	274675.5	Carbonate:	0.0	0.	Calcium:	27109.0	1352.74
Density (g/cm3, tonne/m3):	1.184	Sulfate:	402.0	8.37	Strontium:	1039.0	23.72
Anion/Cation Ratio:	1.0716136	Phosphate:			Barium:	3.5	0.05
		Borate:			Iron:	185.0	6.69
		Silicate:			Potassium:	1710.0	43.73
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	0.44
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
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 CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ 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					
Sampling Date:	06/19/14	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	07/01/14	Chloride:	188547.0	5318.22	Sodium:	75351.0	3277.58
Analyst:	SANDRA SANCHEZ	Bicarbonate:	61.0	1.	Magnesium:	4854.0	399.31
TDS (mg/l or g/m3):	305419.5	Carbonate:	0.0	0.	Calcium:	33005.0	1646.96
Density (g/cm3, tonne/m3):	1.205	Sulfate:	342.0	7.12	Strontium:	1457.0	33.26
Anion/Cation Ratio:	1.0145091	Phosphate:			Barium:	2.5	0.04
		Borate:			Iron:	33.0	1.19
		Silicate:			Potassium:	1757.0	44.93
Carbon Dioxide:	340 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		4.9	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		4.9	Lead:		
					Manganese:	10.000	0.36
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
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 CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 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:		mg/L	meq/L	Cations:		mg/L	meq/L	
Initial Temperature (°F):	250	Chloride (Cl):		152168.6	4292.5	Sodium (Na ⁺):		64944.6	2826.1	
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):		367.0	7.6	Potassium (K ⁺):		1548.0	39.6	
Initial Pressure (psi):	100	Borate (H ₃ BO ₃):		229.8	3.7	Magnesium (Mg ²⁺):		3798.6	312.6	
Final Pressure (psi):	15	Fluoride (F):		ND		Calcium (Ca ²⁺):		24381.5	1216.6	
pH:	5.6	Bromide (Br):		ND		Strontium (Sr ²⁺):		904.9	20.7	
		Nitrite (NO ₂):		ND		Barium (Ba ²⁺):		2.1	0.0	
		Nitrate (NO ₃):		ND		Iron (Fe ³⁺):		37.3	1.3	
		Phosphate (PO ₄ ³⁻):		ND		Manganese (Mn ²⁺):		7.1	0.3	
		Silica (SiO ₂):		ND		Lead (Pb ²⁺):		ND		
						Zinc (Zn ²⁺):		0.0	0.0	
Alkalinity by Titration:		mg/L		meq/L						
Bicarbonate (HCO ₃ ⁻):	61.0			1.0	Aluminum (Al ³⁺):					ND
Carbonate (CO ₃ ²⁻):	ND				Chromium (Cr ³⁺):					ND
Hydroxide (OH ⁻):	ND				Cobalt (Co ²⁺):					ND
					Copper (Cu ²⁺):					ND
		Organic Acids:			mg/L	meq/L	Molybdenum (Mo ²⁺):			ND
aqueous CO ₂ (ppm):	340.0	Formic Acid:		ND	Nickel (Ni ²⁺):					ND
aqueous H ₂ S (ppm):	0.0	Acetic Acid:		ND	Tin (Sn ²⁺):					ND
aqueous O ₂ (ppb):	ND	Propionic Acid:		ND	Titanium (Ti ²⁺):					ND
		Butyric Acid:		ND	Vanadium (V ²⁺):					ND
Calculated TDS (mg/L):	248450	Valeric Acid:		ND	Zirconium (Zr ²⁺):					ND
Density/Specific Gravity (g/cm ³):	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			

ND = Not Determined

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
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 ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
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; %CO₂ is not included in the calculations.

Comments:

ScaleSoftPitter™
SSP2010

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 4th Street, Artesia, NM 88210

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

Myco Industries, Inc.
105 South 4th 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 TM	
CERTIFIED MAIL TM RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	State of New Mexico
Street, Apt. No., or PO Box No.	Commissioner of Public Lands
City, State, ZIP+4	P.O. Box 1148
	Santa Fe, New Mexico 87504-1148

PS Form 3800, A

7010 3090 0002 5765 2908

Postmark
SEP 2 2015
ARTESIA, NM

KATHY H. PORTER
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

JOHN A. YATES
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD

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CHIEF EXECUTIVE OFFICER

JOHN D. PERINI
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

Brice A. Letcher
Area Engineer
Yates Petroleum Corporation

7010 3090 0002 5765 2692

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PS Form 3849	

SEP 4 2015
ARTESIA, NM
USPS 88210

KATHY H. PORTER
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

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

7002 2030 0001 8269 3238

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Total Postage & Fees	\$
Sent To	Intrepid Potash, Inc.
Street, Apt. N or PO Box N	707 17 th Street, Suite 4200
City, State, Z	Denver, CO 80202
PS Form 380	
TREASURER	

Postmark Here

KATHY H. PORTER
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S.P. YATES
1914-2008



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CHIEF FINANCIAL OFFICER

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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Sent To	
Street, Apt. No. or PO Box No.	
City, State, Zip	
Abo Petroleum Corporation 105 S. 4 th St Artesia, NM 88210	
PS Form 3800	

7007 0202 1000 6928 3177

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ARTESIA, NM

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1936-1986

S.P. YATES
1914-2008



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TELEPHONE (575) 748-1471

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JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

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

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To Legacy Reserves Operating LP 303 West Wall, Suite 1400 Midland, TX 79701	
Street, Apt. No. or PO Box No. City, State, ZIP	
PS Form 3800, 7-2007	

1222 6928 1000 0602 2007

USPS 88210
Postmark
Date
SEP 2 2015
ARTESIA, NM

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JAMES S. BROWN
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

7002 2002 0001 8269 3207

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To Matador Petroleum Corporation	
14001 Dallas Parkway, Suite 1000	
Dallas, TX 75240-4384	
Street, Apt. No., or PO Box No.	
City, State, ZIP	
PS Form 3800,	

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SECRETARY

DENNIS G. KINSEY
TREASURER

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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

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CHIEF FINANCIAL OFFICER

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 0602 2007

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Street, Apt. 1 or PO Box A	105 S. 4 th St
City, State, ZIP	Artesia, NM 88210
PS Form 3849	

012885011
5102
Postmark
Here
ARTESIA, NM

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DENNIS G. KINSEY
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1912-1985
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105 SOUTH FOURTH STREET
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EXECUTIVE VICE PRESIDENT
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

7010 3090 0002 5765 2526

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Total Postage & Fees	\$
Sent To	Oxy Y-1 Company
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	

Postmark Here

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SECRETARY

DENNIS G. KINSEY
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1914-2008



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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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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To OXY USA, Inc.	
5 Greenway Plaza, Suite 110	
Houston, TX 77046	
PS Form 3800,	

Stamp: 51288 SEP 2 2015

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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JOHN D. PERINI
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

7002 2030 0001 8269 3184

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To Penroc Oil Corporation	
PO Box 2769	
Hobbs, NM 88241-2769	
Street, Apt. or PO Box	
City, State,	
PS Form 38	

Postmark Here
USPS 88270

KATHY H. PORTER
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

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-128 (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 (SND State #11), is located 2280' FSL & 2397' FSL, 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'-15,800' with a maximum pressure of 3,120 psi and a maximum rate of 15,000 BOPD.

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 Letcher at (505) 748-4180.

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


Attachment F.

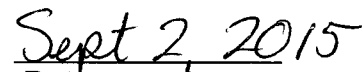
Attachment G

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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column	Water
C 02727		ED		3	1	1	33	21S	31E	613716	3589809*	913		
C 02949 EXPL		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.



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)

Footages 2080 FUL FSL Lot _____ or Unit 14 Sec 36 Tsp 21S Rge 31E County EDL

General Location: ~35 miles W/Eunic Pool: SWD, Devonian Pool No.: GL01

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)	Setting	Cement	Cement Top and Determination
		Borehole / Pipe	Depths (ft)	(Sx or Cf)	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 (line)		<u>8 1/2 / 7"</u>	<u>15265</u>	<u>515</u>	<u>11200</u>
Planned ___ or Existing ___ Liner					
Planned ___ or Existing <input checked="" type="checkbox"/> OH PERF		<u>15265 / 15600</u>		<u>335'</u>	

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		<u>MS</u>	<u>14664</u>
Confining Unit: Litho. Struc. Por.		<u>DEV</u>	<u>15214</u>
Proposed Inj Interval TOP:	<u>15265</u>		
Proposed Inj Interval BOTTOM:	<u>15600</u>		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	<u>15600</u> PBTD _____
NEW TD	_____ NEW PBTD _____
NEW Open Hole	<input type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Tubing Size	<u>3 1/2</u> in. Inter Coated? _____
Proposed Packer Depth	<u>15240</u> ft
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 Y Noticed? Y 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 / 11500 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? Y Well List? Y 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? Y Affected Persons: LEGACY, Oxy y-H, PENROD N. Date Sept 4

Order Conditions: Issues: _____

Add Order Cond: _____

McMillan, Michael, EMNRD

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