

DATE IN 08/08/13	SUSPENSE	ENGINEER PRG	LOGGED IN 08/09/13	TYPE SWD	APP NO PPRG 1322160820
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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 \_\_\_\_\_**

*Faster  
Greenstone Feed  
Com #1  
30-025-34677*

2013-08-21  
PROCESSED

**[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.**

Kim Tyson  
 Print or Type Name

*Kim Tyson*  
 Signature

Regulatory Analyst  
 Title

8-5-2013  
 Date

kimt@forl.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Fasken Oil and Ranch, Ltd.  
ADDRESS: 6101 Holiday Hill Road, Midland, TX 79707  
CONTACT PARTY: Kim Tyson PHONE: 432-687-1777
- 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: Kim Tyson TITLE: Regulatory Analyst  
SIGNATURE: Kim Tyson DATE: 8-5-2013  
E-MAIL ADDRESS: kimt@for1.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.

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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.

### III. Well Data

#### A) Tabular Well Data

1. Greenstone Federal Com No. 1  
Surface: 480' FSL & 1600' FEL  
Bottom Hole: 962' FSL & 1587' FEL  
Sec. 19, T-20-S, R-34-E
2. Surface Casing: 13-3/8" 54.5# J-55 set @ 520' & cemented to surface (circulated cement) w/ 235 sx 35:65:6 + 200 sx "C"  
  
Intermediate Casing: 9-5/8" 40# S-95 @ 5515'. DV @ 3132'.  
Cemented to surface (circulated cement) w/ 2,120 sx 35:65:6 + 500 sx "C".  
  
Production Casing: 5-1/2" 17# SP-110 @ 13,902'. DV @ 8526'.  
Cemented with 1675 sx "C" + 650 sx "H", TOC @ 3828' by cement bond log.  
  
Scab Liner: 4 1/2" 11.6# AB-FLAS – Top @ 12,508' & Bottom @ 12,684'. Cemented with 50 sx.
3. 2-7/8" poly-lined to 5560'
4. Packer Type – 5-1/2" x 2-7/8" nickel plated Weatherford Arrowset 1-X Double Grip Casing Packer with T-2 on/off tool, 316 SS Top Sub and 2-7/8" x 2.25" "F" SS seal nipple. Packer will be set at 5560'.

#### B) Proposed Injection Formation Data

1. Injection Formation Name: Delaware
2. Injection Interval – 5,645' to 8,256' perforated.
3. Original Purpose of Well – Atoka gas producer.
4. Perforated Intervals – see attached wellbore diagrams.
5. Next Higher Oil/Gas Productive Zone – Yates @ 3,270' (est. no logs)  
Next Lower Oil/Gas Productive Zone – Bone Springs @ 8,462'

### VII. Proposed Operation

1. Average Daily Rate – 5,000 BPD  
Maximum Daily Rate – 10,000 BPD  
Volume of Fluids to be Injected – 7,000,000 bbls
2. This will be a closed system.
3. Average Injection Pressure – 800 psi  
Maximum Injection Pressure – 1,129 psi

4. Produced water from the Bone Springs, Wolfcamp, Strawn, Atoka, Delaware, and Morrow formations will be injected into the Delaware interval. (See attached compatibility analysis) Strawn and Atoka water samples are unavailable due to the lack of wells producing from these formations in this area at this time.

5. See attached Delaware chemical analysis.

## VIII. Geologic Data

### 1. Formation Tops

Formation Name	Measured Depth (ft.)
Rustler	1,515
Yates	3,270
Delaware	5,439
Bone Spring	8,462
1st Bone Spring	9,552
2nd Bone Spring	9,859
3rd Bone Spring	10,634
Strawn	12,344
Atoka	12,619
Morrow	13,284
Lower Morrow	13,548
Barnett	13,900

*Salado*  
 - 5' Bell Canyon  
 - Cherry Canyon  
 - 2' Brushy Canyon

### 2. Injection Zone Lithology

The injection interval of 5,645' – 8,256' is the Delaware formation of the Permian age. Its lithology primarily consists of sand and contains shale and dolomite stringers. The top of the Delaware formation in this wellbore starts at 5,439' MD and ends at the top of the Bone Springs located at 8,462' MD.

3. The Ogallala formation is the only freshwater zone believed to be within this area. The base of this formation runs to a depth of 150'. This information was verified by Paul Kautz with the OCD. This formation is sealed off from the wellbore with 520' of 13-3/8" 54.5# J-55 casing that was cemented to surface with 235 sx 35:65:6 + 200 sx "C" cement. The 9-5/8" 40# intermediate string was run to 5,515' and circulated to surface with 2,620 sx cement and provides a second seal against this formation.

## IX. Stimulation Program

This interval will be acidized with 7-1/2% NEFE HCL acid.

## X. Logging and Test Data

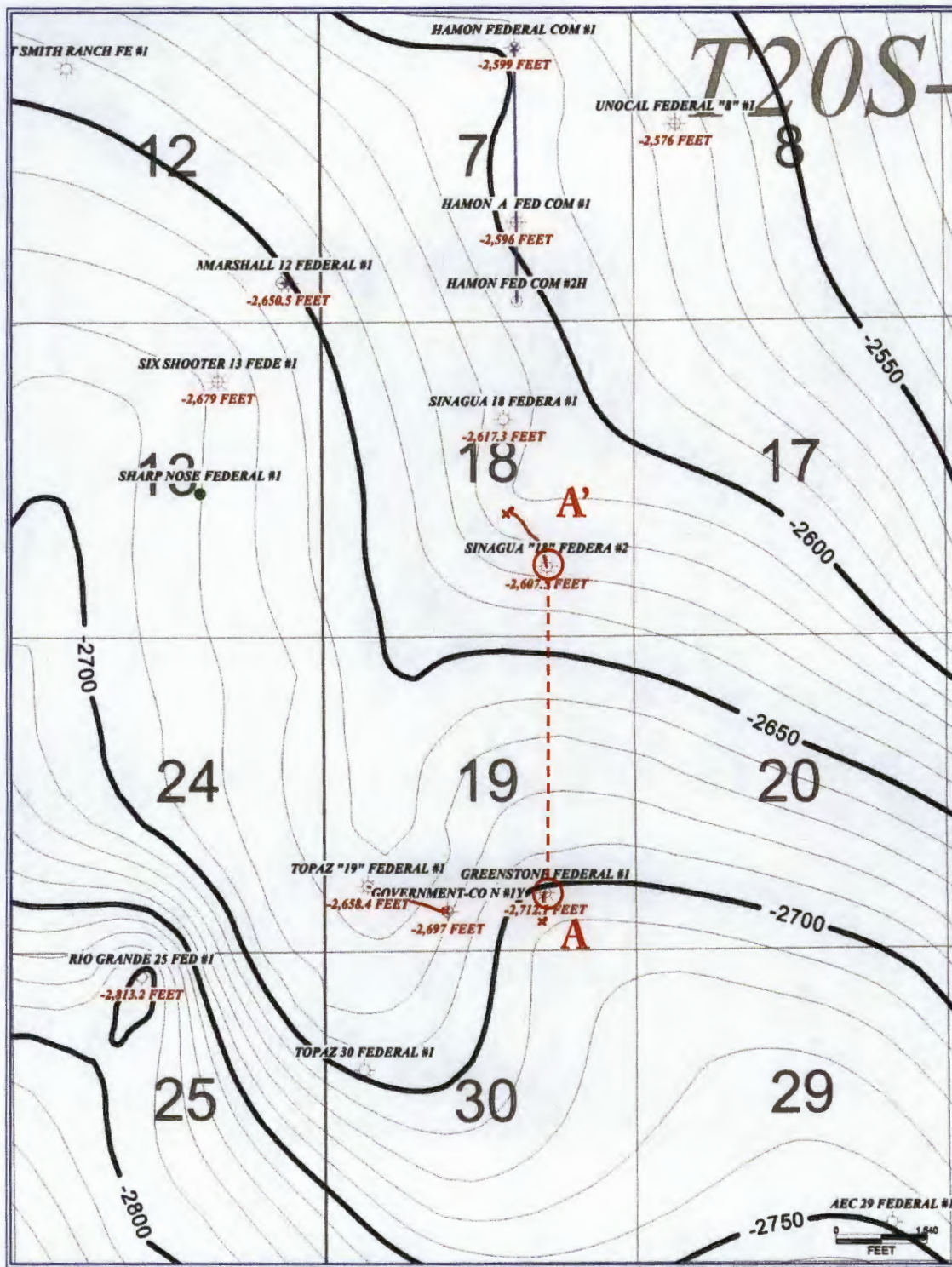
1. Logging data previously filed with Commission.

2. Test data previously filed with Commission.

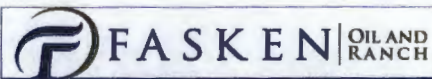
XI. Affirmative Statement

Upon examination of the available geologic and engineering data, no evidence of open faults or any other hydraulic connection between the disposal zones and an underground source of drinking water was found.

  
Jeff Bryden, Sr. Geologist



PETRA 07/02/13 10:28:03 AM



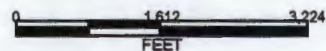
## South East New Mexico

Cherry Canyon Structure Map

Wells > 4,500'

Lea County, New Mexico

By: JDRB



March 15, 2013



**A**

DOMINION  
GREENSTONE FEDERAL #1  
T20S R34E S19  
480 FSL 1600 FEL



ELEV\_KB : 3,681

BELL\_CANYON

CHERRY\_CANYON

**A'**

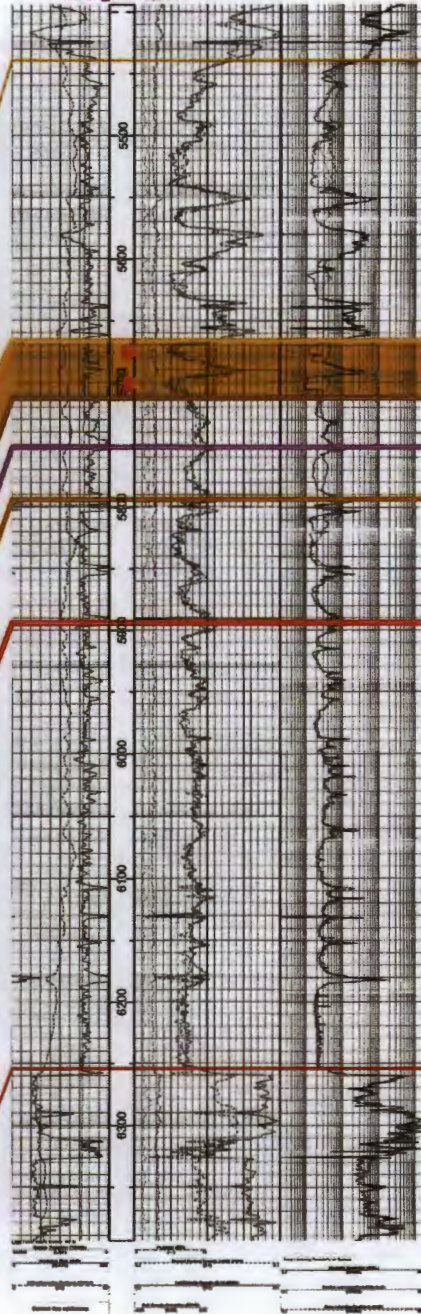
SANTA  
SINAGUA "IB" FEDERA #2  
T20S R34E S18  
2041 FSL 2171 FEL



ELEV\_KB : 3,644

BELL\_CANYON

CHERRY\_CANYON



100-100  
PRTN: 3/15/2013 11:18:50 AM



Cherry Canyon

Structural Cross-Section

T20S-R34E

Lea County, New Mexico

Horizontal Scale = 720.1  
Vertical Scale = 40.0  
Vertical Exaggeration = 18.0x

By: JDRB

March 15, 2013 11:17 AM



## INJECTION WELL DATA SHEET

OPERATOR: Fasken Oil and Ranch, Ltd. 6101 Holiday Hill Road, Midland, TX 79707WELL NAME & NUMBER: Greenstone Federal Com No. 1

WELL LOCATION:	<u>480' FSL &amp; 1600' FEL</u>	<u>0</u>	<u>19</u>	<u>20S</u>	<u>34E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

Scab Liner -  
 4 1/2", 11.6#, Top liner @ 12,508' &  
 bottom of liner @ 12,684'. Cemented  
 w/ 50 sx cmt.

WELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8", 54.5# @ 520'  
 Cemented with: 435 sx. or                      ft<sup>3</sup>  
 Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8", 40# @ 5515'  
DV Tool @ 3132'  
 Cemented with: 2620 sx. or                      ft<sup>3</sup>  
 Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 8 1/2" Casing Size: 5 1/2", 17# @ 13,902'  
DV Tool @ 8526'  
 Cemented with: 2325 sx. or                      ft<sup>3</sup>  
 Top of Cement: 3828' Method Determined: Cement Bond Log  
 Total Depth: 13,902'

Injection Interval

5645' feet to 8256'

(Perforated or ~~Open Hole~~; indicate which)

### INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Polylined  
 Type of Packer: 5 1/2" X 2 7/8" Weatherford Arrowset 1X Double Grip Nickle Plated  
 Packer Setting Depth: 5560'  
 Other Type of Tubing/Casing Seal (if applicable): N/A

#### Additional Data

1. Is this a new well drilled for injection? Yes X No  
 If no, for what purpose was the well originally drilled? Atoka Gas Well
2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): Teas; Delaware, Southeast
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes, see attached wellbore schematic.
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Yates - 3270' - 3350', Delaware - 5439' - 5666',  
Bone Spring - 8462' - 10,992', Strawn - 12,344' - 12,444',  
Atoka - 12,619' - 12,853', and Morrow - 13,284' - 13,675'

Well: **Greenstone Fed Com No. 1**

Operator: Dominion Oklahoma Texas Expl & Prod  
 Location: Surface: 480' FSL and 1600' FEL  
 Bottom Hole: 962' FSL & 1587' FEL  
 Sec 19, T20S, R34E  
 Lea County, NM  
 Compl.: 11/30/1999  
 API #: 30-025-34677  
 TD: 13,902'

Casing: **13-3/8" 54.5# J-55 @ 520'**  
 w/ 235 sx 35:65:6 + 200 sx. "C"  
**9-5/8" S-95 40# @ 5515'**  
 w/ 2120 sx 35:65:6 + 500 sx "C"  
 TOC surface, circ 480 sx.  
 DV @ 3132'  
**5-1/2" SP-110 17# @ 13,902'**  
 1675 sx "C" + 650 sx "H"  
 DV @ 8,526'

TOC: 5-1/2" TOC 3828' by CBL

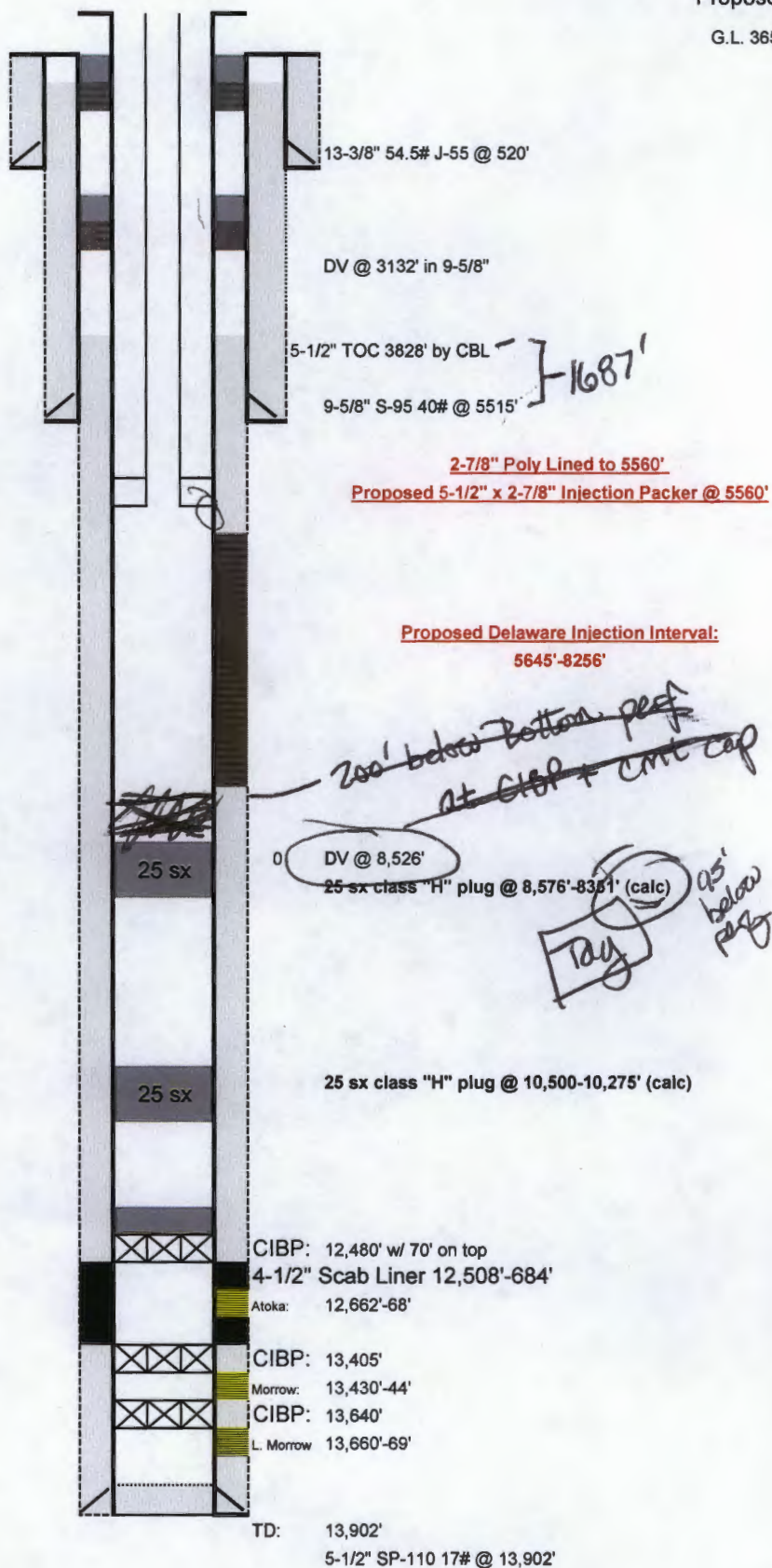
Scab Liner: 4-1/2" 11.6# AB-FL4S (165') 12,508'-684'  
 cmt w/ 50 sx. Re-Perf Atoka 12,662'-68'

Cement Plugs: Surface -570'  
 3026'-3132'  
 5137'-5565'  
 8351'-8576'  
 10275'-10500'

CIBP: 13,640' w/ 35' cmt on top  
 13,405' w/35' cmt on top  
 12,480' w/70' cmt on top

Perfs: 12,662'-68'  
 13,430'-44'  
 13,660'-69'

Hole Sizes: 17-1/2" Surf-520'  
 12-1/4" 520'-5,515'  
 8-1/2" 5,515'-13,902'



**Well: Greenstone Fed Com No. 1**Operator: **Dominion Oklahoma Texas Expl & Prod**Location: Surface: 480' FSL and 1600' FEL  
Bottom Hole: 962' FSL & 1587' FEL  
Sec 19, T20S, R34E

Lea County, NM

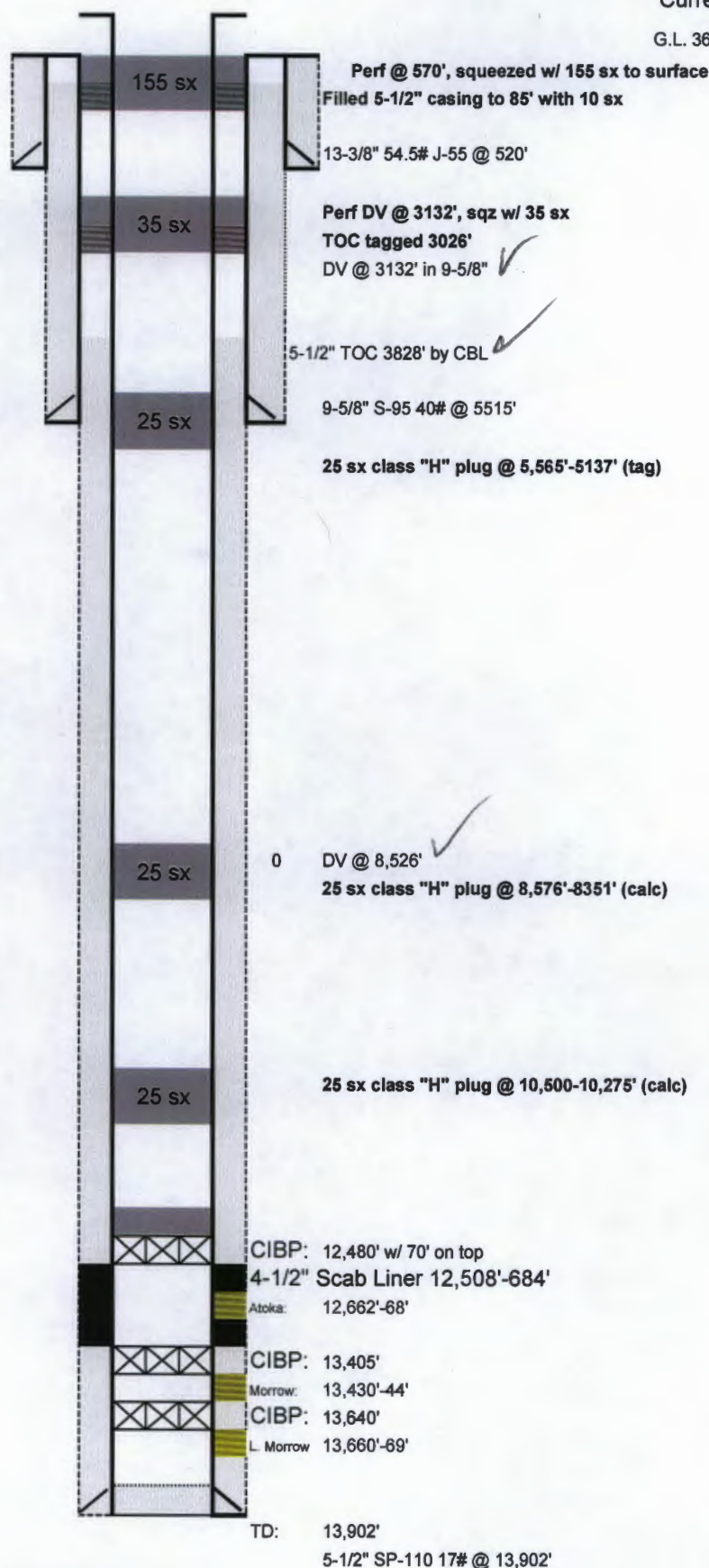
Compl.: 11/30/1999

API #: 30-025-34677

TD: 13,902'

Casing: **13-3/8" 54.5# J-55 @ 520'**  
w/ 235 sx 35:65:6 + 200 sx. "C"  
**9-5/8" S-95 40# @ 5515'**  
w/ 2120 sx 35:65:6 + 500 sx "C"  
TOC surface, circ 480 sx.  
DV @ 3132'  
**5-1/2" SP-110 17# @ 13,902'**  
1675 sx "C" + 650 sx "H"  
DV @ 8,526'

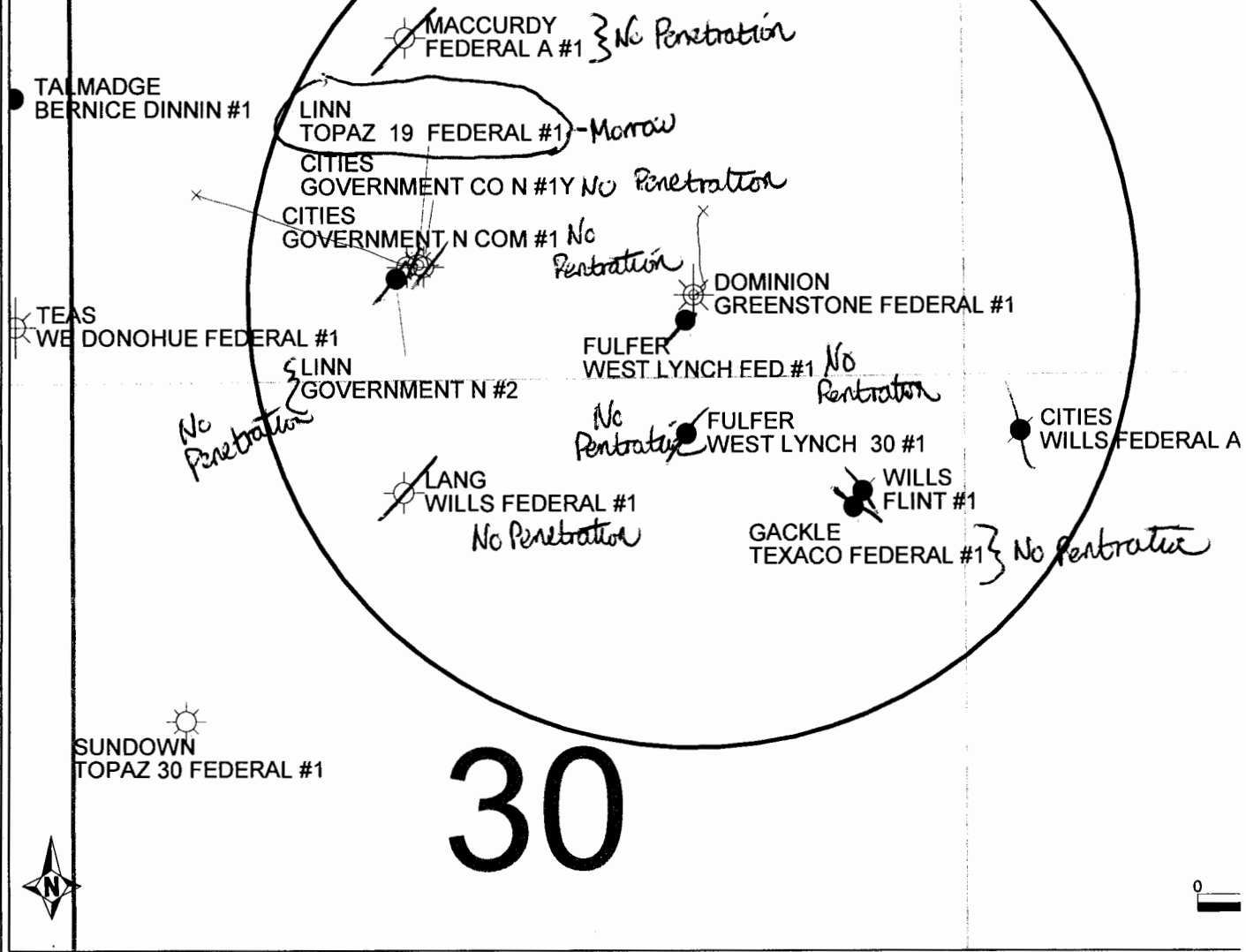
TOC: 5-1/2" TOC 3828' by CBL

Scab Liner: 4-1/2" 11.6# AB-FL4S (165") 12,508'-684'  
cmt w/ 50 sx. Re-Perf Atoka 12,662'-68'Cement Plugs: Surface -570'  
3026'-3132'  
5137'-5565'  
8351'-8576'  
10275'-10500CIBP: 13,640' w/ 35' cmt on top  
13,405' w/35' cmt on top  
12,480' w/70' cmt on topPerfs: 12,662'-68'  
13,430'-44'  
13,660'-69'Hole Sizes: 17-1/2" Surf-520'  
12-1/4" 520'-5,515'  
8-1/2" 5,515'-13,902'



JEWETT MCDONALD A #2A

19



PETRA 6/25/2013 2:21:12 PM

Fasken Oil and Ranch, Ltd.  
Greenstone Federal Com No. 1  
480' FSL & 1600' FEL  
Sec. 19, T20S, R34E  
Lea County



Fasken Oil and Ranch, Ltd.

Greenstone Federal Com No. 1

Table of Well Data within ½ Mile

<u>Operator</u>	<u>Well Name and Number</u>	<u>API Number</u>	<u>Oil or Gas</u>	<u>Spud Date</u>	<u>Total Depth</u>	<u>Formation and Perfs</u>
M.R. McCurdy	Federal "A" No. 1	30-025-23577	P&A Dry Hole	09/19/1970	3600'	N/A
<b>Location:</b>	1980' FSL & 1980' FWL Sec. 19, T20S, R34E					
<b>Casing:</b>	Well does not penetrate the proposed injection interval.					
<hr/>						
Linn Operating, Inc.	Topaz 19 Federal Com No. 1	30-025-22564	Gas	05/16/1968	15,137'	Morrow 13,686' – 13,763'
<b>Location:</b>	SHL - 660' FSL & 2083' FWL BHL – 1074' FSL & 769' FWL Sec. 19, T20S, R34E					
<b>Casing:</b>	20" at 177' w/ 450 sx – TOC @ Surface 13 5/8" at 3198' w/ 2450 sx – TOC @ Surface 9 5/8" at 5700' w/ 1675 sx – TOC @ Surface 5 ½" at 13,828', DV Tool @ 9678' w/ 940 sx – TOC @ 4800' TS					

<u>Operator</u>	<u>Well Name and Number</u>	<u>API Number</u>	<u>Oil or Gas</u>	<u>Spud Date</u>	<u>Total Depth</u>	<u>Formation and Perfs</u>
Cities Service Oil Company	Government N Com No. 1	30-025-22516	P&A Dry Hole	04/22/1968	1545'	N/A
<b>Location:</b>	660' FSL & 1984' FWL Sec. 19, T20S, R34E					
<b>Casing:</b>	Well does not penetrate the proposed injection interval.					
Linn Operating, Inc.	Government N No. 2	30-025-23122	Oil	04/30/1969	3492'	Yates Seven Rivers 3344' – 3382'
<b>Location:</b>	590' FSL & 1913' FWL Sec. 19, T20S, R34E					
<b>Casing:</b>	Well does not penetrate the proposed injection interval.					
Lang & Unger	Wills-Federal No. 1	30-025-02483	P&A Dry Hole	09/07/1956	3192'	N/A
<b>Location:</b>	660' FNL & 1980' FWL Sec. 30, T20S, R34E					
<b>Casing:</b>	Well does not penetrate the proposed injection interval.					

<u>Operator</u>	<u>Well Name and Number</u>	<u>API Number</u>	<u>Oil or Gas</u>	<u>Spud Date</u>	<u>Total Depth</u>	<u>Formation and Pefs</u>
Fulfer Oil & Cattle LLC	West Lynch Federal No.1	30-025-26625	Oil	04/17/1980	3528'	Yates 3270' – 3350'

**Location:** 330' FSL & 1650' FEL  
Sec. 19, T20S, R34E

**Casing:** Well does not penetrate the proposed injection interval.

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Fulfer Oil & Cattle LLC	West Lynch 30 Federal No. 1	30-025-28297	Oil	08/17/1983	3519'	Yates 3299' – 3494'
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**Location:** 330' FNL & 1650' FEL  
Sec. 30, T20S, R34E

**Casing:** Well does not penetrate proposed injection interval.

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Gackle Drilling Company, Inc.	Texaco-Federal No. 1	30-025-02482	Plugged Oil Well	06/16/1961	3526'	Yates 3326' – 3484'
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**Location:** 760' FNL & 660' FEL  
Sec. 30, T20S, R34E

**Casing:** Well does not penetrate proposed injection interval.

<u>Operator</u>	<u>Well Name and Number</u>	<u>API Number</u>	<u>Oil or Gas</u>	<u>Spud Date</u>	<u>Total Depth</u>	<u>Formation and Pefs</u>
Neil Wills	Flint No. 1	30-025-02484	P&A Dry Hole	05/22/1943	3547'	N/A

**Location:** 660' FNL & 660' FEL  
Sec. 30, T20S, R34E

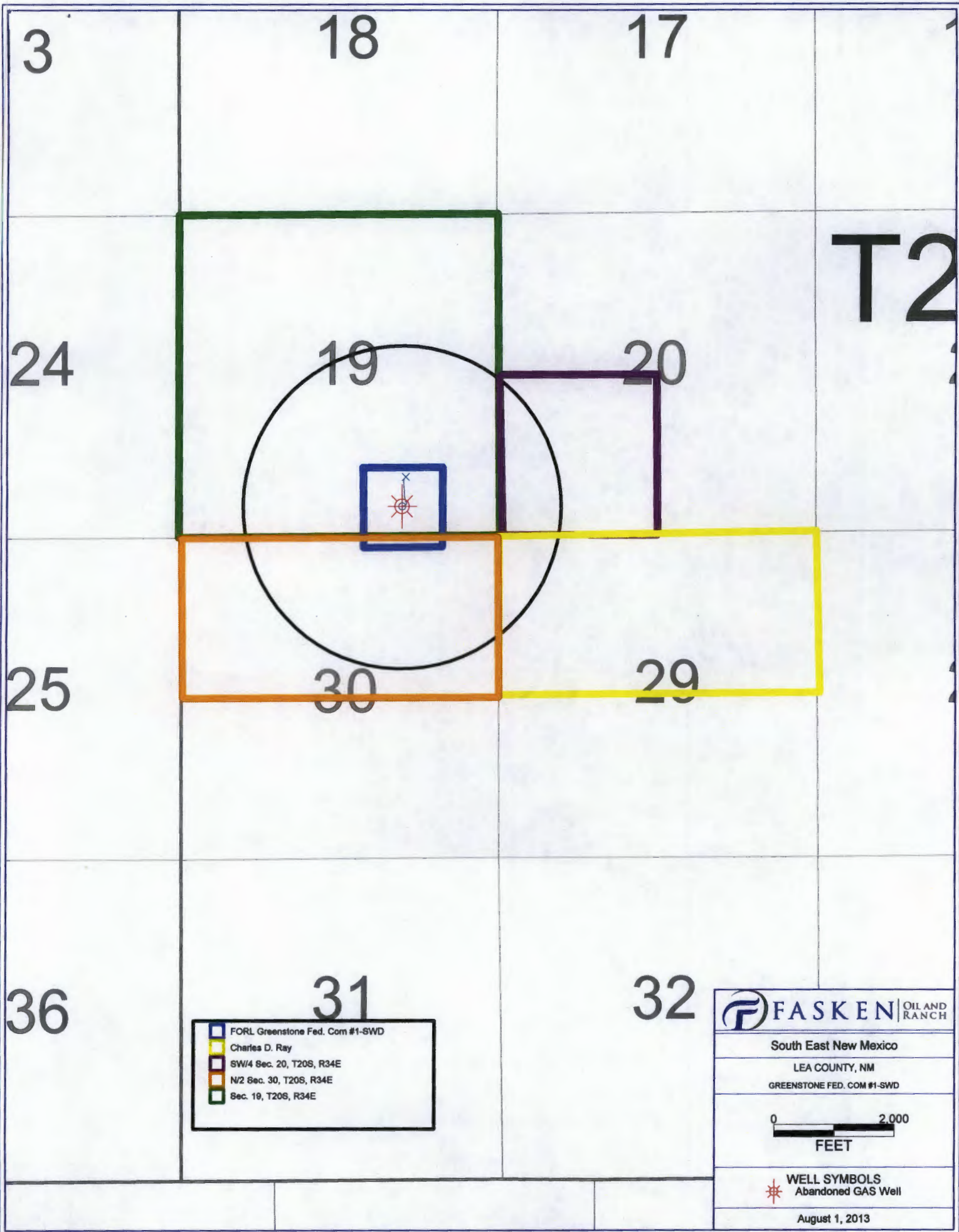
**Casing:** Well does not penetrate the proposed injection interval.

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Cities Service Oil Company	Wills-Federal A No. 1	30-025-02478	Plugged Oil Well	07/04/1961	3541'	Yates 3356' – 3524'
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**Location:** 330' FNL & 330' FWL  
Sec. 29, T20S, R34E

**Casing:** Well does not penetrate the proposed injection interval.





**Fasken Oil and Ranch, Ltd.  
Greenstone Federal Com No. 1  
SWD Application**

**SW/4 of Section 20, T20S, R34E  
Leasehold Owners**

OXY USA WTP, LP

John H. Hendrix Corporation

MJK Mineral Properties, Ltd.

Ronnie H. Westbrook

Doyle Hartman

James A. Davidson Estate

Larry A. Nermyr

James E. Burr

Jack Fletcher Estate

Ruth Sutton

Chevron USA, Inc.

**Fasken Oil and Ranch, Ltd.  
Greenstone Federal Com No. 1  
SWD Application  
List of Notified Parties**

- 18+22+18 (58)

**Leasehold Owners and Offset Operators within a ½ mile radius**

Charles D. Ray  
P.O. Box 51608  
Midland, TX 79710

Harvard Petroleum Co., LLC  
13455 Noel Rd., #2000  
Dallas, TX 75240

Colkelan Corp.  
P.O. Box 25663  
Albuquerque, NM 87125

Harvey E. Yates Co.  
P.O. Box 1933  
Roswell, NM 88202

(18)

Collins & Ware, Inc.  
508 W. Wall Street, Ste. 1200  
Midland, TX 79701

James E. Yates  
P.O. Box 1933  
Roswell, NM 88202

Curtis Anderson Estate  
165 Scenic Valley Rd., Lot 76  
Kerrville, TX 78028

Khody Land & Minerals Co.  
210 Park Avenue, Ste. 900  
Oklahoma City, OK 73102

Devon Energy Production Co. LP  
333 W. Sheridan Ave.  
Oklahoma City, OK 73102

Logic Energy Holdings, LLC  
P.O. Box 10886  
Midland, TX 79702

Ed Orr Estate  
7222 S. Birmingham Ave.  
Tulsa, OK 74136

Nadel & Gussman Capitan, LLC  
601 N. Marienfeld  
Midland, TX 79701

EGL Resources  
P.O. Box 10886  
Midland, TX 79702

Patraitis Oil & Gas, LLC  
P.O. Box 10886  
Midland, TX 79702

Explorers Petroluem  
500 N. Main Street  
Roswell, NM 88201

Placer Ltd.  
P.O. Box 10886  
Midland, TX 79702

Fulfer Oil & Cattle / Gregg Fulfer  
P.O. Box 578  
Jal, NM 88252

Prints II, LC  
P.O. Box 10886  
Midland, TX 79702

Spiral Inc.  
P.O. Box 1933  
Roswell, NM 88202

Sundown Petroleum, LLC  
13455 Noel Rd., #2000  
Dallas, TX 75240

Yates Energy Corp.  
P.O. Box 2323  
Roswell, NM 88202

Oxy USA WTP, LP  
6 Desta Drive, Suite 6000  
Midland, TX 79705

John H. Hendrix Corporation  
P.O. Box 3040  
Midland, TX 79702

MJK Mineral Properties, Ltd.  
500 W. Texas Ave., Ste. 1230  
Midland, TX 79701

Ronnie H. Westbrook  
P.O. Box 3171  
Midland, TX 79707

Doyle Hartman  
P.O. Box 10426  
Midland, TX 79702

James A. Davidson Estate  
P.O. Box 494  
Midland, TX 79702

Larry A. Nermyr  
HC 57 Box 4106  
Sidney, MT 59270

James E. Burr  
3803 Wedgwood Ct.  
Midland, TX 79707

Jack Fletcher Estate  
510 Storey Ave.  
Midland, TX 79701

Ruth Sutton  
2826 Moss Ave.  
Midland, TX 79705

Chevron USA, Inc.  
P.O. Box 1150  
Midland, TX 79702

Arrowhead Energy Dev. Program 1979  
P.O. Box 936  
Roswell, NM 88201

Bob Blundell, Jr.  
1212 Miehl's Drive  
Carlsbad, NM 88220

Dakota Resources, Inc.  
P.O. Box 10033  
Midland, TX 79702

Davis Land & Minerals, Inc.  
P.O. Box 79188  
Houston, TX 77279

Desert Rainbow, LLC  
P.O. Box 1837  
Roswell, NM 28202

Devon SFS Operating, Inc.  
20 N. Broadway  
Oklahoma City, OK 73102

Drilmor Inc.  
4914 N. Midkiff Rd.  
Midland, TX 79705

Ed Orr  
201 W. 5<sup>th</sup>, Ste. 500  
Roswell, NM 74103

22

Enerstar Oil & Gas  
410 N. Main St.  
Midland, TX 79701

Fasken Land & Minerals, Ltd.  
6101 Holiday Hill Road  
Midland, TX 79707

Fulfer Oil & Cattle, LLC  
P.O. Box 755  
Hobbs, NM 88242

George M. Yates  
P.O. Box 1933  
Roswell, NM 88201

Harvard & LeMay Exploration, Ltd.  
P.O. Box 936  
Roswell, NM 88201

J. Cleo Thompson  
325 N. Saint Paul, Ste. 4300  
Dallas, TX 75201

James C. Thompson, Jr.  
6915 Baltimore Dr.  
Dallas, TX 75205

Larry A. Mizel  
2400 E. Cherry Creek South Dr.  
Denver, CO 80209

Linn Operating Inc.  
Linn Energy Holdings, LLC  
600 Travis, Ste. 5100  
Houston, TX 77002

Merit Energy  
12222 Merit Dr., Ste. 1500  
Dallas, TX 75251

Mizel Resources  
5801 E. 41<sup>st</sup> St., Ste. 104  
Tulsa, OK 74135

Nadel & Gussman Capital LLC  
15 East 5<sup>th</sup> Street, Ste. 3200  
Tulsa, OK 74103



Petro-Quest Exploration  
P.O. Box 10016  
Midland, TX 79702

Purdential-Bache Energy Income  
Prod. Partnership VP 18  
P.O. Box 3134  
Covington, LA 70434

Shirley Wallace, Trustee of the  
Culberson Management Trust  
2507 Sinclair Ave.  
Midland, TX 79705

Southwestern Energy Production Co.  
2350 N. Sam Houston Pkwy., Ste. 125  
Houston, TX 77032

Tommy Folsom  
2014 Patricia Dr.  
Carlsbad, NM 88220

Viking Oil & Gas Exploration Co.  
P.O. Box 936  
Roswell, NM 88201

**Surface Owner**

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

**Other Notified Parties**

New Mexico Oil Conservation Division  
1625 N. French Dr.  
Hobbs, NM 88240



**Fasken Oil and Ranch, Ltd.  
Greenstone Federal Com No. 1  
SWD Application**

**N/2 of Section 30, T20S, R34E  
Leasehold Owners**

Colkelan Corp.

Sundown Production, LLC

Collins & Ware, Inc.

Yates Energy Corp.

Curtis Anderson Estate

Devon Energy Production Co. LP

Ed Orr Estate

EGL Resources

Explorers Petroleum

Fulfer Oil & Cattle / Gregg Fulfer

Harvard Petroleum Co., LLC

Harvey E. Yates Co.

James E. Yates

Khody Land & Minerals Co.

Logic Energy Holdings, LLC

Nadel & Gussman Capitan, LLC

Patraitis Oil & Gas, LLC

Placer Ltd

Printz II, LC

Spiral Inc.

**Fasken Oil and Ranch, Ltd.  
Greenstone Federal Com No. 1  
SWD Application**

**Section 19, T20S, R34E  
Leasehold Owners and Offset Operators**

Arrowhead Energy Dev. Program 1979	James C. Thompson
Bob Blundell, Jr.	James A. Davidson Estate
Dakota Resources, Inc.	John H. Hendrix Corporation
Davis Land & Minerals, Inc.	Khody Land & Minerals Co.
Desert Rainbow, LLC	Larry A. Mizel
Devon SFS Operating, Inc.	Larry A. Nermys
Doyle Hartman	Linn Operating Inc. Linn Energy Holdings, LLC
Drilmor Inc.	Merit Energy
Ed Orr	MJK Mineral Properties, Ltd.
Enerstar Oil & Gas	Mizel Resources
Fasken Land & Minerals, Ltd.	Nadel & Gussman Capital LLC
Fulfer Oil & Cattle, LLC	OXY USA WTP, LP
George M. Yates	Petro-Quest Exploration
Harvard & LeMay Exploration, Ltd.	Purdential-Bache Energy Income Prod. Partnership VP 18
Harvey E. Yates Co.	Ronnie H. Westbrook
J. Cleo Thompson	Ruth Sutton
Jack Fletcher Estate	Shirley Wallace, Trustee of the Culberson Management Trust
James E. Burr	

Southwestern Energy Production Co.

Spiral, Inc.

Tommy Folsom

Viking Oil & Gas Exploration Co.

Yates Energy Corp.



## Martin Water Laboratories, Inc.

*Analysts & Consultants since 1953*  
Bacterial & Chemical Analysis

To: Clay Lamb  
6101 Holiday Hill Road  
Midland, TX 79707

Laboratory No. 0713-539  
Sample Received 7-29-13  
Results Reported 7-29-13

Company: Fasken Oil & Ranch  
County: Lea, NM

Clay Lamb:

Using the submitted analyses of Bone Springs (CESI Chemical Analysis), Wolfcamp (Endura Analysis), Morrow (Halliburton Analysis), and Delaware (Halliburton Analysis), I have hypothetically combined them in various proportions and attempted to determine the potential for scale and/or precipitation to occur with the mixtures. None of the combinations would likely result in barium sulfate scale, but I have to assume no barium to be present in the Delaware and Morrow samples (barium was not tested for). An equal combination shows no supersaturation to calcium sulfate and therefore no significant gypsum would be expected. Due to insufficient information provided by these analyses, I am unable to determine an accurate calcium carbonate scale potential or iron sulfide precipitation at this time. However, the low bicarbonate and pH levels suggest low carbonate tendencies.

In summary of the above, and based only on the information provided by these analyses, these waters appear to be compatible when combined.

Greg Ogden, B.S.

HALLIBURTON DIVISION LABORATORY  
 HALLIBURTON SERVICES  
 MIDLAND DIVISION  
 HOBBS, NEW MEXICO 88240  
 LABORATORY WATER ANALYSIS

APR 10 1989

No. 062

*Corrected*  
*Water Analysis*  
*file*

To Barbara FaskenDate 4-4-89303 West Wall Ave Suite 1901Midland TX 79701

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Submitted by \_\_\_\_\_ Date Rec. 4-4-89Well No. \_\_\_\_\_ Depth \_\_\_\_\_ Formation Morrow

County \_\_\_\_\_ Field \_\_\_\_\_ Source \_\_\_\_\_

Use This Sample →

Ling Fed #1Ling Fed #2Resistivity \_\_\_\_\_ 0.238 @ 70° \_\_\_\_\_ 0.667 @ 70°Specific Gravity \_\_\_\_\_ 1.050 \_\_\_\_\_ 1.010pH \_\_\_\_\_ 4.1 \_\_\_\_\_ 6.6Calcium (Ca) \_\_\_\_\_ 4,250 \_\_\_\_\_ 1,800 \_\_\_\_\_ \*MPLMagnesium (Mg) \_\_\_\_\_ Nil \_\_\_\_\_ NilChlorides (Cl) \_\_\_\_\_ 27,000 \_\_\_\_\_ 9,000Sulfates (SO<sub>4</sub>) \_\_\_\_\_ Light \_\_\_\_\_ LightBicarbonates (HCO<sub>3</sub>) \_\_\_\_\_ Nil \_\_\_\_\_ 80Soluble Iron (Fe) \_\_\_\_\_ Heavy \_\_\_\_\_ Nil\_\_\_\_\_ 31,250 \_\_\_\_\_ 1,570

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Jay Bradford

HALLIBURTON COMPANY

cc:

By \_\_\_\_\_

CHEMIST

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H. HURBURTON DIVISION LABORATORY  
 HALLIBURTON SERVICES  
 MIDLAND DIVISION  
 HOBBS, NEW MEXICO 88240  
 LABORATORY WATER ANALYSIS

No. W83-078To David FaskenDate 1-20-83807 1st National Bank BuildingMidland, Texas

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Submitted by \_\_\_\_\_ Date Rec. 1-20-83Well No. Ling Federal #1 Depth 6,236' Formation DelawareCounty Lea Field W. Hobbs Source DST #1

	<u>Sampler</u>	<u>Tool Top</u>	<u>Top of Fluid</u>
Resistivity	<u>0.167 @ 70°F.</u>	<u>0.168 @ 70°F.</u>	<u>0.220 @ 60°F.</u>
Specific Gravity	<u>1.035</u>		
pH	<u>7.9</u>		
Calcium (Ca)	<u>3,200</u>		<u>*MPL</u>
Magnesium (Mg)	<u>150</u>		
Chlorides (Cl)	<u>25,000</u>	<u>24,000</u>	<u>18,500</u>
Sulfates (SO <sub>4</sub> )	<u>3,300</u>		
Bicarbonates (HCO <sub>3</sub> )	<u>120</u>		
Soluble Iron (Fe)	<u>Nil</u>		

Pit Sample - Res. @ 70°F. - 0.247Chlorides, mpl - 15,000

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By

W. L. Brewer

CHEMIST

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1004 S. Plainsman Road  
Marlow, OK 73055  
Ph.: 800- 256-4703  
Fx.: (580)-658-3223

Test: FS-0032-0213  
Date: 2/1/2013

Company: Cudd Pumping-Fasken Oil  
Submitted By: Bill Ford  
Depth:  
Location: Leigh County, NM

Well Name:  
Formation: Bonespring Shale  
Source:  
Date Taken:

THE SAMPLE CONTAINED:

WATER	% by Vol.
OIL	% by Vol.
SOLIDS	% by Vol.
EMULSION	% by Vol.

ANALYSIS OF OIL:

BS&W	% by Wt.
API Gr.	° @ 60 °F
PARAFFIN	% by Wt.
ASPHALTENES	% by Wt.
CLOUD POINT	°F
POUR POINT	°F

ANALYSIS OF SOLIDS:

ANALYSIS OF WATER

CALCIUM	5,727 mg/L
MAGNESIUM	1,093 mg/L
BARIUM	0 mg/L
IRON <sup>2</sup>	17 mg/L
POTASSIUM	mg/L
CHLORIDES	89,000 mg/L
BICARBONATES	153 mg/L
CARBONATES	mg/L
HYDROXIDES	mg/L
SULFATES	275 mg/L
SODIUM (Calc.)	44,933 mg/L
TDS (Calc.)	137,770 mg/L
IODIDES (Qual.)	
pH	6.37
Sp. Gr.	1.0961
Rw	0.070 Ohm-Meters
TEMPERATURE	70 ° F

COMMENTS:

The sodium and TDS are calculated using the French Creek DownHole SAT.

Respectfully submitted,

Name Sherry Gaskins  
Title Chemist

NOTICE: This report is for information only and the content is limited to the sample described. CESI Chemical makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees CESI Chemical shall not be liable for any loss or damage, regardless of cause, including any act or omission of CESI Chemical, resulting from the use thereof.

# Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702  
Phone (432) 684-4233 Fax (432) 684-4277

## WATER ANALYSIS

Date **10/7/2009** Endura Rep **Norman Smiley**  
Sampling Point/Date **well head 9/29/2009**  
Company **Fasken Oil and Ranch**  
Formation \_\_\_\_\_ Lease **Ling Federal**

Code **10114034**  
State **New Mexico**  
County **Lea**  
Well **#4**  

Wolfcamp Water

## DISSOLVED SOLIDS

### CATIONS

	mg/l	me/l
Sodium, Na+ (Calc.)	<b>24,127</b>	<b>1,049</b>
Total Hardness as Ca++	<b>5,272</b>	<b>0</b>
Calcium Ca++	<b>5,176</b>	<b>259</b>
Magnesium, Mg++	<b>59</b>	<b>5</b>
Barium, Ba++	<b>0</b>	<b>0</b>
Iron (Total) Fe+++*	<b>21</b>	<b>1</b>

### ANIONS

Chlorides, Cl-	<b>46,550</b>	<b>1,311</b>
Sulfate, SO4-	<b>96</b>	<b>2</b>
Carbonate, CO3-	<b>0</b>	<b>0</b>
Bicarbonates, HCO3-	<b>49</b>	<b>1</b>
Sulfide, S-*	<b>0</b>	<b>0</b>
Total Dissolved Solid	<b>76,078</b>	

## OTHER PROPERTIES

pH*	<b>6.470</b>
Specific Gravity, 60/60 F.	<b>1.076</b>
Turbidity	<b>266</b>

## SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
<b>80</b>	<b>-0.9152</b>	<b>-1.2275</b>	<b>-1.4135</b>	<b>-29.0795</b>
<b>120</b>	<b>-0.6052</b>	<b>-1.2350</b>	<b>-1.2405</b>	<b>-29.3083</b>
<b>160</b>	<b>-0.1294</b>	<b>-1.2274</b>	<b>-1.0602</b>	<b>-29.5321</b>

## PERFORATIONS

# Affidavit of Publication

State of New Mexico,  
County of Lea.

I, DANIEL RUSSELL  
PUBLISHER

of the Hobbs News-Sun, a  
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Mexico, do solemnly swear that the  
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supplement thereof for a period

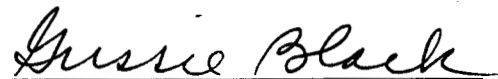
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Beginning with the issue dated  
June 29, 2013  
and ending with the issue dated  
June 29, 2013



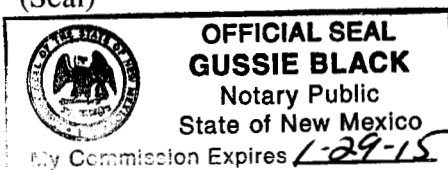
PUBLISHER

Sworn and subscribed to before me  
this 1st day of  
July, 2013



Notary Public

My commission expires  
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(Seal)



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1937 and payment of fees for said  
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FASKEN OIL AND RANCH, LTD  
6101 HOLIDAY HILL ROAD  
MIDLAND, TX 79707

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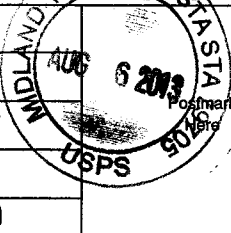
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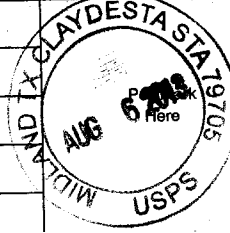
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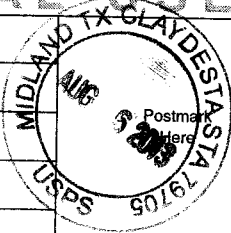
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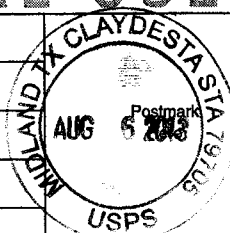
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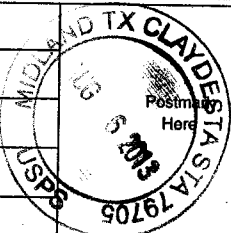
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P.O. Box 936  
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PS Form 3800, April 2008

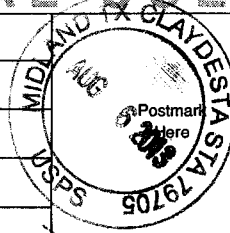
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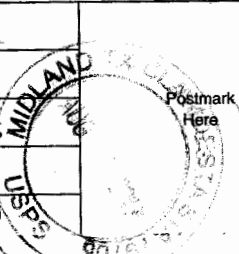
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**Harvard Petroleum Co., LLC**  
**13455 Noel Rd., #2000**  
**Dallas, TX 75240**

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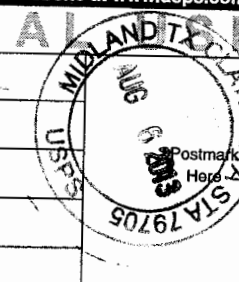
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**Explorers Petroleum**  
**500 N. Main Street**  
**Roswell, NM 88201**

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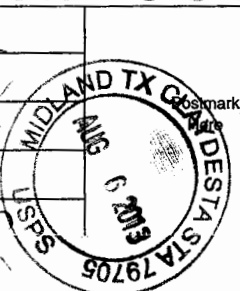
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**Carlsbad, NM 88220**

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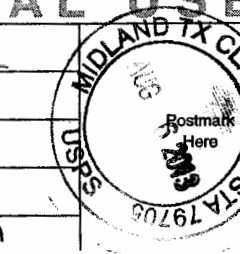
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**2507 Sinclair Ave.**  
**Midland, TX 79705**

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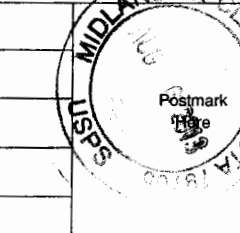
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**Fulfer Oil & Cattle / Gregg Fulfer**  
**P.O. Box 578**  
**Jal, NM 88252**

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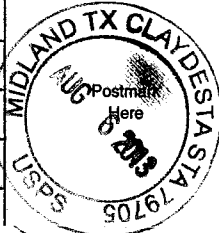


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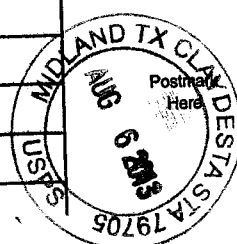
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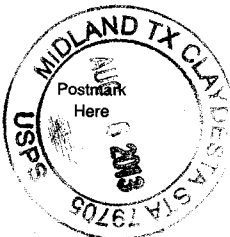
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**Midland, TX 79702**

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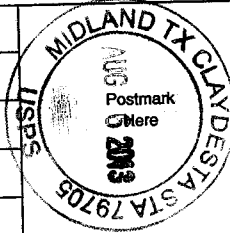
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**Prod. Partnership VP 18**  
**P.O. Box 3134**  
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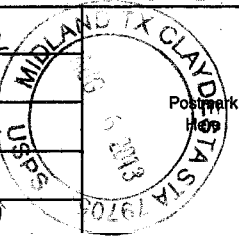
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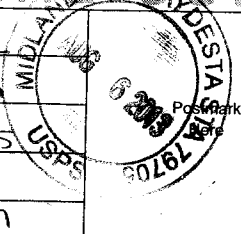
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**15 East 5<sup>th</sup> Street, Ste. 3200**  
**Tulsa, OK 74103**

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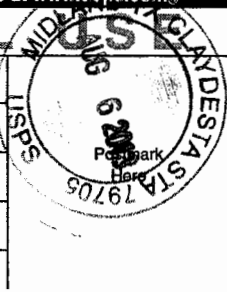
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Sent To **Merit Energy**  
 Street, Apt. or PO Box **12222 Merit Dr., Ste. 1500**  
 City, State, Zip **Dallas, TX 75251**

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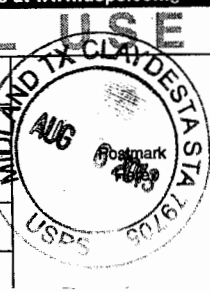
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 City, State, Zip **Tulsa, OK 74135**

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 Street, Apt. or PO Box **2400 E. Cherry Creek South Dr.**  
 City, State, Zip **Denver, CO 80209**

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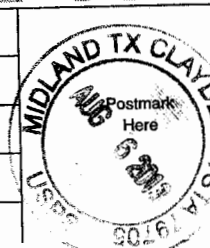
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 City, State, Zip **600 Travis, Ste. 5100**  
**Houston, TX 77002**

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 City, State, Zip **Albuquerque, NM 87125**

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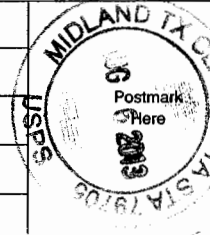
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Street, Apt. or PO Box **P.O. Box 51608**  
City, State **Midland, TX 79710**

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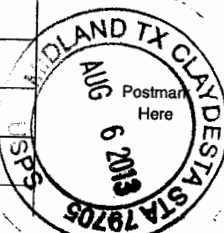
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Street, Apt. or PO Box **P.O. Box 1837**  
City, State **Roswell, NM 28202**

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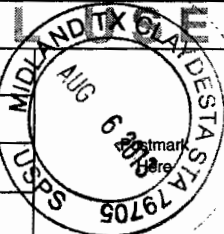
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Street, Apt. or PO Box **P.O. Box 1150**  
City, State **Midland, TX 79702**

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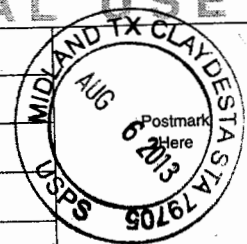
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City, State **Roswell, NM 88201**

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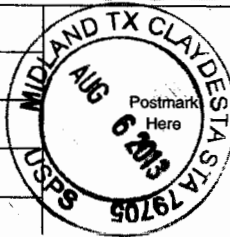
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Street, Apt. or PO Box **2826 Moss Ave.**  
City, State **Midland, TX 79705**

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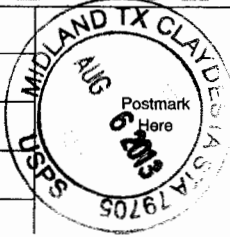
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Street, Apt. or PO Box **P.O. Box 1933**  
City, State **Roswell, NM 88202**

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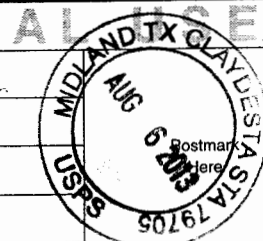
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Return Receipt Fee (Endorsement Required) 2.55  
Restricted Delivery Fee (Endorsement Required)  
Total Postage & Fees \$ 7.57



Sent To **Harvard & LeMay Exploration, Ltd.**  
Street, Apt. or PO Box **P.O. Box 936**  
City, State **Roswell, NM 88201**

PS Form

ctions

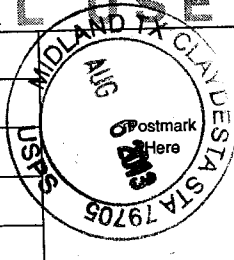
7011 3500 0001 7359 2365

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Total Postage & Fees	\$ 7.57



Sent To **Jack Fletcher Estate**  
 510 Storey Ave.  
 Midland, TX 79701

PS Form

uctions

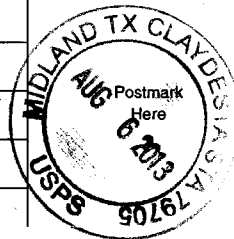
7011 3500 0001 7359 2341

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **Larry A. Nernmyr**  
 HC 57 Box 4106  
 Sidney, MT 59270

PS Form

uctions

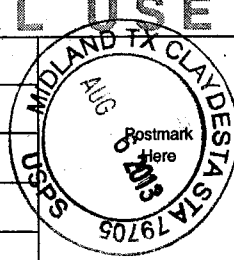
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **Harvey E. Yates Co.**  
 P.O. Box 1933  
 Roswell, NM 88202

PS Form

uctions

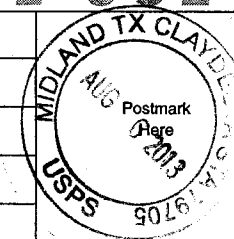
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **James E. Burr**  
 3803 Wedgwood Ct.  
 Midland, TX 79707

PS Form

uctions

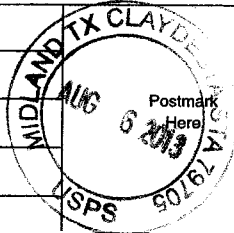
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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **Doyle Hartman**  
 P.O. Box 10426  
 Midland, TX 79702

PS Form

uctions

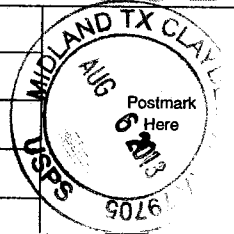
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **James A. Davidson Estate**  
 P.O. Box 494  
 Midland, TX 79702

PS Form

uctions

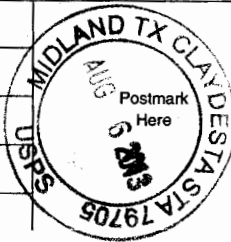
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Sent To **MJK Mineral Properties, Ltd.**  
 Street, Apt. or PO Box **500 W. Texas Ave., Ste. 1230**  
 City, State **Midland, TX 79701**

PS Form

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **Ronnie H. Westbrook**  
 Street, Apt. or PO Box **P.O. Box 3171**  
 City, State **Midland, TX 79707**

PS Form

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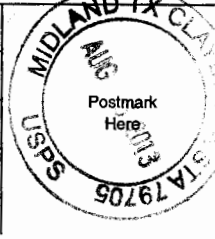
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
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Sent To **Oxy USA WTP, LP**  
 Street, Apt. or PO Box **6 Desta Drive, Suite 6000**  
 City, State **Midland, TX 79705**

PS Form

ctions

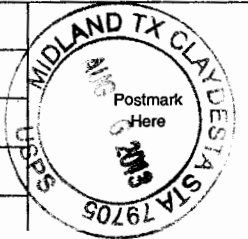
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Sent To **John H. Hendrix Corporation**  
 Street, Apt. or PO Box **P.O. Box 3040**  
 City, State **Midland, TX 79702**

PS Form

ctions

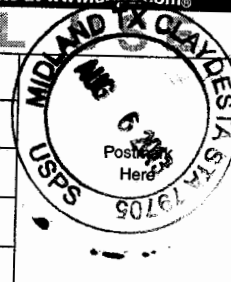
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57



Sent To **George M. Yates**  
 Street, Apt. or PO Box **P.O. Box 1933**  
 City, State **Roswell, NM 88201**

PS Form

ctions

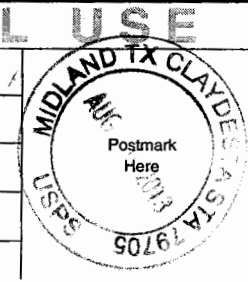
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Return Receipt Fee (Endorsement Required)	2.55
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Total Postage & Fees	\$ 7.57



Sent To **Yates Energy Corp.**  
 Street, Apt. or PO Box **P.O. Box 2323**  
 City, State **Roswell, NM 88202**

PS Form

ctions

7011 3500 0001 7359 2471

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Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57

Sent To **Enerstar Oil & Gas**  
 410 N. Main St.  
 Midland, TX 79701

PS Form 38

7011 3500 0001 7359 2488

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Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
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Sent To **Fulfer Oil & Cattle, LLC**  
 P.O. Box 755  
 Hobbs, NM 88242

PS Form

7011 3500 0001 7359 2457

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<b>OFFICIAL USE</b>	
Postage	\$ 1.92
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57

Sent To **Drilmor Inc.**  
 4914 N. Midkiff Rd.  
 Midland, TX 79705

PS Form 38

7011 3500 0001 7359 2464

<b>U.S. Postal Service™</b> <b>CERTIFIED MAIL™ RECEIPT</b> (Domestic Mail Only; No Insurance Coverage Provided)	
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<b>OFFICIAL USE</b>	
Postage	\$ 1.92
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57

Sent To **Ed Orr**  
 201 W. 5<sup>th</sup>, Ste. 500  
 Roswell, NM 74103

PS Form

7011 3500 0001 7359 2440

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Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57

Sent To **Devon SFS Operating, Inc.**  
 20 N. Broadway  
 Oklahoma City, OK 73102

PS Form

**FASKEN OIL AND RANCH, LTD.**

6101 Holiday Hill Road  
MIDLAND, TEXAS 79707

(432) 687-1777  
kimt@forl.com

**Kim Tyson  
Regulatory Analyst**

October 2, 2013

Mr. Martin Litt

Intrepid Potash – New Mexico, LLC  
Intrepid Potash, Inc.  
707 17<sup>th</sup> Street, Suite 4200  
Denver, CO 80202

Dear Mr. Litt,

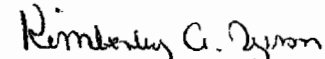
Re: Greenstone Federal Com No. 1  
SWD Application  
Teas; Delaware, Southeast Pool  
API No. 30-025-34677  
Lea County, New Mexico

Please find enclosed an application to convert to SWD for the Greenstone Federal Com No. 1. This letter and SWD application is being sent to let you know what Fasken's plans are concerning this well.

If you have any questions or need any additional information please e-mail me at [kimt@forl.com](mailto:kimt@forl.com) or call me at (432) 687-1777.

Thanks for your help concerning this matter.

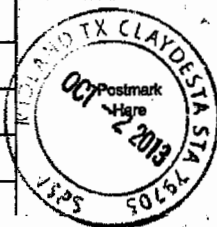
Yours truly,

  
Kimberley A. Tyson  
Regulatory Analyst



7011 3500 0001 7359 8046

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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.57
<b>Sent To</b> Intrepid Potash – New Mexico, LLC	
<b>Street, Ap or PO Box</b> Attn: General Counsel – Martin Litt	
<b>City, State</b> Intrepid Potash, Inc.	
707 17 <sup>th</sup> Street, Suite 4200	
Denver, CO 80202	
PS Form	itions





## C-108 Review Checklist:

Received

08/08/13

Add. Request:

10/01/13

Reply Date:

Noticed

09/30/13

Suspended:

-10/02/13

[Ver 10]

PERMIT TYPE: WFX / PMX (SWD)

Number:

1450

Permit Date:

10/24/13

Legacy Permits/Orders:

Production Info added

NA

Well No.:

L

Well Name(s):

Greenstone Federal Corn

API: 30-0

25-34677

Spud Date:

08/27/99

New or Old:

New

(UIC Class II Primacy 03/07/1982)

Footages:

SL: 480 FSL/1600 FEL

BUL: 962 FSL/1587 FEL

Lot:

Unit:

Sec:

19

Tsp:

20S

Rge:

34E

County:

Lea

General Location:

South of US180 / Pearl Oil field

Pool:

Lynch; Morrow

Pool No.:

80850

Operator:

Fasken Oil and Ranch Ltd

between Hobbs &amp; Cortland

OGRIID:

151416

Contact:

Kim Tyson

COMPLIANCE RULE 5.9: Inactive Wells:

1

Total Wells:

133

Fincl Assur:

Yes

Compl. Order?

No

IS 5.9 OK? OK

Well File Reviewed

Current Status:

formerly plugged Atoka gas producer

Additional data provide by e-mail - cross section &amp; structure based on top of Bell Canyon

Well Diagrams: NEW: Proposed

RE-ENTER: Before Conv.

After Conv.

Are Elogs in Imaging?:

Yes

Planned Rehab Work to Well:

Perf interval above cmt plug at 8351 / after drill out

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sxpr Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Conductor	—	—	—	—
Planned ___ or Existing ___ Surface	17 1/2 / 13 3/8	0 to 520	435	Circ. to surface
Planned ___ or Existing ___ Intern/Prod	12 1/4 / 9 5/8	0 to 5515	2620 (total)	Circ. to surface
Planned ___ or Existing ___ Prod/Intern	8 1/2 / 5 1/2	0 to 13912	2325 (total)	3828 / C&L
Planned ___ or Existing ___ Liner/Prod	Scab liner 1 1/2	12508 to 12604	50	Calculation
Planned ___ or Existing ___ OH / PERF	5 1/2	5646 - 8256	Inj Length 2610	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops?
Adjacent Unit: Litho. Struc. Por.	—	Tansil	3190
Confining Unit: Litho. Struc. Por.	-6	Jules 3220	3200
Proposed Inj Interval TOP:	5646	Bell Canyon fm/	5640
Proposed Inj Interval BOTTOM:	8256	Delaware	
Confining Unit: Litho. Struc. Por.	+270	Bone Spring	8526
Adjacent Unit: Litho. Struc. Por.	—	Wolfcamp	1138

Completion/Operation Details:	
Drilled TD	13872 TMD PBSD 13342 TMD
NEW TD	NA NEW PBSD NA
NEW Open Hole	or NEW Perfs
Tubing Size	2 7/8 in. Inter Coated? Yes
Proposed Packer Depth	5560 ft
Min. Packer Depth	5546 (100-ft limit)
Proposed Max. Surface Press.	1129 psi
Admin. Inj. Press.	1129 (0.2 psi per ft)

## AOR: Hydrologic and Geologic Information

POTASH: R-111-P

Noticed

BLM Sec Ord

WIPP

Noticed?

NA

SALADO: T:

B:

CLIFF HOUSE

NA

FRESH WATER: Formation

Max Depth:

150

Wells?

No

FW Analysis:

Hydrologic Affirm

By Qualified Person

Yes

Disposal Fluid: Formation Source(s)

Bone Spring / Strawn / Wolfcamp

Analysis?

Yes

On Lease

Operator Only

or Commercial

Yes

Disposal Interval: Injection Rate (Avg/Max BWPD):

5000/10000

Protectable Waters:

No

CAPITAN REEF: thru

adj

NA

H/C Potential: Producing Interval?

Formerly Producing?

Yes - Atoka

Method: E Log / Mudlog / DST / Depleted / Other

Request swab

Delaware - unknown

Request swab

AOR Wells: 1/2-M Radius Map?

Yes

Well List?

Yes

Total No. Wells Penetrating Interval:

1

Horizontals?

0

Penetrating Wells: No. Active Wells

1

Num Repairs?

0

on which well(s)?

Diagrams?

No

Penetrating Wells: No. P&amp;A Wells

0

Num Repairs?

0

on which well(s)?

Diagrams?

NA

NOTICE: Newspaper Date

07/01/13

Mineral Owner

Surface Owner

N. Date

N. Date

N. Date

N. Date

N. Date

N. Date

N. Date

N. Date

RULE 26.7(A): Identified Tracts?

Yes

Affected Persons:

58 parties

[oil/gas co./ private lease holders/]

3rd party rep/leasing etc.

N. Date

N. Date

N. Date

N. Date

N. Date

N. Date

N. Date

Permit Conditions: Issues:

Required potash notice - swab perfs and get water sample

Add Permit Cond:

1 Swab perfs

2 water sample

3 tag TOC at cmt plug below

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC

injection interval d analysis TOC



# Greenstone Federal Com #1

0/19/20S/34E

Lea

County, NM

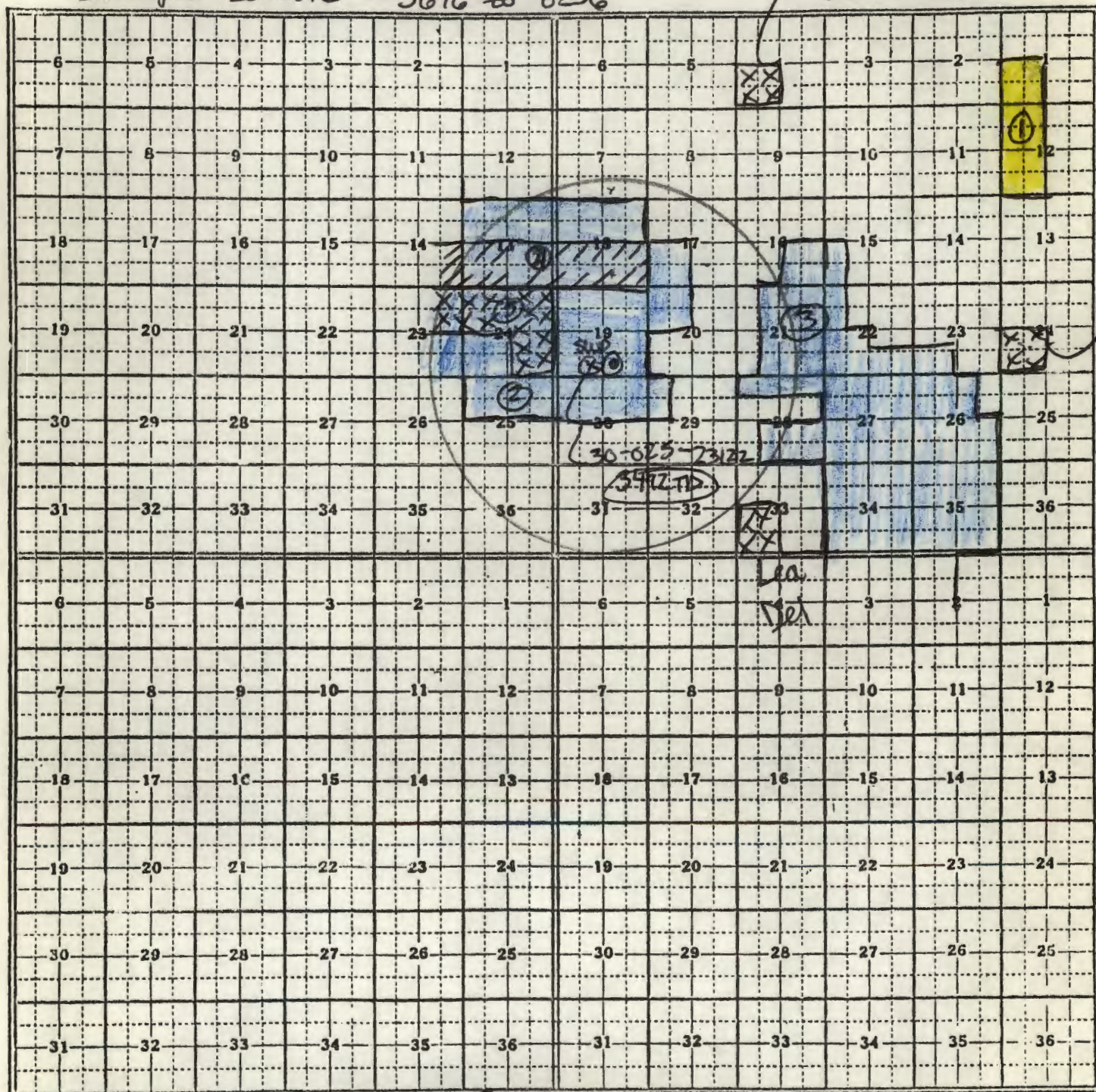
Township 20S Range 33E  
Township 21S Range 33E

Township 20S Range 34E  
Township 21S Range 34E

Identified "Delaware" - 5646 to 8256

Form 104 - (Four on Township)

South  
Dios Mano, Del



Pearl  
West  
Del

→ (5) Gem; Delaware, East

(2) Teas; Yates - 7 Rivers

(3) Lynch; Yates - 7 Rivers; Middle +

Lynch; Yates - 7 Rivers

South  
(1) San Andres - Lea Pool/closest

No Grayberg  
No Queen

(4) Teas; Yates - 7 Rivers

## Goetze, Phillip, EMNRD

---

**From:** Jimmy Carlile <jimmyc@forl.com>  
**Sent:** Monday, March 04, 2013 11:43 AM  
**To:** Goetze, Phillip, EMNRD; Jones, William V., EMNRD  
**Subject:** Fasken Oil and Ranch, Ltd. - Proposal for SWD Well

Phillip/Will,

I had talked briefly with Phillip earlier this morning on a proposal that Fasken wants to move forward. We plan on re-entering the plugged Greenstone Federal No. 1 (API 30-025-34677) located at 480' FSL, 1600' FEL, Section 19, T20S, R34E and make it an SWD in the Delaware. My question is there is an active Delaware well, the Sinagua 18 Federal No. 2, located about 1 ¼ miles north of this well. It is located at 2041' FSL, 2171' FEL, Section 18, T20S, R34E. I do not believe this poses any complications to our application, but wanted to make sure prior to filing the paperwork with you. Also, I believe this should be filed as an SWD, not a Secondary Recovery or Pressure Maintenance. Please let me know the answer to this. If you have any questions please let me know.

**Jimmy D. Carlile**  
**Regulatory Affairs Coordinator**

 **FASKEN** | OIL AND RANCH  
6101 Holiday Hill Road  
Midland, TX 79707

(432) 687-1777