

7/24/08 DATE IN	SUSPENSE	W Jones ENGINEER	7/24/08 LOGGED IN	SWD TYPE	PKVR0820651654 APP NO.
--------------------	----------	---------------------	----------------------	-------------	---------------------------

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.

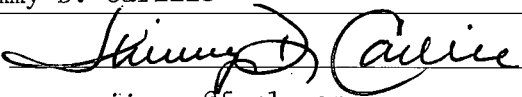
**[4] CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications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

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

Jimmy D. Carlile		Regulatory Affairs Coordinator	7/21/08
Print or Type Name	Signature	Title	Date
		jimmymc@forlcom	
		e-mail Address	

RECEIVED  
 2008 JUL 24 PM 1 47  
 Eastern  
 LING

**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: 303 West Wall, Suite 1800, Midland, TX 79701  
CONTACT PARTY: Jimmy D. Carlile 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: Jimmy D. Carlile TITLE: Regulatory Affairs Coordinator  
SIGNATURE:  DATE: 7/21/08  
E-MAIL ADDRESS: jimmyc@forl.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.

### III. Well Data

#### A) Tabular Well Data

1. Ling Federal No. 1  
1980' FNL & 1980' FEL  
Sec. 31, T-19-S, R-34-E
2. Surface Casing: 13-3/8" 48# H-40 set @ 408.46' & cemented to surface w/ 300 sx HLW w/ 2% CaCl<sub>2</sub> + 150 sx "C" w/ 2%CaCl<sub>2</sub>

Intermediate Casing: 9-5/8" 36&40# K-55 @ 5221' & cemented to surface w/ 2,300 sx Halliburton Lite with 15# salt + 300 sx "C" w/ 2%CaCl<sub>2</sub>

Production Casing: 5-1/2" 17&20# N-80 @ 13,690' DV @ 9367'. 1<sup>st</sup> stage cmt with 625 sx "H" with 5# salt. Did not circulate cement – TOC 11,230' (block squeezed behind 5-1/2" csg from 9,500'-9,800' with 125 sx class "H" in 2007). 2<sup>nd</sup> Stage: 1,300 sx of "C" with 5# salt. TOC above DV tool in 5-1/2" x 9-5/8" annulus is 3,920'.

2. Total Depth is 13,690'.
3. 2-7/8" poly-lined to 5650'
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 5650'.

Cast Iron Bridge Plug will be set @ 8,375' by wireline with 35' of cement on top.

#### B) Proposed Injection Formation Data

1. Injection Formation Name: Delaware
2. Injection Interval – 5,679' to 8,303' perforated.
3. Original Purpose of Well – Morrow gas producer.
4. Perforated Intervals – see attached wellbore diagrams.
5. Next Higher Oil/Gas Productive Zone – Yates @ 3,366'  
Next Lower Oil/Gas Productive Zone – Bone Springs @ 8,303'

### VII. Proposed Operation

1. Average Daily Rate – 500 BPD  
Maximum Daily Rate – 3,000 BPD  
Volume of Fluids to be Injected – 6,000,000 bbls
2. This will be a closed system.
3. Average Injection Pressure – 800 psi  
Maximum Injection Pressure – 1,135 psi

4. Produced water from the Bone Springs and Morrow formations will be injected into the Delaware interval. (See attached compatibility analysis)
5. See attached Delaware chemical analysis.

#### VIII. Geologic Data

##### 1. Formation Tops

Formation Name	Measured Depth (ft.)	Sub Sea Depth (ft.)	Total Vertical Depth (ft.)
Rustler	1,450	2,202	1,450
Yates	3,366	286	3,366
Delaware	5,679	-2,027	5,679
Bone Spring	8,303	-4,651	8,303
1st Bone Spring	9,395	-5,743	9,395
2nd Bone Spring	9,913	-6,261	9,913
3rd Bone Spring	10,597	-6,945	10,597
Strawn	12,205	-8,553	12,205
Atoka	12,431	-8,779	12,431
Morrow	12,749	-9,097	12,749
Lower Morrow	12,750	-9,098	12,750
Barnett	13,606	-9,954	13,606

##### 2. Injection Zone Lithology

The injection interval of 5,679' – 8,303' 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 starts at 5,679' (-2,027' SSD) and ends at the top of the Bone Springs located at 8,303' (-4,651' SSD).

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 275'. This formation is sealed off from the wellbore with 408' of 13-3/8" 48# H-40 casing that was cemented to surface with 450 sx Class "C" cement containing 2% CaCl<sub>2</sub>. The 9-5/8" 36&40# intermediate string was run to 5,221' and circulated to surface with 2,600 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.

*NO*

#### 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.

# Ling Federal No. 1

**CURRENT**

GL: 3629.6'

KB: 3652'

Operator: **Fasken Oil and Ranch, Ltd.**

Location: 1980' FNL and 1980' FEL

Sec 31, T19S, R34E

Lea County, NM

Compl.: 3/23/1983 released rig

API #: 30-025-28064

TD: 13,690'

PBTD: 12165' (CIBP 12200'w/35'cmt)

Casing: **13-3/8" 48# H-40 @ 408.46'**

w/300sxHLW w/2%CaCl2 (12.7ppg, 1.32 cuft/sk)

Plus 150sx "C" w/2%CaCl2 (14.8ppg, 1.32 cuft/sk)

TOC Surf, circ 19sx

**9-5/8" 36&40# K-55 @ 5221.06' KB**

w/2300sxHalliburton Light w/15#salt (11.8ppg, 2.05 cuft/sk)

Plus 300sx "C" w/2%CaCl2 (14.8ppg, 1.32 cuft/sk)

TOC Surf, circ 892sx

**5-1/2" 17&20# N-80 @ 13,690'**

325sx HLW "H" w/5#salt (12.4pg, 1.97cuft/sk)

+300sx "H" (15.6ppg, 1.22 cuft/sk)

DV: 9367' Dd not circ cmt thru DV

2nd stg 1100 sx HLW "C" w/5#salt (12.4ppg, 1.97cuft/sk)

+ 200 sx "C" (14.1ppg, 1.51cuft/sk)

2nd stg 1100 sx BJ Lite "C"

TOC: TOC below DV 11230' by CBL

TOC 5-12"X 9-5/8" annulus 3920'

CIBP CIBP @ 9455' w/35' cmt

Fish 5-1/2"CR+7jt(203.35') 2-3/8" fbrgls tbq

Perfs Bone Spring 9500' (4 sqz hls, 10/7/199 Resqzd 6/27/07

9587'-93' (6h, 10/14/1997) Sqzd 6/27/07

9608'-31' (23h, 7/3/07)

9638'-44' (6h, 10/14/1997) Sqzd 6/27/07

9800' (4 sqz hls) 4spf sqz holes

CIBP 12200' w/35' cmt

Strawn 12229'-40' (11h)

1/6/1996

CIBP 13100' w/35' cmt

1/4/1996

Morrow 13190'-223' (66h)

(4/23/87, 11/9/87)

13246'-48' (12/3/83, 10/22/87)

13250'-71' (54h) (12/3/83, 2/3/84, 10/22/87)

13321'-25' (4h) (5/12/88)

13328'-45' (17h) (5/12/88)

13373'-80' (7h) (5/12/88)

CIBP 13397'-405' (8'cmt)

(1/21/84)

CIBP 13424'-440' (16'cmt)

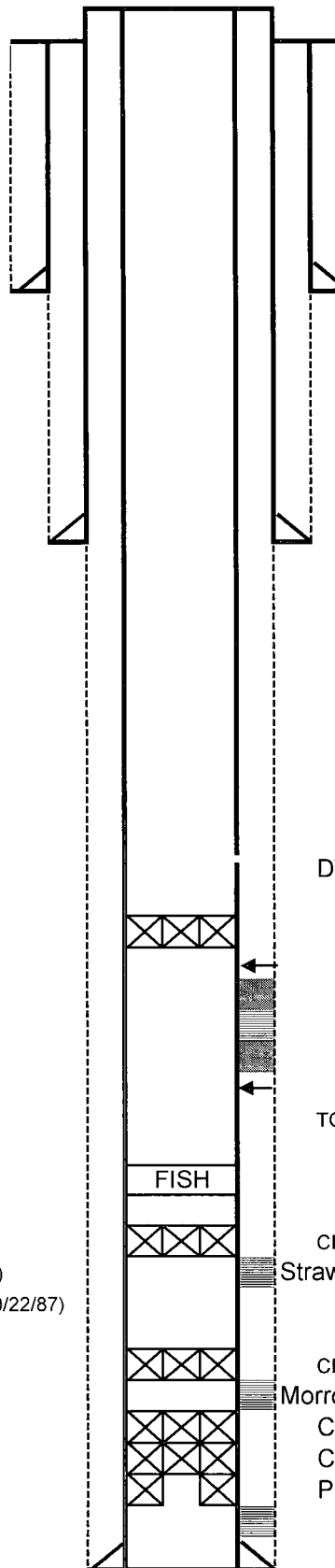
(12/9/83)

Pkr 13454'-13473' (w/18'cmt)

(3/29/83)

13514'-22' (8h) (3/31/83)

Hole Sizes: 17-1/2" 408' 12-1/4" 400'-5222' 8-3/4" 13,690'



13-3/8" 48# H-40 @ 408.46'

TOC Surf, circ 19sx

TOC 5-12"X 9-5/8" annulus 3920'

9-5/8" 36&40# K-55 @ 5221.06' KB

TOC Surf, circ 892sx

DV: 9367'

CIBP @ 9455' w/35' cmt

9500' (4 sqz hls, 10/7/1997)

9587'-93' Sqzd 6/27/07

9608'-31' (23h, 7/3/07)

9638'-44' Sqzd 6/27/07

9800' (4 sqz hls)

TOC below DV 11230' by CBL

5-1/2"CR+7jt(203.35') 2-3/8" fbrgls tbq

CIBP 12200' w/35' cmt

Strawn 12229'-40' (11h)

CIBP 13100' w/35' cmt

Morrow 13190'-13280'

CIBP 13397'-405' (8'cmt)

CIBP 13424'-440' (16'cmt)

Pkr 13454'-13473' (w/18'cmt)

13514'-22' (8h)

5-1/2" 17&20# N-80 @ 13,690'

TD: 13,690'

cwb

9-14-07

Ling\_Federal\_1\_Injection\_WBD's.xls

# Ling Federal No. 1

**PROPOSED**

GL: 3629.6'

KB: 3652'

Operator: **Fasken Oil and Ranch, Ltd.**

Location: 1980' FNL and 1980' FEL

Sec 31, T19S, R34E

Lea County, NM

Compl.: 3/23/1983 released rig

API #: 30-025-28064

TD: 13,690'

PBTD: 12165' (CIBP 12200'w/35'cmt)

Casing: **13-3/8" 48# H-40 @ 408.46'**

w/300sxHLW w/2%CaCl2 (12.7ppg, 1.32 cuft/sk)

Plus 150sx "C" w/2%CaCl2 (14.8ppg, 1.32 cuft/sk)

TOC Surf, circ 19sx

**9-5/8" 36&40# K-55 @ 5221.06' KB**

w/2300sxHalliburton Light w/15#salt (11.8ppg, 2.05 cuft/sk)

Plus 300sx "C" w/2%CaCl2 (14.8ppg, 1.32 cuft/sk)

TOC Surf, circ 892sx

**5-1/2" 17&20# N-80 @ 13,690'**

325sx HLW "H" w/5#salt (12.4pg, 1.97cuft/sk)

+300sx "H" (15.6ppg, 1.22 cuft/sk)

DV: 9367' Dd not circ cmt thru DV

2nd stg 1100 sx HLW "C" w/5#salt (12.4ppg, 1.97cuftsk)

+ 200 sx "C" (14.1ppg, 1.51cuft/sk)

2nd stg 1100 sx BJ Lite "C"

TOC: TOC below DV 11230' by CBL

TOC 5-12"X 9-5/8" annulus 3920'

CIBP CIBP @ 9455' w/35' cmt

Fish 5-1/2"CR+7jt(203.35') 2-3/8" fbrgls tbg

Perfs Bone Spring 9500' (4 sqz hls, 10/7/199 Resqzd 6/27/07

9587'-93' (6h, 10/14/19973' Sqzd 6/27/07

9608'-31' (23h, 7/3/07)

9638'-44' (6h, 10/14/19974' Sqzd 6/27/07

9800' (4 sqz hls) 4spf sqz holes

CIBP 12200' w/35' cmt

Strawn 12229'-40' (11h)

1/6/1996

CIBP 13100' w/35' cmt

1/4/1996

Morrow 13190'-223' (66h)

(4/23/87, 11/9/87)

13246'-48'

(12/3/83, 10/22/87)

13250'-71' (54h)

(12/3/83, 2/3/84, 10/22/87)

13321'-25' (4h)

(5/12/88)

13328'-45' (17h)

(5/12/88)

13373'-80' (7h)

(5/12/88)

CIBP 13397'-405' (8'cmt)

(1/21/84)

CIBP 13424'-440' (16'cmt)

(12/9/83)

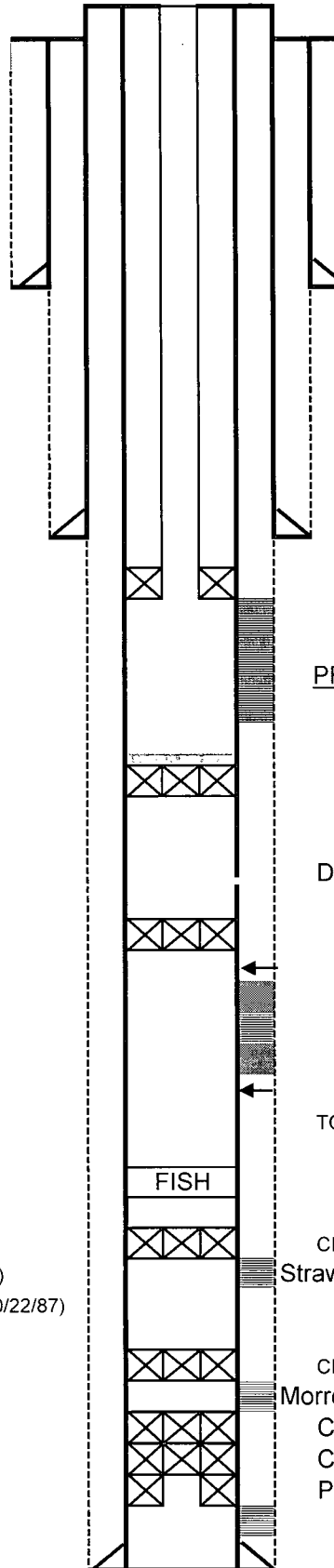
Pkr 13454'-13473' (w/18'cmt)

(3/29/83)

13514'-22' (8h)

(3/31/83)

Hole Sizes: 17-1/2" 408' 12-1/4" 400'-5222' 8-3/4" 13,690'



13-3/8" 48# H-40 @ 408.46'

TOC Surf, circ 19sx

TOC 5-12"X 9-5/8" annulus 3920'

9-5/8" 36&40# K-55 @ 5221.06' KB

TOC Surf, circ 892sx

2-7/8" poly lined tubing to 5650'

5-1/2" x 2-7/8" Nickel Plated Packer

**PROPOSED DELAWARE INJECTION IN**

5,679' - 8,303'

**PROPOSED CIBP @ 8,375'**

w/ 35' cmt on top by WL

DV: 9367'

CIBP @ 9455' w/35' cmt

9500' (4 sqz hls, 10/7/1997)

9587'-93' Sqzd 6/27/07

9608'-31' (23h, 7/3/07)

9638'-44' Sqzd 6/27/07

9800' (4 sqz hls)

TOC below DV 11230' by CBL

5-1/2"CR+7jt(203.35') 2-3/8" fbrgls tbg

CIBP 12200' w/35' cmt

Strawn 12229'-40' (11h)

CIBP 13100' w/35' cmt

Morrow 13190'-13280'

CIBP 13397'-405' (8'cmt)

CIBP 13424'-440' (16'cmt)

Pkr 13454'-13473' (w/18'cmt)

13514'-22' (8h)

5-1/2" 17&20# N-80 @ 13,690'

TD: 13,690'

cwb

9-14-07

Ling\_Federal\_1\_Injection\_WBD's.xls



Side 1

# INJECTION WELL DATA SHEET

OPERATOR: Fasken Oil and Ranch, Ltd. 303 West Wall, Suite 1800, Midland, TX 79701

WELL NAME & NUMBER: Ling Federal #1

WELL LOCATION: 1980' FNL & 1980' FEL

FOOTAGE LOCATION	UNIT LETTER	31	T-19 S	R-34 E
		SECTION	TOWNSHIP	RANGE

## WELLBORE SCHEMATIC

See attached

## WELL CONSTRUCTION DATA

### Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8", 48# @ 408'  
Cemented with: 450 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", 36 & 40# @ 5221'  
Cemented with: 2600 sx. or        ft<sup>3</sup>  
Top of Cement: Surface Method Determined: Circulated

### Production Casing

Hole Size: 8 3/4" Casing Size: 5 1/2", 17 & 20# @ 13,690'  
Cemented with: 3025 sx. or        ft<sup>3</sup>  
Top of Cement: 3920' Method Determined: Temp. Survey

Total Depth: 13,690'

### Injection Interval

5679'        feet to 8303'

(Perforated ~~at 8303'~~; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Polylined

Type of Packer: Nickel plated Weatherford Arrowset IX Double Grip

Packer Setting Depth: 5650'

Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? Yes X No
- If no, for what purpose was the well originally drilled? Morrow gas well

2. Name of the Injection Formation: Delaware

3. Name of Field or Pool (if applicable):

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: Morrow - 12,749'

Bone Spring - 8303'



Fasken Oil and Ranch, Ltd.

Ling Federal No.1

Table of Well Data within 1/2 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>
Culbertson-Irwin	Welch No.1	30-025-02401	P&A (Dry)	9/24/1941	3701'	Dry Hole

**Location:** 660' FNL 1980' FWL  
Sec. 31, T19S, R34E

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

---

John E. Trigg      Government No. 1      30-025-23230      P&A (Dry)      7/25/1969      3667'      Dry Hole

**Location:** 1650' FSL 1750' FEL  
Sec. 31, T19S, R34E

**Casing:** Well did 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 Perfs</u>
Cimarex	Mallon "30" Federal No. 34	30-025-34387	Oil			Apache Ridge Bone Springs

**Location:** 660' FSL 1980' FEL  
Sec. 30, T19S, R34E

**Casing:** Permitted not Drilled.

Fasken Oil and  
Ranch, Ltd.

Ling Federal No. 4 30-025-38748

Gas

Morrow

**Location:** 1660' FSL 2310' FEL  
Sec. 31, T19S, R34E

**Casing:** Permitted not Drilled

Fasken Oil and  
Ranch, Ltd.

Ling Federal No. 3 30-025-38608

Oil

1/21/2008

10,706'

Bone Springs  
9,371' - 9,595'

**Location:** 660' FNL 1980' FEL  
Sec. 31, T19S, R34E

**Casing:** 13 3/8" at 1613' with 1300 sx, TOC - Surface  
9 5/8" at 5216' with 1650 sx, TOC - Surface  
5 1/2 at 10,700' with 1135 sx, TOC - 4496' Temp. Survey ✓

<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>
Cimarex	Mescalero "30" Federal No.6	30-025-38594	Oil	11/12/2007	10,361'	Bone Springs 9,590' - 9,620' 9,558' - 9,586'
<b>Location:</b>	330' FSL 2080' FEL Sec. 30, T19S, R34E					
<b>Casing:</b>	13 3/8" at 1555' with 1100 sx, TOC - Surface 8 5/8" at 5730' with 1850 sx, TOC - Surface - (Calculated) 5 1/2 at 10,361' with 915 sx, TOC - 4410' Temp. Survey ✓					
Cimarex	Mescalero "30" Federal No. 1	30-025-29266	Oil	5/23/1985	13,670'	Morrow 13,186' - 13,526' CIBP @ 12,840' Bone Springs 9,604' - 9,376'
<b>Location:</b>	510' FSL 990' FEL Sec. 30, T19S, R34E					
<b>Casing:</b>	13 3/8" at 411' with 425 sx, TOC - Surface 8 5/8" at 4997' with 2550 sx, TOC - Surface 5 1/2 at 13,668' with 920 sx, DV Tool at 7104' - 1 <sup>st</sup> Stage TOC - 9328' CBL, 2 <sup>nd</sup> Stage TOC - 5580' CBL, ✓					

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

**Offset Operators  
within a ½ mile  
radius:**

Cimarex Energy Company  
600 N. Marienfeld, Suite 600  
Midland, TX 79701

**Surface Owner:**

Larry Hughes  
P.O. Box 57  
Monument, NM 88265



## Martin Water Laboratories, Inc.

*Analysts & Consultants since 1953*  
Bacterial & Chemical Analysis

May 28, 2008

RECEIVED

JUN 03 2008

FASKEN OIL AND  
RANCH, LTD.

Clay Lamb  
Fasken Oil & Ranch, Ltd.  
303 W. Wall, Suite 1800  
Midland, TX 79701

Dear Clay:

In hypothetically combining the Bone Springs water represented by Martin Water Labs analysis #408-166, Morrow water represented by Halliburton analysis #062, and the water labeled as Delaware (Halliburton analysis W83-078), we see no significant calcium sulfate scaling potential nor barium sulfate scaling potential as long as no barium is present in the Morrow water. There could be a small calcium carbonate scale potential due to the high bicarbonate in the Bone Springs water. No iron sulfide or elemental sulfur precipitation should occur with a mixture of these three waters. Therefore, there does not appear to be any substantial incompatibilities between these three waters. It should be noted that this opinion is based solely on the evidence provided by the submitted analyses and could be different if the characteristics of any water had changed when actual mixing occurs.

Sincerely,

Greg Ogden, B.S.



709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8819

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

APR 10 1989

Greg Ogden  
JWS JFB Water Analysis  
file

No. 062

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

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

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 \_\_\_\_\_ 1,550

Remarks:

Post-it® Fax Note

7671

Date	<u>5-22-08</u>	# of pages	<u>1</u>
To	<u>Greg Ogden</u>		
From	<u>Clay Lamb</u>		
Co./Dept.	<u>Martin Water Labs</u>		
Co.	<u>Fasken Oil &amp; Ranch</u>		
Phone #	<u>432-683-4521</u>		
Phone #	<u>432-687-1777</u>		
Fax #	<u>432-682-8819</u>		
Fax #	<u>432-818-0238</u>		

\*Milligrams per liter

Analyst: Jay Bradford

HALLIBURTON COMPANY

cc:

By \_\_\_\_\_  
CHEMIST**NOTICE**

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

## H. HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

## LABORATORY WATER ANALYSIS

No. W83-078

To David FaskenDate 1-20-83807 1st National Bank BuildingMidland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

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

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

Pit Sample - Res. @ 70°F. - 0.247

Chlorides, mpl - 15,000

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By

W. L. Brewer

CHEMIST

## NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a  
newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of 1  
\_\_\_\_\_ weeks.

Beginning with the issue dated

May 21 2008  
and ending with the issue dated

May 21 2008

*Kathi Bearden*  
PUBLISHER

Sworn and subscribed to before

me this 21st day of

May 2008

*Dora Montz*  
Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

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

LEGAL NOTICE  
May 21, 2008

Fasken Oil and Ranch, Ltd., 303 West Wall, suite 1800,  
Midland Texas 79701, is filing Form C-108 (Application for  
Authorization to Inject) with the New Mexico Oil Conserva-  
tion Division seeking administrative approval for a salt water  
disposal well. The proposed well, Ling Federal No. 1, is lo-  
cated 1980' FNL, 1980' FEL, Section 31, T19S, R34E, Lea  
County, New Mexico. Disposal water will be sourced from  
area wells producing from the Bone Springs and Morrow  
formation. The disposal water will be injected into the Dela-  
ware formation at a depth of 5679'-8303', at a maximum  
surface pressure of 1,135 psi and a maximum rate of 3000  
BPD. Any interested party who has an objection to this ap-  
plication must give notice in writing to the Oil and Conserva-  
tion Division, 1220 South Saint Francis Street, Santa Fe,  
New Mexico, 87505, within fifteen (15) days of this notice.  
Any interested party with questions or comments may con-  
tact Jimmy D. Carlile at Fasken Oil and Ranch, Ltd., 303  
West Wall, and Suite 1800, Midland, Texas 79701, or call  
(432) 687-1777.

#24075

67101129000

02600385

FASKEN OIL AND RANCH, LTD.  
303 WEST WALL, SUITE 1800  
MIDLAND, TX 79701

7001 0320 0000 3745 1641

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

**OFFICIAL USE**

Postage	\$ 1.34
Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	2.20
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 6.24</b>

Postmark  
Here

JUL 21 2008

Sent To

**CIMAREX ENERGY COMPANY**  
 Street, Apt. No.,  
 or PO Box No. **600 N MARIENFELD ST STE 600**  
 City, State, ZIP+4 **MIDLAND TX 79701-4405**

PS Form 3800, January 2001

See Reverse for Instructions

7001 0320 0000 3745 1658

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

**OFFICIAL USE**

Postage	\$ 1.34
Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	2.20
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 6.24</b>

Postmark  
Here

JUL 21 2008

Sent To

**LARRY HUGHES**  
 Street, Apt. No.,  
 or PO Box No. **PO BOX 57**  
 City, State, ZIP+4 **MONUMENT NM 88265-0057**

PS Form 3800, January 2001

See Reverse for Instructions

CMD :  
OG5SEC2

ONGARD  
VIEW LAND BY ULSTR

08/29/08 14:21:32  
OGOWVJ -TPHQ  
PAGE NO: 1

Sec : 31 Twp : 19S Rng : 34E Cnty1 : Lea  
Cnty2 : Cnty3 :

U Lot/ Qtr	SRF SUB	ACTIVE	Bene	REMARKS
L. Trct Qtr	ACREAGE	OWNER	LEASE #	(may show restrictions codes)

A	NE4NE4	40.00	FE	FD
B	NW4NE4	40.00	FE	FD
C	NE4NW4	40.00	FD	FD
D 1		40.86	FD	FD
E 2		40.98	FD	FD
F	SE4NW4	40.00	FD	FD
G	SW4NE4	40.00	FE	FD
H	SE4NE4	40.00	FE	FD
I	NE4SE4	40.00	FE	FD
J	NW4SE4	40.00	FE	FD
K	NE4SW4	40.00	FD	FD

PF01 HELP	PF02 PREV	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

CMD :  
OG5SEC2

ONGARD  
VIEW LAND BY ULSTR

08/29/08 14:21:48  
OGOWVJ -TPHQ  
PAGE NO: 2

Sec : 31 Twp : 19S Rng : 34E Cnty1 : Lea  
Cnty2 : Cnty3 :

U Lot/ Qtr	SRF SUB	ACTIVE	Bene	REMARKS
L Trct Qtr	ACREAGE	OWNER	LEASE #	(may show restrictions codes)
L 3	41.10	FD FD		POT
M 4	41.22	FD FD		POT
N SE4SW4	40.00	FD FD		
O SW4SE4	40.00	FE FD		
P SE4SE4	40.00	FE FD		

M0001: This is the last page

PF01 HELP	PF02 PREV	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

UNITED STATES N. M. OIL & GAS COMMISSION  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY HOBBS, NEW MEXICO 88240Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM14496

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

David Fasken

3. ADDRESS OF OPERATOR

608 First National Bank Bldg., Midland, TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.  
See also space 17 below.)  
At surface

1980' FNL &amp; 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3629.6 GR.

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ling Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Designated (Morrow)

11. SECTION, T., R., M., OR BLK. AND  
SURVEY OR AREA

31 T-19-S, R-34-E

12. COUNTY OR PARISH

Lea

NM

16.

Check Appropriate Box To Indicate Nature of Well or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Drilling to T.D., 5 1/2" prod csg XX

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1. Set 9 5/8" csg @ 5200' on 1-15-83.
2. Drilled 8 3/4" hole from 5200' to 13,690' (TD) between 1-17-83 & 3-8-83.
3. 1-19-83 - DST #1 6207' - 6236' (see attached).
4. 1-29-83 - DST #2 9400' - 9485' (see attached).
5. 2-14-83 - DST #3 12,225' - 12,250' (see attached).
6. 2-28-83 - DST #4 13,171' - 13,229' - packer failure.
7. 2-28-83 - DST #5 13,149' - 13,229' (see attached).
8. 3-9-83 to 3-10-83 - Logged open hole from TD 13,690' to 9 5/8" csg and from 9 5/8" csg to surface - CNL - FDC & DLL.
9. 3-11-83 - RIH w/one float shoe, one float collar, 113 jts 5 1/2" 20#/ft, N-80 LT&C csg., DV Tool @ 9367', 117 jts 17#/ft, N-80, 105 jts 5 1/2" 17#/ft, N-80 Buttress, cement baskets @ 9446' & 8308', 35 centralizers, set csg @ 13,690', cemented 1st stage w/500 gals Flocheck-21, 325 sx HLW "H" w/5# salt/sx, 1/4# Flocele/sx, 0.4% CFR-2, SW 12.4 ppg, yield 1.97 cf/sx. Plus 300 sx Class "H" w/3# salt/sx, 0.8% Halad-22, 0.4% CFR-2, SW 15.6 ppg, yield 1.22 cf/sx, pumped plug down, dropped DV opening plug, opened DV Tool & circulated through DV Tool 6 hrs, cemented 2nd stage w/500 gals Flocheck-21, 1100 sx HLW "C", 5# salt/sx, 1/4# Flocele/sx, 0.4% CFR-2, SW 12.4 ppg, yield 1.97 cf/sx, plus 200 sx Class "C" Neat, SW 14.1 ppg, yield 1.51 cf/sx, plug down & DV Tool closed @ 2:15 P.M. CDT. Total 336 jts 5 1/2" csg.
10. 3-12-83 - WOC. Ran temperature survey, top of cement @ 3290', PBTD inside 5 1/2" csg @ 9359'

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

3-18-83

(This space for Federal use only)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL

ACCEPTED FOR RECORD  
(ORIG. SGD.) DAVID R. GLASS

MAR 21 1983

MINERALS MANAGEMENT SERVICE  
ROSWELL, NEW MEXICO

\*See Instructions on Reverse Side



DST #1 6207' - 6236':

TO @ 10:48 AM w/wk blo, ½" down in bucket  
at 5 " cont w/wk blo, ½" down in bucket

Tool Open 5 "

Tool Closed 60 "

Reopened Tool @ 11:53 AM w/wk blo, ½" down in bucket, blow gradually decreasing, well dead in 1 hr & 35 mins.

Tool Open 110 "

Tool Closed 220 "

Recovery: 126' fluid (drlg water & form water - no oil), top water sample 15500 PPM, Cl.) Top tool water sample 22400 PPM, Cl, pit water 14000 PPM, Cl.

Sampler Recovery: 2400 cc form water w/very, very, slight trace of brownish oil, no gas in sampler @ 30 psig. Sampler water 23000 PPM, Cl.

	<u>Btm Recorder</u>	<u>Top Recorder</u>
IHP	2701 psig	2741 psig
IPFP	malf.	23 "
FPFP 5"	malf.	35 "
ISIP 60"	1747 psig	1876 "
IFP	80 "	46 "
FFP 110"	91 "	69 "
FSIP 220"	2177 "	2245 "
FHP	2701 "	2741 "
BHT 105° F		

DST #2 9400' - 9485'

TO 8:46 A.M. w/wk blo 1" dwn in bkt. TO 11" w/steady decline in blo, TC 1½ hrs.

TO 10:27 A.M. w/4" blo inc from btm of bkt

9" blo 3/4# on bubble hose

15" blo 1¼# on bubble hose

30" blo 2# on bubble hose

60" blo 3 3/4 on bubble hose

70" blo 4 3/4 switched to ½" choke

80" blo 3 3/4 on ½" choke

130" blo 2# & GTS on ½" choke

180" blo 1 3/4# & GTS on ½" choke

Shut in @ 1:27 P.M. TO 3 hrs, TC 6 hrs.

Recovery: 651' - 100' oil, 551' form wtr, 3.18 bbl total, ½ bbl oil, 2.6 bbls wtr.

Chlorides: 16,800 ppm below oil, 38,100 ppm @ top of tool, 16,700 ppm @ pit.

Sampler: 150#, "0" gas, 2100 cc form wtr, 35,000 ppm Chlorides, no oil.

	<u>Outside</u>	<u>Inside</u>
IHP	4182	4111
IPFP	66	44
FPFP 11"	88	66
ISIP 90"	3817	3767
IFP	153	131
FFP 180"	241	219
FSIP 365"	3817	3767
FHP	4182	4111
BHT 146°		

**Jones, William V., EMNRD**

---

**From:** Jimmy Carlile [jimmyc@forl.com]  
**Sent:** Friday, September 19, 2008 8:58 AM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: SWD Application from Fasken: Ling Federal #1 30-025-28064 Unit G Sec 31 T19S R34E Lea County

In response to your questions,

1. Logs are being sent electronically to the OCD office on this well.
2. W/2W/2 of Section 32 is Cimarex, and they were noticed.
3. Our geologist and engineer have reviewed the entire interval and do not see any productive intervals.
4. There is an old windmill about 300' north of this well. The equipment is old and completely non-functioning. The rancher says the well is dry, and he has to haul water to a holding tank to keep water in his troughs. There are no other water wells within 1 mile that we are aware of.
5. Lastly, we have the affirmative statement being signed and will be sent out to you today.

Please let me know if you have any other questions. Thanks. And again, sorry for dropping the ball on this.

---

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Friday, August 29, 2008 5:20 PM  
**To:** jimmyc@forl.com  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** SWD Application from Fasken: Ling Federal #1 30-025-28064 Unit G Sec 31 T19S R34E Lea County

Hello Jimmy:  
 Application looks good, but need to ask hopefully easy questions:

- 1) Please see if Fasken has any elogs for this well and send copies to the Hobbs district office for scanning - none appear on the web site.
- 2) Who controls the W/2 W/2 of Section 32 in the Delaware? Were they provided notice?
- 3) I see the DST over a narrow interval in the Delaware and it was Wet - but does your geologist/engineer see no other prospective oil production intervals in this large proposed injection interval (5679 - 8303).
- 4) Please ask your field people to locate any windmill or domestic well within 1 mile of this proposed injection site and have an analysis run and mailed in.
- 5) The affirmative statement was not signed by a geologist - thanks for sending the formation tops.

Thanks for the compatibility analysis of the three waters. Also, Rule 40 looks fine for Fasken.

Regards,  
 William V. Jones PE  
 New Mexico Oil Conservation Division  
 1220 South St. Francis  
 Santa Fe, NM 87505  
 505-476-3448

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended

9/19/2008

RECEIVED

2008 SEP 23 PM 3 03

FASKEN OIL AND RANCH, LTD.

303 WEST WALL AVENUE, SUITE 1800  
MIDLAND, TEXAS 79701-5116

(432) 687-1777  
jimmyc@forl.com

Jimmy D. Carlile  
Regulatory Affairs Coordinator

September 19, 2008

Mr. William V. Jones  
New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, NM 87505

Dear Mr. Jones,

Re: Fasken Oil and Ranch, Ltd.  
Ling Federal No. 1  
Application for Authorization to Inject

Attached is the affirmative statement signed by our Exploration Manager, Dexter Harmon. If you have any other questions concerning this application, please give me a call or email me at [jimmyc@forl.com](mailto:jimmyc@forl.com).

Yours truly,



Jimmy D. Carlile  
Regulatory Affairs Coordinator

VII. 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.

x 

Dexter L. Harmon, Geologist

Date: 9-19-08

# Injection Permit Checklist (7/8/08)

Case \_\_\_\_\_ R- \_\_\_\_\_ SWD \_\_\_\_\_ WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date \_\_\_\_\_ UIC Qtr \_\_\_\_\_

# Wells \_\_\_\_\_ Well Name: LING Fabul #1

API Num: (30-) 025-28064 Spud Date: 3/83 New/Old: N (UIC primacy March 7, 1982)

Footages 1980 FNL/1980 FEL Unit G Sec 31 Tsp 19S Rge 34E County \_\_\_\_\_

Operator: Forbush Oil & Ranch, Ltd. Contact Jimmy D. Cardile

OGRID: 15146 RULE 40 Compliance (Wells) 1/141=OK (Finan Assur) OK

Operator Address: 303 W. Woll, Suite 1800, Midland TX, 79701

Current Status of Well: TAED Monitor/STRAWN/BS well

Planned Work to Well: See CIBP @ 8375' Planned Tubing Size/Depth: 27/8 @ 5650

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	<u>17 1/2 13 5/8</u>	<u>408</u>	<u>300+150</u>	<u>GIRC</u>
Existing <input checked="" type="checkbox"/> Intermediate	<u>12 1/4 9 5/8</u>	<u>5221</u>	<u>2300+300</u>	<u>CIRC</u>
Existing <input checked="" type="checkbox"/> Long String	<u>8 3/4 5 1/2</u>	<u>13690</u>	<u>125/1300</u>	<u>B. already not CIRC / 3920' above DV</u>

DV Tool 9367 Liner \_\_\_\_\_ Open Hole \_\_\_\_\_ Total Depth 13690 PBTD 8375

Well File Reviewed ☒

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: None

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	<u>3366</u>	<u>Y above TOP Del.</u>	
Injection.....			
Interval TOP:	<u>5679</u>	<u>Del</u>	<u>1136</u> PSI Max. WHIP
Injection.....			
Interval BOTTOM:	<u>8303</u>	<u>Del</u>	<u>NO</u> Open Hole (Y/N)
Below (Name and Top)	<u>8303</u>	<u>BS.</u>	<u>NO</u> Deviated Hole?

Sensitive Areas: Capitan Reef NE EDGE Cliff House \_\_\_\_\_ Salt Depths (1450-)

..... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 0-275' Wells (Y/N) \_\_\_\_\_ Analysis Included (Y/N): \_\_\_\_\_ Affirmative Statement ☒

Salt Water: Injection Water Types: BS & Monitor + COMPATIBILITY Analysis? \_\_\_\_\_

Injection Interval.....Water Analysis: DEL Hydrocarbon Potential ? DST says well

Notice: Newspaper (Y/N) ☒ Surface Owner Larry Hurdles Mineral Owner(s) Fed

RULE 701B(2) Affected Parties: Cincoax/Marsh

Area of Review: Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 3 Num Repairs \_\_\_\_\_ Producing in Injection Interval in AOR NO

..P&A Wells 0 Num Repairs \_\_\_\_\_ All Wellbore Diagrams Included? \_\_\_\_\_

Questions to be Answered:  
W/2 W/2 of Sec 32?

Required Work on This Well: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

\_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_