



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

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

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02273			LE	1	2	21	26S	33E	634549	3545134*		160	120	40
C 03577 POD1		CUB	LE	3	3	3	22	26S	33E	636010	3543771	750	110	640
C 03596 POD1		C	LE	3	3	4	22	26S	33E	636017	3543756	225		

Average Depth to Water: 115 feet

Minimum Depth: 110 feet

Maximum Depth: 120 feet

Record Count: 3

PLSS Search:

Section(s): 20-26

Township: 26S

Range: 33E

*UTM location was derived from PLSS - see Help

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

McMillan, Michael, EMNRD

From: Kim Tyson <kimt@forl.com>
Sent: Thursday, March 12, 2015 12:22 PM
To: McMillan, Michael, EMNRD
Subject: RE: Quail Ridge SWD Well No. 1

Michael,

The correct surface location is 1050' FSL & 2330' FWL. The well name is the Quail "16" State SWD Well No. 9.

Let me know if you have anymore questions.

Thanks,

Kim Tyson

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Thursday, March 12, 2015 11:36 AM
To: Kim Tyson
Subject: Quail Ridge SWD Well No..1

Ms. Tyson:

can you clarify the surface location for the Quail Ridge SWD Well No. 1, Sec. 16 T20S R34E?

Your authorization to inject has 1050 FSL and 2330 FWL, your schematic has 1050 FSL and 2330 FEL.

Thank You

Michael A. McMillan

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Dr., Santa Fe NM 87505
O: 505.476.3448 F: 505.476.3462
Michael.mcmillan@state.nm.us

DATE IN 12/18/2014	SUSPENSE	ENGINEER PCC	LOGGED IN 12/18/2014	TYPE SWD	APP NO. PMAM1435260539
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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



RECEIVED OOD

ADMINISTRATIVE APPLICATION CHECKLIST

2014 DEC 18 P 3:18

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.

Kim Tyson
 Print or Type Name

Kim Tyson
 Signature

Regulatory Analyst
 Title

12-15-2014
 Date

kimt@forl.com
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No **RECEIVED OGD**
- II. OPERATOR: Fasken Oil and Ranch, Ltd. **2014 DEC 10 P 3:18**
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: 12-15-2014
E-MAIL ADDRESS: kimt@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. Quail "16" State SWD No. 9
Surface: 1050' FSL & 2330' FWL
Bottom Hole: 1050' FSL & 2330' FWL
Sec. 16, Unit Letter N, T-20-S, R-34-E

Within R-III-P
outside Sec. Order
2. Surface Casing: 13-3/8" 48#/ft H-40 @ 1650', cemented with 1351 sx Class 'C', TOC at surface.

Intermediate Casing: 9-5/8" 40# HCK-55 @ 5200'. Cemented to surface (circulated cement) w/ 2350 sx Class 'C' in two stages. DV tool @ 3700'.

Production Casing: 7" 29#/ft L-80 & HCL-80 @ 14,500'. Cemented with 1350 sx Class 'H', TOC at Surface.
3. 4-1/2" 12.75#/ft EUE 8rd L-80 IPC tubing at 14410'.
4. Packer Type – nickel plated Arrowset 1X 10K casing packer IPC wetted parts with on/off tool. Packer will be set at 14,410'.

B) Proposed Injection Formation Data

1. Injection Formation Name: Devonian
2. Injection Interval – 14,500' to 16,500' Open Hole
3. Original Purpose of Well – Devonian SWD.
4. None – well to be drilled.
5. Next Higher Oil/Gas Productive Zone – Lower Morrow @ 13,438
Next Lower Oil/Gas Productive Zone – unknown

VII. Proposed Operation

1. Average Daily Rate – 20,000 BPD
Maximum Daily Rate – 30,000 BPD
2. This will be a closed system.
3. Average Injection Pressure – 2000 psi
Maximum Injection Pressure – 2900 psi

4. Produced water from the Atoka, Bone Springs, Delaware, Morrow, Strawn, and Wolfcamp formations will be injected into the Devonian interval. Representative water analyses are attached for the Bone Spring, Delaware, Morrow and Wolfcamp along with calculated compatibility analyses for various mixtures. Calcium sulfate precipitation is unlikely. Calcium carbonate precipitation is less likely in all cases when compared to the existing Devonian water at bottom hole conditions. About 90-100% of the water injected will be Bone Springs. Other prospective zone water samples are unavailable due to the lack of wells producing from these formations in this area at this time.
5. See attached Devonian chemical analysis.

VIII. Geologic Data

1. Estimated Formation Tops

Formation Name	Measured Depth (ft.)
Rustler	1583'
Yates	3606'
Capitan Reef	3956'
Bell Canyon	5332'
Cherry Canyon	6178'
Brushy Canyon	7135'
Bone Spring	8355'
Wolfcamp	11,308'
Strawn	12,153'
Atoka	12,544'
Morrow	12,731'
Lower Morrow	13,438'
Devonian	14,500'
Base of Devonian	16,500'

- Reef

2. Injection Zone Lithology

The estimated injection interval of 14,500' – 16,500' is in the Devonian formation. The lithology primarily consists of dolomite and limestone.

3. There are two fresh water zones in the area. The base of the uppermost zone the Ogallala formation is at 135'. This information was verified by Paul Kautz with the OCD. The lowermost zone is the Santa Rosa Sand. Top is approximately 600' above the Rustler Anhydrite (T/Rustler estimated at 983' this location) and the base is approximately 300 to 450' above the Rustler Anhydrite. These water bearing formations will be sealed off from the wellbore with 1650' of 13 3/8" 48# / ft H-40 surface casing cemented to the surface, and 5200' of 9 5/8" 40# / ft HCK-55 casing cemented to surface. The 9-5/8" 40#/ft HCK-55 intermediate string will be run to 5200' and cemented in two stages, circulating

cement to the surface through a DV tool at 3700'. This provides 2 strings of casing and cement covering the fresh water sands.

IX. Stimulation Program

This interval will be acidized with 15% NEFE HCL acid.

X. Logging and Test Data

Logs and test data will be made available once the well is drilled.

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.

A handwritten signature in black ink, appearing to read 'JB', is written over a horizontal line.

Jeff Bryden, Sr. Geologist

Quail "16" State SWD No. 9

PROPOSED

Operator: **Fasken Oil and Ranch, Ltd.**
 Location: 1050' FSL and 2330' FEL
 Sec 16, T20S, R34E
 Lea County, NM

Compl.:
 API #: 30-025-XXXXX

TD: 16,500'

Casing: **13-3/8" 48# H-40 @ 1650'** L
 w/1351 sx "C"
 TOC surface

9-5/8" 40# HCK-55 @ 5200' L
 Cemented to surface (circulated
 cement) w/ 2350 sx Class 'C' in two
 stages. DV tool @ 3700'.
 TOC surface

7" 29# L-80, HCL-80 @ 14,500' L
 w/ 1350 sx Class 'H'.
 TOC Surface

Tubing Deta 4-1/2" 12.75# EUE 8rd L-80 at 14410'

Pkr: Arrowset 1X 10K NP pkr IPC 14410' **Bone Spring 8355**

Est. Tops

Rustler 1583

Yates 3375

Delaware 5332

Wolfcamp 11,262

Strawn 12,293

Atoka 12,544

Morrow 12,731

L. Morrow 13438

Devonian 14500

13-3/8" 48# H-40 @ 1650'
 TOC surface

9-5/8" 40# HCK-55 @ 5200'
 TOC surface

4-1/2" 12.75# EUE 8rd L-80 at 14410'
 Arrowset 1X 10K NP pkr IPC 14410'
7" 29# L-80, HCL-80 @ 14,500'

Open Hole

TD: 16,500'

Hole Sizes:

17-1/2" 1650', 12-1/4" 5200', 8-3/4" 14500', 6" 16,500'

cf/jdrb/cwb
 2-13-14

Copy of Quail16StSWD9 wb diagram

WELL LOCATION:	<u>1050' FSL & 2330' FWL</u>	<u>N</u>	<u>16</u>	<u>20S</u>	<u>34E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

(Perforated or Open Hole;) indicate which)

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Lower Morrow – 13,438' – 13,499'



Fasken Oil and Ranch, Ltd.
Quail "16" State SWD No. 9
1050' FSL & 2330' FWL
Sec. 16, T20S, R34E]
Lea County

Fasken Oil and Ranch, Ltd.

Quail "16" State SWD No. 9

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>
Fasken Oil and Ranch, Ltd.	Quail "16" State No. 3H	30-025-40361	Oil	04/19/2012	14,988' MD 10,957' TVD	Bone Spring 12,426' – 14,930'
Location:	SHL – 660' FSL & 300' FWL BHL – 380' FNL & 380' FWL Sec. 16, T20S, R34E					
Casing:	Well does not penetrate the proposed injection interval.					
Fasken Oil and Ranch, Ltd.	Quail "16" State No. 4H	30-025-40531	Oil	12/20/2012	15,605' MD 10,493' TVD	Bone Spring 11,221' – 15,530'
Location:	SHL - 200' FSL & 1650' FWL BHL – 336' FNL & 1601' FWL Sec. 16, T20S, R34E					
Casing:	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 Perfs</u>
Fasken Oil and Ranch, Ltd.	Quail "16" State Com No. 8H	30-025-41366	Oil	09/03/2013	15,515' MD 10,938' TVD	Bone Spring 11,276' – 15,364'
Location:	SHL - 262' FSL & 2080' FEL BHL – 321' FNL & 2111' FEL Sec. 16, T20S, R34E					
Casing:	Well does not penetrate the proposed injection interval.					
Fasken Oil and Ranch, Ltd.	Quail "16" State No. 6H	30-025-40941	Dry Hole	06/30/2013	8459'	N/A
Location:	SHL - 250' FSL & 1500' FEL BHL – 250' FSL & 1700' FEL Sec. 16, T20S, R34E					
Casing:	Well does not penetrate the proposed injection interval.					
Fasken Oil and Ranch, Ltd.	Quail "16" State No. 2	30-025-39340	SWD Well	05/01/2010	13,600'	Lower Middle Morrow 13,520' – 13,533' CIBP @ 13,500 w/ 35 sx 13,296' – 13,321' CIBP @ 12,800' Delaware 5332' – 8105'
Location:	1230' FSL & 1980' FEL Sec. 16, T20S, R34E					
Casing:	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 Perfs</u>
Texaco, Inc.	New Mexico E State NCT – 3 No. 1	30-025-29497	Dry Hole	02/16/1986	3650'	N/A
Location:	330' FSL & 1655' FEL Sec. 16, T20S, R34E					
Casing:	Well does not penetrate the proposed injection interval.					
<hr/>						
Xeric Oil and Gas Corporation	Federal RB No. 1	30-025-21688	Plugged Oil Well	12/20/1965	3742'	Yates 3523' – 3560'
Location:	660' FNL & 1980' FEL Sec. 21, T20S, R34E					
Casing:	Well does not penetrate the proposed injection interval.					

**Fasken Oil and Ranch, Ltd.
Quail "16" State SWD No. 9
SWD Application
List of Notified Parties**

Offset Operators and Leasehold Owners within a ½ mile radius

Fasken Oil and Ranch, Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Attn: Mr. Greg Fulfer
Fulfer Oil & Cattle Company, LLC
P.O. Box 1224
Jal, NM 88252

Attn: Kelly Bass
Chevron U.S.A. Inc.
1400 Smith Street
Houston, TX 77002

Geronimo Holding Corporation
1801 W. Texas
Midland, TX 79701

Attn: Monty Montgomery
CTV O&G NM, L.L.C.
201 Main St., Suite 2900
Fort Worth, TX 76102

Attn: Monty Montgomery
SRBI O&G NM, L.L.C.
201 Main St., Suite 2900
Fort Worth, TX 76102

Attn: Monty Montgomery
Thru Line O&G NM, L.L.C.
201 Main St., Suite 2900
Fort Worth, TX 76102

Attn: Monty Montgomery
Keystone O&G NM, L.L.C.
201 Main St., Suite 2900
Fort Worth, TX 76102

Attn: Monty Montgomery
LMBI O&G NM, L.L.C.
201 Main St., Suite 2900
Fort Worth, TX 76102

Oxy USA WTP Limited Partnership
6 Desta Dr. Suite 6000
Midland, TX 79705

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

James A. Davidson
c/o Doyle Hartman
P.O. Box 10426
Midland, TX 79702

Larry A. Nermyr
302 One O One Road
Sidney, MT 59270

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

Ronnie H. Westbrook
6704 Pebble Ct.
Midland, TX 79707

Michael L. Klein
600 N. Marienfeld, Suite 906
Midland, TX 79701

James E. Burr
P.O. Box 8050
Midland, TX 79708

Ruth Sutton
2826 Moss Ave.
Midland, TX 79705

Surface Owner

State of New Mexico
State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

Other Notified Parties

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

8 9 10

T20S-R34E

17

20

16

FASKEN
QUAIL 16 STATE SWD #9
1050 FSL 2330 FWL

21

28

10

-  Fulfer Oil and Cattle CO. LLC.
-  Chevron USA Inc.
-  Geronimo Holding Corp.
-  CTV O&G NM LLC.
- SRBI O&G NM LLC.
- Thru Line O&G
- Keystone O&G NM LLC.
- LMBI O&G NM LLC.
-  State of New Mexico
-  Fasken Oil and Ranch Ltd
-  Oxy USA WTP Limited Partnership
- Doyle Hartman
- James A. Davidson
- Larry A. Nernmyr
- John E. Hendrix Corp
- Ronnie H. Westbrook
- Michael L. Klein
- James E. Burr
- Ruth Sutton

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South East New Mexico

LEA COUNTY NM

QUAIL 16 STATE SWD #9



December 4, 2014



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.



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 ²	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.

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 ₄)	3,300		
Bicarbonates (HCO ₃)	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

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

APR 10 1989

Ling Fed #1
Water Analysis
File

No. 062

To Barbara Fasken

Date 4-4-89

303 West Wall Ave Suite 1901

Midland TX 79701

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Submitted by

Date Rec. 4-4-89

Well No.

Depth

Formation Morrow

County

Field

Source

Use This Sample →

Ling Fed #1Ling Fed #2

Resistivity

0.238 @ 70°

0.667 @ 70°

Specific Gravity

1.050

1.010

pH

4.1

6.6

Calcium (Ca)

4,250

1,800

*MPL

Magnesium (Mg)

Nil

Nil

Chlorides (Cl)

27,000

9,000

Sulfates (SO₄)

Light

Light

Bicarbonates (HCO₃)

Nil

80

Soluble Iron (Fe)

Heavy

Nil

31,250

10,550

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst:

Jay Bradford

HALLIBURTON COMPANY

cc:

By

CHEMIST

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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.)	24,127	1,049
Total Hardness as Ca ⁺⁺	5,272	0
Calcium Ca ⁺⁺	5,176	259
Magnesium, Mg ⁺⁺	59	5
Barium, Ba ⁺⁺	0	0
Iron (Total) Fe ^{+++*}	21	1

ANIONS

Chlorides, Cl ⁻	46,550	1,311
Sulfate, SO ₄ ⁻	96	2
Carbonate, CO ₃ ⁻	0	0
Bicarbonates, HCO ₃ ⁻	49	1
Sulfide, S ^{-*}	0	0
Total Dissolved Solid	76,078	

OTHER PROPERTIES

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

SCALING INDICIES

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

PERFORATIONS

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 09, 2014
and ending with the issue dated
December 09, 2014.



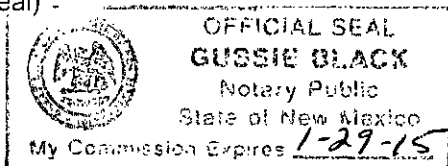
Publisher

Sworn and subscribed to before me this
9th day of December 2014.



Business Manager

My commission expires
January 29, 2015
(Seal) -



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
December 9, 2014

Fasken Oil and Ranch, Ltd., 6101 Holiday Hill Road, Midland, Texas 79707, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a SWD well in the SWD Devonian pool. The proposed well, Quail 16, State SWD No. 9, is located 1050 FSL 2330 FWL Section 16, T20S, R34E, Lea County, New Mexico. Injection water will be sourced from area wells producing from the Atoka, Bone Springs, Delaware, Morrow, Strawn, and Wolfcamp formations. Water will be injected into the Devonian formation at a depth of 14,500' - 16,500' at a maximum surface pressure of 2900 psi and a maximum rate of 30,000 BWPD. Any interested party who has an objection to this application must give notice in writing to the Oil Conservation 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 contact Kim Tyson at Fasken Oil and Ranch, Ltd., 6101 Holiday Hill Road, Midland, Texas 79707 or call (432) 687-1777. #29624

67106456

00148765

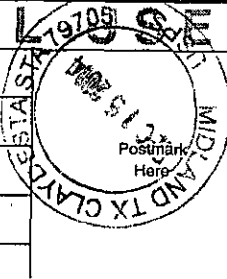
KIM TYSON
FASKEN OIL AND RANCH, LTD
6101 HOLIDAY HILL ROAD
MIDLAND, TX 79707

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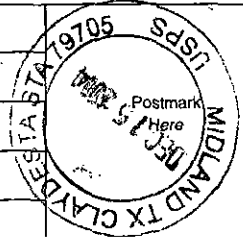
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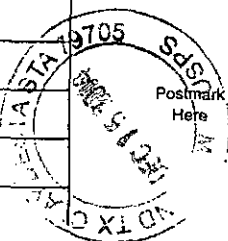
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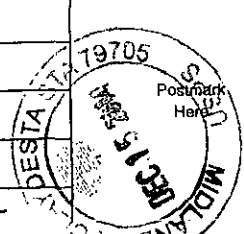
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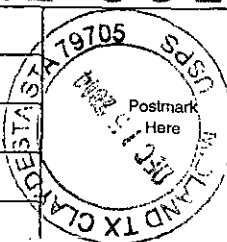
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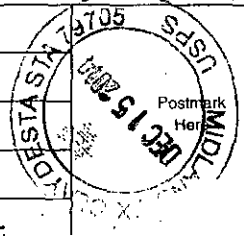
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City, State	1625 N. French Dr.
	Hobbs, NM 88240

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actions

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C-108 Review Checklist: Received 12/16/2014 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: 1535 Permit Date: _____ Legacy Permits/Orders: _____

Well No. 9 Well Name(s): Quail "16" SWD

API: 30-0 25-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1050 FSL 2330 FWL Lot _____ or Unit N Sec 16 Tsp 20S Rge 34E County LEC

General Location: 2.8 miles west of Highway Pool: SWD, Devonian Pool No.: 96101

BLM 100K Map: 101015 Operator: FASKEN OIL OGRID: 151416 Contact: Kim Tyson

COMPLIANCE RULE 5.9: Total Wells: 142 Inactive: 1 Fincl Assur: Y Compl. Order? N IS 5.9 OK? Y Date: 4-23-2015

WELL FILE REVIEWED ☐ Current Status: MA - NO API

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details:		Sizes (in)	Setting	DV	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)		Sx or Cf	Determination Method
Planned ___ or Existing ___ Surface		17 1/2 / 13 3/8	1650	Stage Tool	1351	Surface
Planned ___ or Existing ___ Interm/Prod		12 1/4 / 9 5/8	5200	3700	2350	Surface
Planned ___ or Existing ___ Interm/Prod		8 3/4 / 7	14500		1350	Surface
Planned ___ or Existing ___ Prod/Liner						
Planned ___ or Existing ___ Liner		6 / 4 1/2	14410	14410		
Planned ___ or Existing <u>OH</u> PERF		14500 / 16500		Inj Length 2000		

Injection Stratigraphic Units:		Depths (ft)	Injection or Confining	Tops	Completion/Operation Details:	
			Units			
Adjacent Unit: Litho. Struc. Por.					Drilled TD	16500 PBTD
Confining Unit: Litho. Struc. Por.					NEW TD	NEW PBTD
Proposed Inj Interval TOP:		14500			NEW Open Hole <input checked="" type="radio"/> or	NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:		16500			Tubing Size	4 1/2 in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth	14410 ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth	13500 (100-ft limit)
					Proposed Max. Surface Press.	2900 psi
					Admin. Inj. Press.	2900 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ☒ Noticed? Y BLM Sec Ord ☒ WIPP ☐ Noticed? N/A SALT/SALADO T: 983 B: CLIFF HOUSE

FRESH WATER: Aquifer Santa Rosa Max Depth 480' HYDRO AFFIRM STATEMENT By Qualified Person ☐

NMOSE Basin: Capitan CAPITAN REEF: thru ☒ adj ☐ NA ☐ No. Wells within 1-Mile Radius? _____ FW Analysis ☐

Disposal Fluid: Formation Source(s) Delaware, stream Analysis? Y On Lease ☒ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): 200/30,000 Protectable Waters? _____ Source: _____ System: Closed ☒ or Open ☐

HC Potential: Producing Interval? N Formerly Producing? N Method: Logs/DST/P&A/Other map log 2-Mile Radius Pool Map ☐

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

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

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

NOTICE: Newspaper Date 12-09-2014 Mineral Owner NMSLU Surface Owner NMSLU N. Date 12-15-2014

RULE 26.7(A): Identified Tracts? Y Affected Persons: Chevron, Monty Montoya, Okey, Chevin, N. Date 12-15

Permit Conditions: Issues: map log, salinity for a q, 13 L for 7 / 9 5/8

Add Permit Cond: if 9 5/8 not a surface, up to surface