

DATE IN Oct 17 / 2013	SUSPENSE	ENGINEER PG	LOGGED IN 10/21/13	TYPE SWD	APP NO PPRG1329455264
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

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

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

Kim Tyson
Print or Type Name

Kim Tyson
Signature

Regulatory Analyst
Title

10-11-2013
Date

kimt@forl.com
e-mail Address

Foster
Quail State 16 No. 2

30-025-39340

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: 10-11-2013
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 State "16" No. 2
Surface: 1230' FSL & 1980' FWL
Sec. 16, T-20-S, R-34-E
2. Surface Casing: 13-3/8" 54.5# / 48# K-55 & H-40 set @ 1611' &
cemented to surface (circulated 445 sx cement) w/ 900 sx "C" w/
4% gel and 2% CaCL₂ + 350 sx "C" w/ 2% CaCL₂.

Intermediate Casing: 9-5/8" 40# / 36# / 55# HCK55 & K55 @ 5247'.
DV @ 4010'. Cemented to surface (circulated 337 sx cement) w/ 1850
sx HLC w/ 15% salt, 1/8# Poly flake + 400 sx "C".

Production Casing: 5-1/2" 17# HCP-110 @ 13,575'. DV @ 8493'.
Cemented with 1200 sx "Super H" + 700 sx light "H" + 200 sx "H", TOC
@ 3706' by temperature survey.
3. 2-7/8" poly-lined to 5275'
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 5275'.

B) Proposed Injection Formation Data

1. Injection Formation Name: Delaware
2. Injection Interval – 5,334' to 8,355' perforated.
3. Original Purpose of Well – Morrow gas producer.
4. Perforated Intervals – see attached wellbore diagrams.
5. Next Higher Oil/Gas Productive Zone – Yates @ 3352'
Next Lower Oil/Gas Productive Zone – Bone Springs @ 8355'

VII. Proposed Operation

1. Average Daily Rate – 5,000 BPD
Maximum Daily Rate – 10,000 BPD
2. This will be a closed system.
3. Average Injection Pressure – 800 psi
Maximum Injection Pressure – 1,067 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	1,048'
Yates	3,352'
Delaware	5,334'
Bone Spring	8,355'
1st Bone Spring	9,485'
2nd Bone Spring	10,012'
3rd Bone Spring	10,699'
Strawn	12,368'
Atoka	12,546'
Morrow	12,721'
Lower Morrow	13,438'
Barnett	13,548'

No logs
?

2. Injection Zone Lithology

The injection interval of 5,334' – 8,355' 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 5,334' MD and ends at the top of the Bone Springs located at 8,355' 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 135'. This information was verified by Geoffrey Lecking with the OCD. This formation is sealed off from the wellbore with 1611' of 13-3/8" 54.5# K-55 & 48# H40 casing that was cemented to surface with 1250 sx cement. The 9-5/8" 40# / 36# / 55# intermediate string was run to 5,247' and circulated to surface with 2,250 sx cement and provides a second seal to further protect the Ogallala formation.

IX. Stimulation Program

This interval will be acidized with 15% 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

as of 8-1-13

Well: Quail State "16" No. 2

Operator: Fasken Oil and Ranch, Ltd.

Location: 1230' FSL and 1980' FWL

Sec 16, T20S, R34E

Lea County, NM

Compl.: 7/24/2010 released rig

API #: 30-015-39340

TD: 13600' 25

PBTB: 13,562' (drl out FC@13,531.29')

Csg1: 13-3/8" 54.5# K55 & 48# H40 @ 1611.07'

w/900sx "C" w/4% gel & 2% CaCl₂ (13.5 ppg, 1.74 cuft/sk)+350sx "C" w/2% CaCl₂ (14.8ppg, 1.32 Cuft/sk)

TOC surf, circ 445 sx

Csg2: 9-5/8" 40, 36 & 55# HCK55&K55 @ 5247.37' KB

1st stg: 350sx HLC w/15# salt, 1/8# Poly-E-Flake(12.6ppg, 2.23ft3/sx)

+200sx "C"(14.8ppg, 1.32 cuft/sk). Circ 50 sx thru DV1.

DV1: 4009.50'

2nd stg: 1500sxHLCw/15# salt, 1/8# Poly-E-Flake(12.6ppg, 2.23ft3/sx)

+200sx "C"(14.8ppg, 1.32 cuft/sk).

9-5/8" TOC Surf, Circ 337 sx.

Csg3: 5-1/2" 17# HCP-110 @ 13,574.84'

1st stg: 1200sx Super"H" Modified(13.2ppg, 1.63cuft/sk),

Circ 138 sx thru DV2.

DV2: 8493' (ACP 10 element @ 8492.96')

2nd stg: 700sx Light "H" w/1/8#Poly-E-Flake(12.4ppg, 2.0ft3/sx)

+200sx "H" neat(15.6ppg, 1.28 cuft/sk). Diff 1700 psi prior to BP.

TOC: 5-1/2" TOC 3706' by Temp

Tubing 1- WL Re-entry Guide 0.34

8/1/2013 1- 1.875" XN Nipple 1.40

AJL = 1- 5-1/2" x 2-3/8" Arrowset 1X10K Pkr 7.26

31.60 w/ 1.81" "F"

1- 5-1/2" x 2-3/8" TOSSD 1.66

402- 2-3/8" EUE 8rd N80 AB Mod tbg 12702.76

sub total 12713.42

slack off -6.20

below KB 17.00

EOT @ 12724.22

Perfs and Plugs:

7/30/2013 12853-71' (1jspf, 0° ph, SG, 18h)

7/30/2013 12830-42' (1jspf, 0° ph, SG, 12h)

12853-71' (0° ph, SG, ?h)

CIBP3: 12889' PBTB , 12906' w/2sx "H" cmt 7/26/2013

CIBP2: 12956' No test, csg collar lk 12860' 7/17/2013

5/16/2010 122988-91' (2spf, 0° ph, SG, 6h) U Morrow

5/16/2010 12,994'-13,000' (2spf, 0° ph, SG, 12h) U Morrow

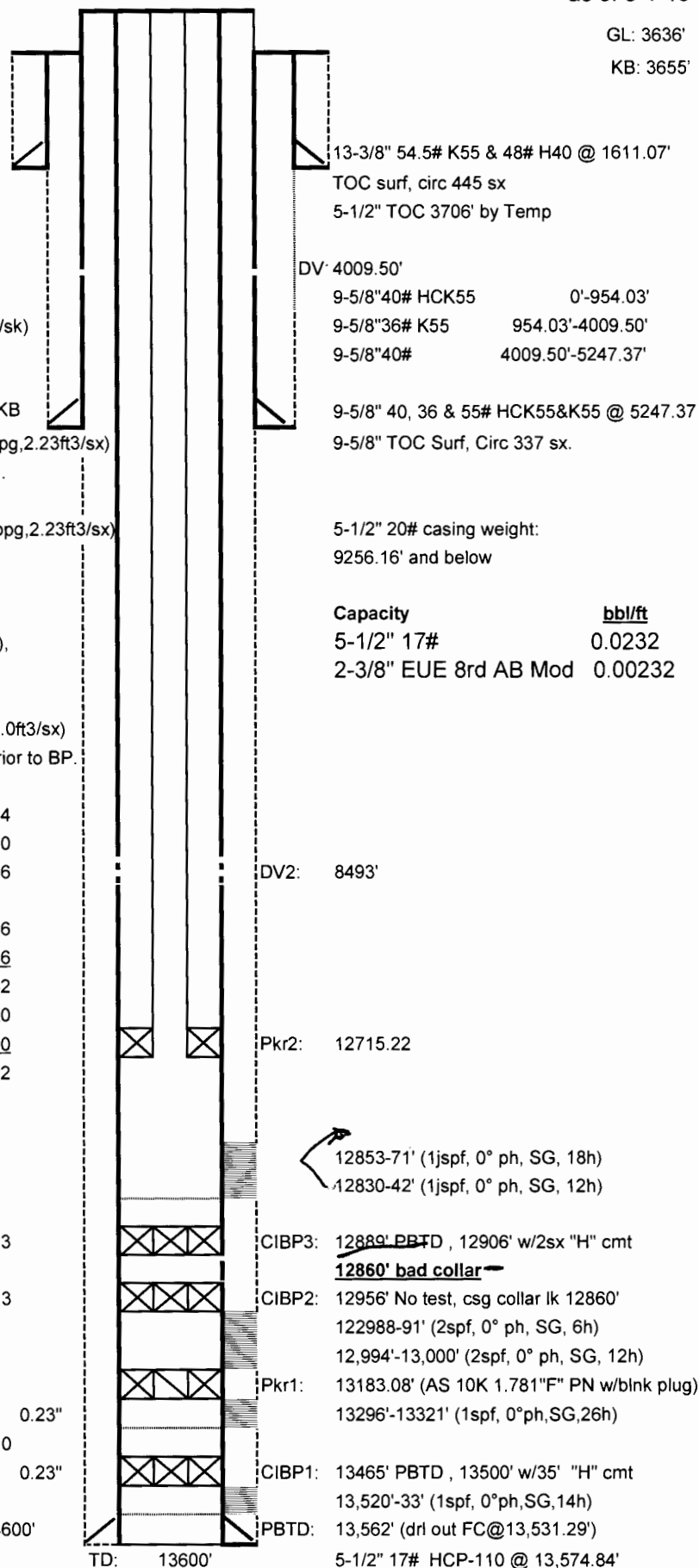
Pkr1: 13183.08' (AS 10K 1.781"F" PN w/bink plug)

9/17/2010 13296'-13321' (1spf, 0°ph,SG,26h) M. Morrow 0.23"

CIBP1: 13465' PBTB , 13500' w/35' "H" cmt 9/13/2010

13,520'-33' (1spf, 0°ph,SG,14h) L. Morrow 0.23"

Hole Sizes: 17-1/2" Surf-1620; 12-1/4" 1620'-5248'; 8-3/4" 5248'-13600'



GL: 3636'

KB: 3655'

13-3/8" 54.5# K55 & 48# H40 @ 1611.07'

TOC surf, circ 445 sx

5-1/2" TOC 3706' by Temp

DV: 4009.50'

0'-954.03'

954.03'-4009.50'

4009.50'-5247.37'

9-5/8" 40, 36 & 55# HCK55&K55 @ 5247.37'

9-5/8" TOC Surf, Circ 337 sx.

5-1/2" 20# casing weight:

9256.16' and below

Capacity bbl/ft

5-1/2" 17# 0.0232

2-3/8" EUE 8rd AB Mod 0.00232

DV2: 8493'

Pkr2: 12715.22

12853-71' (1jspf, 0° ph, SG, 18h)

12830-42' (1jspf, 0° ph, SG, 12h)

CIBP3: 12889' PBTB , 12906' w/2sx "H" cmt

12860' bad collar

CIBP2: 12956' No test, csg collar lk 12860'

122988-91' (2spf, 0° ph, SG, 6h)

12,994'-13,000' (2spf, 0° ph, SG, 12h)

Pkr1: 13183.08' (AS 10K 1.781"F" PN w/bink plug)

13296'-13321' (1spf, 0°ph,SG,26h)

CIBP1: 13465' PBTB , 13500' w/35' "H" cmt

13,520'-33' (1spf, 0°ph,SG,14h)

PBTB: 13,562' (drl out FC@13,531.29')

5-1/2" 17# HCP-110 @ 13,574.84'

cwb

9-18-13

QuailSt16_2 WB diagram.xls

PROPOSED

as of 8-1-13

Well: Quail State "16" No. 2
Operator: Fasken Oil and Ranch, Ltd.
Location: 1230' FSL and 1980' FWL
Sec 16, T20S, R34E
Lea County, NM

GL: 3636'

KB: 3655'

Compl.: 7/24/2010 released rig
API #: 30-015-39340
TD: 13600'
PBTB: 13,562' (drl out FC@13,531.29')
Csg1: 13-3/8" 54.5# K55 & 48# H40 @ 1611.07'

13-3/8" 54.5# K55 & 48# H40 @ 1611.07'
TOC surf, circ 445 sx
5-1/2" TOC 3706' by Temp

w/900sx "C" w/4% gel & 2% CaCl2 (13.5 ppg, 1.74 cuft/sk)
+350sx "C" w/2% CaCl2 (14.8ppg, 1.32 Cuft/sk)

Csg2: 9-5/8" 40, 36 & 55# HCK55&K55 @ 5247.37' KB

1st stg: 350sx HLC w/15# salt, 1/8# Poly-E-Flake(12.6ppg, 2.23ft3/sx)
+200sx "C"(14.8ppg, 1.32 cuft/sk). Circ 50 sx thru DV1.

DV1: 4009.50'

2nd stg: 1500sxHLCw/15# salt, 1/8# Poly-E-Flake(12.6ppg, 2.23ft3/sx)
+200sx "C"(14.8ppg, 1.32 cuft/sk).

9-5/8" TOC Surf, Circ 337 sx.

Csg3: 5-1/2" 17# HCP-110 @ 13,574.84'

1st stg: 1200sx Super"H" Modified(13.2ppg, 1.63cuft/sk),
Circ 138 sx thru DV2.

DV2: 8493' (ACP 10 element @ 8492.96')

2nd stg: 700sx Light "H" w/1/8#Poly-E-Flake(12.4ppg, 2.0ft3/sx)
+200sx "H" neat(15.6ppg, 1.28 cuft/sk). Diff 1700 psi prior to BP

TOC: 5-1/2" TOC 3706' by Temp
Tubing

DV: 4009.50'
9-5/8"40# HCK55 0'-954.03'
9-5/8"36# K55 954.03'-4009.50'
9-5/8"40# 4009.50'-5247.37'

9-5/8" 40, 36 & 55# HCK55&K55 @ 5247.37
9-5/8" TOC Surf, Circ 337 sx.

5-1/2" 20# casing weight:
9256.16' and below

2-7/8" Poly Lined to 5275'
Proposed 5-1/2" x 2-7/8"
Injection Packer @ 5275'

Proposed Delaware Injection
Interval

5334'-8355' 5534' to 8255'
(3021' interval)

Capacity 2021 bbl/ft
5-1/2" 17# 0.0232
2-3/8" EUE 8rd AB Mod 0.00232

Perfs and Plugs:
Proposed

CIBP4: 12,800' w/ 3 sx class "H" cmt
7/30/2013 12853-71' (1jspf, 0° ph, SG, 18h)
7/30/2013 12830-42' (1jspf, 0° ph, SG, 12h)
12853-71' (0° ph, SG, ?h)
CIBP3: 12889' PBTB, 12906' w/2sx "H" cmt 7/26/2013
CIBP2: 12956' No test, csg collar lk 12860' 7/17/2013
5/16/2010 122988-91' (2spf, 0° ph, SG, 6h) U Morrow
5/16/2010 12,994'-13,000' (2spf, 0° ph, SG, 12h) U Morrow
Pkr1: 13183.08' (AS 10K 1.781"F" PN w/blink plug)
9/17/2010 13296'-13321' (1spf, 0°ph,SG,26h) M. Morrow 0.23"
CIBP1: 13465' PBTB, 13500' w/35' "H" cmt 9/13/2010
13,520'-33' (1spf, 0°ph,SG,14h) L. Morrow 0.23"

Hole Sizes: 17-1/2" Surf-1620; 12-1/4" 1620'-5248'; 8-3/4" 5248'-13600'



TD: 13600'

DV2: 8493'
CIBP4: 12,800' w/ 3 sx class "H" cmt
12853-71' (1jspf, 0° ph, SG, 18h)
12830-42' (1jspf, 0° ph, SG, 12h)
CIBP3: 12889' PBTB, 12906' w/2sx "H" cmt
12860' bad collar
CIBP2: 12956' No test, csg collar lk 12860'
122988-91' (2spf, 0° ph, SG, 6h)
12,994'-13,000' (2spf, 0° ph, SG, 12h)
13183.08' (AS 10K 1.781"F" PN w/blink plug)
13296'-13321' (1spf, 0°ph,SG,26h)
CIBP1: 13465' PBTB, 13500' w/35' "H" cmt
13,520'-33' (1spf, 0°ph,SG,14h)
PBTB: 13,562' (drl out FC@13,531.29')
5-1/2" 17# HCP-110 @ 13,574.84'

cwb

9-18-13

QuailSt16_2 WB diagram.xls

INJECTION WELL DATA SHEET

OPERATOR: Fasken Oil and Ranch, Ltd. 6101 Holiday Hill Road, Midland, TX 79707WELL NAME & NUMBER: Quail "16" State No. 2

WELL LOCATION:	<u>1230' FSL & 1980' FWL</u>	<u>N</u>	<u>16</u>	<u>20S</u>	<u>34E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8", 54.5# & 48# @ 1611'

Cemented with: 1250 sx. or _____ ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8", 36#, 40# & 55# @ 5247'

Cemented with: 2250 sx. or DV Tool @ 4010' ft³

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 8 3/4" Casing Size: 5 1/2", 17# @ 13,575'

Cemented with: 2100 sx. or DV Tool @ 8493' ft³

Top of Cement: 3706' Method Determined: Temp. Survey

Total Depth: 13,600'

Injection Interval

5334' feet to 8355'

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

INJECTION WELL DATA SHEET

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

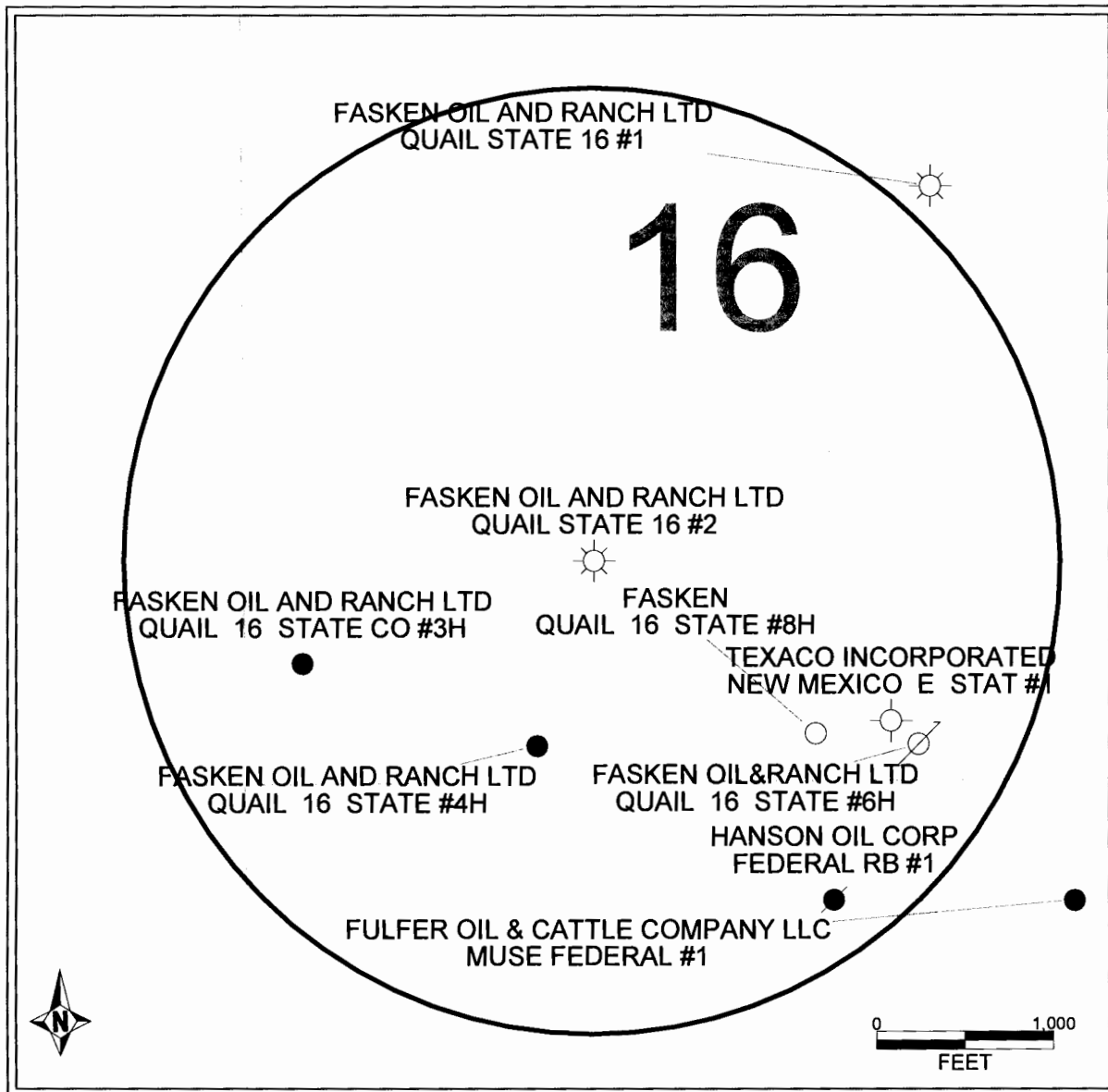
Type of Packer: 5 1/2" X 2 7/8" nickel plated Weatherford Arrowset 1-X Double Grip Casing Packer

Packer Setting Depth: 5275'

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

Additional Data

1. Is this a new well drilled for injection? Yes ☒ 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): 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 - 3352' - 3419', Delaware - 5334' - 5600',
Bone Spring - 8355' - 11,308', Strawn - 12,368' - 12,375',
Atoka - 12,546' - 12,722', and Morrow - 12,721' - 13,438'



PETRA 9/24/2013 9:30:51 AM

Fasken Oil and Ranch, Ltd.
Quail "16" State No. 2
1230' FSL & 1980' FWL
Sec. 16, T20S, R34E
Lea County

Fasken Oil and Ranch, Ltd.

Quail "16" State No. 2

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 Well	04/19/2012	14,988' MD 10,957' TVD	Bone Spring 12,426' – 14,930'
Location:	SHL - 660' FSL & 300' FWL; BHL – 381' FNL & 379' FWL Sec. 16, T20S, R34E					
Casing:	13 3/8" @ 1594' w/ 1250 sx – TOC @ Surface 9 5/8" @ 5216' w/ DV Tool @ 3822' w/ 2350 sx – TOC @ Surface 5 ½" @ 14,988' w/ 2550 sx – TOC @ Surface					
<hr/>						
Texaco Inc.	NM "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.					

<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. 4H	30-025-40531	Oil Well	12/20/2012	15,605' MD 10,943' TVD	Bone Spring 11,221' – 15,530'

Location: SHL - 200' FSL & 1650' FWL; BHL 336' FNL & 1601' FWL
Sec. 16, T20S, R34E

Casing: 13 3/8" @ 1564' w/ 1250 sx – TOC @ Surface
9 5/8" @ 5200 w/ DV Tool @ 3999' w/ 2150 sx – TOC @ Surface
5 1/2" @ 15,587' w/ 2650 sx – TOC @ Surface

Fasken Oil and Ranch, Ltd.	Quail "16" State No. 6H	30-025-40941	Plugged & Abandoned	06/30/2013	8459'	N/A
-------------------------------	----------------------------	--------------	------------------------	------------	-------	-----

Location: SHL – 250' FSL & 1500' FEL; BHL – 201' FSL & 1707' FEL
Sec. 16, T20S, R34E

Casing: 13 3/8" @ 1626' w/ 1150 sx – TOC @ Surface
9 5/8" @ 5192' w/ DV Tool @ 3776' w/ 2400 sx – TOC @ Surface

Xeric Oil & Gas Corp.	Federal RB No. 1	30-025-21688	Plugged & Abandoned	12/20/1965	3742'	N/A
--------------------------	------------------	--------------	------------------------	------------	-------	-----

Location: 660' FNL & 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 Pefs</u>
Fasken Oil and Ranch. Ltd.	Quail "16" State No. 8H	30-025-41366	Oil Well Currently Drilling	09/03/2013	15,490' MD 10,944' TVD (Proposed Depths)	Bone Spring

Location: SHL - 262' FSL & 2080' FEL; Proposed BHL 330' FNL & 2080' FEL
Sec. 16, T20S, R34E

Casing: 13 3/8" @ 1627' w/ 1150 sx – TOC @ Surface
9 5/8" @ 5205' w/ DV Tool @ 3764' w/ 5955 sx – TOC @ Surface
5 1/2" @ 15,527' w/ 2650 sx – TOC @ 5000' (Proposed)

**Fasken Oil and Ranch, Ltd.
Quail "16" State No. 2
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: NOJV Land TL
Chevron U.S.A. Inc.
P.O. Box 2100
Houston, TX 77252

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
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201 Main St., Suite 2900
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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
c/o Doyle Hartman
P.O. Box 10426
Midland, TX 79702

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

T20S-R34E

17

16

15

FASKEN OIL AND RANCH LTD
QUAIL STATE 16 #2
1230 FSL 1960 FWL



20

21

28

27

Fulfer Oil and Cattle Company, LLC

Chevron U.S.A. Inc.

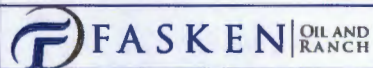
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CTV O&G NM, LLC
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Thru Line O&G NM, LLC
Keystone O&G NM, LLC
LMBI O&G NM, LLC

State of New Mexico

Fasken Oil and Ranch, Ltd.

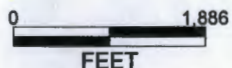
Oxy USA WTP Limited Partnership
Doyle Hartman
James A. Davidson
Larry A. Nemyr
John E. Hendrix Corp
Ronnie H. Westbrook
Michael L. Klein
James E. Burr
Ruth Sutton



South East New Mexico

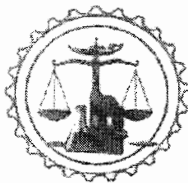
LEA COUNTY, NM

QUAIL STATE 16 #2



WELL SYMBOLS
Gas Well

October 10, 2013



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

Water Analysis file
 JFB

No. 062

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 #2

Resistivity	<u>0.238 @ 70°</u>	<u>0.667 @ 70°</u>	
Specific Gravity	<u>1.050</u>	<u>1.010</u>	
pH	<u>4.1</u>	<u>6.6</u>	
Calcium (Ca)	<u>4,250</u>	<u>1,800</u>	<u>*MPL</u>
Magnesium (Mg)	<u>Nil</u>	<u>Nil</u>	
Chlorides (Cl)	<u>27,000</u>	<u>9,000</u>	
Sulfates (SO ₄)	<u>Light</u>	<u>Light</u>	
Bicarbonates (HCO ₃)	<u>Nil</u>	<u>80</u>	
Soluble Iron (Fe)	<u>Heavy</u>	<u>Nil</u>	
	<u>31,250</u>	<u>1,530</u>	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Jay Bradford

HALLIBURTON COMPANY

cc:

By _____

CHEMIST

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H. HURTON 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

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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

	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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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.

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, SO4-	96	2
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	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
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issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

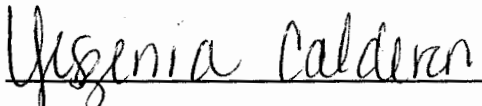
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September 25, 2013

and ending with the issue dated
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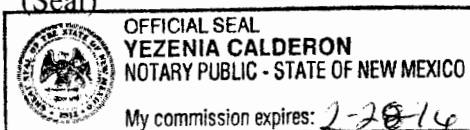
PUBLISHER

Sworn and subscribed to before me
this 25th day of
September, 2013



Notary Public

My commission expires
February 28, 2016
(Seal)



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advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.

LEGAL

LEGAL NOTICE
September 25, 2013

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 salt water
disposal well. The proposed
well, Quail "16" State No. 2,
is located 1230' FSL, 1980'
FWL, Section 16, T20S,
R34E, Lea County, New
Mexico. Disposal water will
be sourced from area wells
producing from the Bone
Springs, Wolfcamp,
Delaware, Morrow, Atoka,
and Strawn formations. The
disposal water will be
injected into the Delaware
formation at a depth of 5334'
- 8355', at a maximum
surface pressure of 1067 psi
and a maximum rate of
10,000 BPD. 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.
#28461

67106447

00123125

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

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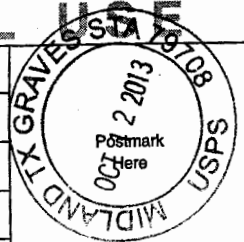
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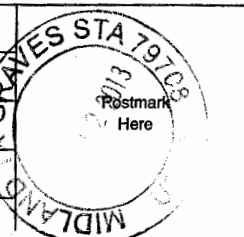
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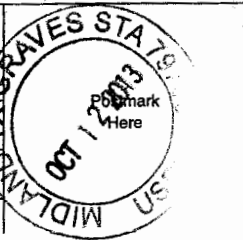
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Fort Worth, TX 76102

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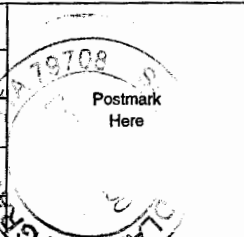
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.37

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Sent To **Attn: Monty Montgomery**
 Street, Apt. or PO Box **CTV O&G NM, L.L.C.**
 City, State **201 Main St., Suite 2900**
Fort Worth, TX 76102

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Instructions

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 Street, Apt. or PO Box **SRBI O&G NM, L.L.C.**
 City, State **201 Main St., Suite 2900**
Fort Worth, TX 76102

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.37

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Sent To **Attn: NOJV Land TL**
 Street, Apt. or PO Box **Chevron U.S.A. Inc.**
 City, State **P.O. Box 2100**
Houston, TX 77252

PS Form 3849

Instructions

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Total Postage & Fees	\$ 7.37

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Sent To **Geronimo Holding Corporation**
 Street, Apt. or PO Box **1801 W. Texas**
 City, State **Midland, TX 79701**

PS Form 3849

Instructions

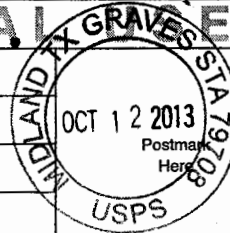
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Total Postage & Fees	\$ 7.37



Sent To **Attn: Mr. Greg Fulfer**
Street, Ap or PO Box **Fulfer Oil & Cattle Company, LLC**
City, State **P.O. Box 1224**
Jal, NM 88252

PS Form 3800

Postage & Fees Paid

Goetze, Phillip, EMNRD

From: Kim Tyson <kimt@forl.com>
Sent: Friday, November 15, 2013 8:42 AM
To: Goetze, Phillip, EMNRD
Subject: Quail "16" State No. 2 - SWD Application
Attachments: Quail 16 State #2 - Corrected Certified Receipts.pdf

Importance: High

Phillip,

Please find attached two certified receipts for parties that were re-notified of the Quail "16" State No. 2 SWD application. We originally had incorrect addresses for these two parties and had to re-send the application to at the correct addresses. Could you please attach this to our Quail "16" SWD application?

If you have any questions please call me at 432-687-1777 or e-mail me at kimt@forl.com.

Thanks for your help concerning this matter.

Kim Tyson

7011 3500 0001 7359 8305

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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.37



Sent To
 Street, Apt. #
 or PO Box #
 City, State, Z

Larry Nermyr
HC - 57, Box 4106
Sidney, Montana 59270-4106

PS Form 380

7011 3500 0001 7359 8312

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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.37



Sent To
 Street,
 or PO #
 City, St

Quanah Exploration
200 N. Loraine Street
Midland, TX 79701

PS Form

uctions



C-108 Review Checklist: Received

New Notification: La Nerm y g Quarah
Add. Request: exploration Reply Date: Ver 11
Suspended: NA (10/26/13)

PERMIT TYPE: WFX / PMX / SWD Number: 1453 Permit Date: Dec. 23, 2013 Legacy Permits/Orders: NA

Well No. 2 Well Name(s): Quail No State

API: 30-025-39340 Spud Date: 05/01/2010 New or Old New (UIC Class II Primacy 03/07/1982)

Footages 1230 FSL/1980 FWL Loc (N) Unit Sec 16 Tsp 20S Rge 34E County Lea

General Location: Laguna Valley; Morrow Gas Pool No.:

Operator: Fasken Oil and Ranch, Ltd. OGRID: 151416 Contact: Kim Tyson

COMPLIANCE RULE 5.9: Inactive Wells: 1 Total Wells: 133 Fincl Assur: OK Compl. Order? No IS 5.9 OK? OK

Well File Reviewed ☒ Current Status: Depleted Morrow producer; depleted based on reporting

Well Diagrams: NEW: Proposed ☐ RE-ENTER: Before Conv. ☒ After Conv. ☒ Are Elogs in Imaging?: No - take 200 off top b 100 of bottom probes

Planned Rehab Work to Well: Re enter/new perfs at Delaware interval; CIP above

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Conductor	—	—	—	—
Planned ___ or Existing ___ Surface	13 7/8	0 to 1611	1250	Limit to surface
Planned ___ or Existing ___ Interm/Prod	9 5/8	0 to 5247	2250 total	Limit to surface
Planned ___ or Existing ___ Prod/Interm	5 1/2	0 to 13575	2100 total	TOC 3700 by TS
Planned ___ or Existing ___ Liner/Prod	Existing perfs [12830 to 13533]	—	—	—
Planned ___ or Existing ___ OH / PERF	New perfs [5334 to 8355]	5334 to 8355	3021	Completion/Operation Details:
Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops?	Drilled TD 13600 PBDT 12889
Adjacent Unit: Litho. Struc. Por.				NEW TD NA NEW PBDT ±8455 *
Confining Unit: Litho. Struc. Por.	+200 (P)	Yates? - possible Capitan		NEW Open Hole ___ or NEW Perfs ___
Proposed Inj Interval TOP:	5334	5334 Delaware	5334	Tubing Size 2 7/8 in. Inter Coated? Yes
Proposed Inj Interval BOTTOM:	8355	8355 Nbr	8355	Proposed Packer Depth *change 5434
Confining Unit: Litho. Struc. Por.	+100 (P)	Bone Spring	8355	Min. Packer Depth 5434 (100-ft limit)
Adjacent Unit: Litho. Struc. Por.				Proposed Max. Surface Press. 1067 psi
				Admin. Inj. Press. 1107 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ☒ Noticed? SLO BLM Sec Ord ☒ WIPP NA Noticed? NA SALADO: T: B: CLIFF HOUSE NA

FRESH WATER: Formation Ogallala Max Depth Wells? FW Analysis HYDROLOGIC AFFIRM By Qualified Person ☒

Disposal Fluid: Formation Source(s) Bone Spring / WC / Srm / Delaware Yes ☒ On Lease ☐ Operator Only ☒ or Commercial ☐

Disposal Interval: Injection Rate (Avg/Max BWPD): 500/1000 Protectable Waters: No CAPITAN REEF: thru ☒ adj ☐ NA

HC Potential: Producing Interval Unknown for location Formerly Producing? No Method: Logs/DST/P&A/Other 1st 2-Mile Radius Pool Map ☒

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 3 Horizontals? Yes - all 3

Penetrating Wells: No. Active Wells 3 Num Repairs? 0 on which well(s)? Diagrams? No

Penetrating Wells: No. P&A Wells 0 Num Repairs? 0 on which well(s)? Call shallow Yates Diagrams? NA

NOTICE: Newspaper Date 09/25/13 Mineral Owner SLO Surface Owner SLO/Lessee N. Date 10/12/13

RULE 26.7(A): Identified Tracts? Yes Affected Persons: 11 O&G companies / 7 estate/individuals N. Date Oct. 12/13

Permit Conditions: Issues: * Unit N - not leased for minerals - SLO notification closest / Intrepid ±8 mi E

Add Permit Cond: CIP too deep for permitted interval (3) Provide HC potential by Swab

No ions - reduce in 1st - 1st

Fasken's Quail 16 State* Z CD 10/11/12 (Cherry)

County Lea

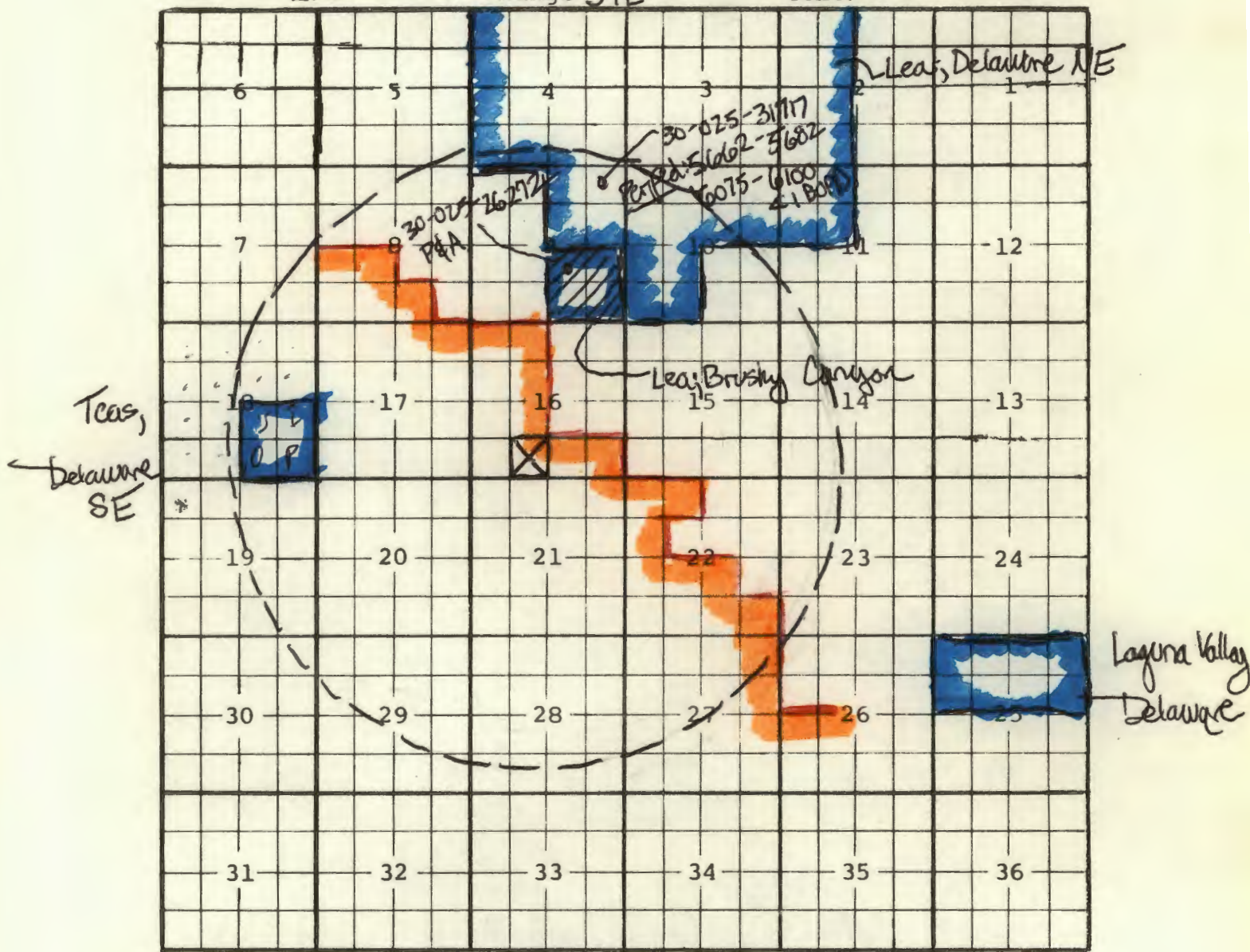
Pool All Dependent Producers

[Brushy / Cherry & Bell]

TOWNSHIP 20S

Range 34E

NMPM



Re-entry/
Potash:

Inside R-III-P; no lessce for 8-miles/ notice
to SLO sufficient to satisfy notification

NE Lea; Delaware - decreased to depleted

SE Teas; Delaware - No production (Bone Spring)

Lea Brushy Canyon - P & A