

Initial Application Part I

Received on 2/14/20

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

February 14, 2019

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

RE: PRAIRIE SANDREED FEE SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources, LLC's ("Blackbuck") Prairie Sandreed Fee SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset operators, leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards Blackbuck Resources, LLC's agent Lonquist & Co., LLC.

Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

Revised March 23, 2017

S5H9B-200214-C-1080

| | | | |
|--------------------------|----------------------|------------------|------------------------------|
| RECEIVED: 2/14/20 | REVIEWER: BLL | TYPE: SWD | APP NO: pBL2005137467 |
|--------------------------|----------------------|------------------|------------------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: BLACKBUCK RESOURCES LLC**OGRID Number:** 373619**Well Name:** PRAIRIE SANDREED FEE SWD NO. 1**API:** TBD**Pool:** SWD; DEVONIAN-SILURIAN**Pool Code:** 97869

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR**SWD-2373****2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ Application
Content
Complete

- 3) 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.

CHRIS WEYAND

Print or Type Name

Signature

February 7, 2020

Date

512-600-1764

Phone Number

CHRIS@LONQUIST.COM

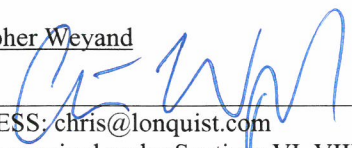
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: Blackbuck Resources, LLC
ADDRESS: 2601 Westheimer Rd, C210, Houston, TX, 77098
CONTACT PARTY: Barry Riley PHONE: 979-575-8802
- 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 _____ ☒ 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: Christopher Weyand TITLE: Consulting Engineer – Agent for Blackbuck Resources
SIGNATURE:  DATE: 2/6/2020
E-MAIL ADDRESS: chris@lonquist.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

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.

INJECTION WELL DATA SHEET

OPERATOR: Blackbuck Resources, LLCWELL NAME & NUMBER: Prairie Sandreed Fee SWD No. 1WELL LOCATION: 1,000' FNL 200' FEL
FOOTAGE LOCATIONA
UNIT LETTER22
SECTION19S
TOWNSHIP35E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"Casing Size: 20"Cemented with: 3,884 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 17-1/2"Casing Size: 13-3/8"Cemented with: 2,430 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12-1/4"Casing Size: 9-5/8"Cemented with: 2,126 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8-1/2"Casing Size: 7-5/8"Cemented with: 309 sks*or* _____ ft³Top of Cement: 9,613'Method Determined: calculationTotal Depth: 15,388'Injection Interval13,588 feet to 15,388 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 23 lb/ft, P-110, UFJ from 0' - 13,538'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim
Packer Setting Depth: 13,538'

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

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Devonian, Silurian, Fusselman

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian 97869

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.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Delaware Mountain Group: 5,696'

Bone Spring: 7,557'

Wolfcamp: 9,913'

Strawn: 11,411'



Blackbuck Resources, LLC

Prairie Sandreed Fee SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|-------------------------|--------------------------|
| Lease Name | Prairie Sandreed Fee SWD |
| Well No. | 1 |
| Location | S-22 T-19S R-35E |
| Footage Location | 1,000' FNL & 200' FEL |

2.

a. Wellbore Description

| Type | Surface | Intermediate | Production | Liner |
|------------------|----------|--------------|------------|------------------|
| OD | 20" | 13-3/8" | 9-5/8" | 7-5/8" |
| WT | 0.438" | 0.480" | 0.545" | 0.500" |
| ID | 19.124" | 12.415" | 8.535" | 6.625" |
| Drift ID | 18.936" | 12.259" | 8.379" | 6.5" |
| COD | 21" | 14.375" | 10.625" | 7.625" |
| Weight | 94 lb/ft | 68 lb/ft | 53.5 lb/ft | 39 lb/ft |
| Grade | J-55 BTC | HCL-80 BTC | HCL-80 BTC | P-110 UFJ |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,670' | 5,696' | 9,913' | 9,613' – 13,588' |

b. Cementing Program

| Casing String | Surface | Intermediate | Production | Liner |
|---------------------|--------------|--------------|--|--------------|
| Lead Cement | HalCem | NeoCem | Stage 1: NeoCem Stage 2: NeoCem | Versacem |
| Lead Cement Volume | 2,847 sks | 1,961 sks | Stage 1: 466 sks Stage 2: 1,008 sks | 331 sks |
| Lead Cement Density | 13.7 lbm/gal | 11 lbm/gal | Stage 1: 11 lbm/gal Stage 2: 11 lbm/gal | 14.5 lbm/gal |
| Tail Cement | HalCem | NeoCem | Stage 1: NeoCem Stage 2: HalCem | - |
| Tail Cement Volume | 1,037 sks | 468 sks | Stage 1: 577 sks Stage 2: 75 sks | - |
| Tail Cement Density | 14.8 lbm/gal | 13.2 lbm/gal | Stage 1: 14.5 lbm/gal Stage 2: 14.8 lbm/gal | - |
| Cement Excess | 150% | 75% | Stage 1: 50% Stage 2: 50% | 25% |
| Total Sacks | 3,884 sks | 2,430 sks | 2,126 sks | 309 sks |
| TOC | Surface | Surface | Stage 1: DV Tool @ 5,671' Stage 2: Surface | 9,613' |
| Method | Circulate | Circulate | Circulated | CBL |

3. Tubing Description

| Tubing Information | |
|--------------------|-----------|
| OD | 5-1/2" |
| WT | 0.415" |
| ID | 4.670" |
| Drift ID | 4.545" |
| COD | 5.5" |
| Weight | 23 lb/ft |
| Grade | P-110 UFJ |
| Depth Set | 13,538' |

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman
2. Gross Injection Interval: 13,588' – 15,388'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|-------------------------|---------|
| Delaware Mountain Group | 5,696' |
| Bone Spring | 7,557' |
| Wolfcamp | 9,913' |
| Strawn | 11,411' |

VI. Area of Review

No wells penetrate the injection zone

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD

Maximum Volume: 25,000 BPD

2. Closed System
3. Anticipated Injection Pressure:

Average Injection Pressure: 2,038 PSI (surface pressure)

Maximum Injection Pressure: 2,718 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Abo, Artesia, Bone Spring, Devonian, Grayburn/San Andreas, Pennsylvanian, Penrose, Queen, and Wolfcamp formations.
5. The disposal interval is non-productive. No water samples are available from the one-mile area of review. However, approximately 6-8 miles from the proposed well, five (5) wells producing water from the Devonian have sample data present. The results of these wells are in the Produced Water Sample list in this application.

VIII. Geological Data

Devonian Formation Lithology:

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|-------------------------|---------|
| Rustler | 1,670' |
| Salado | 1,947' |
| Tansill | 3,065' |
| Yates | 3,253' |
| Seven Rivers | 3,698' |
| Queen | 4,418' |
| Delaware Mountain Group | 5,696' |
| Bone Spring | 7,557' |
| Wolfcamp | 9,913' |
| Strawn | 11,411' |
| Atoka | 11,624' |
| Miss. Lime | 12,769' |
| Woodford | 13,412' |
| Devonian | 13,588' |

B. Underground Sources of Drinking Water

Eight (8) water wells exist within a one-mile radius of the proposed well. The water wells in the region are within the Lee County Basin of New Mexico. Water wells within the 1-mile area of review are drilled at an average depth of 63 feet and the average water depth is 23 feet in the surrounding region. The Rustler is known to exist in this general area and may also be another USDW and will be protected by setting the surface casing at the top of the Rustler formation and isolating the formation with intermediate casing set at the top of the Delaware Mountain group. The proposed well is located 5.5 miles NE of the Capitan Reef.

IX. Proposed Stimulation Program

No stimulation program planned at this time.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

A map of the freshwater wells within a one-mile radius of the proposed well has been sent to Cardinal Laboratories in Hobbs, New Mexico. Results of the samples will be provided to the Oil Conservation Division upon completion of the tests.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|---|--|-------------------------------------|
| ¹ Operator Name and Address BLACKBUCK RESOURCES, LLC 2601 WESTHEIMER RD. C210 HOUSTON, TX 77098 | | ² OGRID Number 373619 |
| | | ³ API Number 30-025- |
| ⁴ Property Code | ⁵ Property Name PRAIRIE SANDREED FEE SWD | ⁶ Well No. 1 |

⁷ Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| A | 22 | 19S | 35E | | 1,000 | N | 200 | E | LEA |

⁸ Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| - | - | - | - | | - | - | - | - | - |

⁹ Pool Information

| Pool Name | Pool Code |
|------------------------|-----------|
| SWD; DEVONIAN-SILURIAN | 97869 |

Additional Well Information

| | | | | |
|------------------------------|--|--|---|--|
| ¹¹ Work Type N | ¹² Well Type SWD | ¹³ Cable/Rotary R | ¹⁴ Lease Type Private | ¹⁵ Ground Level Elevation 3,768.5' |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 15,388' | ¹⁸ Formation Devonian-Silurian | ¹⁹ Contractor TBD | ²⁰ Spud Date ASAP |
| Depth to Ground water 22' | Distance from nearest fresh water well 2,718' | | Distance to nearest surface water > 1 mile | |

☒ We will be using a closed-loop system in lieu of lined pits²¹ Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|--------------|-----------|-------------|------------------|------------------|-----------------|---------------|
| Surface | 26" | 20" | 94 lb/ft | 1,670' | 3,884 | Surface |
| Intermediate | 17-1/2" | 13-3/8" | 68 lb/ft | 5,696' | 2,430 | Surface |
| Production | 12-1/4" | 9-5/8" | 53.5 lb/ft | 9,913' | 2,126 | Surface |
| Liner | 8-1/2" | 7-5/8" | 39 lb/ft | 9,613' - 13,588' | 309 | 9,613' |

Casing/Cement Program: Additional Comments

| |
|-------------------------|
| See attached schematic. |
|-------------------------|

²² Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|-------------------------------|------------------|---------------|------------------------|
| Double Hydraulic/Blinds, Pipe | 8,000 psi | 10,000 psi | TBD - Schaffer/Cameron |

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature: 

Printed name: Chris Weyand

Title: Consulting Engineer

E-mail Address: chris@lonquist.com

Date: February 7, 2020

Phone: 512-600-1764

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazon Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---|---|
| ¹ API Number | ² Pool Code 97869 | ³ Pool Name SWD; Silurian-Devonian |
| ⁴ Property Code | ⁵ Property Name PRAIRIE SANDREED FEE SWD | ⁶ Well Number #1 |
| ⁷ OGRID No. 308339 | ⁸ Operator Name BLACKBUCK RESOURCES | ⁹ Elevation 3768.5' |

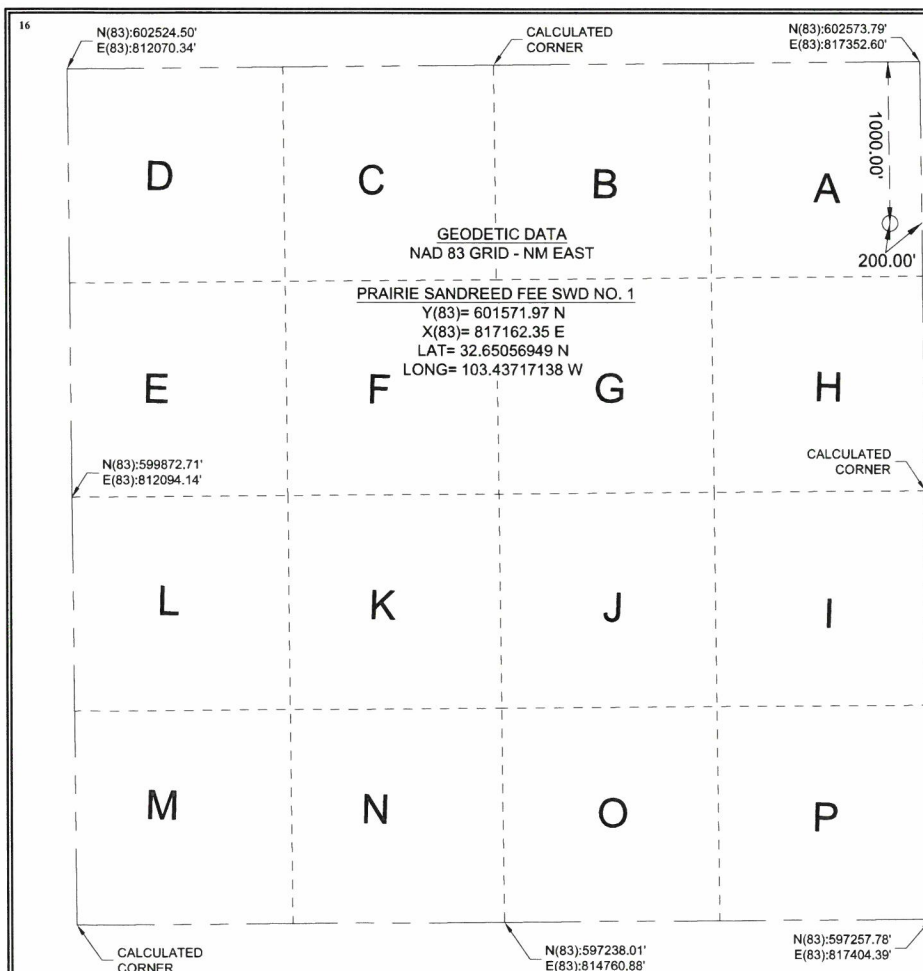
"Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|
| UL or lot no. A | Section 22 | Township 19 S | Range 35 E | Lot Idn | Feet from the 1000 | North/South line NORTH | Feet from the 200 | East/West line EAST | County LEA |
|---------------------------|----------------------|-------------------------|----------------------|---------|------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------|

"Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| ¹² Dedicated Acres | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | | | | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION

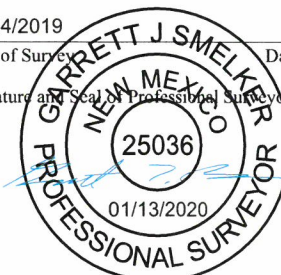
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature *Chris Weyand* Date *2/7/2020*
Printed Name *Chris Weyand* Date
Email Address *Chris@longquist.com* Date

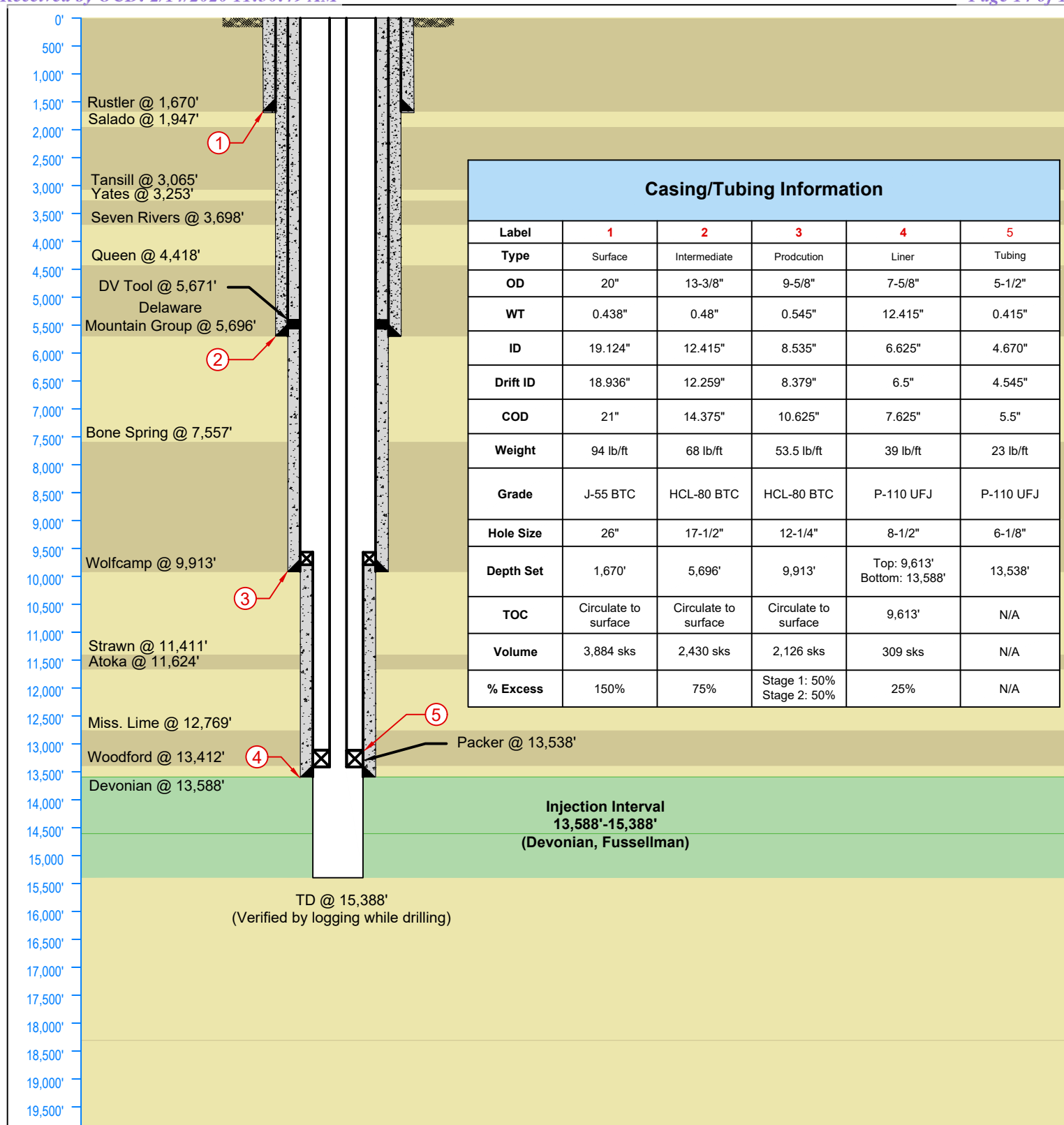
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

09/24/2019 Date of Survey
Signature and Seal of Professional Surveyor: *Garrett J. Smelker*



Certificate Number

**LONQUIST & CO. LLC**PETROLEUM
ENGINEERSENERGY
ADVISORSHOUSTON | CALGARY
AUSTIN | WICHITA | DENVER

Texas License F-9147

12912 Hill Country Blvd. Ste F-200
Austin, Texas 78738
Tel: 512.732.9812
Fax: 512.732.9816

Blackbuck Resources, LLC

Country: USA

Location:

API No: N/A

NMOCD District No: 1

Drawn: TFM

Rev No: 1

Prairie Sandreed Fee SWD No. 1

State/Province: New Mexico

Site: 1,000' FNL & 200 FEL

Field: Devonian-Silurian

Project No: 2158

Reviewed: CBW

Notes:

County/Parish: Lea

Survey: S23-T19S-R35E

Well Type/Status: SWD

Date: 1/22/2020

Approved: CBW

LONQUIST & CO. LLC**PETROLEUM
ENGINEERS****ENERGY
ADVISORS**

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INJECTION INTERVAL CONFINING LAYERS – PRAIRIE SANDREED FEE SWD NO. 1

The Devonian-Silurian injection interval for the proposed Prairie Sandreed Fee SWD No. 1 is contained by upper and lower confining layers. The upper confining layer is the Woodford Shale on top of the Devonian Formation. The lower confining layer is the Sylvan Shale equivalent, which serves as a boundary between the Montoya and Fusselman. This shale layer provides a basal region for the injection interval of the Devonian and Fusselman formations. The low permeability nature of both the Woodford and Sylvan Shale equivalent would provide the Devonian and Fusselman formations appropriate confinement for saltwater disposal during the life of the well.



Parker Jesse

Geologist

Lonquist & Co., LLC

February 4, 2020

Project: Blackbuck Resources
 Prairie Sandreed Fee SWD No. 1

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

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GEOLOGIC AFFIRMATION

I have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and underground sources of drinking water.



Parker Jessee
Geologist

Project: Blackbuck Resources
Prairie Sandreed Fee SWD No. 1
February 4, 2020

**Seismicity and Faults in the Vicinity of the Proposed Solaris Water Midstream, LLC
Prairie Sandreed Fee SWD No. 1 Devonian Disposal wells in Lea County, New Mexico**

The proposed well is located in Lea County, New Mexico. The proposed Prairie Sandreed Fee SWD No.1 well is located in Township 19 South, Range 35 East, Section 22; Eighteen miles west of Hobbs. The proposed well is located near the Northwest Shelf of the Delaware Basin.

Seismicity:

Historically, the area near the proposed Devonian disposal wells has not seen any major seismic activity. A search of the USGS Earthquake Hazards Program Earthquake Catalog revealed the nearest event to be located 27 miles south of the proposed location, where a magnitude 3.3 earthquake was recorded on June 2, 2001 at a depth of 5 kilometers. Review of the USGS Earthquake Hazard map indicates a very low risk of seismic activity. The USGS surface geologic map of the area shows no Quaternary-aged faulting, also indicating no recent tectonic activity. In addition to a search of the USGS Earthquake Hazards Program Earthquake Catalog, a seismic event research was conducted on the Bureau of Economic Geology's Seismic Monitoring Program, TexNet. TexNet's seismic history dates from January 1, 2017 to present date. A 15-kilometer radius of investigation detected no seismic events during this time period.

Faulting:

The USGS surface geologic map, a USGS published Devonian structure map, and subscription Geomap regional subsurface structure maps at the Yates, Strawn Lime and Devonian levels were reviewed for faults. The nearest faults mapped at the Devonian level was approximately 1.25 miles from the proposed well as the Siluro-Devonian level. However, at the Strawn Lime level of the structure map, this fault is nonexistent. Furthermore, no evidence of faulting is present in the Yates level of the structure map.

The Snee and Zoback paper "State of Stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity" was also reviewed to evaluate the presence of faults and fault slip potential risk. These regional maps show faulting within 2.6 miles of the proposed well. Faulting in the New Mexico portion of the Delaware Basin generally shows less than a 10% probability of fault slip movement.

The distance from the proposed wells to the closest mapped faults show evidence of faulting in the Siluro-Devonian subsurface, however, termination of these faults is evident in higher strata in the subsurface and the probability these faults will become critically stressed by injection is extremely low.

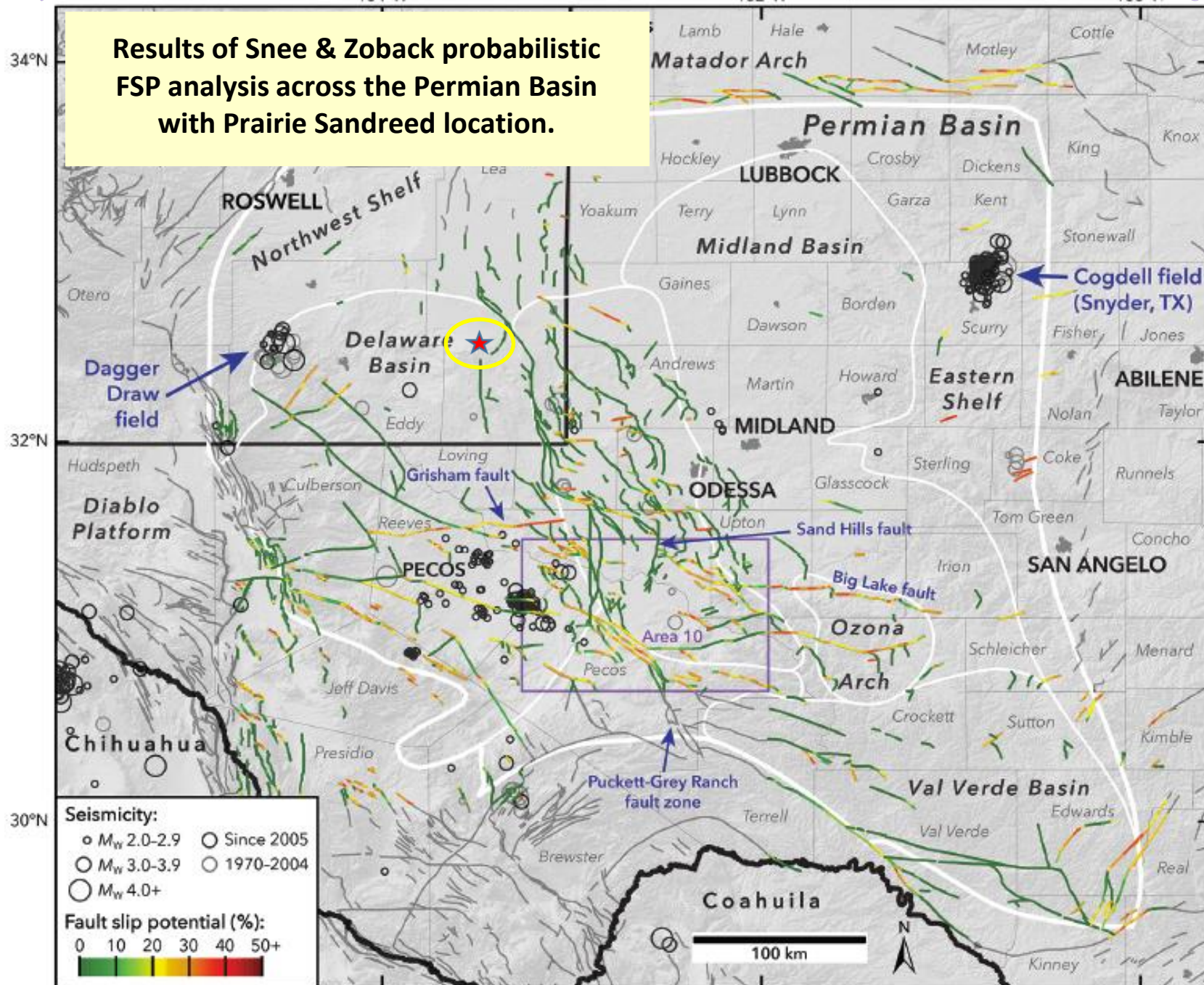


Parker Jessee

Geologist, Lonquist & Co. LLC

SNEE AND ZOBACK REVIEW

**Results of Snee & Zoback probabilistic
FSP analysis across the Permian Basin
with Prairie Sandreed location.**



USGS 15 KILOMETER REVIEW

Magnitude

☐ 2.5+

☐ 4.5+

☒ Custom

Minimum

2

Maximum

Date & Time

☐ Past 7 Days

☐ Past 30 Days

☒ Custom

Start (UTC)

1900-01-01 00:00:00

End (UTC)

2020-02-04 23:59:59

Geographic Region

☐ World

☐ Conterminous U.S.¹

☒ Custom

Custom Circle

▪ 32.65056949 Latitude

▪ -103.43717138 Longitude

▪ 15 Radius (km)

Draw Rectangle on Map

☒ Advanced Options

Geographic Region

Decimal degree coordinates. North must be greater than South. East must be greater than West.

North

West

East

South

Circle

Center Latitude

32.65056949

Center Longitude

-103.43717138

Outer Radius (km)

15

Depth (km)

Minimum

Maximum

Azimuthal Gap

Minimum

Maximum

Review Status

☒ Any

☐ Automatic

☐ Reviewed

Search Results

0 of ~ earthquakes in map area.

Click for more information

There are no events in the current feed.

Didn't find what you were looking for?

- Check your [Settings](#).
- [Which earthquakes are included on the map and list?](#)
- [Felt something not shown - report it here.](#)

+

-

Zoom to...



Caution



The current selection does not currently include any earthquakes.

Earthquakes happen around the world all the time. Change your options to view more earthquakes.

Continue

3000 km
2000 mi

Earthquakes loading



10.142°N - 90.000°W

USGS 25 KILOMETER REVIEW

Magnitude

☐ 2.5+

☐ 4.5+

☒ Custom

Minimum

2

Maximum

Date & Time

☐ Past 7 Days

☐ Past 30 Days

☒ Custom

Start (UTC)

1900-01-01 00:00:00

End (UTC)

2020-02-04 23:59:59

Geographic Region

☐ World

☐ Conterminous U.S.¹

☒ Custom

Custom Circle

32.65066949 Latitude

-103.43717138 Longitude

25 Radius (km)

Draw Rectangle on Map

- Advanced Options

Geographic Region

Decimal degree coordinates. North must be greater than South. East must be greater than West.

North

West

East

South

Circle

Center Latitude

32.65066949

Center Longitude

-103.43717138

Outer Radius (km)

25

Depth (km)

Minimum

Maximum

Azimuthal Gap

Minimum

Maximum

Review Status

☒ Any

☐ Automatic

☐ Reviewed

Search Results

0 of ~ earthquakes in map area.

Click for more information

There are no events in the current feed.

Didn't find what you were looking for?

- Check your [Settings](#).
- [Which earthquakes are included on the map and list?](#)
- [Felt something not shown - report it here.](#)

+

-

Zoom to...



Caution



The current selection does not currently include any earthquakes.

Earthquakes happen around the world all the time. Change your options to view more earthquakes.

Continue



Earthquakes loading



Unavailable

USGS 35 KILOMETER REVIEW

Magnitude

☐ 2.5+

☐ 4.5+

☒ Custom

Minimum

2

Maximum

Date & Time

☐ Past 7 Days

☐ Past 30 Days

☒ Custom

Start (UTC)

1900-01-01 00:00:00

End (UTC)

2020-02-04 23:59:59

Geographic Region

☐ World

☐ Conterminous U.S.¹

☒ Custom

Custom Circle

☐ 32.65066949 Latitude

☐ -103.43717138 Longitude

☐ 35 Radius (km)

Draw Rectangle on Map

-

Advanced Options

Geographic Region

Decimal degree coordinates. North must be greater than South. East must be greater than West.

North

West

East

South

Circle

Center Latitude

32.65066949

Center Longitude

-103.43717138

Outer Radius (km)

35

Depth (km)

Minimum

Maximum

Azimuthal Gap

Minimum

Maximum

Review Status

☒ Any

☐ Automatic

☐ Reviewed

Search Results

0 of – earthquakes in map area.

Click for more information



There are no events in the current feed.

Didn't find what you were looking for?

- Check your [Settings](#).
- [Which earthquakes are included on the map and list?](#)
- [Felt something not shown – report it here.](#)



Zoom to... ▼


 **Caution** 

The current selection does not currently include any earthquakes.

Earthquakes happen around the world all the time. Change your options to view more earthquakes.

Continue



Earthquakes loading 

USGS 45 KILOMETER REVIEW

Magnitude

☐ 2.5+

☐ 4.5+

☒ Custom

Minimum

Maximum

Date & Time

☐ Past 7 Days

☐ Past 30 Days

☒ Custom

Start (UTC)

End (UTC)

Geographic Region

☐ World

☐ Conterminous U.S.¹

☒ Custom

Custom Circle

- 32.65066949 Latitude
- 103.43717138 Longitude
- 45 Radius (km)

Draw Rectangle on Map

- Advanced Options

Geographic Region

Decimal degree coordinates. North must be greater than South. East must be greater than West.

North

West

East

South

Circle

Center Latitude

Center Longitude

Outer Radius (km)

Depth (km)

Minimum

Maximum

Azimuthal Gap

Minimum

Maximum

Review Status

☒ Any

☐ Automatic

☐ Reviewed

Search Results

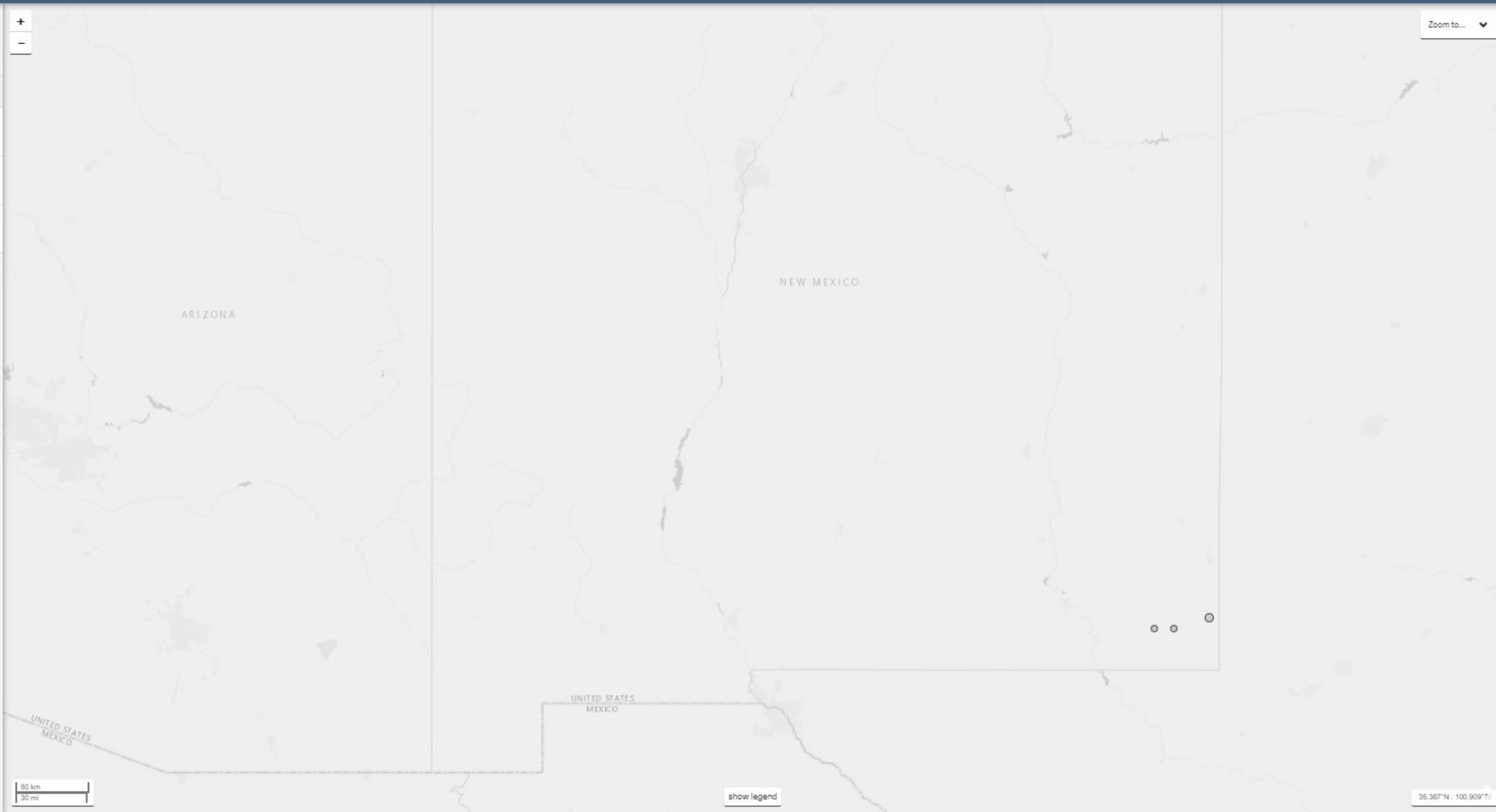
3 of 3 earthquakes in map area.

Click for more information

| | | |
|-----|---|--------|
| 2.7 | 26km NW of Jal, New Mexico 2019-10-21 11:58:56 (UTC) | 5.0 km |
| 3.3 | New Mexico 2001-06-02 01:55:53 (UTC) | 5.0 km |
| 2.9 | New Mexico 1984-12-04 20:36:36 (UTC) | 5.0 km |

Didn't find what you were looking for?

- Check your [Settings](#).
- [Which earthquakes are included on the map and list?](#)
- [Felt something not shown - report it here.](#)



TEXNET 15 KILOMETER REVIEW

Earthquakes

- Final Preliminary
- 1.5 < Magnitude <= 2.0
- 2.0 < Magnitude <= 2.5
- 2.5 < Magnitude <= 3.0
- 3.0 < Magnitude <= 3.5
- 3.5 < Magnitude <= 4
- 4 < Magnitude <= 5.5
- Magnitude > 5.5

- Stations
- TexNet Permanent
- TexNet Portable
- Temporary
- Other Networks

Seismic Regions

Require Focal Mechanism?

Earthquake Magnitude

2.5

6

☐ Lock Magnitude

Date Range

SELECT DATE RANGE...

Manual Area of Interest

Note: Longitude in Texas ranges from approximately -107 degrees to -93 degrees.

Rectangular AOI

Latitude Max

Longitude Min

Longitude Max

Latitude Min

SUBMIT RECTANGLE

Circular AOI

Center Latitude

32.65056949

Center Longitude

-103.43717138

Radius

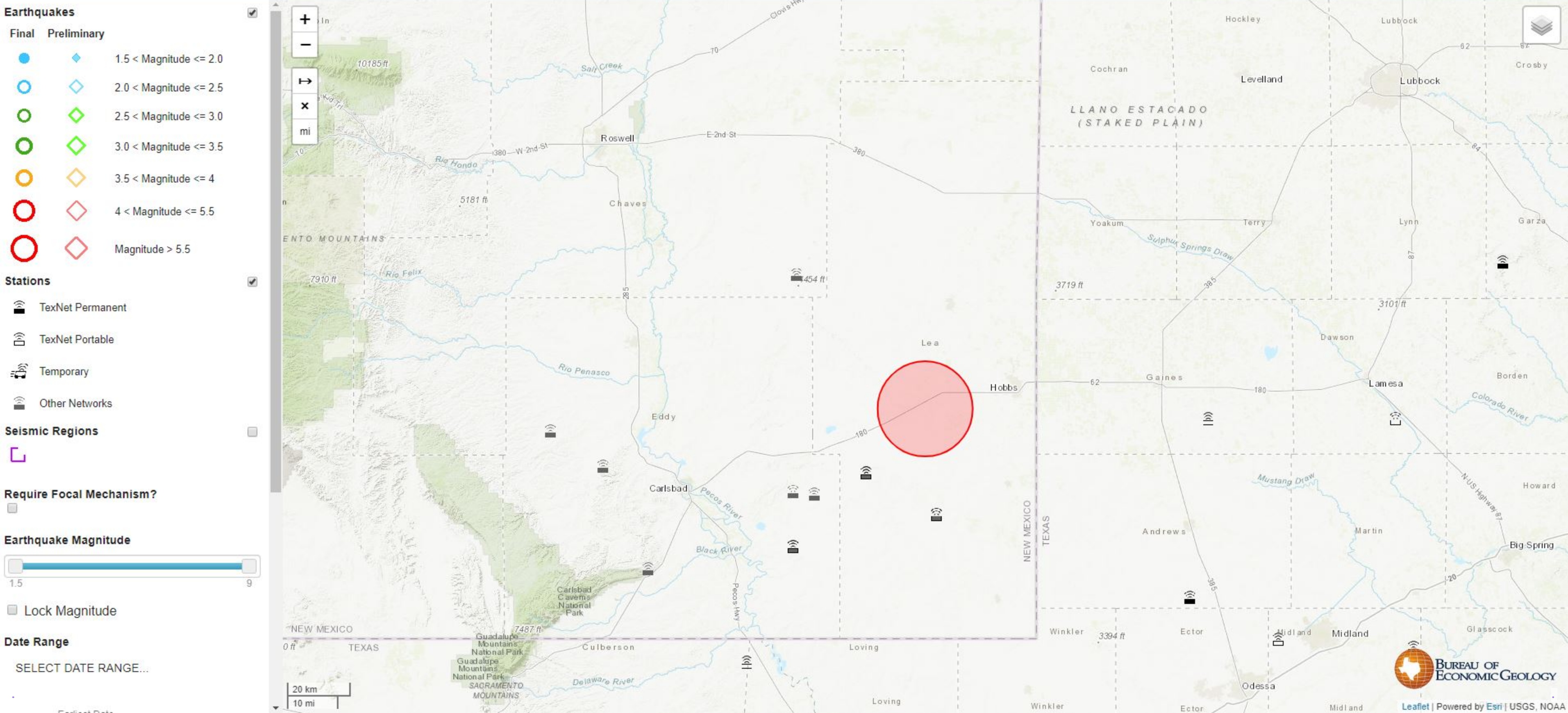
15

Radius Units

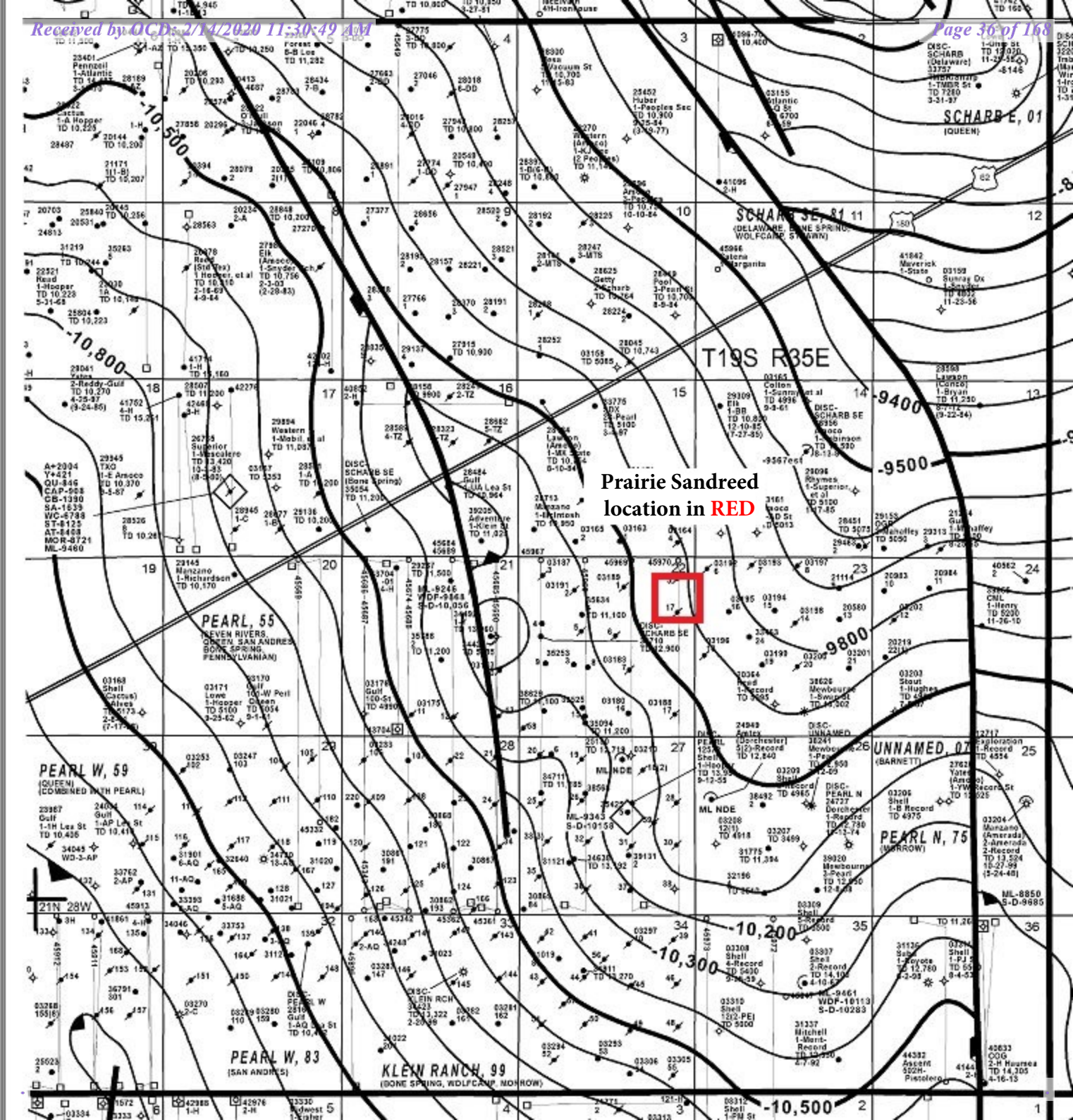
☒ Kilometers

☐ Miles

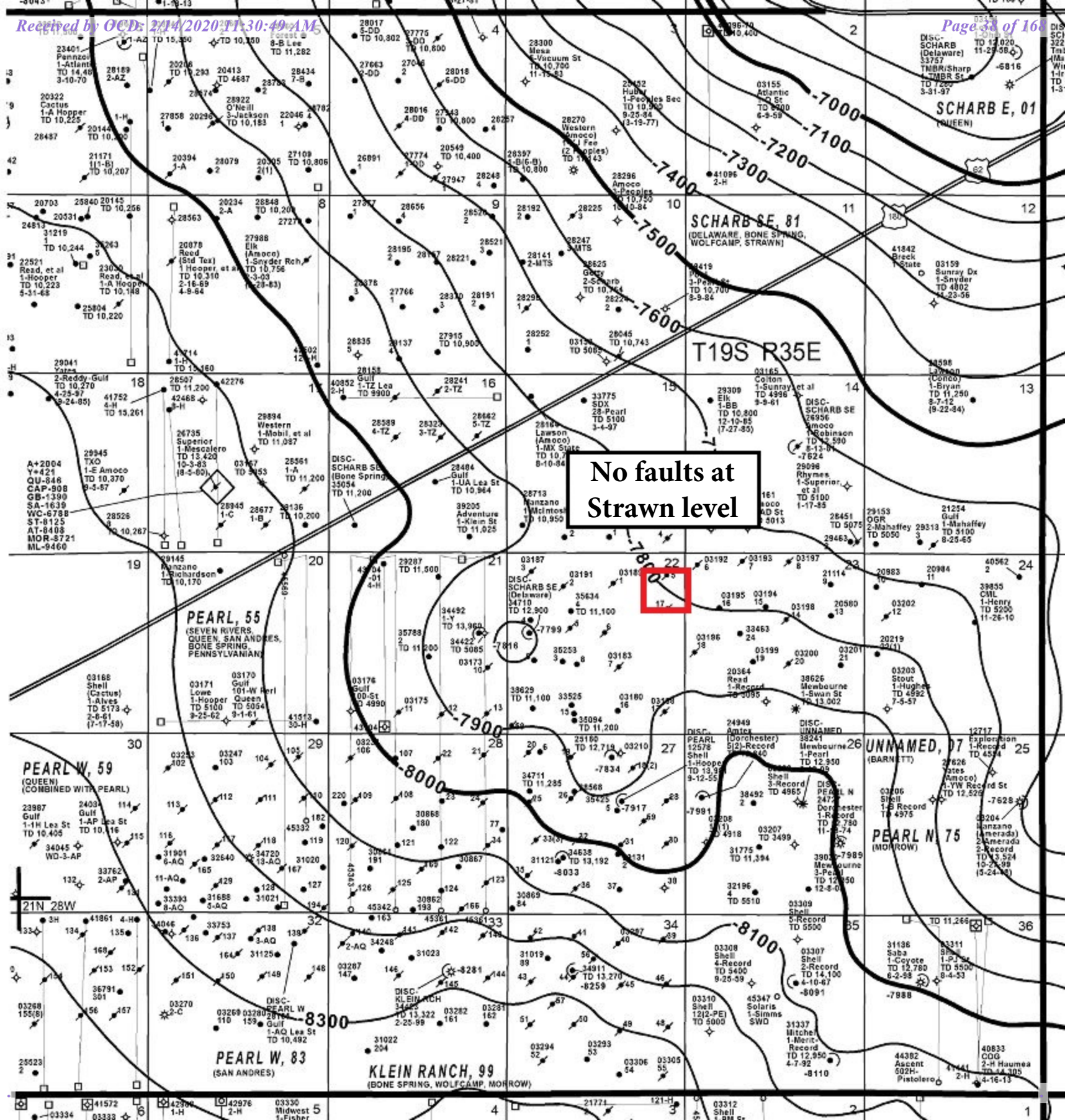
SELECT CIRCLE



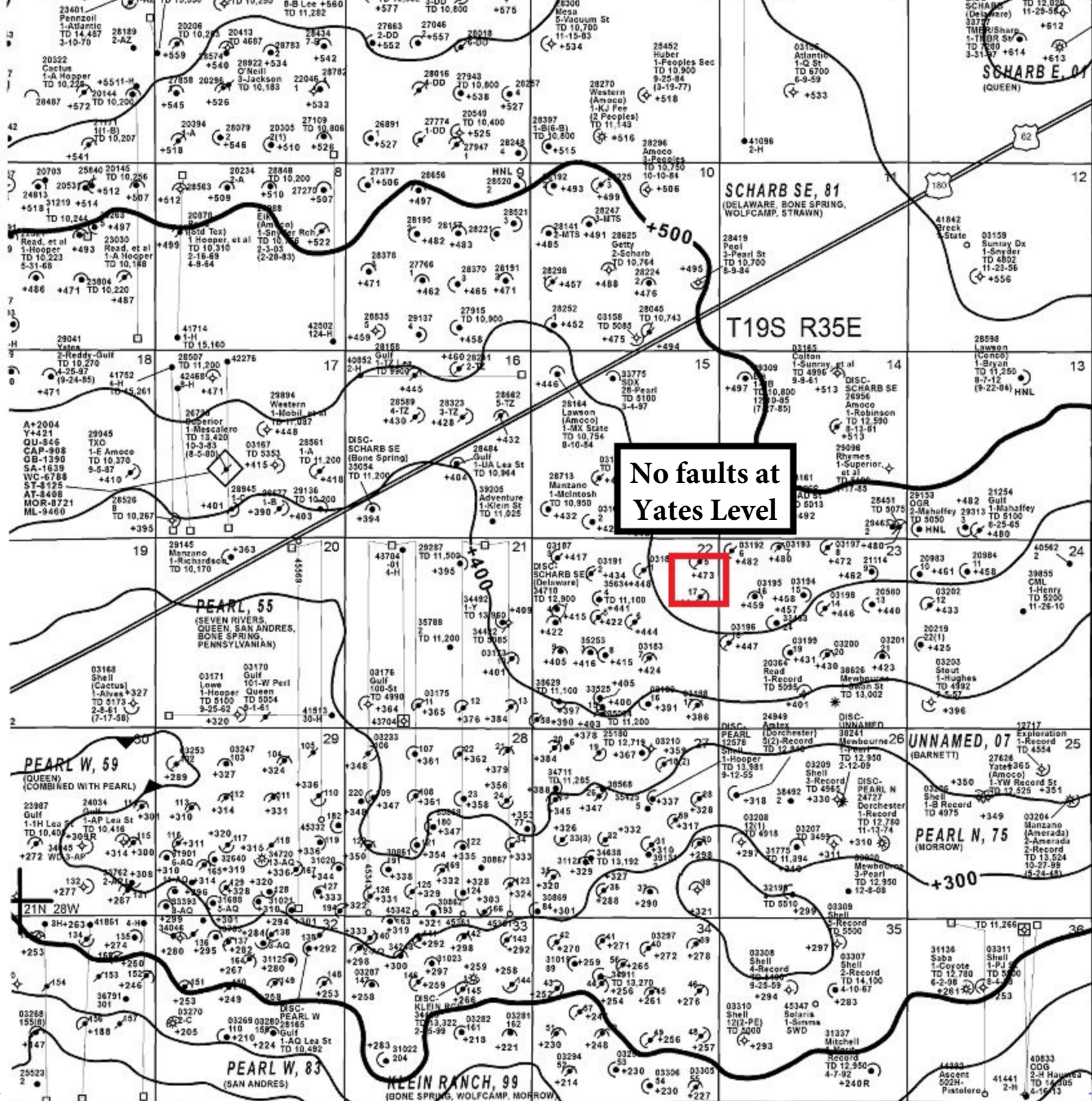
GEOMAP DEVONIAN LEVEL REVIEW

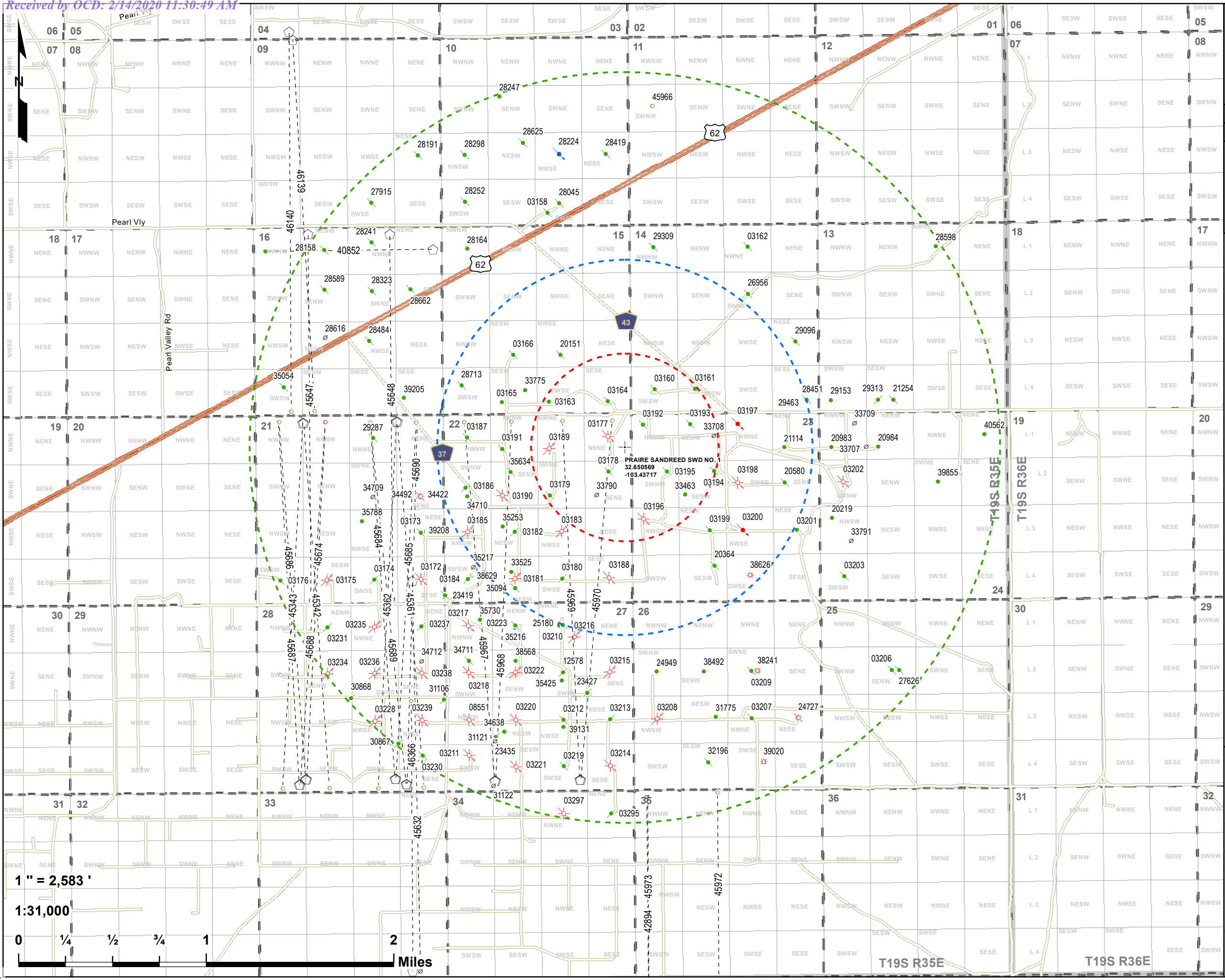


GEOMAP STRAWN LEVEL REVIEW



GEOMAP YATES LEVEL REVIEW





Prarie Sandreed SWD No. 1

2 Mile Area of Review

Blackbuck Resources LLC

Lea Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: ASG

Date: 1/15/2020

Approved by: ELR

LONQUIST & CO. LLC

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ENGINEERS

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- Prarie Sandreed SWD No. 1 SHL
- 1/2-Mile
- 1-Mile
- 2-Mile
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Lateral

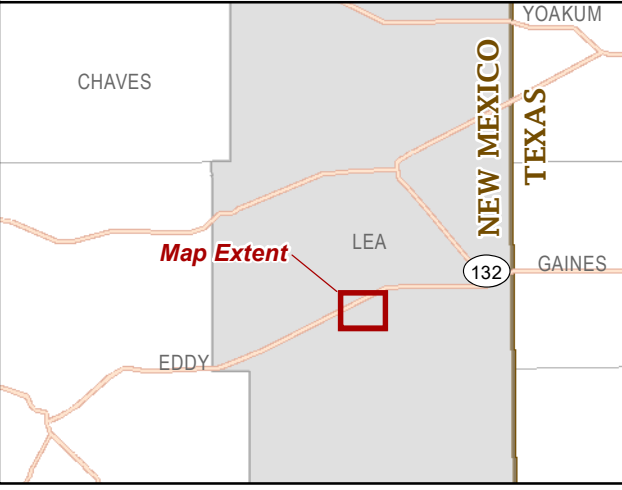
API (30-025-...) SHL Status-Type (Count)

- Horizontal Surface Location (26)
- Active - Gas (3)
- Active - Injection (2)
- Active - Oil (31)
- Active - SWD (1)
- Cancelled/Abandoned Location (12)
- Plugged/Not Released - Injection (13)
- Plugged/Not Released - Oil (16)
- Permitted - Oil (1)
- Plugged/Site Released - Gas (2)
- Plugged/Site Released - Injection (17)
- Plugged/Site Released - Oil (57)

API (30-025-...) BHL Status-Type (Count)

- Active - Oil (1)
- Cancelled/Abandoned Location (4)
- Permitted - Gas (3)
- Permitted - Oil (18)

Source: Well SHL Data - NM-OCD (2020)

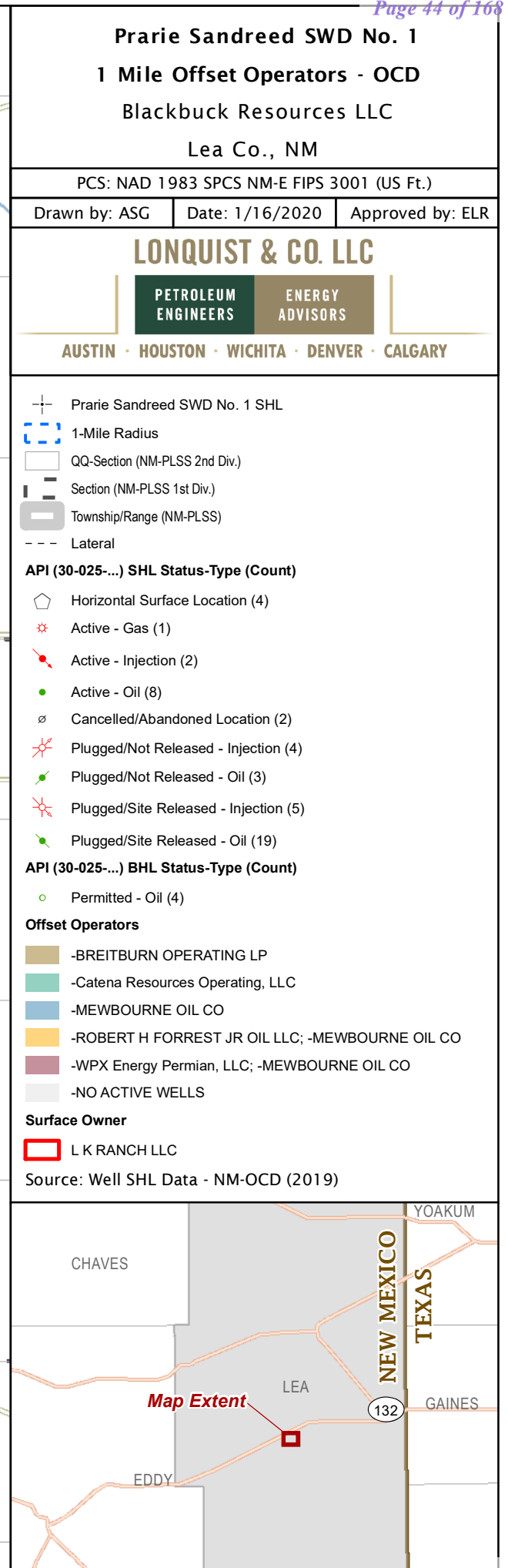


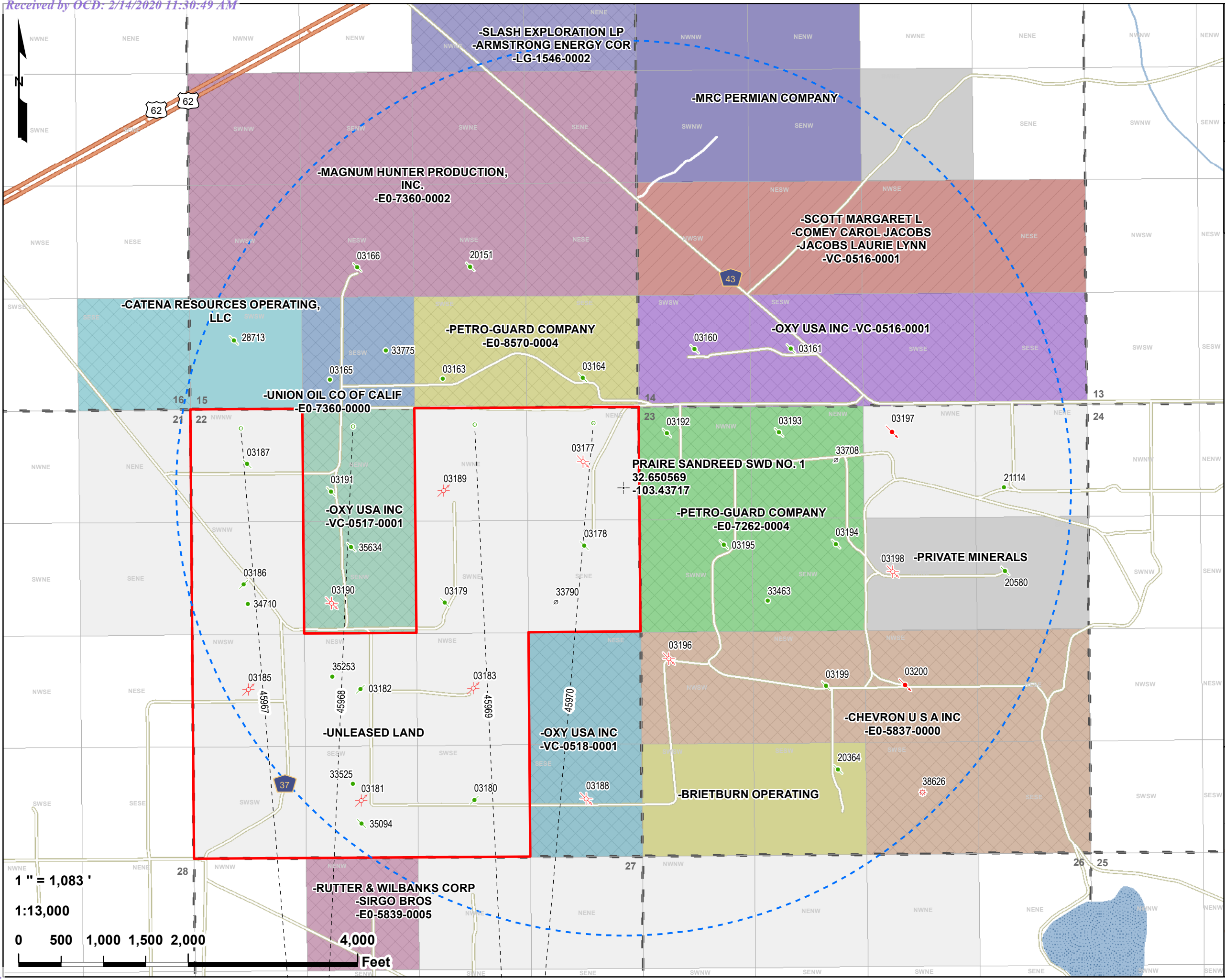
Prarie Sandreed SWD No. 1
1 Mile Offset Operators and Lessees List

| S/T/R | QQ UNIT LETTER(S) | OPERATOR | MINERAL LESSEE | MINERAL OWNER | SURFACE OWNER | ADDRESS 1 | ADDRESS 2 |
|------------------|-------------------|---------------------------------|---|---------------------------------|-----------------|------------------------------------|------------------------------|
| 14/T19S/R35E | M,N,O,P | - | OXY USA INC (BLM) | - | - | PO BOX 4294 | HOUSTON, TX 77210 |
| | I,J,K,L | - | SCOTT MARGARET L (SLO) | - | - | 2837 WESTVIEW TRL | PARK CITY UT 840986251 |
| | I,J,K,L | - | COMEY CAROL JACOBS (SLO) | - | - | 1081 JADE CV | OAK POINT TX 750682262 |
| | I,J,K,L | - | JACOBS LAURIE LYNN (SLO) | - | - | 15796 I AND GN RD | COLLEGE STATION TX 778456835 |
| | | | MRC PERMIAN COMPANY | | | 5400 LBJ FWY, SUITE 1500 | DALLAS, TX 75240 |
| | C,D,E,F | | FEATHERSTONE DEVELOPMENT CORPORATION | | | 1801 W 2ND ST. | ROSWELL, NM 88201 |
| | G | | WALLACE FAMILY PARTNERSHIP, LP | | | 508 W. WALL ST., SUITE 1200 | MIDLAND, TX 79701 |
| | | | COLLINS PERMIAN, LP | | | P.O. BOX 27 | MIDLAND, 79702 |
| | | | WBA RESOURCES, LTD | | | P.O. BOX 50468 | MIDLAND, TX 79701 |
| | | | JWD RESOURCES, LLC | | | P.O. BOX 51908 | MIDLAND, TX 79710 |
| | | | CTH ROYALTIES , LLC | | | P.O. BOX 52521 | MIDLAND, TX 79710 |
| | | | NM ROYALTY, LLC | | | P.O. BOX 51908 | MIDLAND, TX 79710 |
| 15/T19S/R35E | C,D,N,O | BREITBURN OPERATING LP | - | - | - | 1675 Broadway, 28th Floor | Denver, CO 80202 |
| | A,B | - | SLASH EXPLORATION LP AND ARMSTRONG ENERGY COR | - | - | P.O. BOX 1973 | ROSWELL, NM 88202 |
| | E,F,G,H,I,J,K,L | - | MAGNUM HUNTER PRODUCTION, INC. | - | - | 600 N MARIENFELD STREET, SUITE 600 | MIDLAND, TX 79701 |
| | M | | Catena Resources Operating, LLC | | | 18402 US Hwy 281 N Suite 258 | San Antonio, TX 78259 |
| | | | | SHERRY KALONICH | | 164 HUDLOW ROAD | DUNLAP, TN 37327 |
| | | | | BENAJMIN C. RUSHING | | 55 CALDWELL DRIVE | PIKEVILLE, KY 41506 |
| | | | | BRANDY J. HENDERSON | | P.O. BOX 4442 | PENSACOLA, FL 32507 |
| | | | | GRETCHEN J. MCKENDRY | | 116 LONDON AVE. | FORT WALTON, FL 32548 |
| | | | | VATEX HOLDINGS, LLC | | 3535 W. 7TH STREET | FORT WORTH, TX 76107 |
| | | | | FOUNDATION MINERALS, LLC | | P.O. BOX 50820 | MIDLAND, TX 79710 |
| | | | | MAVROS MINERAL II, LLC | | P.O. BOX 50820 | MIDLAND, TX 79710 |
| | | | | OAK VALLEY MINERAL AND LAND, LP | | P.O. BOX 50820 | MIDLAND, TX 79710 |
| | O,P | - | PETRO-GUARD COMPANY | - | - | 2450 FONDREN RD., SUITE 105 | HOUSTON, TX 77063 |
| 16/T19S/R35E | P | Catena Resources Operating, LLC | - | - | - | 18402 US Hwy 281 N Suite 258 | San Antonio, TX 78259 |
| 21/T19S/R35E | NO ACTIVE WELLS | - | - | - | - | - | - |
| 22/T19S/R35E | ENTIRE SECTION | MEWBOURNE OIL CO | - | - | - | P.O. Box 5270 | Hobbs, NM 88241 |
| | N | ROBERT H FORREST JR OIL LLC | - | - | - | 609 Elora Dr. | Carlsbad, NM 88220 |
| | E,K | WPX Energy Permian, LLC | - | - | - | 3500 One Williams Center | Tulsa, OK 74172 |
| 23/T19S/R35E | A,B,F,J,I,O | BREITBURN OPERATING LP | - | - | - | 1675 Broadway, 28th Floor | Denver, CO 80202 |
| | C,D,E,F | - | PETRO-GUARD COMPANY | - | - | 2450 FONDREN RD., SUITE 105 | HOUSTON, TX 77063 |
| | I,J,K,L,O,P | - | CHEVRON U S A INC | - | - | 6301 Deauville Blvd | Midland, TX 79706 |
| | G,H | | WILLIAM J SAVAGE | | | 1345 EAGLE BEND | SOUTHLAKE, TX 76092 |
| | | | CEVRON U S A INC | | | 6301 DEAUVILLE BLVD | MIDLAND, TX 79706 |
| | | | RIDGE RUNNER RESOURCES OPERATING, LLC | | | 1004 N. BIG SPRING, SUITE 325 | MIDLAND, TX 79701 |
| | | | CHAP EXPLORATION LLC | | | P. O. BOX 3445 | MIDLAND, TX 79702 |
| | | | MARK A. TRIEB | | | 1900 MCKINNEY AVE. APT 2109 | DALLAS, TX 75201 |
| | | | MICHELLE P. TRIEB | | | 4621 EVERGREEN ST. | BELLAIRE, TX 77401 |
| | M,N | | BRIETBURN OPERATING LP | | | 1111 BAGBY ST., SUITE 1600 | HOUSTON, TX 77002 |
| 26/T19S/R35E | B,C,D | MEWBOURNE OIL CO | - | - | - | P.O. Box 5270 | Hobbs, NM 88241 |
| 27/T19S/R35E | A,B,C | MEWBOURNE OIL CO | - | - | - | P.O. Box 5270 | Hobbs, NM 88241 |
| Surface Location | - | - | - | - | L & K RANCH LLC | PO BOX 1503 | HOBBS, NM 88241 |

Prairie Sandreed SWD No. 1
1 Mile Area of Review List

| API (30-025-...) | WELL NAME | WELL TYPE | STATUS | OPERATOR | TVD (FT.) | LATITUDE (NAD83 DD) | LONGITUDE (NAD83 DD) | SPUD/PLUG DATE | FIELD |
|------------------|---------------------------------------|-----------|--------|-----------------------------------|-----------|---------------------|----------------------|----------------|---|
| 45967 | BEEFMASTER 27 22 B2MD STATE COM #001H | O | N | MEWBOURNE OIL CO | 0 | 32.6249162000 | -103.449315500 | - | [49680] PEARL, BONE SPRING |
| 38626 | SWAN 23 STATE COM #001 | G | A | MEWBOURNE OIL CO | 13000 | 32.6406174000 | -103.425804100 | 3/8/2008 | [49680] PEARL, BONE SPRING; [82680] PEARL, MORROW, NORTH (GAS); [97623] PEARL, BARNETT, NORTH (GAS) |
| 45970 | BEEFMASTER 27 22 B2PA STATE COM #001H | O | N | MEWBOURNE OIL CO | 0 | 32.6249132000 | -103.441447900 | - | [49680] PEARL, BONE SPRING |
| 45969 | BEEFMASTER 27 22 B2OB FEE #001H | O | N | MEWBOURNE OIL CO | 0 | 32.6249132000 | -103.441545200 | - | [49680] PEARL, BONE SPRING |
| 45968 | BEEFMASTER 27 22 B2NC STATE COM #001H | O | N | MEWBOURNE OIL CO | 0 | 32.6249162000 | -103.449218200 | - | [49680] PEARL, BONE SPRING |
| 03179 | EAST PEARL QUEEN UNIT #006 | O | H | XERIC OIL & GAS CORP | 4875 | 32.6469078000 | -103.444068900 | 9/19/2003 | [49780] PEARL, QUEEN |
| 03182 | EAST PEARL QUEEN UNIT #008 | O | P | XERIC OIL & GAS CORP | 4912 | 32.6441345000 | -103.447319000 | 8/5/1994 | [49780] PEARL, QUEEN |
| 03185 | EAST PEARL QUEEN UNIT #009 | I | H | XERIC OIL & GAS CORP | 4880 | 32.6441383000 | -103.451614400 | 8/5/1994 | [49780] PEARL, QUEEN |
| 03188 | EAST PEARL QUEEN UNIT #017 | I | H | XERIC OIL & GAS CORP | 4850 | 32.6404953000 | -103.438705400 | 10/13/2003 | [49780] PEARL, QUEEN |
| 03180 | EAST PEARL QUEEN UNIT #016 | O | P | XERIC OIL & GAS CORP | 5483 | 32.64049910000 | -103.44299320000 | 8/5/1994 | [49780] PEARL, QUEEN |
| 03183 | EAST PEARL QUEEN UNIT #007 | I | P | XERIC OIL & GAS CORP | 4910 | 32.6441307000 | -103.442993200 | 8/5/1994 | [49780] PEARL, QUEEN |
| 03186 | EAST PEARL QUEEN UNIT #004 | O | P | XERIC OIL & GAS CORP | 4910 | 32.64755250000 | -103.45177460000 | 8/5/1994 | [49780] PEARL, QUEEN |
| 03189 | EAST PEARL QUEEN UNIT #001 | I | H | XERIC OIL & GAS CORP | 4811 | 32.6505356000 | -103.444068900 | 5/27/1960 | [49780] PEARL, QUEEN |
| 03181 | EAST PEARL QUEEN UNIT #015 | I | P | XERIC OIL & GAS CORP | 4900 | 32.6405067000 | -103.447326700 | 8/5/1994 | [49780] PEARL, QUEEN |
| 33525 | OYSTER #001 | O | A | ROBERT H FORREST JR OIL LLC | 6475 | 32.6410561000 | -103.447647100 | 8/13/1996 | [96666] PEARL, SAN ANDRES, NORTH |
| 28713 | MCINTOSH #001 | O | P | MANZANO OIL CORP | 10950 | 32.6554718000 | -103.452064500 | 4/30/1984 | [49780] PEARL, QUEEN |
| 20580 | NORTHEAST PEARL QUEEN UNIT #013 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5076 | 32.6477776000 | -103.422584500 | 6/16/1963 | [49780] PEARL, QUEEN |
| 03192 | NORTHEAST PEARL QUEEN UNIT #006 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 4995 | 32.6523399000 | -103.435493500 | 9/22/1961 | [49780] PEARL, QUEEN |
| 03195 | NORTHEAST PEARL QUEEN UNIT #016 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5050 | 32.6487045000 | -103.433349600 | 9/5/1962 | [49780] PEARL, QUEEN |
| 03198 | NORTHEAST PEARL QUEEN UNIT #014 | I | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5104 | 32.6477852000 | -103.426872300 | 6/10/1962 | [49780] PEARL, QUEEN |
| 03193 | NORTHEAST PEARL QUEEN UNIT #007 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5046 | 32.6523285000 | -103.431205700 | 11/5/1961 | [49780] PEARL, QUEEN |
| 03199 | NORTHEAST PEARL QUEEN UNIT #019 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5069 | 32.6441116000 | -103.429481500 | 9/14/1962 | [49780] PEARL, QUEEN |
| 03194 | NORTHEAST PEARL QUEEN UNIT #015 | O | P | QUANTUM RESOURCES MANAGEMENT, LLC | 5038 | 32.6486969000 | -103.429054300 | 8/8/1962 | [49780] PEARL, QUEEN |
| 35634 | TORO 22 STATE #004 | O | P | WPX Energy Permian, LLC | 11100 | 32.64872740000 | -103.44764710000 | 8/3/2001 | [55650] SCHARB, WOLFCAMP, SOUTHEAST; [97098] SCHARB, DELAWARE, SOUTHEAST |
| 35094 | TORO 22 STATE COM #002 | O | P | WPX Energy Permian, LLC | 11200 | 32.6397629000 | -103.447326700 | 7/24/2000 | [55650] SCHARB, WOLFCAMP, SOUTHEAST |
| 34710 | TORO 22 #001 | O | A | WPX Energy Permian, LLC | 12900 | 32.6469193000 | -103.451614400 | 11/14/1999 | [55650] SCHARB, WOLFCAMP, SOUTHEAST; [97098] SCHARB, DELAWARE, SOUTHEAST |
| 35253 | TORO 22 #003 | O | A | WPX Energy Permian, LLC | 11016 | 32.6445465000 | -103.448394800 | 11/29/2000 | [96989] KLEIN RANCH, WOLFCAMP |
| 33775 | NORTHEAST PEARL QUEEN UNIT #028 | O | A | BREITBURN OPERATING LP | 5100 | 32.6551018000 | -103.446243300 | 1/28/1997 | [49780] PEARL, QUEEN |
| 03190 | EAST PEARL QUEEN UNIT #005 | I | P | PYRAMID ENERGY INC | 4923 | 32.6469154000 | -103.448394800 | 9/21/1959 | [49780] PEARL, QUEEN |
| 03165 | NORTHEAST PEARL QUEEN UNIT #002 | O | A | BREITBURN OPERATING LP | 5020 | 32.6541710000 | -103.448394800 | 1/18/1961 | [49780] PEARL, QUEEN |
| 03163 | NORTHEAST PEARL QUEEN UNIT #003 | O | A | BREITBURN OPERATING LP | 5044 | 32.6541672000 | -103.444068900 | 5/11/1961 | [49780] PEARL, QUEEN |
| 21114 | NORTHEAST PEARL QUEEN UNIT #009 | O | A | BREITBURN OPERATING LP | 5097 | 32.6504974000 | -103.422584500 | 6/15/1964 | [49780] PEARL, QUEEN |
| 33463 | NORTHEAST PEARL QUEEN UNIT #024 | O | A | BREITBURN OPERATING LP | 5100 | 32.6468887000 | -103.431686400 | 6/21/1996 | [49780] PEARL, QUEEN |
| 03177 | NORTHEAST PEARL QUEEN UNIT #005 | I | H | SDX RESOURCES INC | 5050 | 32.65143590000 | -103.43870540000 | 5/16/1991 | [49780] PEARL, QUEEN |
| 03196 | NORTHEAST PEARL QUEEN UNIT #018 | I | P | SDX RESOURCES INC | 5210 | 32.6450272000 | -103.435493500 | 9/1/1961 | [49780] PEARL, QUEEN |
| 03197 | NORTHEAST PEARL QUEEN UNIT #008 | I | A | BREITBURN OPERATING LP | 5066 | 32.6523209000 | -103.426872300 | 7/1/1962 | [49780] PEARL, QUEEN |
| 03200 | NORTHEAST PEARL QUEEN UNIT #020 | I | A | BREITBURN OPERATING LP | 5100 | 32.6441078000 | -103.426452600 | 11/11/1962 | [49780] PEARL, QUEEN |
| 33790 | NORTHEAST PEARL QUEEN UNIT #029 | O | C | SDX RESOURCES INC | 0 | 32.6468987775 | -103.439794673 | - | - |
| 33708 | NORTHEAST PEARL QUEEN UNIT #026 | O | C | SDX RESOURCES INC | 0 | 32.6514143017 | -103.429022679 | - | - |
| 20364 | PRE-ONGARD WELL #001 | O | H | PRE-ONGARD WELL OPERATOR | 5095 | 32.6413918000 | -103.429054300 | 1/1/1900 | - |
| 20151 | PRE-ONGARD WELL #001 | O | H | PRE-ONGARD WELL OPERATOR | 5013 | 32.6577911000 | -103.442993200 | 1/1/1900 | - |
| 03161 | PRE-ONGARD WELL #002 | O | H | PRE-ONGARD WELL OPERATOR | 5013 | 32.6550522000 | -103.430717500 | 1/1/1900 | - |
| 03191 | PRE-ONGARD WELL #002 | O | P | PRE-ONGARD WELL OPERATOR | 4930 | 32.6505432000 | -103.448394800 | 1/1/1900 | [49780] PEARL, QUEEN |
| 03187 | PRE-ONGARD WELL #003 | O | H | PRE-ONGARD WELL OPERATOR | 4950 | 32.6514549000 | -103.451606800 | 1/1/1900 | [49780] PEARL, QUEEN |
| 03160 | PRE-ONGARD WELL #001 | O | H | PRE-ONGARD WELL OPERATOR | 5025 | 32.6550560000 | -103.434417700 | 1/1/1900 | - |
| 03166 | PRE-ONGARD WELL #001 | O | H | PRE-ONGARD WELL OPERATOR | 4966 | 32.65779880000 | -103.44731900000 | 1/1/1900 | [49780] PEARL, QUEEN |
| 03164 | PRE-ONGARD WELL #004 | O | H | PRE-ONGARD WELL OPERATOR | 5040 | 32.6541595000 | -103.438705400 | 1/1/1900 | [49780] PEARL, QUEEN |
| 03178 | PRE-ONGARD WELL #017 | O | H | PRE-ONGARD WELL OPERATOR | 5084 | 32.6487160000 | -103.438705400 | 1/1/1900 | [49780] PEARL, QUEEN |





Prarie Sandreed SWD No. 1

1 Mile Lessee(s) - BLM/SLO

Blackbuck Resources LLC

Lea Co., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)

Drawn by: ASG

Date: 2/6/2020

Approved by: ELR

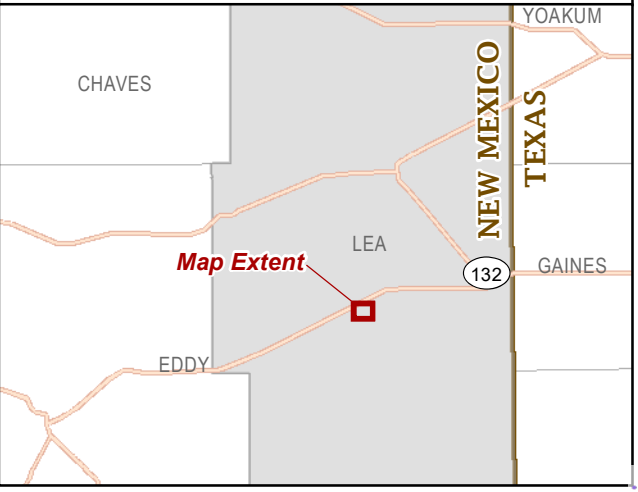
LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Prarie Sandreed SWD No. 1 SHL
 - 1-Mile Radius
 - NM-SLO
 - NM-BLM
 - QQ-Section (NM-PLSS 2nd Div.)
 - Section (NM-PLSS 1st Div.)
 - Township/Range (NM-PLSS)
 - Lateral
 - API (30-025-...) SHL Status-Type (Count)
 - Horizontal Surface Location (4)
 - Active - Gas (1)
 - Active - Injection (2)
 - Active - Oil (8)
 - Cancelled/Abandoned Location (2)
 - Plugged/Not Released - Injection (4)
 - Plugged/Not Released - Oil (3)
 - Plugged/Site Released - Injection (5)
 - Plugged/Site Released - Oil (19)
 - API (30-025-...) BHL Status-Type (Count)
 - Permitted - Oil (4)
 - Lessee
 - Brietburn Operating
 - CHEVRON U S A INC; -E0-5837-0000
 - Catena Resources Operating, LLC
 - MAGNUM HUNTER PRODUCTION, INC.; -E0-7360-0002
 - MRC Permian Company
 - OXY USA INC -VC-0516-0001
 - OXY USA INC; -VC-0517-0001
 - OXY USA INC; -VC-0518-0001
 - PETRO-GUARD COMPANY; -E0-7262-0004
 - PETRO-GUARD COMPANY; -E0-8570-0004
 - RUTTER & WILBANKS CORP; -SIRGO BROS; -E0-5839-0005
 - SCOTT MARGARET L; -COMEY CAROL JACOBS; -JACOBS LAURIE LYNN; -VC-0516-0001
 - SLASH EXPLORATION LP; -ARMSTRONG ENERGY COR; -LG-1546-0002
 - UNION OIL CO OF CALIF; -E0-7360-0000
 - UNLEASED LAND
 - PRIVATE MINERALS
 - Surface Owner
 - L K RANCH LLC
- Source: Well SHL Data - NM-OCD (2019)



CURSORY REPORT

PROSPECT: Prarie Sandreed SWD No. 1

REPORT DATE: 1/28/2020

RECORD DATE: 1/1/1981 – 1/8/2020

COUNTY OF: Lea

STATE OF: New Mexico

DESCRIPTION

NW/4 and SW/4NE/4 of Section 14
T19S-R35E, NMPM

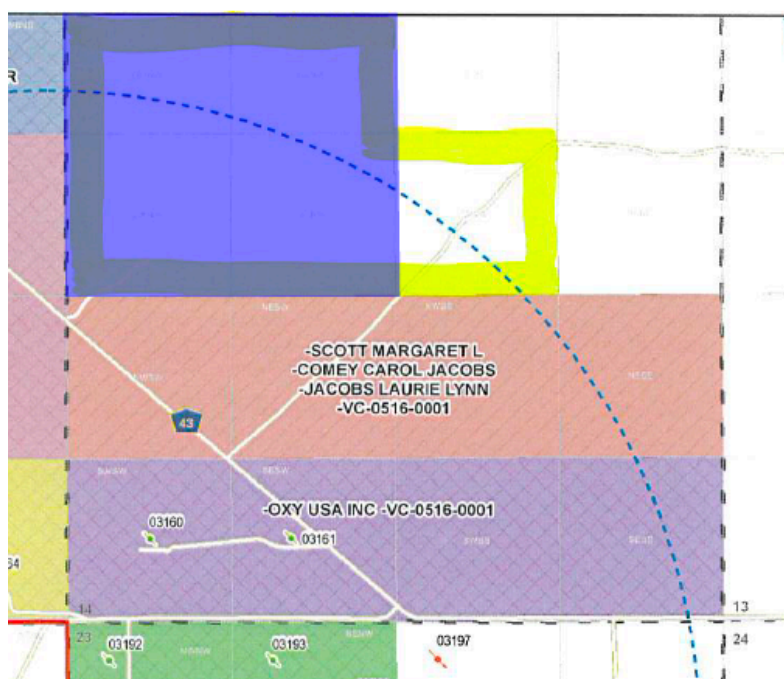
DESCRIPTION: The NW/4 of Section 14, Township 19 South, Range 35 East, NMPM, 160 acres

CURSORY OWNERSHIP

| Name of Mineral Owners | Interest | Net Acres | Leasehold and Expiration Date |
|---|------------|------------|--|
| The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | N/A | N/A | LEASED Lease Date: 5/25/2017 V/P: OG 2115/145 Lessor: Featherstone Development Corporation |
| TOTALS FOR MINERAL OWNERSHIP | N/A | N/A | |

LEASEHOLD OWNERSHIP

| Interest Owners | W.I. | N.R.I. | Net Acres | Comments |
|---|------------|------------|------------|--------------|
| MRC Permian Company 5400 LBJ Fwy, Suite 1500 Dallas, TX 75240 | N/A | N/A | N/A | OGL 2115/145 |
| WORKING INTEREST TOTALS | N/A | N/A | N/A | |



DESCRIPTION: The SW/4NE/4 of Section 14, Township 19 South, Range 35 East, NMPM, 40 acres

MINERAL OWNERSHIP

| Interest Owners | M.I. | Net Acres | Comments |
|--|------------|------------|--------------|
| Wallace Family Partnership, LP 508 W. Wall St., Suite 1200 Midland, TX 79701 | N/A | N/A | APPEARS OPEN |
| Collins Permian, LP P.O. Box 27 Midland, TX 79702 | N/A | N/A | APPEARS OPEN |
| WBA Resources, Ltd. P.O. Box 50468 Midland, TX 79710 | N/A | N/A | APPEARS OPEN |
| JWD Resources, LLC P.O. Box 51908 Midland, TX 79710 | N/A | N/A | APPEARS OPEN |
| CTH Royalties, LLC P.O. Box 52521 Midland, TX 79710 | N/A | N/A | APPEARS OPEN |
| NM Royalty, LLC P.O. Box 51908 Midland, TX 79710 | N/A | N/A | APPEARS OPEN |
| MINERAL INTEREST TOTALS | N/A | N/A | |



| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|------------------------------------|-------------|---|--------------------------------------|--|
| OGL | OPR | 1433/743 | 2/1/2006 | 3/24/2006 | The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | Lyle D. Cannon | OGL for the NW/4 of Sec. 14, 19S-35E 3 years |
| OGL | OPR | 1744/737 | 8/15/2011 | 9/12/2011 | The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | Peregrine Production, LLC | OGL for the NW/4 of Sec. 14, 19S-35E 3 years |
| Amend OGL | OPR | 1904/960 | 8/15/2011 | 7/18/2014 | The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | MRC Permian Company | Amends term to 6 years, expiring 8/16/2017 |
| OGL | OPR | 2115/145 | 5/25/2017 but Eff. 8/12/2017 | 7/11/2017 | The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | Featherstone Development Corporation | OGL for the NW/4 of Sec. 14, 19S-35E 3 years **Top Lease |
| AOGL | OPR | 2132/775 | 4/19/2018 | 4/23/2018 | Featherstone Development Corporation | MRC Permian Company | Assigns ARTI in and to OGL 2115/145 |
| OGL | OPR | 2156/720 | 9/1/2019 but Eff. 8/13/2020 | 10/2/2019 | The New Mexico Baptist Foundation, Inc., Trustee for New Mexico Baptist Children's Home, Inc. | Featherstone Development Corporation | OGL for the NW/4 of Sec. 14, 19S-35E 3 years **Top Lease |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|----------------|-------------|--|--|---|
| ROGL | OG | 357/914 | 1/12/1983 | 2/4/1983 | Amoco Production Company | Daisie E. Buck | Release of OGL 308/422 |
| OGL | OG | 362/836 | 6/8/1983 | 8/2/1983 | Daisie Buck et vir O. V. Buck | MTS Limited Partnership | OGL for the NE/4 of Section 14, 19S-35E, 160 acres 5 years Other Lands: S/2SE/4 Sec. 11, 19S-35E |
| PRO | PB | D-506-PB-2016-00041 | 12/6/1998 | 4/18/2016 | The Estate of Daisie Elizabeth Buck, Deceased | The Public | Decedent died testate Mark Emery Buck was appointed as PR of her estate |
| AOH | OPR | 933/136 | 1/16/1999 | 1/25/1999 | Nancy Kaye Buck | The Public | Daisie Elizabeth Buck died 12/6/1998 She was survived by Nancy Kaye Buck |
| OGL | OPR | 1468/684 | 8/14/2006 | 9/13/2006 | Nancy Kaye Buck, SSP | Baroshel Properties | OGL for the NE/4 of Section 14, 19S-35E, 160 acres 3 years |
| MD | OPR | 1670/858 | 3/10/2010 | 3/16/2010 | Nancy Kaye Buck | Mark Emery Buck | Conveys all UDMI in and under the NE/4 of Section 14, 19S-35E |
| OGL | OPR | 1674/325 | 3/15/2010 | 4/9/2010 | Mark Emery Buck, SSP | Marshall & Winston, Inc. | OGL for the NE/4 of Section 14, 19S-35E, 160 acres 3 years + 2 year ext Other Lands: S/2SE/4 Sec. 11, 19S-35E |
| OGL Ext | OPR | 1803/403 | 3/15/2010 | 11/2/2012 | Mark Emery Buck, SSP | Marshall & Winston, Inc. | Extends OGL 1674/325 to 5 years, expiring 3/15/2015 |
| OGL | OPR | 1952/373 | 4/1/2015 | 4/7/2015 | Mark Emery Buck, SSP | O'Brien Oil & Gas, Inc. | OGL for the NE/4 of Section 14, 19S-35E, 160 acres 3 years Other Lands: S/2SE/4 Sec. 11, 19S-35E |
| MD | OPR | 2040/534 | 3/31/2016 | 7/25/2016 | Mark Emory Buck, PR of the Estate of Daisie Elizabeth Buck, Deceased | Mark Emery Buck | Conveys all UDMI in and under the NE/4 of Section 14, 19S-35E |
| MD | OPR | 2040/536 | 4/1/2016 | 7/25/2016 | Mark Emery Buck, SSP | Wallace Family Partnership, LP - 37.5% Ted Collins, Jr. - 37.5% WBA Resources, Ltd. - 6.25% JWD Resources, LLC - 6.25% Hanlon Resources, Inc. - 6.25% NM Royalty, LLC - 6.25% | Conveys all UDMI in and under the NE/4 of Section 14, 19S-35E |
| MD | OPR | 2058/91 | 3/1/2016 | 10/17/2016 | Hanlon Resources, Inc. | CTH Royalties, LLC | Conveys all UDMI in and under the NE/4 of Section 14, 19S-35E |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|--------------------|--------|----------------------|----------------|-------------|------------------|---------------------|-----------------------------|
| Blanket Conveyance | OPR | 2126/676 | 1/1/2018 | 12/19/2017 | Ted Collins, Jr. | Collins Permian, LP | Conveys all UDMI in Lea Co. |

CURSORY REPORT

PROSPECT: Prairie Sandreed SWD No. 1

REPORT DATE: 2/5/2020

RECORD DATE: 1/1/1981 – 1/8/2020

COUNTY OF: Lea

STATE OF: New Mexico

DESCRIPTION

SW/4SW/4 of Section 15
T19S-R35E, NMPM

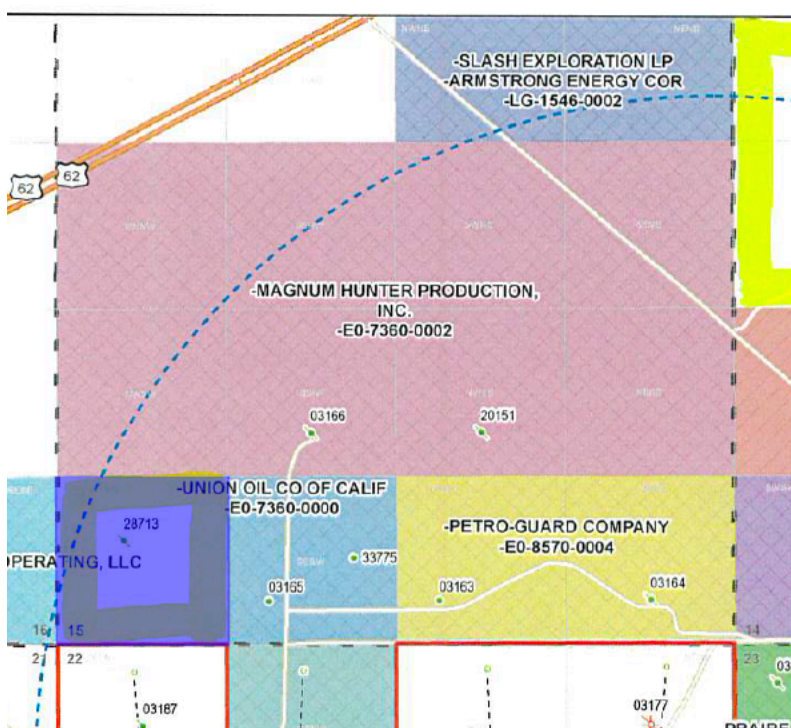
DESCRIPTION: The SW/4SW/4 of Section 15, Township 19 South, Range 35 East, NMPM, 40 acres

CURSORY OWNERSHIP

| Name of Mineral Owners | Interest | Net Acres | Leasehold and Expiration Date |
|--|-----------------|------------------|--------------------------------------|
| Samuel A. Rushing et al. | N/A | N/A | LEASED |
| Sherry Kalonich 164 Hudlow Road Dunlap, TN 37327 | N/A | N/A | APPEARS UNLEASED |
| Benjamin C. Rushing 55 Caldwell Drive Pikeville, KY 41506 | N/A | N/A | APPEARS UNLEASED |
| Brandy J. Henderson P.O. Box 4442 Pensacola, FL 32507 | N/A | N/A | APPEARS UNLEASED |
| Gretchen J. McKendry 116 London Ave. Fort Walton, FL 32548 | N/A | N/A | APPEARS UNLEASED |
| James Alfred Rushing No Address Ravalli County, MT | N/A | N/A | APPEARS UNLEASED |
| VATEX Holdings, L.L.C. 3535 W. 7 th Street Fort Worth, TX 76107 | N/A | N/A | APPEARS UNLEASED |
| Foundation Minerals, LLC P.O. Box 50820 Midland, TX 79710 | N/A | N/A | APPEARS UNLEASED |
| Mavros Minerals II, LLC P.O. Box 50820 Midland, TX 79710 | N/A | N/A | APPEARS UNLEASED |
| Oak Valley Mineral and Land, LP P.O. Box 50820 Midland, TX 79710 | N/A | N/A | APPEARS UNLEASED |
| TOTALS FOR MINERAL OWNERSHIP | N/A | N/A | |

LEASEHOLD OWNERSHIP

| Interest Owners | W.I. | N.R.I. | Net Acres | Comments |
|--|------------|------------|------------|----------|
| Cantena Resources, LLC and Cantena Resources Operating, LLC 18402 US HWY 281, Suite 258 San Antonio, TX 78259 | N/A | N/A | N/A | |
| WORKING INTEREST TOTALS | N/A | N/A | N/A | |



| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|----------------|-------------|--|---|--|
| QCD | DR | 420/466 | 4/30/1979 | 7/5/1985 | Lucia G. Rushing | Wylie Rushing | Quitclaims ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| MD | DR | 402/269 | 12/28/1982 | 1/20/1983 | John Lee Rushing | Willie Rushing | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| OGL | OG | 367/564 | 1/16/1984 | 1/23/1984 | Bobby G. Parks et ux Gail Parks Lester A. Parks | C. W. Trainer and David M. Trainer | OGL for the SW/4SW/4 of Section 15, 19S-R35E 6 months |
| RDO | MISC | 448/699 | 1/16/1984 | 7/10/1985 | Bobby G. Parks et ux Gail Parks Lester A. Parks | C. W. Trainer and David M. Trainer | Owens 13/160 UDMI |
| OGL | OG | 367/802 | 1/24/1984 | 2/1/1984 | J. E. Simmons Trust A-JSS J. E. Simmons Trust B-MJH Beulah H. Simmons Trust A-JSS Beulah H. Simmons Trust B-MJH | John T. Echols | OGL for the SW/4SW/4 of Section 15, 19S-R35E 2 years |
| OGL | OG | 368/180 | 5/2/1984 | 2/16/1984 | Bill Rushing aka William Rushing | Jerry L. Hooper | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OG | 368/182 | 5/2/1984 | 2/16/1984 | Lennie Rushing widow of Ben Rushing | Jerry L. Hooper | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OG | 368/184 | 5/2/1984 | 2/16/1984 | Benny R. Rushing | Jerry L. Hooper | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OG | 368/186 | 5/2/1984 | 2/16/1984 | Ida Jo Breaux | Jerry L. Hooper | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OG | 368/765 | 5/2/1984 | 3/8/1984 | Wylie Rushing et ux Lucia Rushing, JTWROS | Jerry L. Hooper | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MD | DR | 412/708 | 6/8/1984 | 6/13/1984 | Mary Ann Jenkins | R. F. Fort et ux Juanell Fort | Conveys a 3/640 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |
| MD | DR | 414/898 | 9/20/1984 | 10/5/1984 | Estate of Jay Bert Leck, Deceased | Velta Jean Daigneault Jay Bertrum Leck | Conveys a 1/640 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|--------------------|--------|----------------------|----------------|-------------|--|--|---|
| MD | DR | 417/181 | 2/14/1985 | 1/29/1985 | Jay Bertrum Leck | R. F. Fort et ux Juanell Fort | Conveys a 1/1280 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |
| Interest Agreement | MISC | 447/887 | 6/4/1985 | 6/18/1985 | William P. McIntosh et al. | William P. McIntosh et al. | The 1/2 UDMI is owned as follows: William P. McIntosh - 33/80 Lester Parks - 13/640 Estate of Clara Parks - 13/640 Bobby Parks et ux - 13/320 Velta Jean Daignault - 1/1280 R. F. Fort et ux - 7/1280 |
| AOH | MISC | 467/539 | 8/5/1986 | 8/26/1986 | Ida Jo Breaux | The Public | Ben T. Rushing was survived by his wife Lennie Daniel Rushing and children Ida Jo Breaux and Benny Ross Rushing |
| QCD | DR | 429/661 | 8/15/1986 | 8/26/1986 | Benny Ross Rushing | Lennie Rushing | Quitclaims ARTI in and to the SW/4SW/4 of Section 15, 19S-35E, from Ben T. Rushing |
| QCD | DR | 429/662 | 8/26/1986 | 8/26/1986 | Ida Jo Breaux | Lennie Rushing | Quitclaims ARTI in and to the SW/4SW/4 of Section 15, 19S-35E, from Ben T. Rushing |
| AOH | MISC | 473/468 | 9/9/1986 | 1/9/1987 | Alfred J. Rushing et al. | The Public | William Rushing's interest is owned by the following: Alfred J. Rushing John L. Rushing Wylie Rushing Harry J. Rushing Ida Jo Breaux Benny Rushing Linnie Rushing |
| PR Deed | OPR | 704/537 | 1/18/1996 | 1/24/1996 | Estate of Harry J. Rushing | John L. Rushing Estate of Alfred J. Rushing | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| MD | OPR | 734/242 | 6/6/1996 | 6/25/1996 | Mary Ann Jenkins | Jenkins Family Living Trust dated 11/18/1992 | Conveys a 1/320 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |
| QCMD | OPR | 987/710 | 9/9/1999 | 11/15/1999 | Mary Ann Jenkins | R. F. Fort et ux Juanell Fort | Conveys a 3/640 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |
| DD | OPR | 983/576 | 10/21/1999 | 10/21/1999 | Estate of John Lee Rushing | Ida Jo Breaux James Alfred Rushing | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| QCMD | OPR | 993/41 | 11/12/1999 | 12/9/1999 | Jenkins Family Living Trust dated 11/18/1992 | R. F. Fort et ux Juanell Fort | Conveys a 3/640 UDMI in and under the SW/4SW/4 of Section 15, 19S-35E |
| PR Deed | OPR | 1014/529 | 4/28/2000 | 5/1/2000 | Estate of Alfred Jeff Rushing | Helen Jean Rushing Brillon James Alfred Rushing | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|----------------|-------------|--|--|---|
| TR Deed | OPR | 1089/685 | 7/13/2001 | 7/16/2001 | The William P. And Amolene McIntosh Trust | William P. McIntosh Merry A. McIntosh Dave C. McIntosh Condy A. Polk Marcia M. Tidwell | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| PR Deed | OPR | 1120/374 | 12/17/2001 | 12/21/2001 | Estate of Wylie Rushing, Deceased Estate of Lucia Rushing, Deceased | Stephen W. Rushing Samuel A. Rushing | Conveys all UDMI in Lea Co. |
| AOH | OPR | 1494/464 | 1/29/2007 | 1/31/2007 | Dawn L. Lehan | The Public | Benny Rushing was survived by Sherry Kalonich, Benjamin C. Rushing, Brandy J. Henderson, Gretchen J. McKendry |
| MD | OPR | 2095/106 | 1/1/2017 | 4/6/2017 | Estate of Bobby G. Parks | Janet J. Tidwell Diana K. Hammonds Nancy B. Parks | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| MD | OPR | 2102/156 | 4/13/2017 | 5/3/2017 | Helen Jean Rushing Brillion | Foundation Minerals, LLC Mavros Minerals II, LLC Oak Valley Mineral and Land, LP | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |
| AOH | OPR | 2127/820 | 1/12/2018 | 1/12/2018 | Kathey Breaux Pope | The Public | Ida Jo Breaux was survived by Kathey Pope, Billy J. Breaux, Mark A. Breaux and Teresa A. Teel |
| MOGL | OPR | 2134/793 | 2/20/2018 | 6/1/2018 | Samuel A. Rushing | Resonance Resources, LLC, dba Resonance Resources Energy, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2134/792 | 3/19/2018 | 6/1/2018 | Stephen W. Rushing | Resonance Resources, LLC, dba Resonance Resources Energy, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| AOGL | OPR | 2143/893 | 12/12/2018 | 12/21/2018 | Resonance Resources, LLC, dba Resonance Resources Energy, LLC | Catena Resources Operating, LLC | Assigns ARTI in and to OGL 2134/792 and 2134/793 |
| OGL | OPR | 2147/653 | 2/20/2019 | 3/10/2019 | Marcia M. Tidwell | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2147/656 | 2/20/2019 | 3/10/2019 | Cindy A. Polk | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2148/375 | 2/20/2019 | 3/29/2019 | William P. McIntosh | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|----------------|-------------|---|---------------------------------|--|
| OGL | OPR | 2148/376 | 2/20/2019 | 3/29/2019 | Dave C. McIntosh | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2148/378 | 2/20/2019 | 3/29/2019 | Janet J. Tidwell | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2149/388 | 2/20/2019 | 4/18/2019 | Merry A. McIntosh Living Trust dated 1/4/2004 | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2147/652 | 2/22/2019 | 3/10/2019 | Teresa A. Breaux Teel | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2149/386 | 2/22/2019 | 4/18/2019 | Mark A. Breaux | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2149/387 | 2/22/2019 | 4/18/2019 | Kathey Breaux Pope | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2150/237 | 2/22/2019 | 5/7/2019 | Billy J. Breaux | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2147/655 | 2/26/2019 | 3/10/2019 | Beulah H. Simmons Trust FBO MJ Hand TUA 2/27/75 James E. Simmons Trust FBO MJ Hand TUA 2/27/75 | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2150/236 | 4/2/2019 | 5/7/2019 | Randall R. Fort and Rfort Mineral Properties, LLC Tommy L. Fort Margi Fort Bruns Robert Mitchell Raindl Brent M. Raindl Brandi Raindl Burns Brady Lynn Raindl | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/543 | 4/2/2019 | 5/14/2019 | Margi Fort Bruns | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/544 | 4/2/2019 | 5/14/2019 | Tommy L. Fort | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/545 | 4/2/2019 | 5/14/2019 | Randall R. Fort and Rfort Mineral Properties, LLC | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-------------|--------|----------------------|----------------|-------------|------------------------|---------------------------------|--|
| MOGL | OPR | 2150/546 | 4/2/2019 | 5/14/2019 | Robert Mitchell Raindl | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/547 | 4/2/2019 | 5/14/2019 | Brent M. Raindl | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/548 | 4/2/2019 | 5/14/2019 | Brandi Raindl Burns | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MOGL | OPR | 2150/549 | 4/2/2019 | 5/14/2019 | Brady Lynn Raindl | Catena Resources Operating, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2151/14 | 4/22/2019 | 5/23/2019 | Nancy B. Parks | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| OGL | OPR | 2151/15 | 4/22/2019 | 5/23/2019 | Diana K. Hammonds | Catena Resources, LLC | OGL for the SW/4SW/4 of Section 15, 19S-R35E 3 years |
| MD | OPR | 2155/787 | 7/1/2019 | 9/10/2019 | Velta Jean Daigneault | Vatex Holdings, L.L.C. | Conveys ARTI in and to the SW/4SW/4 of Section 15, 19S-35E |

CURSORY REPORT

PROSPECT: Prairie Sandreed SWD No. 1

REPORT DATE: 1/30/2020

RECORD DATE: 1/1/1981 – 1/8/2020

COUNTY OF: Lea

STATE OF: New Mexico

DESCRIPTION

S/2SW/4 and S/2NE/4 of Section 23
T19S-R35E, NMPM

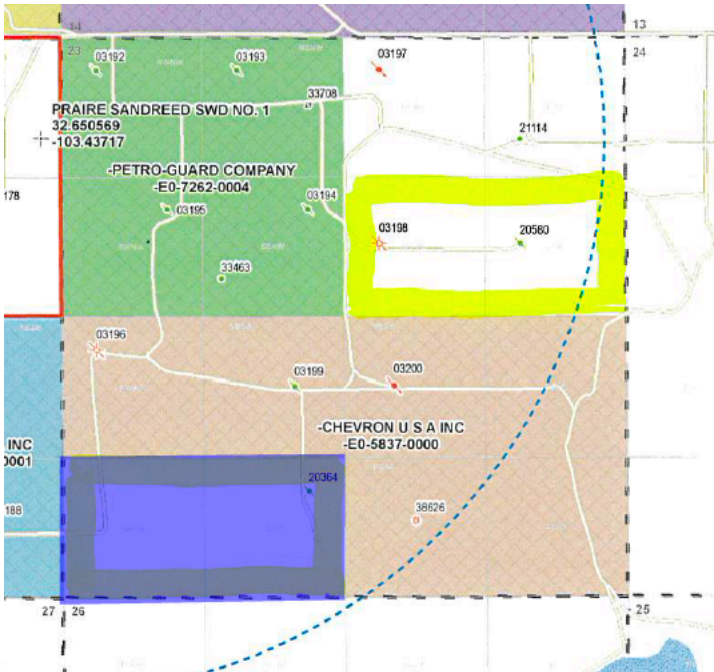
DESCRIPTION: The S/2SW/4 of Section 23, Township 19 South, Range 35 East, NMPM, 80 acres

CURSORY OWNERSHIP

| Name of Mineral Owners | Interest | Net Acres | Leasehold and Expiration Date |
|-------------------------------------|------------|------------|---|
| H. S. Record, et al. | N/A | N/A | HBP Lease Date: 10/16/1951 V/P: OG 97/21 Lessor: Reese Cleveland |
| TOTALS FOR MINERAL OWNERSHIP | N/A | N/A | |

LEASEHOLD OWNERSHIP

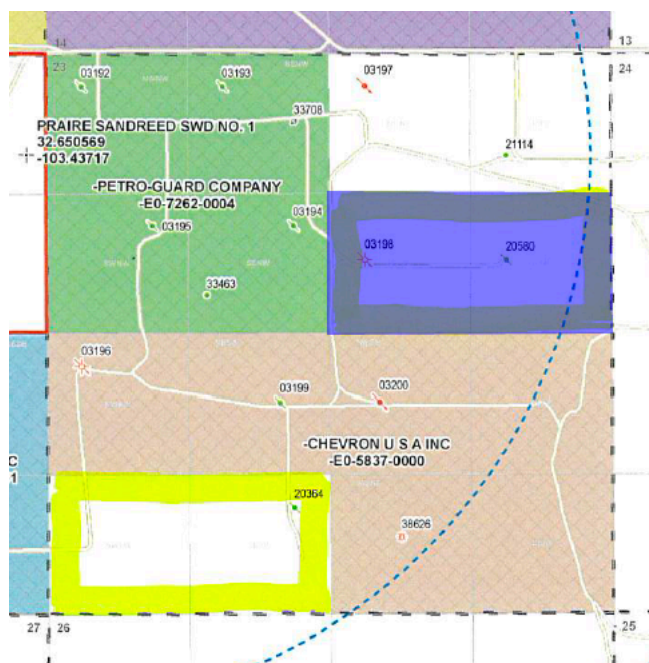
| Interest Owners | W.I. | N.R.I. | Net Acres | Comments |
|---|------------|------------|------------|----------|
| William J. Savage 1345 Eagle Bend Southlake, TX 76092 | N/A | N/A | N/A | |
| Chevron U.S.A. Inc. 6301 Deauville Blvd. Midland, TX 79706 | N/A | N/A | N/A | |
| Ridge Runner Resources Operating, LLC 1004 N. Big Spring, Suite 325 Midland, TX 79701 | N/A | N/A | N/A | |
| Chap Exploration, LLC P.O. Box 3445 Midland, TX 79702 | N/A | N/A | N/A | |
| Mark A. Trieb 1900 McKinney Ave. Apt. 2109 Dallas, TX 75201 | N/A | N/A | N/A | |
| Michelle P. Trieb 4621 Evergreen St. Bellaire, TX 77401 | N/A | N/A | N/A | |
| WORKING INTEREST TOTALS | N/A | N/A | N/A | |



DESCRIPTION: The S/2NE/4 of Section 23, Township 19 South, Range 35 East, NMPM, 80 acres

LEASEHOLD OWNERSHIP

| Interest Owners | W.I. | N.R.I. | Net Acres | Comments |
|--|------------|------------|------------|---|
| Breithurn Operating LP 1111 Bagby St., Ste. 1600 Houston, TX 77002 | N/A | N/A | N/A | *S/2NE/4 is included in the Northeast Pearl Queen Unit. Owner is the unit operator. |
| WORKING INTEREST TOTALS | N/A | N/A | N/A | |



S/2SW/4 Section 23, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico
80 acres

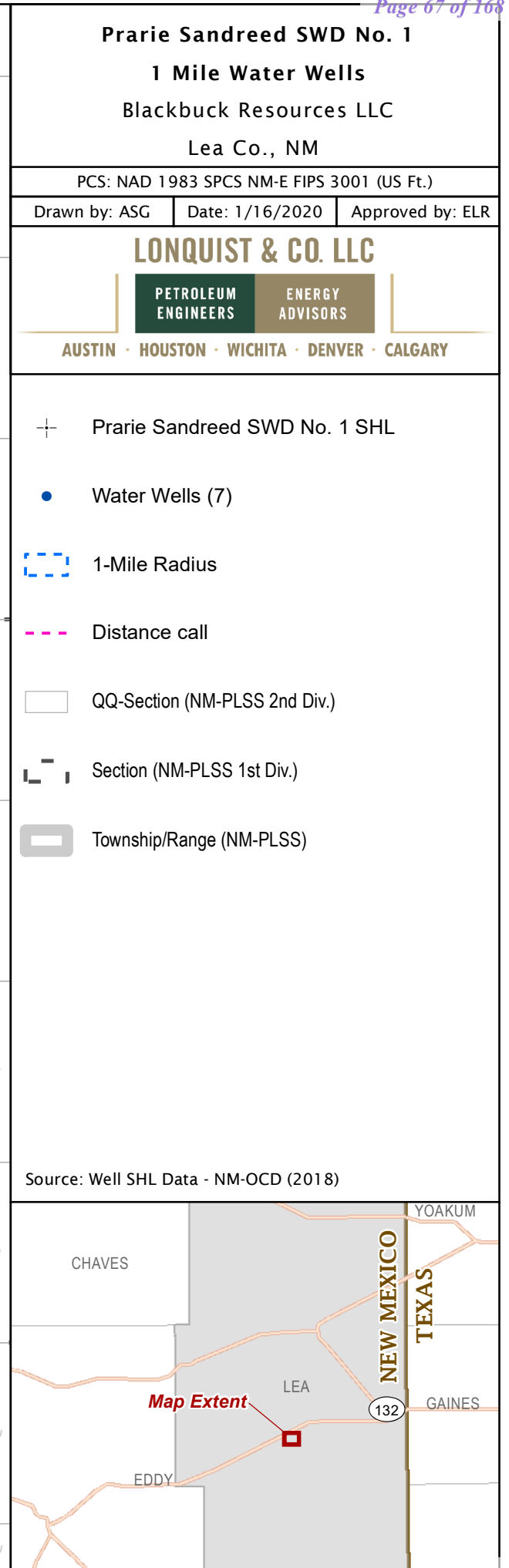
| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|---------------------------|--------|----------------------|----------------|-------------|--|--|--|
| Assignment and Conveyance | OG | 401/451 | 5/1/1986 | 7/28/1986 | Shell Western E&P Inc. | Petrus Oil Company | Assigns ARTI in and to OGL 97/21 covering the S/2SW/4 of Sec. 23, 19S-R35E |
| Name Change | M | 522/27 | 1/3/1990 | 1/5/1990 | Petrus Oil Company | Bridge Oil Company, L.P. | Name Change |
| A/BOS | OG | 456/138 | 11/1/1990 | 11/2/1990 | Bridge Oil Company, L.P. | Merit Energy Partners, L.P. Merit Energy Partners, II, L.P. Merit Energy Partners, III, L.P. | Assigns ARTI in and to OGL 97/21 |
| AOGL | OG | 480/766 | 8/1/1992 | 10/13/1992 | Merit Energy Partners, L.P. Merit Energy Partners, II, L.P. Merit Energy Partners, III, L.P. Merit Energy Company | Amtex Energy, Inc. | Assigns ARTI in and to OGL 97/21 |
| AOGL | OG | 483/565 | 12/30/1992 | 12/31/1992 | Amtex Energy, Inc. | John C. Oxley dba Oxley Petroleum - 1/4 Walter F. Brown - 3/20 McRae Exploration & Production, Inc. - 1/10 Gunn Mineral Trust - 1/20 C.C.G. Enterprises, Inc. - 1/20 Triad Energy Corporation - 1/20 Piper Petroleum - 7/200 MVC, Inc. - 3/100 William J. Savage - 213/1000 Joe F. Mills - 9/500 Raymond G. Clanin - 9/500 Mark A. Trieb - 9/500 Philip C. Vogel - 9/500 | Assigns ARTI in and to OGL 97/21 |
| AOGL | OPR | 758/242 | 9/1/1996 | 10/30/1996 | Triad Energy Corporation | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| AOGL | OPR | 768/268 | 12/31/1996 | 12/27/1996 | John C. Oxley | John C. Oxley, L.L.C. | Assigns ARTI in and to OGL 97/21 |
| Correction AOGL | OPR | 932/373 | 12/31/1996 | 1/22/1999 | John C. Oxley et ux Debby M. Oxley | John C. Oxley, L.L.C. | Corrects 768/268 |
| AOGL | OPR | 782/738 | 1/1/1997 | 3/7/1997 | C.C.G. Enterprises Inc. | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| AOGL | OPR | 782/741 | 1/1/1997 | 3/7/1997 | Curtis C. Gunn, Inc. | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| AOGL | OPR | 782/744 | 1/1/1997 | 3/7/1997 | Gunn Mineral Trust | William J. Savage | Assigns ARTI in and to OGL 97/21 |

S/2SW/4 Section 23, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico
80 acres

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|-----------------|--------|----------------------|----------------|-------------|---|---|--|
| AOGL | OPR | 1023/351 | 6/1/2000 | 6/22/2000 | McRae Exploration & Production, Inc. | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| Merger | OPR | 1426/542 | 1/30/2006 | 2/10/2006 | John C. Oxley, L.L.C. | Chesapeake Exploration Ltd. Partnership | Merger |
| Term Assignment | OPR | 1478/259 | 5/1/2006 | 11/6/2006 | William J. Savage et ux Amy M. Savage Walter F. Brown et ux Lenora P. Brown Piper Petroleum Company MVC, Inc. Joe F. Mills et ux Janet C. Mills Raymond G. Clanin et ux Carolyn T. Clanin Mark A. Trieb et ux Shauna J. Trieb Michelle P. Trieb Phillip C. Vogel et ux Martha D. Vogel | Mewbourne Oil Company | Term Assignment of ARTI in and to OGL 97/21 |
| PAOGL | OPR | 1578/223 | 2/11/2008 | 5/1/2008 | Mewbourne Oil Company | McCombs Energy, Ltd. | Assigns an undivided 25% interest in and to OGL 97/21 |
| PAOGL | OPR | 1641/371 | 3/8/2008 | 7/27/2009 | Mewbourne Oil Company | 3MG Corporation | Assigns an undivided 15% interest in and to OGL 97/21 |
| PAOGL | OPR | 1641/374 | 3/8/2008 | 7/27/2009 | Mewbourne Oil Company | CWM 200-B, Ltd. | Assigns an undivided 20.75% interest in and to OGL 97/21 |
| PAOGL | OPR | 1641/377 | 3/8/2008 | 7/27/2009 | Mewbourne Oil Company | Mewbourne Energy Partners 07-A, L.P. | Assigns an undivided 35% interest in and to OGL 97/21 |
| PAOGL | OPR | 1641/380 | 3/8/2008 | 7/27/2009 | Mewbourne Oil Company | Mewbourne Development Corporation | Assigns an undivided 15% interest in and to OGL 97/21 |
| A/BOS | OPR | 1804/464 | 7/1/2012 | 11/8/2012 | Chesapeake Exploration, L.L.C. | Chevron U.S.A. Inc. | Assigns ARTI in and to OGL 97/21 |
| A/BOS | OPR | 2056/920 | 11/1/2015 | 10/7/2016 | Joe F. Mills et ux Janet C. Mills | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| Assignment | OPR | 2145/500 | 5/20/2016 | 2/1/2019 | Raymond G. Clanin | Ramond G. Clanin and Diana R. Clanin, as Trustees of The Clanin Trust dtd 9/20/1989 | Assigns ARTI in and to all interest in Lea Co. |

S/2SW/4 Section 23, Township 19 South, Range 35 East, NMPM, Lea County, New Mexico
80 acres

| INSTR. TYPE | RECORD | VOL/PG or INSTR. NO. | EFFECTIVE DATE | FILING DATE | GRANTOR | GRANTEE | RESEARCHER'S REMARKS |
|----------------------------|--------|----------------------|----------------|-------------|--|--|--|
| A/BOS | OPR | 2146/94 | 11/1/2018 | 2/14/2019 | Diana R. Clanin, Trustee of The Clanin Trust dtd 9/20/1989 | William J. Savage | Assigns ARTI in and to OGL 97/21 |
| A/BOS | OPR | 2148/644 | 12/31/2018 | 4/4/2019 | Mewbourne Energy Partners 07-A, L.P. | Mewbourne Development Corporation P.O. Box 7698 Tyler, TX 75711 | Assigns ARTI in and to OGL 97/21 |
| A/BOS | OPR | 2147/922 | 1/1/2019 | 3/22/2019 | Walter F. Brown, Jr., IE and Trustee u/w/o Walter F. Brown, Deceased Lenora P. Brown, widow and Trustee u/w/o Walter F. Brown Janet Lattner Brown, fka Janet Brown Barnes, as Trustee u/w/o Walter F. Brown J&W Interests, Ltd. | William J. Savage 1345 Eagle Bend Southlake, TX 76092 | Assigns ARTI in and to OGL 97/21 |
| Reassignment of Int in OGL | OPR | 2146/552 | 2/13/2019 | 2/25/2019 | Mewbourne Oil Company, et al. | William J. Savage et ux Amy M. Savage - 49.9% Piper Petroleum Company - 3.5% MVC, Inc. - 3% Philip C. Vogel et ux Martha D. Vogel - 1.8% Mark A. Trieb et ux Shauna J. Trieb - 0.9% Michelle P. Trieb - 0.9% Walter F. Brown, Jr., Independent Executor of the Estate of Walter F. Brown, Deceased - 7.5% Lenora P. Brown, widow - 7.5% | Reassignment of ARTI in and to OGL 97/21 as it covers the S/2SW/4 of Sec. 23 |
| A/BOS | OPR | 2149/451 | 3/1/2019 | 4/22/2019 | Philip C. Vogel et ux Martha D. Vogel | Chap Exploration, LLC P.O. Box 3445 Midland, TX 79702 | Assigns ARTI in and to OGL 97/21 |
| A/BOS | OPR | 2152/428 | 4/1/2019 | 6/25/2019 | MVC, Inc. | Chap Exploration, LLC P.O. Box 3445 Midland, TX 79702 | Assigns ARTI in and to OGL 97/21 |
| AOGL | OPR | 2152/667 | 6/1/2019 | 7/1/2019 | Piper Petroleum Company | Ridge Runner Resources Operating, LLC 1004 N. Big Spring, Suite 325 Midland, TX 79701 | Assigns ARTI in and to OGL 97/21 |





New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: L 01932 Subbasin: L Cross Reference: -
 Primary Purpose: IRR IRRIGATION
 Primary Status: CAN CANCELLED
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: VIRGIL LINAM

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|----------------------------|--------|-------|------------|--------|-----|-------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | | | | | |
| get images | 508480 | COWNF | 1958-04-22 | CHG | PRC | L-1932 | T | 0 | 0 | |
| get images | 508477 | APPRO | 1953-05-21 | CAN | FIN | L-1932 | T | 0 | 0 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | (NAD83 UTM in meters) | | X | Y | Other Location Desc |
|-------------------------|----------|--------|----|----------|-----------------------|-----|-----|-----|---------------------|
| | | | 64 | Q16Q4Sec | Tws | Rng | | | |
| L 01932 | | | 2 | 1 | 1 | 22 | 19S | 35E | 645319 3613797* |

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

| Priority | Status | Acres | Diversion | Pod Number |
|------------|--------|-------|-----------|-------------------------|
| 01/29/1953 | CAN | 0 | 0 | L 01932 |

Place of Use

| Q | | Q | | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|-----|----|-----|-------|-------|-----------|----|-----|------------|--------|---------------------|
| 256 | 64 | Q16 | Q4Sec | | | | | | | |
| 1 | 22 | 19S | 35E | 0 | 0 | | IRR | 01/29/1953 | CAN | |

Source

| Acres | Diversion | CU | Use | Priority | Source Description |
|-------|-----------|----|-----|------------|--------------------|
| 0 | 0 | | IRR | 01/29/1953 | GW |

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2/4/20 10:49 AM

WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: L 01933 Subbasin: L Cross Reference: -
 Primary Purpose: IRR IRRIGATION
 Primary Status: CAN CANCELLED
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: VIRGIL LINAM

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ | | Acres | Diversion | Consumptive |
|--|------------------------|-----------------------|----------------------------|--------|-----|-------------------|-------|--|-------|-----------|-------------|
| | | | | 1 | 2 | | To | | | | |
| | 508488 | APPRO | 1960-05-09 | CAN | FIN | L-1933 | T | | 0 | 0 | |
| | 508496 | COWNF | 1958-04-22 | CHG | PRC | L-1933 | T | | 0 | 0 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | (NAD83 UTM in meters) | | X | Y | Other Location Desc |
|-------------------------|----------|--------|----|-----|-----------------------|-----|-----|-----|---------------------|
| | | | 64 | Q16 | Q4 | Sec | | | |
| L 01933 | | | 1 | 2 | 3 | 22 | 19S | 35E | 645534 3612995* |

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

| Priority | Status | Acres | Diversion | Pod Number |
|------------|--------|-------|-----------|-------------------------|
| 01/29/1953 | CAN | 0 | 0 | L 01933 |

Place of Use

| Q | Q | | | | | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|-----|----|-----|----|-----|---------|-------|-----------|----|-----|------------|--------|---------------------|
| 256 | 64 | Q16 | Q4 | Sec | Tws Rng | | | | | | | |
| | | 3 | 22 | 19S | 35E | 0 | 0 | | IRR | 01/29/1953 | CAN | |
| | | 4 | 22 | 19S | 35E | 0 | 0 | | IRR | 01/29/1953 | CAN | |

Source

| Acres | Diversion | CU | Use | Priority | Source Description |
|-------|-----------|----|-----|------------|--------------------|
| 0 | 0 | | IRR | 01/29/1953 | GW |

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WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: L 03844 Subbasin: L Cross Reference: -
 Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: MORAN OIL PRODUCING AND DRILLING CORP

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ | | Acres | Diversion | Consumptive |
|--|------------------------|-----------------------|----------------------------|--------|-----|-------------------|-------|--|-------|-----------|-------------|
| | | | | 1 | 2 | | To | | | | |
| | 489660 | 72121 | 1958-05-23 | PMT | LOG | L 03844 | T | | | 3 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | | | | (NAD83 UTM in meters) | | Other Location Desc |
|-------------------------|----------|---------|------------|-----|------------|--------|----------|-----------------------|--|---------------------|
| | | | 64Q16Q4Sec | Tws | Rng | X | Y | | | |
| L 03844 | | Shallow | 1 | 3 | 22 19S 35E | 645232 | 3612891* | | | |

An () after northing value indicates UTM location was derived from PLSS - see Help

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2/4/20 10:48 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: L 04290 Subbasin: L Cross Reference: -
 Primary Purpose: OIL OIL PRODUCTION
 Primary Status: CAN CANCELLED
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: C W TRAINER

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|----------------------------|------------------------|-----------------------|----------------------------|--------|-----|-------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | | | | | |
| get images | 507573 | APPRO | 1962-05-21 | CAN | FIN | L 04290 | T | 0 | 100 | |
| get images | 507430 | 72121 | 1961-01-19 | PMT | APR | L 04290 | T | | 3 | |
| get images | 493162 | 72121 | 1959-10-05 | PMT | LOG | L 04290 | T | | 3 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | (NAD83 UTM in meters) | | X | Y | Other Location Desc |
|-------------------------|----------|---------|----|-----|-----------------------|-----|---------|--------|---------------------|
| | | | 64 | Q16 | Q4Sec | Tws | Rng | | |
| L 04290 | | Shallow | 3 | 4 | 1 | 22 | 19S 35E | 645528 | 3613198* |

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

| Priority | Status | Acres | Diversion | Pod Number | |
|------------|--------|-------|-----------|-------------------------|---------|
| 01/09/1961 | CAN | 0 | 0 | L 04290 | Shallow |

Place of Use

| Q | | Acres | Diversion | CU | Use | Priority | Status | Other Location Desc |
|-----|---------|-------|-----------|----|-----|------------|--------|---------------------|
| 256 | 64 | | | | | | | |
| Q16 | Q4Sec | 0 | 0 | | OIL | 01/09/1961 | CAN | |
| 22 | 19S 35E | | | | | | | |

Source

| Acres | Diversion | CU | Use | Priority | Source Description |
|-------|-----------|----|-----|------------|--------------------|
| 0 | 0 | | OIL | 01/09/1961 | GW |

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2/4/20 10:48 AM

WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: L 04583 Subbasin: L Cross Reference: -
 Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: GACKLE DRILLING COMPANY

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|----------------------------|--------|-------|------------|--------|-----|--------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | | | | | |
| get images | 495299 | 72121 | 1962-02-15 | PMT | APR | L 04583 | T | | 3 | |
| get images | 495295 | 72121 | 1962-01-18 | PMT | APR | L 04583 (T EXPIRE) | T | | 3 | |
| get images | 495289 | 72121 | 1961-01-16 | PMT | LOG | L 04583 | T | | 3 | |

Current Points of Diversion

(NAD83 UTM in meters)
 Q
 POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc
[L 04583](#) Shallow 4 3 15 19S 35E 645617 3614107*

An () after northing value indicates UTM location was derived from PLSS - see Help

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2/4/20 10:45 AM

WATER RIGHT SUMMARY




New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: L 04625 Subbasin: L Cross Reference: -
 Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 3 Cause/Case: -
 Owner: THELMA A. LINAM

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|---|--------|-------|------------|--------|-----|-------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | | | | | |
|  get images | 495901 | 72121 | 1961-04-13 | PMT | APR | L 04625 | T | | 3 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | (NAD83 UTM in meters) | | X | Y | Other Location Desc |
|-------------------------|----------|--------|------------|--------------|-----------------------|--|--------|----------|---|
| | | | 64Q16Q4Sec | Tws Rng | | | | | |
| L 04625 | | | 3 | 3 15 19S 35E | | | 645214 | 3614102* |  |

An () after northing value indicates 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.

2/4/20 10:51 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: L 06801 Subbasin: L Cross Reference: -
 Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 3 Cause/Case: -
 Owner: CLARA FOWLER

Documents on File

| | Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ | | Acres | Diversion | Consumptive |
|--|------------------------|-----------------------|----------------------------|--------|-----|-------------------|-------|--|-------|-----------|-------------|
| | | | | 1 | 2 | | To | | | | |
| | 511032 | 72121 | 1971-05-10 | PMT | LOG | L 06801 | T | | | 3 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | (NAD83 UTM in meters) | | X | Y | Other Location Desc |
|-------------------------|----------|--------|------------|------------|-----------------------|--------|----------|---|---------------------|
| | | | 64Q16Q4Sec | Tws Rng | | | | | |
| L 06801 | | | 3 | 14 19S 35E | | 647027 | 3614322* | | S/2 |

An () after northing value indicates UTM location was derived from PLSS - see Help

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2/4/20 10:50 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: L 09468 Subbasin: L Cross Reference: -
 Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 3 Cause/Case: -
 Owner: VIRGIL LINAM ESTATE
 Contact: FAYE L. KLEIN

Documents on File

| | Trn # | Doc | File/Act | Status | | | From/ To | Acres | Diversion | Consumptive |
|----------------------------|------------------------|-----------------------|----------------------------|--------|-----|---------------------|-------------|-------|-----------|-------------|
| | | | | 1 | 2 | Transaction Desc. | | | | |
| get images | 516760 | 72121 | 1986-03-24 | PMT | APR | L 09468 | T | | 3 | |
| get images | 516757 | 72121 | 1985-02-21 | EXP | EXP | L 09468 (T) EXPIRED | T | | 3 | |
| get images | 516755 | COWNF | 1985-02-21 | CHG | PRC | L 09468 | T | | 0 | |
| get images | 516753 | 72121 | 1984-04-25 | PMT | LOG | L 09468 (T) EXPIRED | T | | 3 | |

Current Points of Diversion

| POD Number | Well Tag | Source | Q | | | (NAD83 UTM in meters) | | | Other Location Desc |
|-------------------------|----------|---------|------------|-----|------------|-----------------------|----------|--|---------------------|
| | | | 64Q16Q4Sec | Tws | Rng | X | Y | | |
| L 09468 | | Shallow | 3 | 3 | 15 19S 35E | 645214 | 3614102* | | 400'FSL, 600'FWL |

An () after northing value indicates 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.

2/4/20 10:49 AM

WATER RIGHT SUMMARY

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
January 23, 2020
and ending with the issue dated
January 23, 2020.



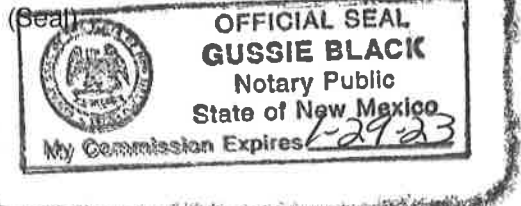
Publisher

Sworn and subscribed to before me this
23rd day of January 2020.



Business Manager

My commission expires
January 29, 2023



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

LEGALS**LEGAL NOTICE
JANUARY 23, 2020**

Blackbuck Resources LLC, located at 2601 Westheimer Road, C210, Houston, TX, 77098, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Prairie Sandreed Fee SWD No. 1. The proposed well will be located at 1,000' FNL and 200' FEL in Section 22, Township 19S, Range 35E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Silurian Formation (determined by offset log analysis) through an open hole completion between an applied for top of 13,588 feet to a maximum depth of 15,388 feet. The maximum surface injection pressure will not exceed 2,718 psi with a maximum rate of 25,000 BWP.D. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained from the applicant's agent, Lonquist & Co., LLC, at (512) 600-1764.
#35112

67112661

00238608

LONQUIST & CO., LLC
12912 HILL COUNTRY BLVD, STE F200
AUSTIN, TX 78738

LONQUIST & CO. LLC**PETROLEUM
ENGINEERS****ENERGY
ADVISORS****AUSTIN • HOUSTON • WICHITA • DENVER • CALGARY****DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO**

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

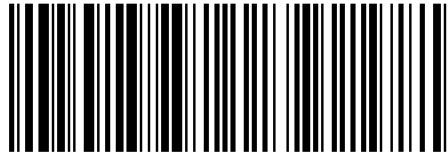
Notices were sent for the Prairie Sandreed Fee SWD No. 1 application by mailing them a copy of Form C-108 on 2/7/2020. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.



Tyler Moehlman
Petroleum Engineer

Project: Blackbuck Resources, LLC
 Prairie Sandreed Fee SWD No. 1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5700 51

RETURN RECEIPT (ELECTRONIC)

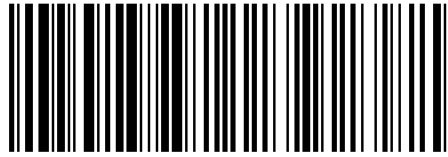


Total Postage: \$6.85

BENJAMIN C RUSHING
55 CALDWELL DRIVE
2158-PRAIRIE SANDREED FEE SWD #1
PIKEVILLE, KY 41506

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5700 68

RETURN RECEIPT (ELECTRONIC)

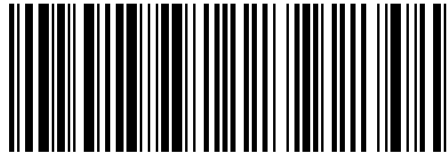


Total Postage: \$6.85

BRANDY J HENDERSON
PO BOX 4442
2158-PRAIRIE SANDREED FEE SWD #1
PENSACOLA, FL 32507

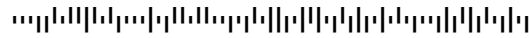
Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5700 75

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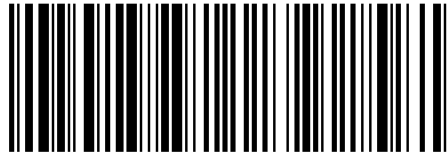


Total Postage: \$6.85

BREITBURN OPERATING LP
1675 BROADWAY
28TH FLOOR
2158-PRAIRIE SANDREED FEE SWD #1
DENVER, CO 80202

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5700 82

RETURN RECEIPT (ELECTRONIC)

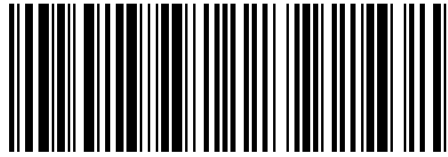


Total Postage: \$6.85

BREITBURN OPERATING LP
1111 BAGBY ST
SUITE 1600
2158-PRAIRIE SANDREED FEE SWD #1
HOUSTON, TX 77002

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5700 99

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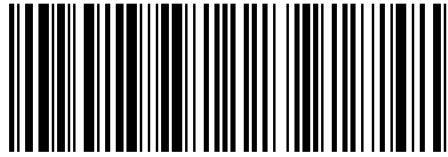


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BUREAU OF LAND MGMT
301 DINOSAUR TRAIL
2158-PRAIRIE SANDREED FEE SWD #1
SANTA FE, NM 87508

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 05

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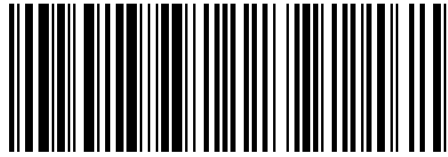


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CATENA RESOURCES OPERATING LLC
18402 US HWY 281 N
SUITE 258
2158-PRAIRIE SANDREED FEE SWD #1
SAN ANTONIO, TX 78259

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 12

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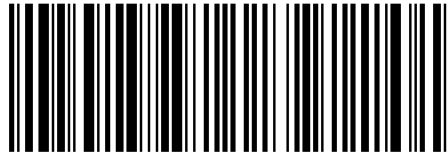


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CHEVRON USA INC
6301 DEAUVILLE BLVD
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79706

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 29

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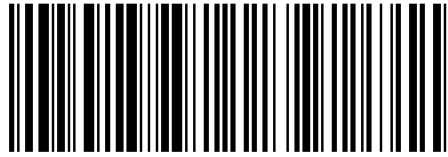


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CHAP EXPLORATION LLC
PO BOX 3445
SUITE 206
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79702

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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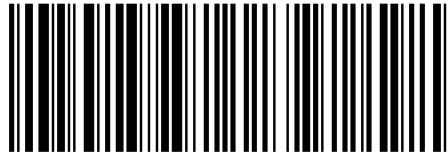


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COLLINS PERMIAN LP
PO BOX 27
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79702

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 43

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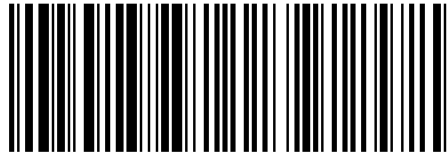


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COMEY CAROL JACOBS
1081 JADE CV
2158-PRAIRIE SANDREED FEE SWD #1
OAK POINT, TX 75068-2262

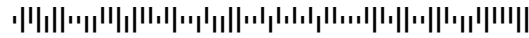
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Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 50

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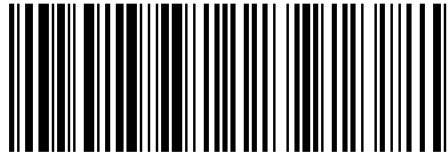


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CTH ROYALTIES LLC
PO BOX 52521
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79710

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 67

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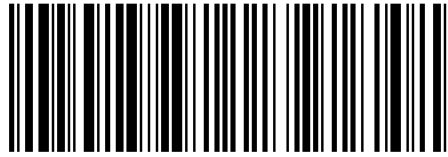


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FEATHERSTONE DEVELOPMENT CORP
1801 W 2ND ST
2158-PRAIRIE SANDREED FEE SWD #1
ROSWELL, NM 88201

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 74

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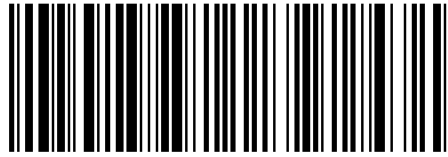


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FOUNDATION MINERALS LLC
OAK VALLEY MINERAL AND LAND LP
PO BOX 58020
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79710

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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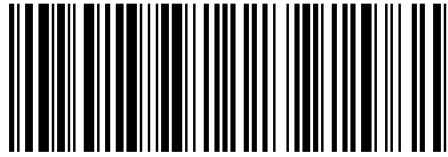


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GRETCHEN J MCKENDRY
116 LONDON AVE
2158-PRAIRIE SANDREED FEE SWD #1
FT WALTON, FL 32548

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5701 98

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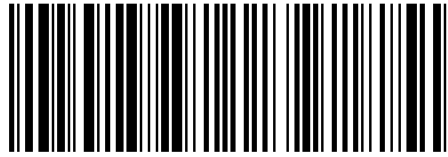


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JACOBS LAURIE LYNN (SLO)
15796 I AND GN ROAD
2158-PRAIRIE SANDREED FEE SWD #1
COLLEGE STATION, TX 77845-6835

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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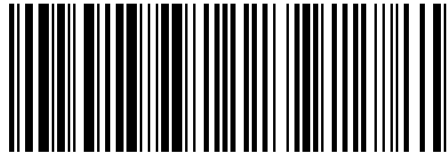


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JWD RESOURCES LLC
NM ROYALTY LLC
PO BOX 51908
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79710

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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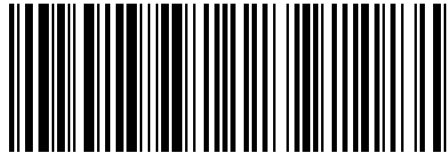


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L&K RANCH LLC
PO BOX 1503
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HOBBS, NM 88241

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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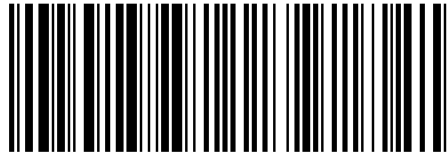


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MAGNUM HUNTER PRODUCTION INC
600 N MARIENFELD STREET
SUITE 600
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79701

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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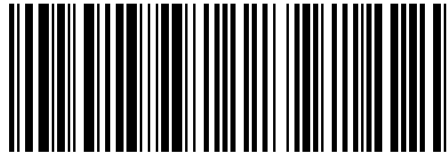


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MARK A TRIEB
1900 MCKINNEY AVE
APT 2109
2158-PRAIRIE SANDREED FEE SWD #1
DALLAS, TX 75201

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5702 42

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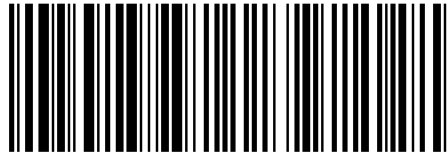


Total Postage: \$6.85

MAVROS MINERAL II LLC
PO BOX 50820
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79710

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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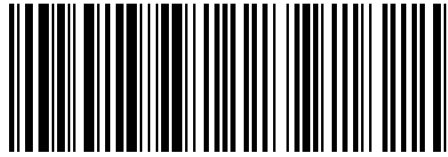


Total Postage: \$6.85

MEWBOURNE OIL CO
PO BOX 5270
2158-PRAIRIE SANDREED FEE SWD #1
HOBBS, NM 88241

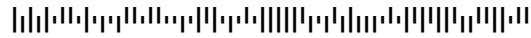
Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5702 66

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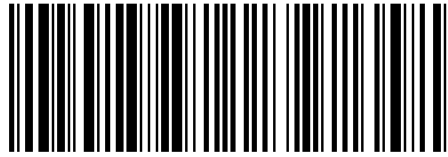


Total Postage: \$6.85

MICHELLE P TRIEB
4621 EVERGREEN STREET
2158-PRAIRIE SANDREED FEE SWD #1
BELLAIRE, TX 77401

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5702 73

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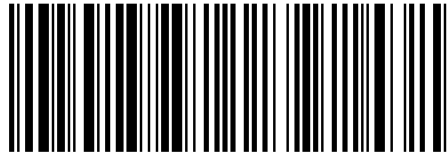


Total Postage: \$6.85

MRC PERMIAN COMPANY
5400 LBJ FREEWAY
SUITE1500
2158-PRAIRIE SANDREED FEE SWD #1
DALLAS, TX 75240

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5702 80

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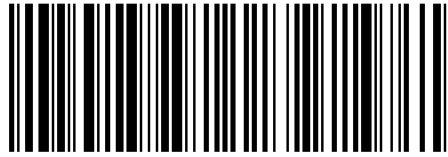


Total Postage: \$6.85

NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
2158-PRAIRIE SANDREED FEE SWD #1
SANTA FE, NM 87501

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5702 97

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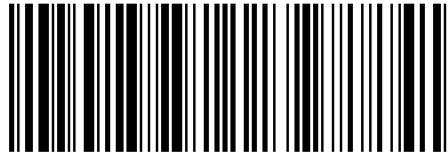


Total Postage: \$6.85

OIL CONSERVATION DIVISION
DISTRICT I
1625 N FRENCH DRIVE
2158-PRAIRIE SANDREED FEE SWD #1
HOBBS, NM 88240

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 03

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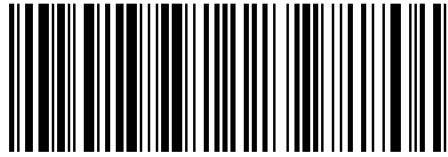


Total Postage: \$6.85

OXY USA INC
PO BOX 4294
2158-PRAIRIE SANDREED FEE SWD #1
HOUSTON, TX 77210

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 10

RETURN RECEIPT (ELECTRONIC)

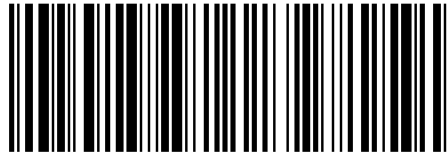


Total Postage: \$6.85

PETRO-GUARD COMPANY
2450 FONDREN RD
SUITE 105
2158-PRAIRIE SANDREED FEE SWD #1
HOUSTON, TX 77063

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 27

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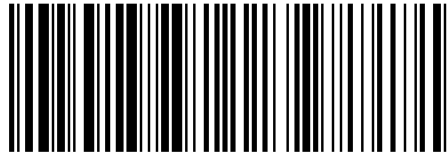


Total Postage: \$6.85

RIDGE RUNNER RESOURCES OPERATING LLC
1004 N BIG SPRING
SUITE 325
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79701

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 34

RETURN RECEIPT (ELECTRONIC)

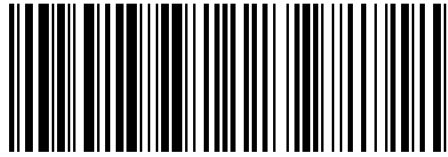


Total Postage: \$6.85

ROBERT H FORREST JR OIL LLC
609 ELORA DR
2158-PRAIRIE SANDREED FEE SWD #1
CARLSBAD, NM 88220

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 41

RETURN RECEIPT (ELECTRONIC)

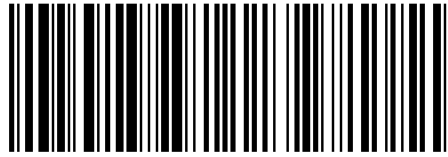


Total Postage: \$6.85

MARGARET L SCOTT
2837 WESTVIEW TRL
2158-PRAIRIE SANDREED FEE SWD #1
PARK CITY , UT 84098-6251

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 58

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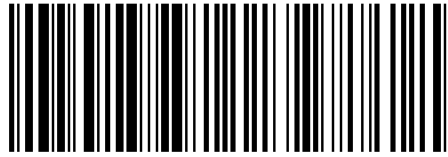


Total Postage: \$6.85

SHERRY KALONICH
164 HUDLOW ROAD
2158-PRAIRIE SANDREED FEE SWD #1
DUNLAP, TN 37327

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 65

RETURN RECEIPT (ELECTRONIC)

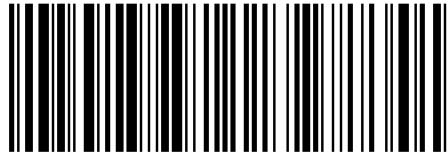


Total Postage: \$6.85

SLASH EXPLORATION LP
ARMSTRONG ENERGY COR
PO BOX 1973
2158-PRAIRIE SANDREED FEE SWD #1
ROSWELL, NM 88202

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 72

RETURN RECEIPT (ELECTRONIC)

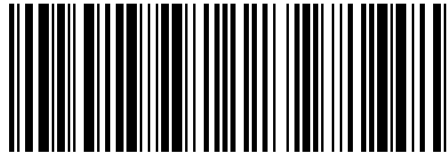


Total Postage: \$6.85

VATEX HOLDINGS LLC
3535 W 7TH STREET
2158-PRAIRIE SANDREED FEE SWD #1
FT WORTH, TX 76107

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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RETURN RECEIPT (ELECTRONIC)

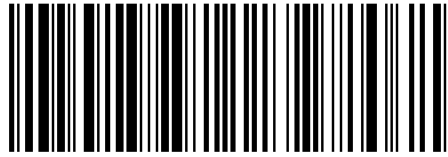


Total Postage: \$6.85

WALLACE FAMILY PARTNERSHIP LP
508 W WALL STREET
SUITE 1200
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79701

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5703 96

RETURN RECEIPT (ELECTRONIC)

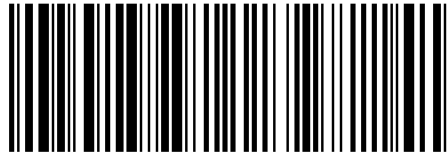


Total Postage: \$6.85

WBA RESOURCES LTD
PO BOX 50468
2158-PRAIRIE SANDREED FEE SWD #1
MIDLAND, TX 79701

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5704 02

RETURN RECEIPT (ELECTRONIC)

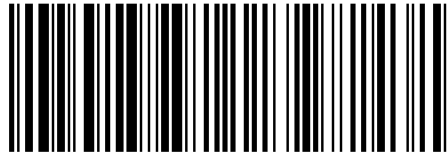


Total Postage: \$6.85

WILLIAM J SAVAGE
1345 EAGLE BEND
2158-PRAIRIE SANDREED FEE SWD #1
SOUTHLAKE, TX 76092

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



9314 8699 0430 0068 5704 19

RETURN RECEIPT (ELECTRONIC)



Total Postage: \$6.85

WPX ENERGY PERMIAN LLC
3500 ONE WILLIAMS CENTER
2158-PRAIRIE SANDREED FEE SWD #1
TULSA, OK 74172

Reference Number: 2158-PRAIRIE SANDREED FEE SWD #1

February 14, 2020

BENAJMIN C. RUSHING
55 CALDWELL DRIVE
PIKEVILLE, KY 41506

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Any questions should be directed towards Blackbuck Resources LLC's agent, Lonquist & Co., LLC.

Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

BRANDY J. HENDERSON
P.O. BOX 4442
PENSACOLA, FL 32507

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

BREITBURN OPERATING LP
1675 Broadway, 28th Floor
Denver, CO 80202

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

February 14, 2020

BRIETBURN OPERATING LP
1111 BAGBY ST., SUITE 1600
HOUSTON, TX 77002

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

BUREAU OF LAND MANAGEMENT
301 Dinosaur Trail
Santa Fe, NM 87508

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

February 14, 2020

Catena Resources Operating, LLC
18402 US Hwy 281 N Suite 258
San Antonio, TX 78259

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

CEVRON U S A INC
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

CHAP EXPLORATION LLC
P. O. BOX 3445
MIDLAND, TX 79702

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

February 14, 2020

COLLINS PERMIAN, LP
P.O. BOX 27
MIDLAND, 79702

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

COMEY CAROL JACOBS
1081 JADE CV
OAK POINT TX 750682262

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

CTH ROYALTIES , LLC
P.O. BOX 52521
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

FAITH CROSBY
OGMD/WATER
NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
SANTA FE, NM 87501

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

FEATHERSTONE DEVELOPMENT CORPORATION
1801 W 2ND ST.
ROSWELL, NM 88201

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

FOUNDATION MINERALS, LLC
P.O. BOX 50820
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

GRETCHEN J. MCKENDRY
116 LONDON AVE.
FORT WALTON, FL 32548

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

JACOBS LAURIE LYNN (SLO)
15796 I AND GN RD
COLLEGE STATION TX 778456835

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

JWD RESOURCES, LLC
P.O. BOX 51908
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

L & K RANCH LLC
PO BOX 1503
HOBBS, NM 88241

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MAGNUM HUNTER PRODUCTION, INC.
600 N MARIENFELD STREET, SUITE 600
MIDLAND, TX 79701

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MARK A. TRIEB
1900 MCKINNEY AVE. APT 2109
DALLAS, TX 75201

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MAVROS MINERAL II, LLC
P.O. BOX 50820
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Blackbuck Resources LLC's Prairie Sandreed Fee SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

According to the New Mexico Oil Conservation Division, surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date in which this application was mailed to them.

Any questions should be directed towards Blackbuck Resources LLC's agent, Lonquist & Co., LLC.

Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MEWBOURNE OIL CO
P.O. Box 5270
Hobbs, NM 88241

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MICHELLE P. TRIEB
4621 EVERGREEN ST.
BELLAIRE, TX 77401

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

MRC PERMIAN COMPANY
5400 LBJ FWY, SUITE 1500
DALLAS, TX 75240

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
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(512) 600-1764
chris@lonquist.com

February 14, 2020

NEW MEXICO STATE LAND OFFICE
310 OLD SANTA FE TRAIL
SANTA FE, NM 87501

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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chris@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

February 14, 2020

NM ROYALTY, LLC
P.O. BOX 51908
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

OAK VALLEY MINERAL AND LAND, LP
P.O. BOX 50820
MIDLAND, TX 79710

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

OIL CONSERVATION DIVISION DISTRICT I
1625 N. French Drive
Hobbs, New Mexico 88240

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

OIL CONSERVATION DIVISION DISTRICT IV
1220 S ST FRANCIS DR
SANTA FE, NM 87505

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

OXY USA INC
PO BOX 4294
HOUSTON, TX 77210

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

PETRO-GUARD COMPANY
2450 FONDREN RD., SUITE 105
HOUSTON, TX 77063

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

RIDGE RUNNER RESOURCES OPERATING, LLC
1004 N. BIG SPRING, SUITE 325
MIDLAND, TX 79701

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Staff Engineer
Lonquist & Co., LLC

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chris@lonquist.com

LONQUIST & CO. LLC

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HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

February 14, 2020

ROBERT H FORREST JR OIL LLC
609 Elora Dr.
Carlsbad, NM 88220

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

SCOTT MARGARET L
2837 WESTVIEW TRL
PARK CITY UT 840986251

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

SHERRY KALONICH
164 HUDLOW ROAD
DUNLAP, TN 37327

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

SLASH EXPLORATION LP AND
ARMSTRONG ENERGY COR
P.O. BOX 1973
ROSWELL, NM 88202

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

VATEX HOLDINGS, LLC
3535 W. 7TH STREET
FORT WORTH, TX 76107

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

WALLACE FAMILY PARTNERSHIP, LP
508 W. WALL ST., SUITE 1200
MIDLAND, TX 79701

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

WBA RESOURCES, LTD
P.O. BOX 50468
MIDLAND, TX 79701

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

WILLIAM J SAVAGE
1345 EAGLE BEND
SOUTHLAKE, TX 76092

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

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Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co., LLC

(512) 600-1764
chris@lonquist.com

February 14, 2020

WPX Energy Permian, LLC
3500 One Williams Center
Tulsa, OK 74172

Subject: Prairie Sandreed Fee SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Lonquist & Co., LLC

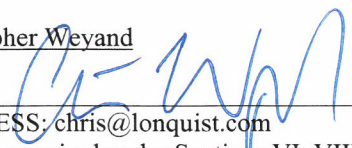
(512) 600-1764
chris@lonquist.com

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: Blackbuck Resources, LLC
ADDRESS: 2601 Westheimer Rd, C210, Houston, TX, 77098
CONTACT PARTY: Barry Riley PHONE: 979-575-8802
- 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 _____ ☒ 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: Christopher Weyand TITLE: Consulting Engineer – Agent for Blackbuck Resources
SIGNATURE:  DATE: 2/6/2020
E-MAIL ADDRESS: chris@lonquist.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

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.

INJECTION WELL DATA SHEET

OPERATOR: Blackbuck Resources, LLCWELL NAME & NUMBER: Prairie Sandreed Fee SWD No. 1WELL LOCATION: 1,000' FNL 200' FEL
FOOTAGE LOCATIONA
UNIT LETTER22
SECTION19S
TOWNSHIP35E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 26"Casing Size: 20"Cemented with: 3,884 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 17-1/2"Casing Size: 13-3/8"Cemented with: 2,430 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12-1/4"Casing Size: 9-5/8"Cemented with: 2,126 sks*or* _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8-1/2"Casing Size: 7-5/8"Cemented with: 309 sks*or* _____ ft³Top of Cement: 9,613'Method Determined: calculationTotal Depth: 15,388'Injection Interval13,588 feet to 15,388 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 23 lb/ft, P-110, UFJ from 0' - 13,538'

Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim
Packer Setting Depth: 13,538'

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

Additional Data

1. Is this a new well drilled for injection? X Yes No

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Devonian, Silurian, Fusselman

3. Name of Field or Pool (if applicable): SWD; Devonian-Silurian 97869

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.

No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Delaware Mountain Group: 5,696'

Bone Spring: 7,557'

Wolfcamp: 9,913'

Strawn: 11,411'

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|---|--|-------------------------------------|
| ¹ Operator Name and Address BLACKBUCK RESOURCES, LLC 2601 WESTHEIMER RD. C210 HOUSTON, TX 77098 | | ² OGRID Number 373619 |
| | | ³ API Number 30-025- |
| ⁴ Property Code | ⁵ Property Name PRAIRIE SANDREED FEE SWD | ⁶ Well No. 1 |

⁷ Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| A | 22 | 19S | 35E | | 1,000 | N | 200 | E | LEA |

⁸ Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| - | - | - | - | | - | - | - | - | - |

⁹ Pool Information

| | |
|-------------------------------------|--------------------|
| Pool Name SWD; DEVONIAN-SILURIAN | Pool Code 97869 |
|-------------------------------------|--------------------|

Additional Well Information

| | | | | |
|------------------------------|--|--|---|--|
| ¹¹ Work Type N | ¹² Well Type SWD | ¹³ Cable/Rotary R | ¹⁴ Lease Type Private | ¹⁵ Ground Level Elevation 3,768.5' |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 15,388' | ¹⁸ Formation Devonian-Silurian | ¹⁹ Contractor TBD | ²⁰ Spud Date ASAP |
| Depth to Ground water 22' | Distance from nearest fresh water well 2,718' | | Distance to nearest surface water > 1 mile | |

☒ We will be using a closed-loop system in lieu of lined pits²¹ Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|--------------|-----------|-------------|------------------|------------------|-----------------|---------------|
| Surface | 26" | 20" | 94 lb/ft | 1,670' | 3,884 | Surface |
| Intermediate | 17-1/2" | 13-3/8" | 68 lb/ft | 5,696' | 2,430 | Surface |
| Production | 12-1/4" | 9-5/8" | 53.5 lb/ft | 9,913' | 2,126 | Surface |
| Liner | 8-1/2" | 7-5/8" | 39 lb/ft | 9,613' - 13,588' | 309 | 9,613' |

Casing/Cement Program: Additional Comments

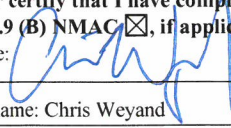
| |
|-------------------------|
| See attached schematic. |
|-------------------------|

²² Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|-------------------------------|------------------|---------------|------------------------|
| Double Hydraulic/Blinds, Pipe | 8,000 psi | 10,000 psi | TBD - Schaffer/Cameron |

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature: 

Printed name: Chris Weyand

Title: Consulting Engineer

E-mail Address: chris@lonquist.com

Date: February 7, 2020

Phone: 512-600-1764

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazon Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---|---|
| ¹ API Number | ² Pool Code 97869 | ³ Pool Name SWD; Silurian-Devonian |
| ⁴ Property Code | ⁵ Property Name PRAIRIE SANDREED FEE SWD | ⁶ Well Number #1 |
| ⁷ OGRID No. 308339 | ⁸ Operator Name BLACKBUCK RESOURCES | ⁹ Elevation 3768.5' |

"Surface Location

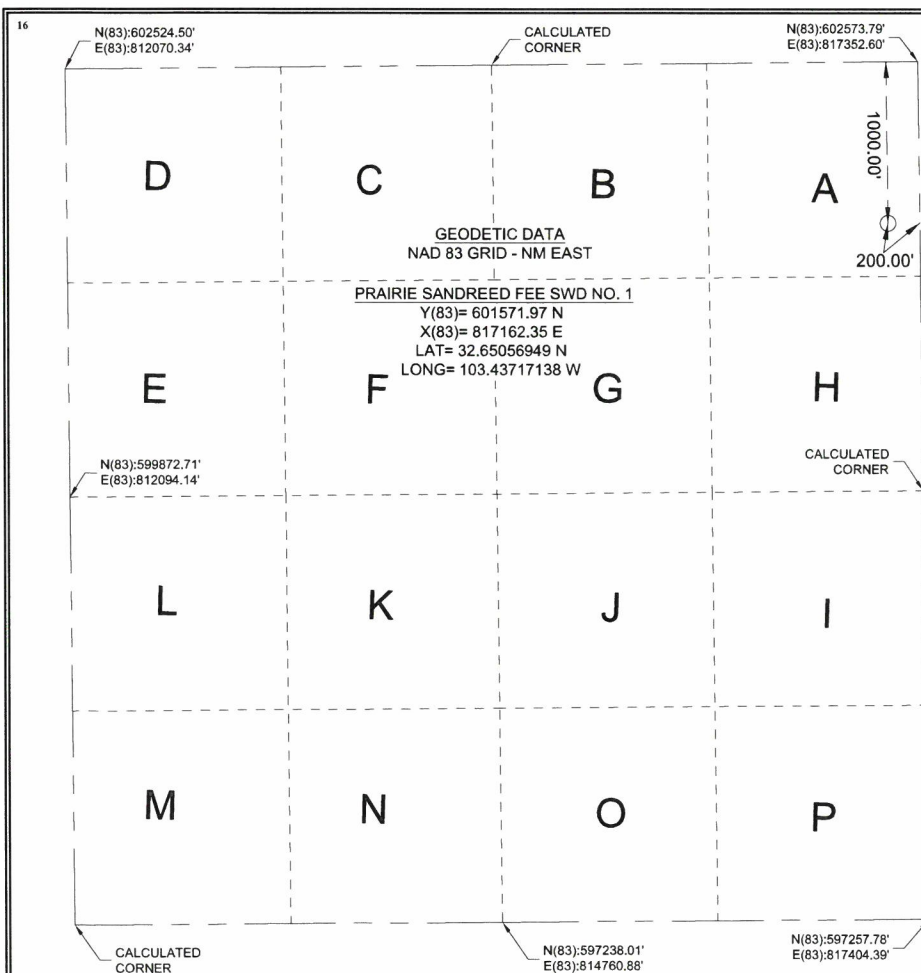
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| A | 22 | 19 S | 35 E | | 1000 | NORTH | 200 | EAST | LEA |

"Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

| | | | |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
| | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

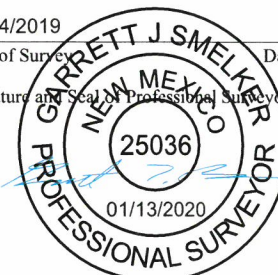
Signature Chris Weyand Date 2/7/2020
Printed Name Chris Weyand Date
Email Address Chris@longquist.com Date

¹⁸ SURVEYOR CERTIFICATION

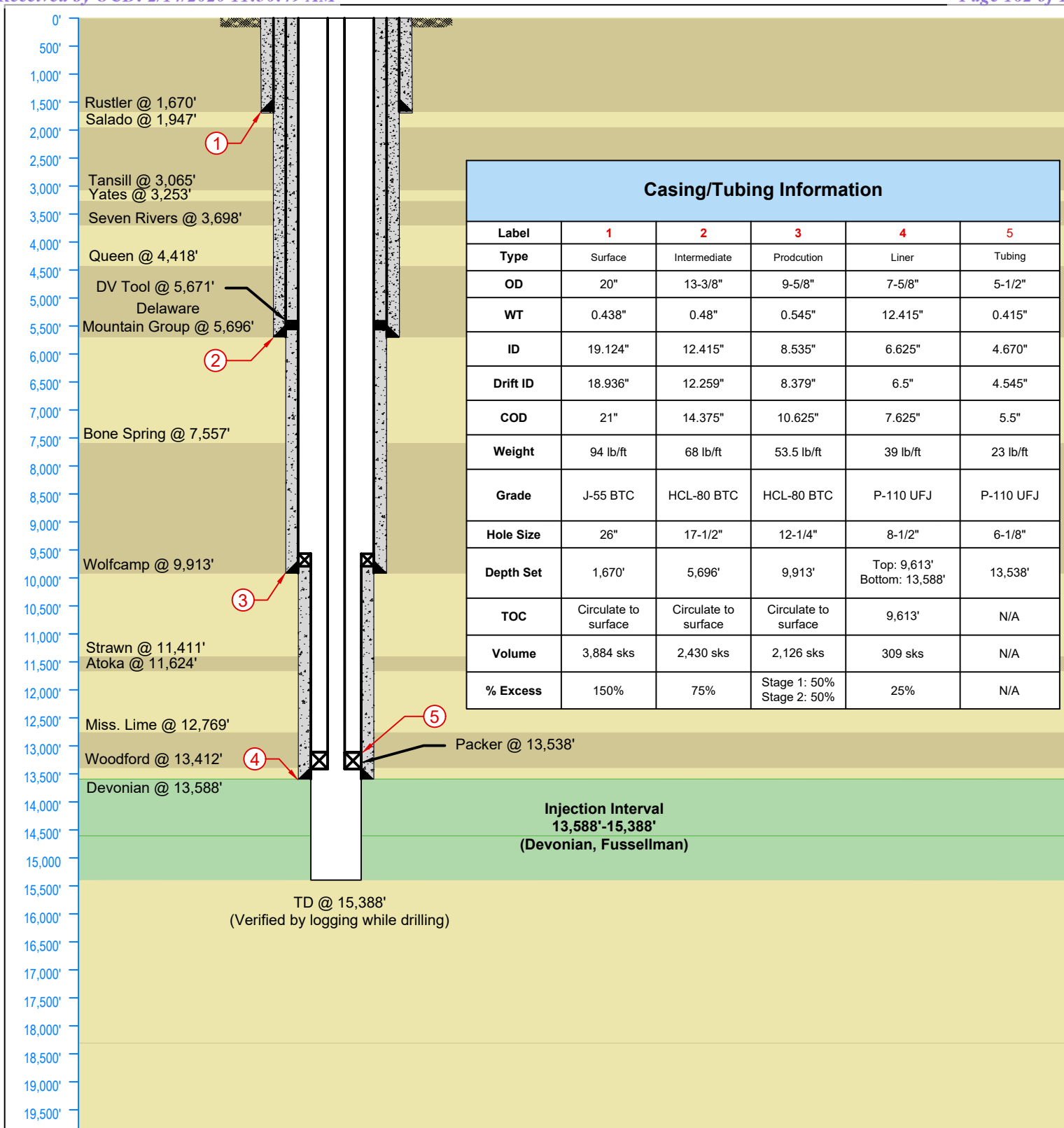
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

09/24/2019 Date of Survey
Signature and Seal of Professional Surveyor: Garrett J Smelker Date

Signature and Seal of Professional Surveyor: Garrett J Smelker Date



Certificate Number



| | | | | |
|---|--------------------------|--|--------------------------------|-----------------------|
| LONQUIST & CO. LLC PETROLEUM ENGINEERS ENERGY ADVISORS HOUSTON CALGARY AUSTIN WICHITA DENVER Texas License F-9147 12912 Hill Country Blvd. Ste F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816 | Blackbuck Resources, LLC | | Prairie Sandreed Fee SWD No. 1 | |
| | Country: USA | | State/Province: New Mexico | County/Parish: Lea |
| | Location: | | Site: 1,000' FNL & 200 FEL | Survey: S23-T19S-R35E |
| | API No: N/A | | Field: Devonian-Silurian | Well Type/Status: SWD |
| | NMOCD District No: 1 | | Project No: 2158 | Date: 1/22/2020 |
| | Drawn: TFM | | Reviewed: CBW | Approved: CBW |
| | Rev No: 1 | | Notes: | |



Blackbuck Resources, LLC

Prairie Sandreed Fee SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

| Well information | |
|-------------------------|--------------------------|
| Lease Name | Prairie Sandreed Fee SWD |
| Well No. | 1 |
| Location | S-22 T-19S R-35E |
| Footage Location | 1,000' FNL & 200' FEL |

2.

a. Wellbore Description

| Type | Surface | Intermediate | Production | Liner |
|------------------|----------|--------------|------------|------------------|
| OD | 20" | 13-3/8" | 9-5/8" | 7-5/8" |
| WT | 0.438" | 0.480" | 0.545" | 0.500" |
| ID | 19.124" | 12.415" | 8.535" | 6.625" |
| Drift ID | 18.936" | 12.259" | 8.379" | 6.5" |
| COD | 21" | 14.375" | 10.625" | 7.625" |
| Weight | 94 lb/ft | 68 lb/ft | 53.5 lb/ft | 39 lb/ft |
| Grade | J-55 BTC | HCL-80 BTC | HCL-80 BTC | P-110 UFJ |
| Hole Size | 26" | 17-1/2" | 12-1/4" | 8-1/2" |
| Depth Set | 1,670' | 5,696' | 9,913' | 9,613' – 13,588' |

b. Cementing Program

| Casing String | Surface | Intermediate | Production | Liner |
|---------------------|--------------|--------------|--|--------------|
| Lead Cement | HalCem | NeoCem | Stage 1: NeoCem Stage 2: NeoCem | Versacem |
| Lead Cement Volume | 2,847 sks | 1,961 sks | Stage 1: 466 sks Stage 2: 1,008 sks | 331 sks |
| Lead Cement Density | 13.7 lbm/gal | 11 lbm/gal | Stage 1: 11 lbm/gal Stage 2: 11 lbm/gal | 14.5 lbm/gal |
| Tail Cement | HalCem | NeoCem | Stage 1: NeoCem Stage 2: HalCem | - |
| Tail Cement Volume | 1,037 sks | 468 sks | Stage 1: 577 sks Stage 2: 75 sks | - |
| Tail Cement Density | 14.8 lbm/gal | 13.2 lbm/gal | Stage 1: 14.5 lbm/gal Stage 2: 14.8 lbm/gal | - |
| Cement Excess | 150% | 75% | Stage 1: 50% Stage 2: 50% | 25% |
| Total Sacks | 3,884 sks | 2,430 sks | 2,126 sks | 309 sks |
| TOC | Surface | Surface | Stage 1: DV Tool @ 5,671' Stage 2: Surface | 9,613' |
| Method | Circulate | Circulate | Circulated | CBL |

3. Tubing Description

| Tubing Information | |
|--------------------|-----------|
| OD | 5-1/2" |
| WT | 0.415" |
| ID | 4.670" |
| Drift ID | 4.545" |
| COD | 5.5" |
| Weight | 23 lb/ft |
| Grade | P-110 UFJ |
| Depth Set | 13,538' |

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman
2. Gross Injection Interval: 13,588' – 15,388'

Completion Type: Open Hole

3. Drilled for injection.
4. See the attached wellbore schematic.
5. Oil and Gas Bearing Zones within area of well:

| Formation | Depth |
|-------------------------|---------|
| Delaware Mountain Group | 5,696' |
| Bone Spring | 7,557' |
| Wolfcamp | 9,913' |
| Strawn | 11,411' |

VI. Area of Review

No wells penetrate the injection zone

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 20,000 BPD

Maximum Volume: 25,000 BPD

2. Closed System
3. Anticipated Injection Pressure:

Average Injection Pressure: 2,038 PSI (surface pressure)

Maximum Injection Pressure: 2,718 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Abo, Artesia, Bone Spring, Devonian, Grayburn/San Andreas, Pennsylvanian, Penrose, Queen, and Wolfcamp formations.
5. The disposal interval is non-productive. No water samples are available from the one-mile area of review. However, approximately 6-8 miles from the proposed well, five (5) wells producing water from the Devonian have sample data present. The results of these wells are in the Produced Water Sample list in this application.

VIII. Geological Data

Devonian Formation Lithology:

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

| Formation | Depth |
|-------------------------|--------------|
| Rustler | 1,670' |
| Salado | 1,947' |
| Tansill | 3,065' |
| Yates | 3,253' |
| Seven Rivers | 3,698' |
| Queen | 4,418' |
| Delaware Mountain Group | 5,696' |
| Bone Spring | 7,557' |
| Wolfcamp | 9,913' |
| Strawn | 11,411' |
| Atoka | 11,624' |
| Miss. Lime | 12,769' |
| Woodford | 13,412' |
| Devonian | 13,588' |

B. Underground Sources of Drinking Water

Eight (8) water wells exist within a one-mile radius of the proposed well. The water wells in the region are within the Lee County Basin of New Mexico. Water wells within the 1-mile area of review are drilled at an average depth of 63 feet and the average water depth is 23 feet in the surrounding region. The Rustler is known to exist in this general area and may also be another USDW and will be protected by setting the surface casing at the top of the Rustler formation and isolating the formation with intermediate casing set at the top of the Delaware Mountain group. The proposed well is located 5.5 miles NE of the Capitan Reef.

IX. Proposed Stimulation Program

No stimulation program planned at this time.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

A map of the freshwater wells within a one-mile radius of the proposed well has been sent to Cardinal Laboratories in Hobbs, New Mexico. Results of the samples will be provided to the Oil Conservation Division upon completion of the tests.

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

GEOLOGIC AFFIRMATION

I have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and underground sources of drinking water.



Parker Jessee
Geologist

Project: Blackbuck Resources
Prairie Sandreed Fee SWD No. 1
February 4, 2020