

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

CASE NO. 24380

EXHIBIT INDEX

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	Exhibit B – Updated Area of Review Map and List of Wells
	Exhibit C – List of Affected Parties
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Exhibit B	Self-Affirmed Statement of Patrick Ryan
B-1	Copy of Resume
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**APPLICATION OF SOLARIS WATER
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LEA COUNTY, NEW MEXICO**

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SELF-AFFIRMED STATEMENT OF DREW DIXON

1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.

2. I am employed by Aris Water, the parent company of Solaris Water Midstream, LLC (“Solaris”), as the Senior Vice President of Land and Regulatory. I have previously testified before the New Mexico Oil Conservation Division (“Division” or “OCD”) and my qualifications as an expert in petroleum land matters were accepted as a matter of record.

3. I am familiar with the application filed by Solaris in this case, and I am familiar with the status of the lands in the subject area.

4. Solaris seeks authorization to inject produced water into the Devonian; Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) for the purposes of disposal through its Ragin Rutley No. 1 well (“Well”), which will be located in Unit P of Section 14, Township 20 South, Range 32 East, Lea County, New Mexico.

5. This application was originally filed for administrative approval but was protested by NGL Water Solutions Permian, LLC (“NGL”) during the administrative review period. NGL is not an affected party in this case.

6. A copy of Solaris’s hearing application and proposed notice have been provided as Exhibit A-1. The exhibits to the hearing application include: (1) Form C-108 (Exhibit A); (2)

updated area of review map and accompanying list of wells (Exhibit B); and (3) updated list of affected parties (Exhibit C).

7. Page 24 of Exhibit A-1 includes a map that depicts wells within two miles of the proposed well, and page 25 identifies the wells located within one mile of the proposed well. Pages 26 and 27 identify operators and lessees within one mile of the proposed well.

8. Exhibit B to the hearing application (pages 76-77 of Exhibit A-1) is an updated area of review map and list that identifies wells within one mile of the proposed well.

9. The United States Bureau of Land Management owns the surface at the location of the Well. Solaris will obtain all necessary permits and authorizations from the Bureau of Land Management prior to disposing of produced water.

10. Solaris provided notice of its administrative application to the surface owner, surface lessee, and oil and gas lessees and operators of record within one mile of the proposed well. Notice of the administrative application was also published in the Hobbs News-Sun on December 4, 2019.

11. Solaris provided notice of its hearing application to the affected parties, including the parties identified in Exhibit C, as discussed in its notice affidavit.

12. Solaris intends to commence drilling the Well in February 2025 and commence injection in June 2025.

13. Solaris will operate the Well as a commercial SWD.

14. Solaris has conducted a diligent search of all county public records, including phone directories and computer databases, as well as internet searches, to locate the interest owners and offset operators.

15. It is my opinion that Solaris undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the well's area of review. There were no unlocatable parties.

16. A significant amount of new drilling activity is in progress or planned in this area and there is minimal saltwater disposal infrastructure available. A chart that identifies drilling activity in the area is attached as Exhibit A-2. Solaris has communicated with other operators in the area, and they agree that additional SWD infrastructure would be beneficial.

17. Solaris chose this particular location for this Well because of customer disposal needs offsetting the Well and proximity to Solaris's existing pipeline infrastructure.

18. Solaris's proposed location is also consistent with OCD's SWD spacing requirements, and as discussed in Mr. Ryan's testimony, this location presents no induced seismicity concerns based on Solaris's induced seismicity study.

19. Solaris has the technical, operations, and other experience and qualifications to comply with the OCD's regulatory requirements for SWDs.

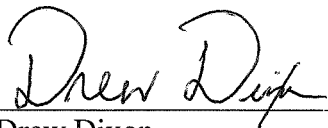
20. I have had conversations with both Civitas Permian Operating, LLC and EOG Resources, Inc. regarding this Well, and it's my understanding that neither company has any objections to this Well or to this matter proceeding by affidavit at this time.

21. The attached exhibits were either prepared by me, or under my supervision, or were compiled from company business records.

22. In my opinion, the granting of Solaris's application would serve the interests of conservation, the prevention of waste, and the protection of correlative rights.

23. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony above is true and correct and is made under penalty of perjury

under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.



Drew Dixon

06/03/2024
Date

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. _____

APPLICATION

Pursuant to 19.15.26.8 NMAC, Solaris Water Midstream, LLC (“Solaris”) requests that the New Mexico Oil Conservation Division (“Division”) issue an order approving a saltwater disposal well in Lea County, New Mexico. In support of its application, Solaris states the following.

1. Solaris (OGRID No. 371643) seeks an order approving its proposed Ragin Rutley SWD No. 1, to be drilled at a location 857’ from the south line and 228’ from the east line, in Unit P of Section 14, Township 20 South, Range 32 East, Lea County, New Mexico for the purpose of operating the Ragin Rutley SWD No.1 as a saltwater disposal well.
2. Solaris seeks authorization to inject produced water into the Devonian, Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) at a depth of approximately 14,463 to 16,263 feet.
3. Solaris proposes to inject an average of 30,000 barrels of water per day up to a maximum of 40,000 barrels of water per day.
4. Solaris requests that the Division approve a maximum surface injection pressure of 2,892 psi.
5. A Division Form C-108 is attached as Exhibit A.

**Solaris Water Midstream, LLC
Case No. 24380
Exhibit A-1**

6. An updated area of review map and accompanying list of wells is attached as Exhibit B, and an updated list of affected parties is attached as Exhibit C.

7. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Solaris requests that this application be set for hearing on May 2, 2024, and that, after notice and hearing, the Division enter an order approving this application and authorizing Solaris to inject produced water into the Ragin Rutley SWD No.1 well for disposal.

Respectfully submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy

Jaclyn M. McLean

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

Facsimile: (505) 982-8623

dhardy@hinklelawfirm.com

jmclean@hinklelawfirm.com

Counsel for Solaris Water Midstream, LLC

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: Solaris Water Midstream, LLC _____ **OGRID Number:** 371643 _____
Well Name: Ragin Rutley SWD No. 1 _____ **API:** _____
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

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. 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.

December 9, 2019

Ramona K. Hovey – Agent of Solaris Water Midstream

Date

Print or Type Name

(512) 600-1777

 Signature

Phone Number

ramona@lonquist.com

e-mail Address

Solaris Water Midstream, LLC

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ X _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ X _____ Yes _____ No

II. OPERATOR: Solaris Water Midstream, LLC

ADDRESS: 701 Tradewinds Blvd., Suite C, Midland, TX 79706

CONTACT PARTY: Whitney McKee

PHONE: 432-203-9020

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes _____ X _____ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Ramona Hovey

TITLE: Consulting Engineer – Agent for Solaris Water Midstream

SIGNATURE: Ramona K Hovey

DATE: 12/9/2019

E-MAIL ADDRESS: ramona@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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Ragin' Rutley SWD No. 1

WELL LOCATION: 857' FSL 228' FEL
FOOTAGE LOCATION

LOT 16
UNIT LETTER

14
SECTION

20S
TOWNSHIP

32E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26"

Casing Size: 20"

Cemented with: 953 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate 1 Casing

Hole Size: 18.125"

Casing Size: 16"

Cemented with: 1,357 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate 2 Casing

Hole Size: 14.75"

Casing Size: 13.375"

Cemented with: 1,048 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with: 2.668 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 422 sx.

or _____ ft³

Top of Cement: 10.625'

Method Determined: logging

Total Depth: 16.263'

Injection Interval

14.463 feet to 16.263 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 10,425' and 5", 18 lb/ft, HCL-80, LTC from 10,425' – 14,413'
Lining Material: Duoline

Type of Packer: 7-5/8" X 5" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

Packer Setting Depth: 14,413'

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, 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: 5,049'

Strawn: 11,918'

Atoka: 12,290'

Morrow: 12,917'



Solaris Water Midstream, LLC

Ragin Rutley SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Ragin Rutley SWD
Well No.	1
Location	S-14 T-20S R-32E
Footage Location	857' FSL & 228' FEL

2.

a. Wellbore Description

Casing Information					
Type	Surface	Intermediate 1	Intermediate 2	Production	Liner
OD	20"	16"	13.375"	9.625"	7.625"
WT	0.500"	0.656"	0.480"	0.545"	0.500"
ID	19.000"	14.688"	12.347"	8.535"	6.625"
Drift ID	18.936"	15.062"	12.559"	8.379"	6.500"
COD	21.000"	17.000"	13.375"	10.625"	7.625"
Weight	106.5 lb/ft	109 lb/ft	72 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	J-55 BTC	HCL-80 FJ	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	26"	18.125"	14.75"	12.25"	8.5"
Depth Set	1,385'	2,844'	4,932'	10,825'	10,625' – 14,463'

b. Cementing Program

Casing String	Surface	Intermediate 1	Intermediate 2	Production	Liner
Lead Cement	HALCEM™	HALCEM™	HALCEM™	HALCEM™	NeoCem™
Lead Cement Volume (sacks)	642	700	817	Stage 1: 1,604 Stage 2: 262	421
Lead Cement Yield (ft ³ /sack)	1.664	1.664	1.664	Stage 1: 2.731 Stage 2: 1.336	1.223
Tail Cement	HALCEM™	HALCEM™	HALCEM™	HALCEM™	-
Tail Cement Volume (sacks)	311	657	231	Stage 1: 623 Stage 2: 178	-
Tail Cement Yield (ft ³ /sack)	1.332	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	-
Cement Excess	100%	100%	100%	100%	50%
Total Sacks	953	1,357	1,048	2,668	421
TOC	Surface	Surface	Surface	Surface	10,625'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information	
OD	5.5"
	5.0"
WT	0.361"
	0.362"
ID	4.778"
	4.276"
Drift ID	4.653"
	4.151"
COD	6.050"
	5.563"
Weight	20 lb/ft
	18 lb/ft
Grade	HCL-80 BTC
	HCL-80 LTC
Depth Set	0-'10,425'
	10,425-11,413'

Tubing will be lined with Duoline.

4. Packer Description

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

B. Completion Information

1. Injection Formation: Devonian
2. Gross Injection Interval: 14,463' – 16,263'

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	5,049'
Wolfcamp	10,725'
Strawn	11,918'
Atoka	12,290'
Morrow	12,917'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injected:

Average Volume: 30,000 BPD

Maximum Volume: 40,000 BPD

2. Closed System

3. Anticipated Injection Pressure:

Average Injection Pressure: 2,169 PSI (surface pressure)

Maximum Injection Pressure: 2,892 PSI (surface pressure)

4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Delaware, Morrow, Pennsylvanian, Strawn, and Wolfcamp formations.

5. The disposal interval is non-productive. No water samples are available from the surrounding area.

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 Texas Ranger SWD No. 1 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	1,079'
Salado	1,375'
Capitan Reef Top	2,834'
Capitan Reef Base	4,922'
Delaware Mountain Group	5,049'
Wolfcamp	10,725'
Strawn	11,918'
Atoka	12,290'
Morrow	12,917'
Barnett	13,433'
Mississippian Lime	13,758'
Woodford	14,318'
Devonian	14,463'
Fusselman	15,315'

B. Underground Sources of Drinking Water

Seven (7) water wells exist within one-mile of the proposed well. Across the area, fresh water wells are usually drilled at an average depth of 388'. Average water depth in this region is approximately 239'. The Rustler exists in this area at a depth of 1,079' and will be protected by setting 20" surface casing 10' past the Rustler formation into the Salado salt at approximately 1,385'

The proposed well is located within the Capitan Reef Complex; thus, the proposed wellbore design is a 4-string design that is intended to protect the Capitan Reef from any potential contamination while drilling. The first intermediate casing string will be set approximately 10' into the top of the Capitan Reef at 2,844'. The second intermediate casing will isolate the Capitan Reef by setting a second intermediate casing string approximately 10' past the base of the Capitan Reef. A depiction of the 4-string casing design is included in this application.

IX. Proposed Stimulation Program

50,000 gallon acid job

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

Attached is a map of the seven (7) water wells that exist within one-mile of the well location. A 3rd party is currently attempting to identify active wells and obtain sample. If samples can be obtained, analysis results will be provided as soon as possible.

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

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

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

¹ Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643
		³ API Number TBD
⁴ Property Code	⁵ Property Name RAGIN' RUTLEY SWD	⁶ Well No. 1

7. Surface Location

UL - Lot LOT 16	Section 14	Township 20S	Range 32E	Lot Idn	Feet from 857	N/S Line S	Feet From 228	E/W Line E	County LEA
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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
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3,531'
¹⁶ Multiple N	¹⁷ Proposed Depth 16,263'	¹⁸ Formation Silurian-Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 239'		Distance from nearest fresh water well 3,282'		Distance to nearest surface water >1 mile

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	106.5 lb/ft	1,385'	953	Surface
Intermediate 1	18.125"	16"	109 lb/ft	2,844'	1,357	Surface
Intermediate 2	14.75"	13.375"	72 lb/ft	4,932'	1,048	Surface
Production	12.25"	9.625"	53.5 lb/ft	10,825'	2,668	Surface
Liner	8.5"	7.625"	39 lb/ft	10,625' - 14,463'	422	10,625'
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0'-10,425' & 10,425'-14,413'	N/A	

Casing/Cement Program: Additional Comments

See attached schematic.

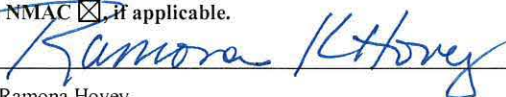
22. Proposed Blowout Prevention Program

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: Ramona Hovey

Title: Consulting Engineer

E-mail Address: ramona@lonquist.com

Date: December 9, 2019

Phone: 512-600-1777

OIL CONSERVATION DIVISION	
Approved By:	
Title:	
Approved Date:	Expiration Date:
Conditions of Approval Attached	

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) 748-0720
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
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 DEVONIAN-SILURIAN	
⁴ Property Code		⁵ Property Name RAGIN' RUTLEY SWD			⁶ Well Number 1
⁷ OGRID No. 371643		⁸ Operator Name SOLARIS WATER MIDSTREAM, LLC			⁹ Elevation 3,531'

¹⁰ Surface Location

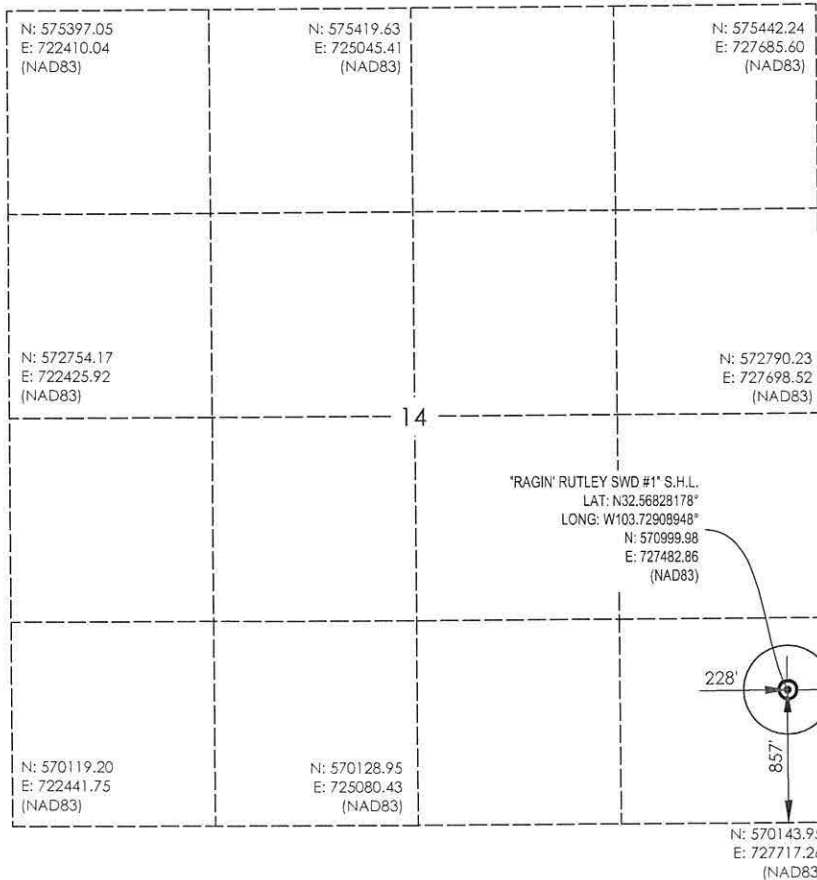
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
16	14	20 S	32 E		857'	SOUTH	228'	EAST	LEA

¹¹ 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.

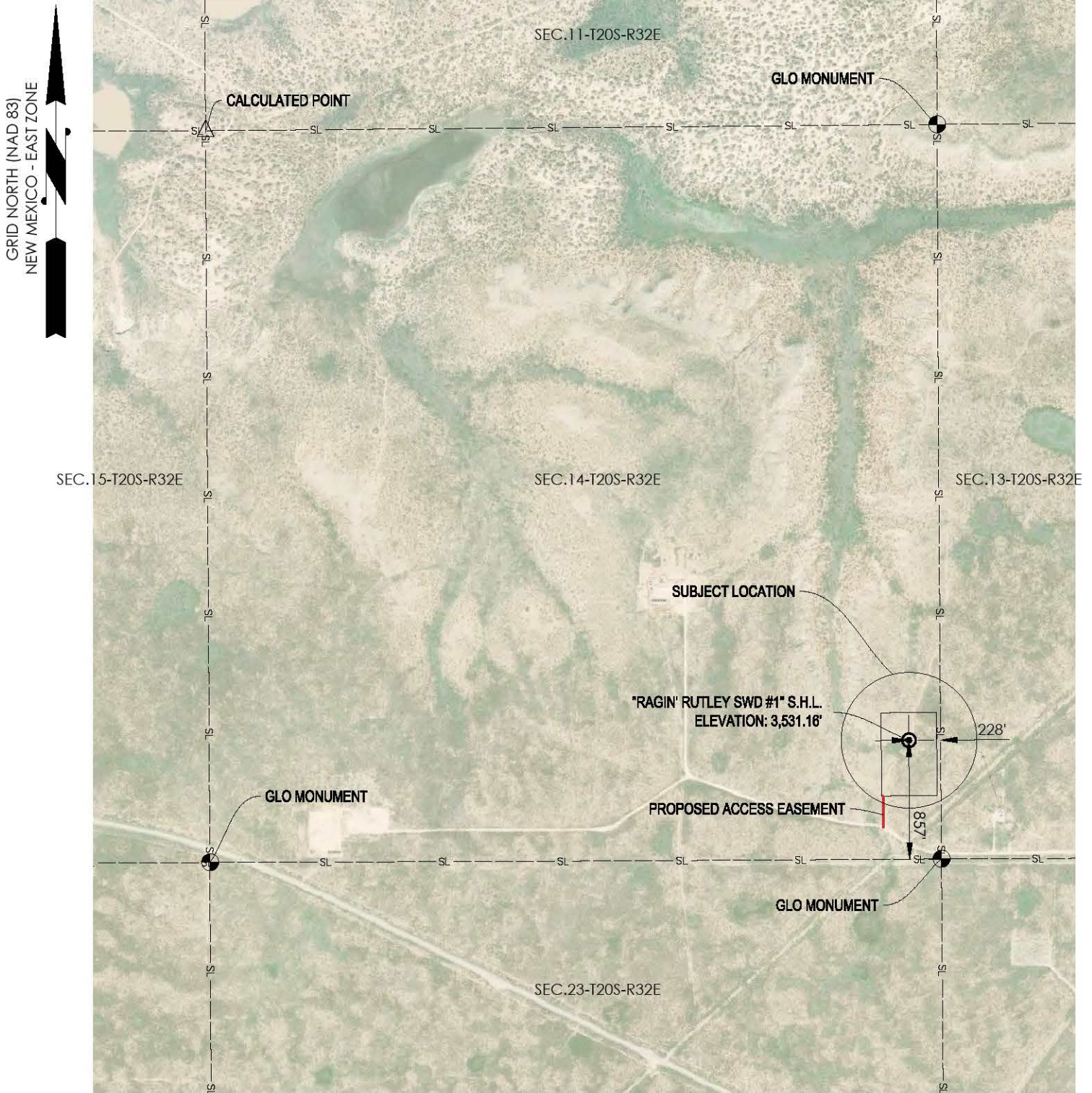
Signature: Ramona K. Hovey Date: 12/9/19
Printed Name: RAMONA K. HOVEY
E-mail Address: ramona@longquist.com

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 10/30/2019
Signature and Seal of Professional Surveyor: [Signature]
Certificate Number: 23783



WELL PAD LOCATION OVERVIEW



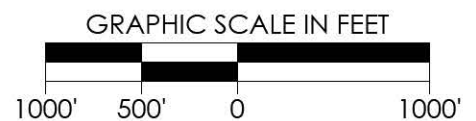
REFERENCE	ELEVATION	NAD83 (1986)		NAD27	
		STATE PLANE NEW MEXICO EAST	GEOGRAPHIC	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC
S. H. L.	3,531.16'	N: 570999.98 E: 727482.86	LAT: 32.56828178° LONG: -103.72908948°	N: 570937.81 E: 686302.41	LAT: 32.56816009° LONG: -103.72859362°

CALLS FROM SECTION LINE

S.H.L.	857' FSL, 228' FEL (SEC.14)
--------	-----------------------------

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: ±0.9 MILES NORTHEAST OF THE INTERSECTION OF HWY 243 & HWY 62
 FROM THE INTERSECTION OF HWY 243 & HWY 62, HEAD NORTH ON HWY 243 FOR ±0.7 MILES, TURN RIGHT ONTO A LEASE ROAD AND HEAD EAST FOR ±0.5 MILES, TURN LEFT ONTO HYDRA LANE AND HEAD NORTH FOR ±280 FEET, TURN RIGHT ONTO THE PROPOSED LEASE ROAD, HEAD NORTH FOR ±230 FEET TO LOCATION.



REVISION	"RAGIN' RUTLEY SWD #1"		
---	PROPOSED PAD AND ACCESS EASEMENT SURVEY BUREAU OF LAND MANAGEMENT SEC. 14-T20S-R32E LEA COUNTY, NEW MEXICO		
	SCALE: 1" = 1000'	CHECKED BY: JWB	APPROVED BY: J.PARKER
	PLOT DATE: 10-30-2019	DRAWN BY: L.DOW	SHEET NO.: 1 OF 4



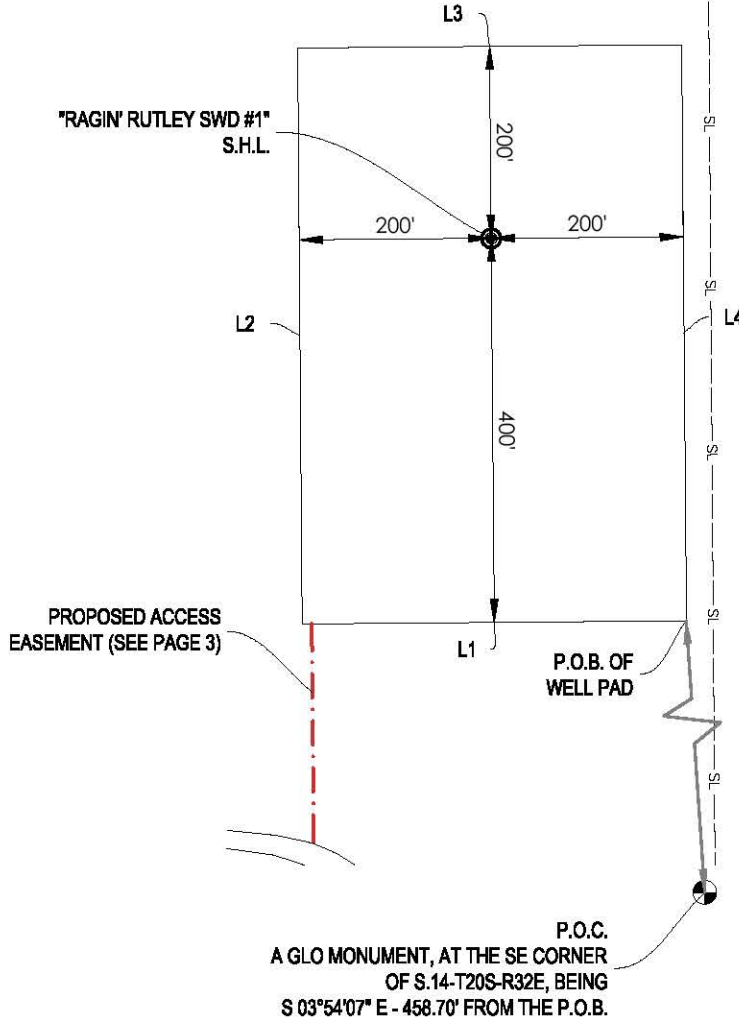
PROPOSED PAD (5.51 ACRES)

LEGEND

- SL SECTION LINE
- PL PROPERTY LINE
- EPR EXISTING PIPELINE ROUTE
- OHE OVERHEAD ELECTRIC
- FENCE
- EER EDGE OF EXISTING ROAD
- CLP CL OF PROPOSED ACCESS EASEMENT
- EPEP EDGE OF PROPOSED ACCESS EASEMENT
- EPP EDGE OF PROPOSED PAD
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINATION
- LF LINEAR FEET
- PP POWER POLE
- PWL PROPOSED WELL LOCATION
- EWL EXISTING WELL LOCATION
- FM FOUND MONUMENT (AS NOTED)

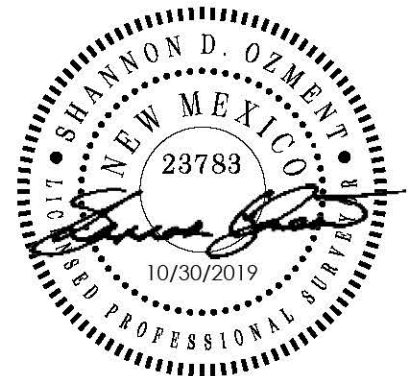
GRID NORTH (NAD 83)
NEW MEXICO - EAST ZONE

BUREAU OF LAND MANAGEMENT
SEC. 14-T20S-R32E
(240,000 SQ. FT. OR 5.51 ACRES)



LINE #	BEARING	DISTANCE
L1	S 89°32'35" W	400'
L2	N 00°27'25" W	600'
L3	N 89°32'35" E	400'
L4	S 00°27'25" E	600'

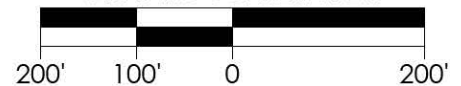
P.O.C.
A GLO MONUMENT, AT THE SE CORNER
OF S.14-T20S-R32E, BEING
S 03°54'07" E - 458.70' FROM THE P.O.B.



SECTION 14
SE1/4 SE1/4 ±5.51 ACRES

- GENERAL NOTES**
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
 - BASIS OF BEARINGS : NEW MEXICO STATE PLANE GRID, EAST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
 - VERTICAL DATUM IS NAVD 88
 - AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.
 - ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGE SHOWN ARE BY DEED AND LEASE CALL EXCEPT WHERE NOTED.

GRAPHIC SCALE IN FEET



REVISION	"RAGIN' RUTLEY SWD #1"		
---	PROPOSED PAD AND ACCESS EASEMENT SURVEY BUREAU OF LAND MANAGEMENT SEC. 14-T20S-R32E LEA COUNTY, NEW MEXICO		
	SCALE: 1" = 200'	CHECKED BY: JWB	APPROVED BY: J.PARKER
	PLOT DATE: 10-30-2019	DRAWN BY: L.DOW	SHEET NO.: 2 OF 4



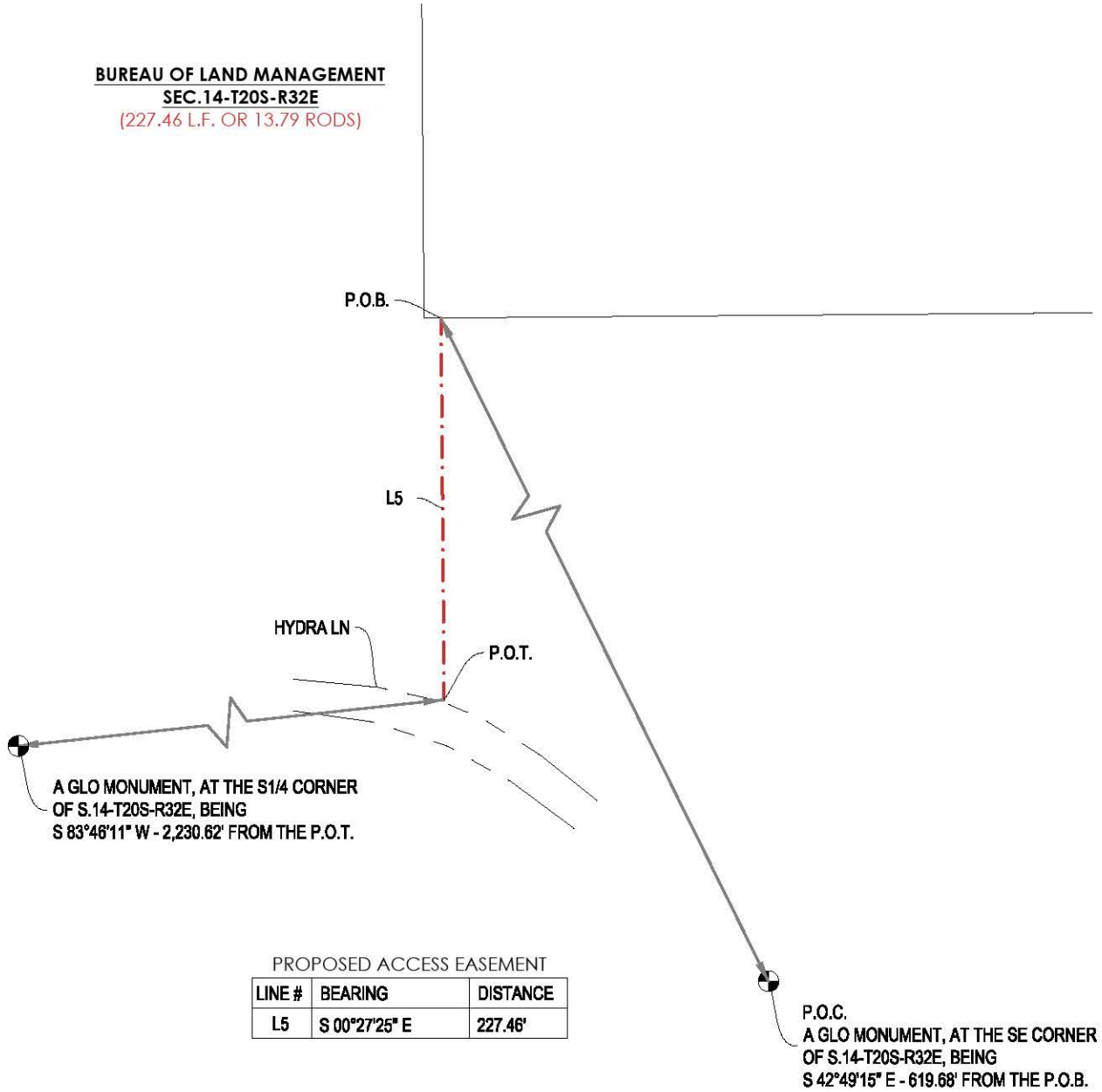
LEGEND

- SL SECTION LINE
- PL PROPERTY LINE
- EPR EXISTING PIPELINE ROUTE
- OHE OVERHEAD ELECTRIC
- FENCE
- EOR EDGE OF EXISTING ROAD
- CLP CL OF PROPOSED ACCESS EASEMENT
- EPEP EDGE OF PROPOSED ACCESS EASEMENT
- EPP EDGE OF PROPOSED PAD
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINATION
- LF LINEAR FEET
- PP POWER POLE
- PWL PROPOSED WELL LOCATION
- EWL EXISTING WELL LOCATION
- FM FOUND MONUMENT (AS NOTED)

**PROPOSED ACCESS EASEMENT
(227.46 L.F. OR 13.79 RODS)**

GRID NORTH (NAD 83)
NEW MEXICO - EAST ZONE

**BUREAU OF LAND MANAGEMENT
SEC. 14-T20S-R32E
(227.46 L.F. OR 13.79 RODS)**

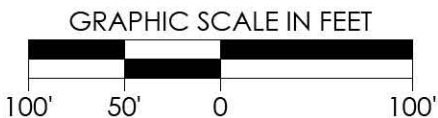


PROPOSED ACCESS EASEMENT

LINE #	BEARING	DISTANCE
L5	S 00°27'25\" E	227.46'

SITE COORDINATES

REFERENCE	ELEVATION	NAD83 (1988)		NAD27	
		STATE PLANE NEW MEXICO EAST	GEOGRAPHIC	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC
P.O.B.	3,532.95'	N: 570598.48 E: 727296.06	LAT: 32.56718112° LONG: -103.72970322°	N: 570536.32 E: 686115.58	LAT: 32.56705943° LONG: -103.72920738°
P.O.T.	3,533.71'	N: 570371.03 E: 7727297.87	LAT: 32.56655592° LONG: -103.72970152°	N: 570308.87 E: 686117.40	LAT: 32.56643422° LONG: -103.72920570°



SECTION 14
SE1/4 SE1/4 277.46 L.F. OR 13.79 RODS



- GENERAL NOTES
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
 - BASIS OF BEARINGS : NEW MEXICO STATE PLANE GRID, EAST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
 - VERTICAL DATUM IS NAVD 88
 - AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.
 - ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGE SHOWN ARE BY DEED AND LEASE CALL EXCEPT WHERE NOTED.

REVISION	"RAGIN' RUTLEY SWD #1"		
---	PROPOSED PAD AND ACCESS EASEMENT SURVEY BUREAU OF LAND MANAGEMENT SEC. 14-T20S-R32E LEA COUNTY, NEW MEXICO		
	SCALE: 1" = 100'	CHECKED BY: JWB	APPROVED BY: J.PARKER
	PLOT DATE: 10-30-2019	DRAWN BY: L.DOW	SHEET NO.: 3 OF 4



LEGAL DESCRIPTIONS

"RAGIN' RUTLEY SWD #1 PROPOSED WELL PAD":

A METES AND BOUNDS DESCRIPTION OF A PROPOSED WELL PAD BEING OUT OF SECTION 14, TOWNSHIP 20 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A GLO MONUMENT, AT THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE N 03°54'07" W A DISTANCE OF 458.70 FEET TO THE POINT OF BEGINNING;

THENCE S 89°32'35" W A DISTANCE OF 400 FEET TO A POINT;
THENCE N 00°27'25" W A DISTANCE OF 600 FEET TO A POINT;
THENCE N 89°32'35" E A DISTANCE OF 400 FEET TO A POINT;
THENCE S 00°27'25" E A DISTANCE OF 600 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED WELL PAD HAS A TOTAL OF 240,000 SQUARE FEET OR 5.51 ACRES, MORE OR LESS.

"RAGIN' RUTLEY SWD #1 PROPOSED ACCESS EASEMENT":

A CENTERLINE DESCRIPTION OF A PROPOSED ACCESS EASEMENT IN, OVER, ACROSS, AND THROUGH SECTION 14, TOWNSHIP 20 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A GLO MONUMENT, AT THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE N 42°49'15" W A DISTANCE OF 619.68 FEET TO THE POINT OF BEGINNING OF THE FOLLOWING DESCRIBED CENTERLINE;

THENCE S 00°27'25" E A DISTANCE OF 227.46 FEET THE POINT OF TERMINATION, SAID POINT BEING N 83°46'11" E A DISTANCE OF 2,230.62 FEET FROM A GLO MONUMENT, AT THE SOUTH QUARTER CORNER OF SAID SECTION 14.

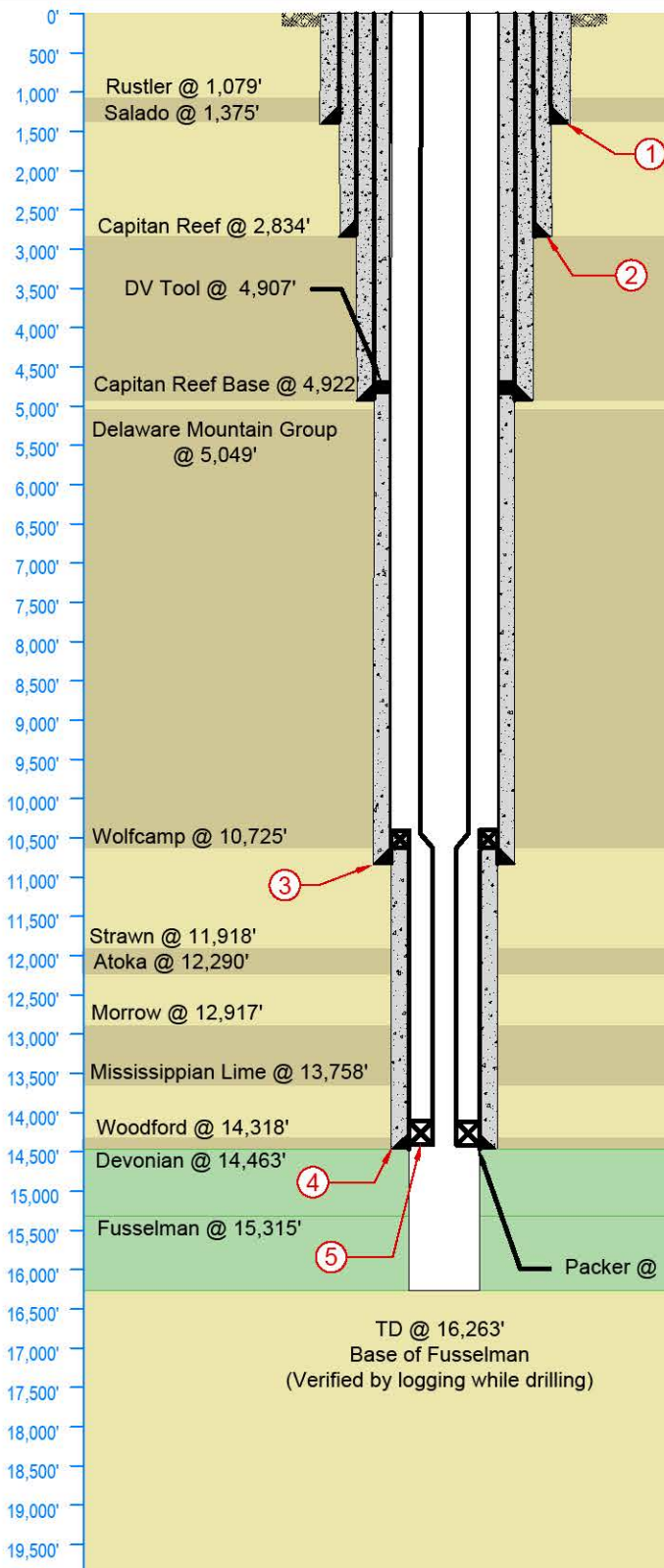
THE ABOVE DESCRIBED CENTERLINE HAS A TOTAL LENGTH OF 227.46 FEET OR 13.79 RODS, MORE OR LESS.

BASIS OF BEARINGS: NEW MEXICO STATE PLANE GRID, EAST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.

ALL DISTANCES ARE GRID DISTANCES BASED ON U.S. SURVEY FEET
THIS LEGAL DESCRIPTION ACCOMPANIES A SKETCH PREPARED FOR THIS TRACT OF LAND.



REVISION		"RAGIN' RUTLEY SWD #1"			
---	---				
		PROPOSED PAD AND ACCESS EASEMENT SURVEY			
		BUREAU OF LAND MANAGEMENT			
		SEC. 14-T20S-R32E			
		LEA COUNTY, NEW MEXICO			
		CHECKED BY:	JWB	APPROVED BY:	J.PARKER
		PLOT DATE: 10-30-2019	DRAWN BY: L.DOW	SHEET NO.:	4 OF 4



Casing Information					
Label	1	2	3	4	5
Type	Surface	Intermediate 1	Intermediate 2	Production	Liner
OD	20"	16"	13-3/8"	9-5/8"	7-5/8"
WT	0.500"	0.656"	0.480"	0.545"	0.500"
ID	19.000"	14.688"	12.347"	8.535"	6.625"
Drift ID	18.936"	15.062"	12.559"	8.379"	6.500"
COD	21"	17"	13.375"	10.625"	7.625"
Weight	106.5 lb/ft	109 lb/ft	72 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	J-55 BTC	HCL-80 FJ	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	26"	18-1/8"	14-3/4"	12-1/4"	8-1/2"
Depth Set	1,385'	2,844'	4,932'	10,825'	Top: 10,625' Bottom: 14,463'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	Circulate to surface	10,625'
Volume (Sacks)	953	1,357	1,048	2,668	422
Excess	100 %	100%	100%	100 %	50%

Tubing Information	
Label	5
OD	5-1/2", 5"
WT	0.361", 0.362"
ID	4.778", 4.276"
Drift ID	4.653", 4.151"
COD	6.050", 5.563"
Weight	20 lb/ft, 18 lb/ft
Grade	HCL-80 BTC, HCL-80 LTC
Depth Set	0' - 10,425', 10,425' - 14,413'

<p>LONQUIST & CO. LLC PETROLEUM ENGINEERS ENERGY ADVISORS HOUSTON CALGARY AUSTIN WICHITA DENVER</p> <p>Texas License F-9147</p> <p>12912 Hill Country Blvd. Ste F-200 Austin, Texas 78738 Tel: 512.732.9812 Fax: 512.732.9816</p>	Solaris Water Midstream, LLC		<h1>Ragin' Rutley SWD No. 1</h1>	
	Country: USA	State/Province: New Mexico	County/Parish: Lea	
	Location:	Site: 857' FSL, 228' FEL	Survey: S14-T20S-R32E	
	API No: NA	Field: Silurian-Devonian (Code: 97869)	Well Type/Status: SWD	
	NMOCD District No: 2	Project No: 2241	Date: 12/05/2019	
Drawn: KAS	Reviewed: TFM	Approved: TFM		
Rev No:	Notes:			



LONQUIST & CO. LLC

**PETROLEUM
ENGINEERS**

**ENERGY
ADVISORS**

AUSTIN • HOUSTON | CALGARY • WICHITA
BATON ROUGE • DENVER • COLLEGE STATION

SOLARIS WATER MIDSTREAM, LLC

Ragin Rutley SWD No. 1
Section 14-T20S-R32E
857' FSL & 228' FEL
Lea County, New Mexico
GEOLOGICAL PROGNOSIS
12/2/2019

GL: 3,531'
KB: 3,551' (Depth Reference)
Proposed Injection Interval: 14,463' – 16,263'

<u>Tops</u>	<u>Depths (est.)</u>	<u>Subsea (est.)</u>
Rustler	1,079'	+2,472'
Salado	1,375'	+2,176'
Capitan Reef Top	2,834'	+717'
Capitan Reef Base	4,922'	-1,371'
Bell Canyon	5,049'	-1,498'
Cherry Canyon	5,745'	-2,194'
Brushy Canyon	7,080'	-3,529'
Bone Spring	7,809'	-4,258'
Wolfcamp	10,725'	-7,154'
Strawn	11,918'	-8,367'
Atoka	12,290'	-8,739'
Morrow	12,917'	-9,366'
Mississippian Lime	13,758'	-10,207'
Woodford	14,318'	-10,767'
Devonian	14,463'	-10,912'
Fusselman	15,315'	-11,764'

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

INJECTION INTERVAL CONFINING LAYERS – RAGIN RUTLEY SWD NO. 1

The Devonian-Silurian injection interval for the proposed Ragin Rutley SWD No. 1 is contained by upper and lower confining layers. The upper confining layer is the Woodford Shale, which is approximately 145 feet thick 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.



Emily Olson

Geologist

Lonquist & Co., LLC

December 9, 2019

Project: Solaris Water Midstream
Ragin Rutley SWD No. 1

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.



Emily Olson
Geologist

Project: Solaris Water Midstream, LLC
Ragin Rutley SWD No. 1

Ragin Rutley SWD No. 1 2 Mile Area of Review Solaris Water Midstream, LLC Lea., NM

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

Drawn by: ASG | Date: 11/15/2019 | Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS
ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

✦ Ragin Rutley 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 (17)

⊛ Active - Gas (1)

● Active - Oil (3)

⊘ Cancelled/Abandoned Location (7)

● Plugged/Site Released - Oil (26)

⊛ Plugged/Site Released - SWD (1)

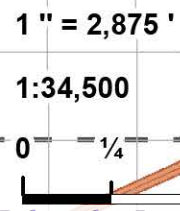
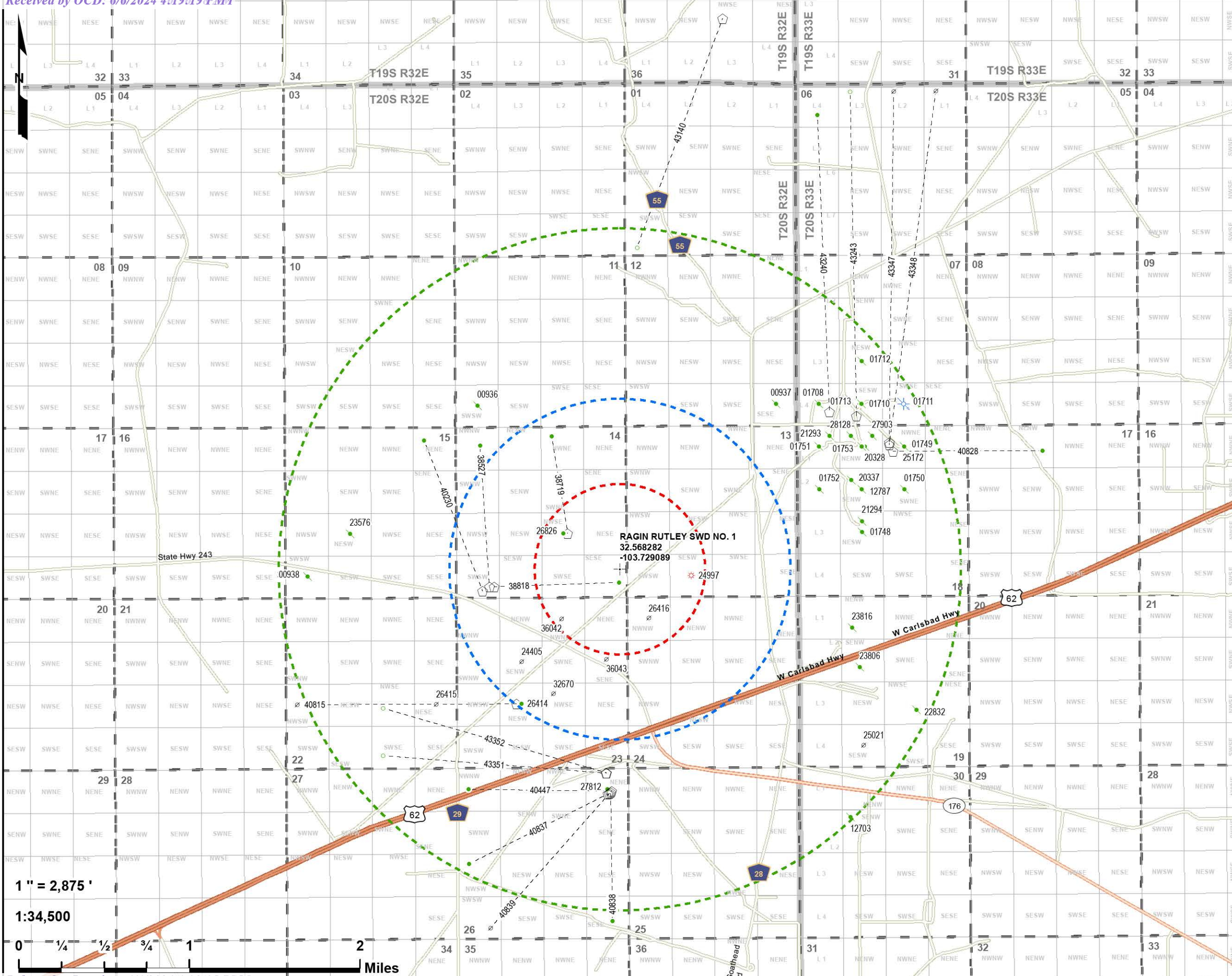
API (30-025-...) BHL Status-Type (Count)

● Active - Oil (9)

⊘ Cancelled/Abandoned Location (4)

○ Permitted - Oil (4)

Source: Well SHL Data - NM-OCD (2019)



Ragin Rutley 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 DATE	FIELD
24405	PRE-ONGARD WELL #001	O	C	PRE-ONGARD WELL OPERATOR	0	32.5604924446	-103.739016415	-	-
24997	HANSON STATE #001	G	A	COG OPERATING LLC	13363	32.5677414000	-103.721931500	8/10/1975	[53560] SALT LAKE, BONE SPRING; [96041] WILDCAT, GROUP 10; [96049] WC, ATOKA DO NOT USE; [96070] WC, MORROW (GAS); [96344] SALT LAKE, ATOKA (GAS); [96345] SALT LAKE, MORROW (GAS)
26414	BAETZ 23 FEDERAL #001	O	A	FASKEN OIL & RANCH LTD	13640	32.5568771000	-103.739051800	8/25/1975	[53560] SALT LAKE, BONE SPRING
26416	PRE-ONGARD WELL #001	O	C	PRE-ONGARD WELL OPERATOR	0	32.5641141820	-103.726202357	-	-
26826	BELCO AIA FEDERAL #001	O	A	EOG RESOURCES INC	13250	32.5713806000	-103.734787000	2/15/1991	[53565] SALT LAKE, DELAWARE
32670	BAETZ 23 #002	O	C	BARBARA FASKEN	0	32.5577398901	-103.735845650	-	-
36042	BAETZ 23 FEDERAL #003C	O	C	FASKEN OIL & RANCH LTD	0	32.5641164586	-103.734975129	-	-
36043	BAETZ 23 FEDERAL #009	O	C	FASKEN OIL & RANCH LTD	0	32.5606242796	-103.730501700	-	-
38527	BELCO AIA FEDERAL #002H	O	A	EOG RESOURCES INC	5057	32.56685260000	-103.74221800000	12/5/2006	[53565] SALT LAKE, DELAWARE
38719	BELCO AIA FEDERAL #003H	O	A	EOG RESOURCES INC	4855	32.5713806000	-103.734298700	2/19/2008	[53565] SALT LAKE, DELAWARE
38818	BELCO AIA FEDERAL #004H	O	A	EOG RESOURCES INC	5083	32.56685260000	-103.74173740000	4/3/2008	[53565] SALT LAKE, DELAWARE
40230	QUEENIE 15 FEDERAL #001H	O	A	MARATHON OIL PERMIAN LLC	5032	32.5664978000	-103.742889400	10/4/2011	[53565] SALT LAKE, DELAWARE
40815	BAETZ 23 FEDERAL #002C	O	C	FASKEN OIL & RANCH LTD	0	32.5568771000	-103.739540100	-	[53560] SALT LAKE, BONE SPRING

Ragin Rutley SWD No. 1
1 Mile Offset Operators - OCD
Solaris Water Midstream, LLC
Lea., NM

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

Drawn by: ASG | Date: 11/18/2019 | Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | **ENERGY ADVISORS**

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

✚ Ragin Rutley SWD No. 1 SHL

⋯ 1-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 (5)

⊛ Active - Gas (1)

● Active - Oil (2)

⊘ Cancelled/Abandoned Location (5)

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

● Active - Oil (4)

⊘ Cancelled/Abandoned Location (1)

Offset Operators

■ -COG OPERATING LLC

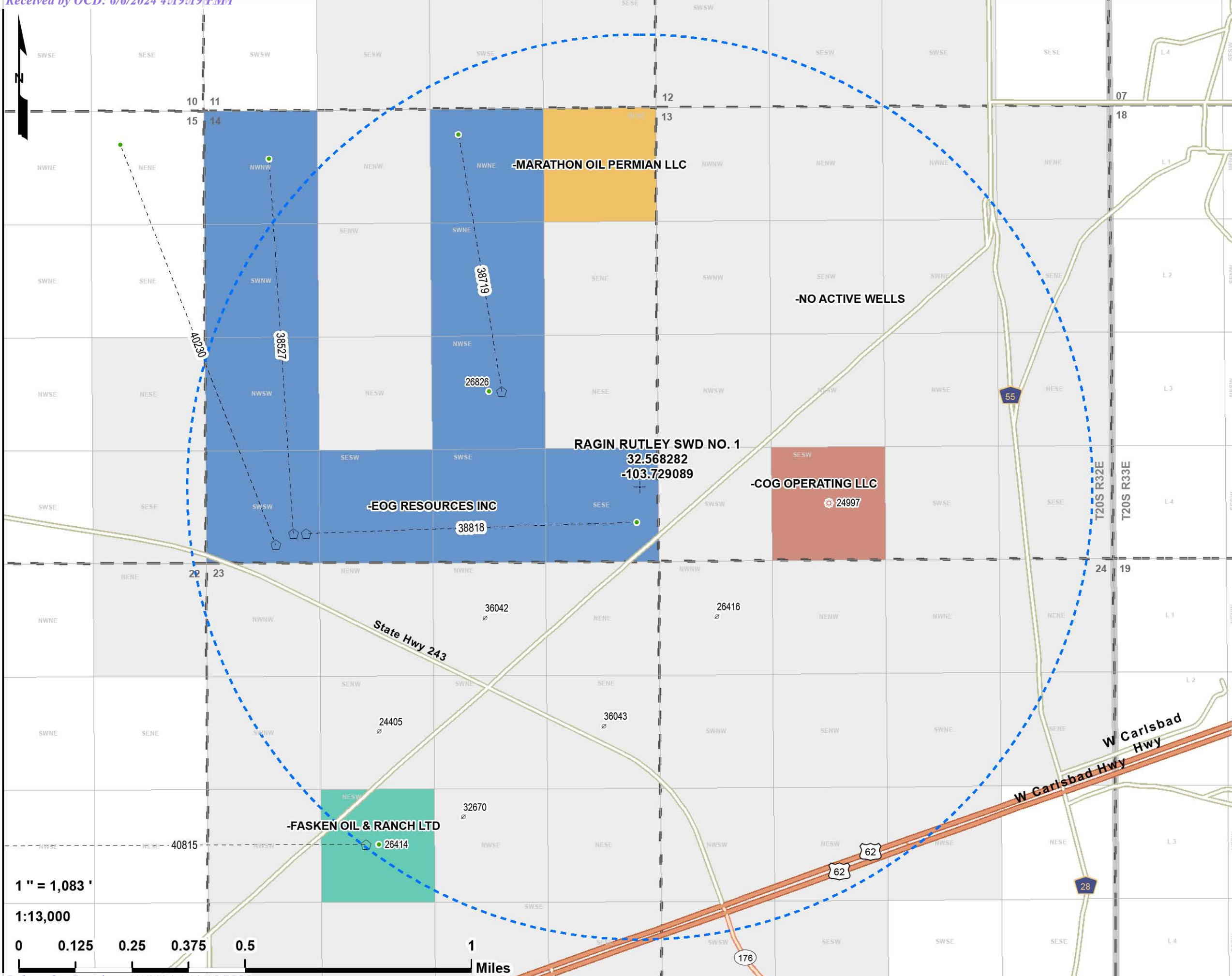
■ -EOG RESOURCES INC

■ -FASKEN OIL & RANCH LTD

■ -MARATHON OIL PERMIAN LLC

■ -NO ACTIVE WELLS

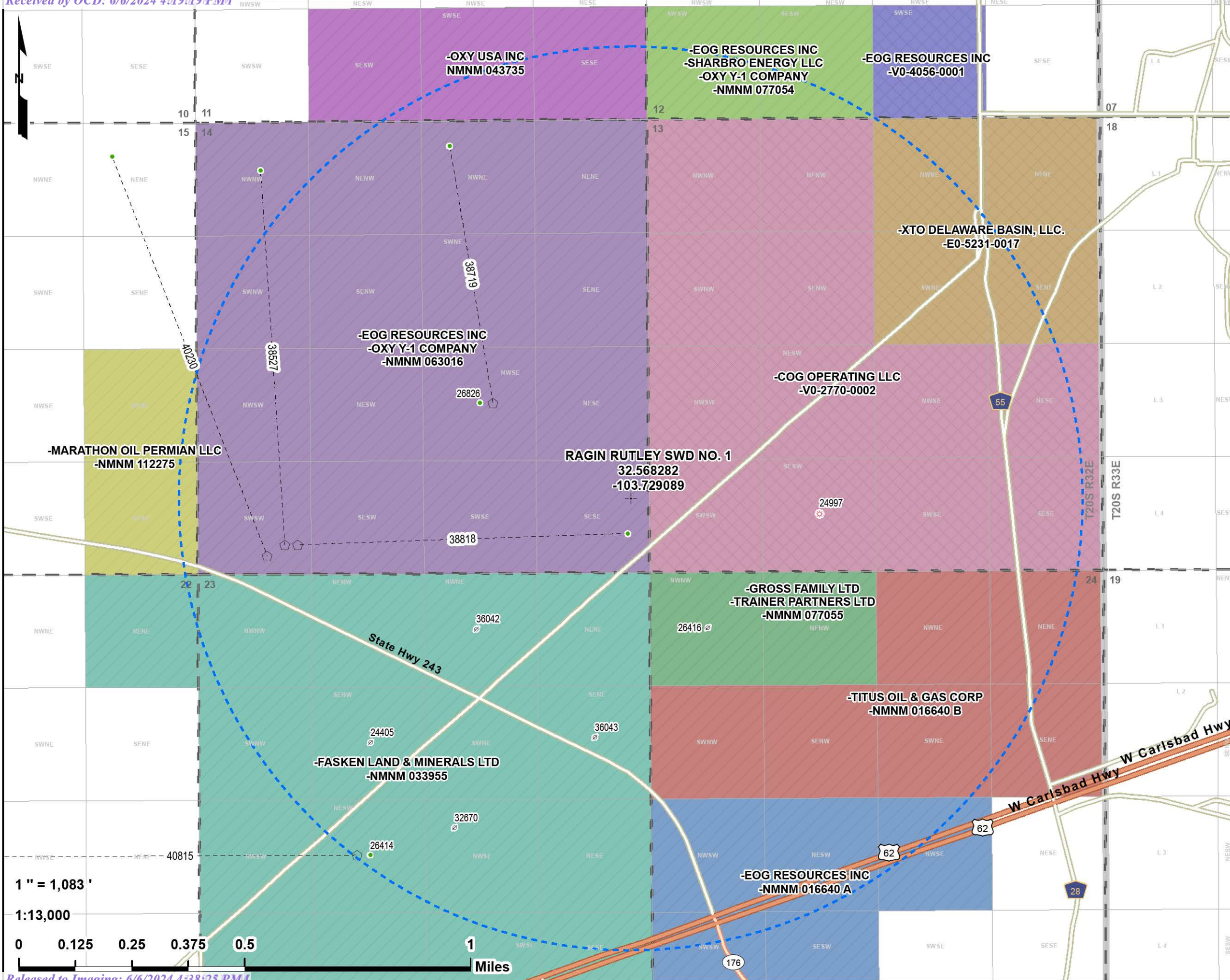
Source: Water Well Data - NM-OCD (2019)



1" = 1,083'

1:13,000





Ragin Rutley SWD No. 1
1 Mile Lessee(s) - BLM/SLO
Solaris Water Midstream, LLC
 Lea., NM

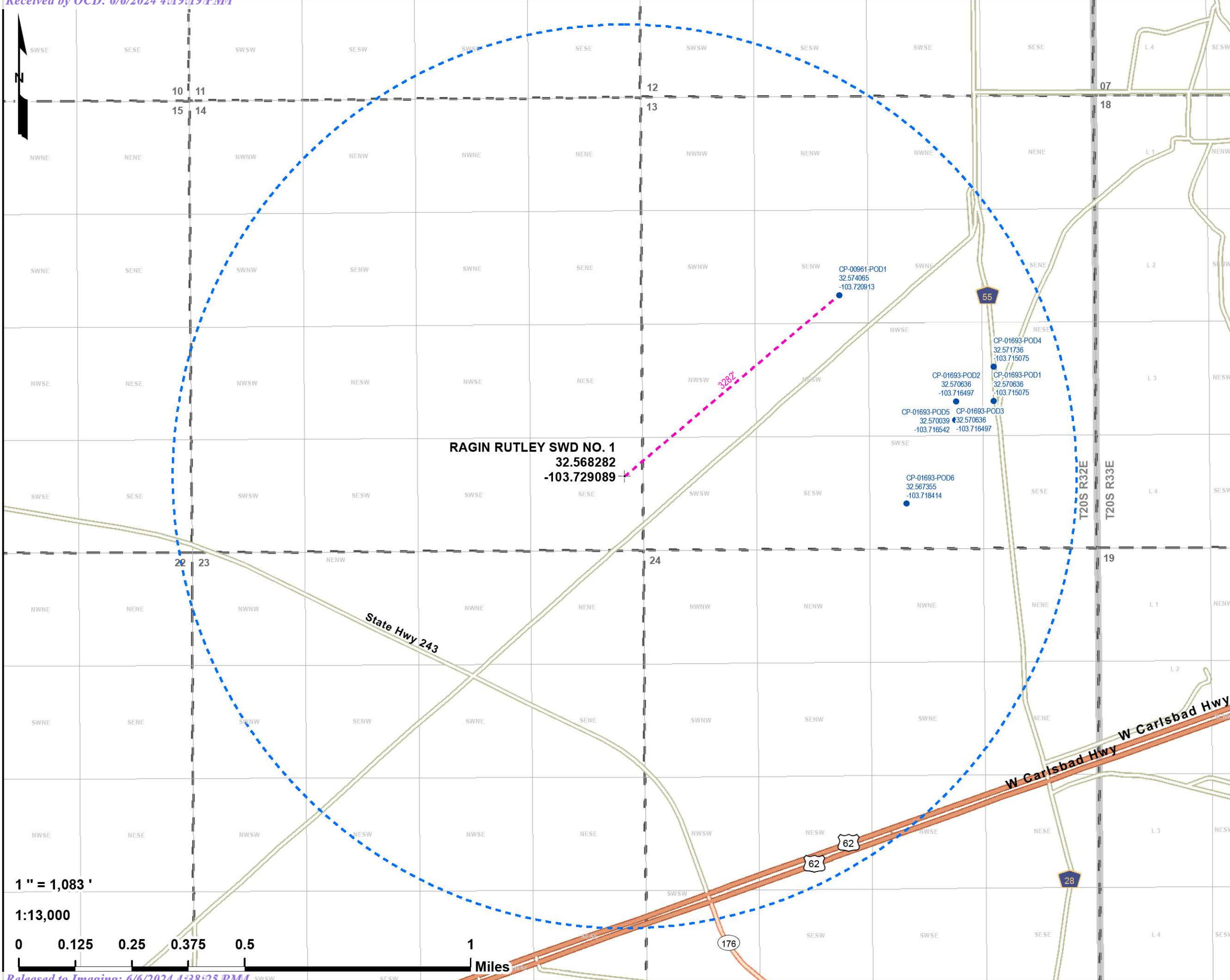
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
 Drawn by: ASG Date: 11/18/2019 Approved by: ELR

LONQUIST & CO. LLC
PETROLEUM ENGINEERS **ENERGY ADVISORS**
 AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- ⊕ Ragin Rutley SWD No. 1 SHL
 - 1-Mile
 - NM-BLM
 - NM-SLO
 - 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 (5)
 - ★ Active - Gas (1)
 - Active - Oil (2)
 - ⊗ Cancelled/Abandoned Location (5)
 - API (30-025-...) BHL Status-Type (Count)**
 - Active - Oil (4)
 - ⊗ Cancelled/Abandoned Location (1)
 - Lessee**
 - COG OPERATING LLC; -V0-2770-0002
 - EOG RESOURCES INC; -NMNM 016640 A
 - EOG RESOURCES INC; -OXY Y-1 COMPANY; -NMNM 063016
 - EOG RESOURCES INC; -SHARBRO ENERGY LLC; -OXY Y-1 COMPANY; -NMNM 077054
 - EOG RESOURCES INC; -V0-4056-0001
 - FASKEN LAND & MINERALS LTD; -NMNM 033955
 - GROSS FAMILY LTD; -TRAINER PARTNERS LTD; -NMNM 077055
 - MARATHON OIL PERMIAN LLC; -NMNM 112275
 - OXY USA INC; NMNM 043735
 - TITUS OIL & GAS CORP; -NMNM 016640 B
 - XTO DELAWARE BASIN, LLC.; -E0-5231-0017
- Source: Water Well Data - NM-OCD (2019)



1" = 1,083'
 1:13,000
 0 0.125 0.25 0.375 0.5 1 Miles



Ragin Rutley SWD No. 1
1 Mile Water Wells - OSE
 Solaris Water Midstream, LLC
 Lea., NM

PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
 Drawn by: ASG | Date: 11/15/2019 | Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | **ENERGY ADVISORS**

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- Ragin Rutley SWD No. 1 SHL
- Water Well (7) [NM-OSE 2019]
- 1-Mile
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)

Source: Water Well Data - NM-OCD (2019)
 Lat/Long Coordinates: NAD 83



1" = 1,083'
 1:13,000
 0 0.125 0.25 0.375 0.5 1 Miles



New Mexico Office of the State Engineer

Water Right Summary



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WR File Number: CP 00961 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: 0 Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: GLOBAL NUCLEAR ENERGY PTP

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
601878	EXPL	2007-03-07	PMT	APR	CP 00961	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc		
			64Q16Q4Sec	Tws	Rng	X	Y				
CP 00961 POD1			4	4	1	13	20S	32E	620062	3604791*	

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

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0		MON		GW

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.

12/5/19 7:06 AM

WATER RIGHT SUMMARY



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Water Right Summary




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WR File Number: CP 00961 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: 0 Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: GLOBAL NUCLEAR ENERGY PTP

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
 get images	601878	EXPL	2007-03-07	PMT	APR	CP 00961	T	0	0

Current Points of Diversion

POD Number	Well Tag	Source	Q (NAD83 UTM in meters)						Other Location Desc				
			64	Q	16	Q	4	Sec		Tws	Rng	X	Y
CP 00961 POD1			4	4	1	13	20	S	32	E	620062	3604791*	

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

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0		MON		GW

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12/5/19 7:09 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



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WR File Number: CP 01693 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Agent: GEOMECHANICS SOUTHWEST INC
 Contact: BRANDEN SANDERS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
615074	EXPL	2017-10-16	PMT	APR	CP 01693	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q	16	Q	4	Sec	Tws	Rng	
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



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WR File Number: CP 01693 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Agent: GEOMECHANICS SOUTHWEST INC
 Contact: BRANDEN SANDERS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
615074	EXPL	2017-10-16	PMT	APR	CP 01693	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q	16	Q	4	Sec	Tws	Rng	
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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WATER RIGHT SUMMARY



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Water Right Summary



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WR File Number: CP 01693 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Agent: GEOMECHANICS SOUTHWEST INC
 Contact: BRANDEN SANDERS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
615074	EXPL	2017-10-16	PMT	APR	CP 01693	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q	16	Q	4	Sec	Tws	Rng	
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



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WR File Number: CP 01693 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Agent: GEOMECHANICS SOUTHWEST INC
 Contact: BRANDEN SANDERS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
615074	EXPL	2017-10-16	PMT	APR	CP 01693	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q	16	Q	4	Sec	Tws	Rng	
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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12/5/19 7:14 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



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WR File Number: CP 01693 Subbasin: CP Cross Reference: -
 Primary Purpose: MON MONITORING WELL
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Agent: GEOMECHANICS SOUTHWEST INC
 Contact: BRANDEN SANDERS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
615074	EXPL	2017-10-16	PMT	APR	CP 01693	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q	16	Q	4	Sec	Tws	Rng	
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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12/5/19 7:14 AM

WATER RIGHT SUMMARY

Ragin' Rutley SWD No. 1 - Offset Produced Water Analysis																			
Wellname	API	Section	Township	Range	Unit	County	Formation	ph	tds_mgl	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl	
LEA 886 STATE #002	3002501744	16	20S	33E	B	LEA	ARTESIA	6.34	133829						82525	785	1427		
LEA 886 STATE #002	3002501744	16	20S	33E	B	LEA	ARTESIA	6.34	133741						82536	851	1427		
ATLANTIC STATE #001	3002501742	16	20S	33E	C	LEA	ARTESIA		13495						7002	1024	609		
LITTLE EDDY UNIT #016	3002521942	16	20S	32E	F	LEA	ARTESIA		30600						15090	608	3947		
WEST TEAS YATES SEVEN RIVERS UNIT #433	3002520332	4	20S	33E	J	LEA	ARTESIA	7.9	17898.7	5960.49	455.85	7.5975	249.198		9682.25	580.449	1093.03		
PLAINS #006	3002520769	21	19S	32E	E	LEA	ARTESIA		135266						84150	144	290		
PLAINS #006	3002520769	21	19S	32E	E	LEA	ARTESIA		137149						84930	290	521		
PLAINS #006	3002520769	21	19S	32E	E	LEA	ARTESIA		163755						101000	195	300		
BONDURANT FEDERAL #001	3002500895	13	19S	32E	I	LEA	ARTESIA		239594						145300	271	820		
BOWMAN FEDERAL #001	3002500923	28	19S	32E	D	LEA	ARTESIA		15821						7812	1502	655		
MAGNOLIA STATE #001	3002501701	32	19S	33E	B	LEA	ARTESIA		8771						4301	1538	180		
NELLIS FEDERAL #003	3002526091	6	19S	33E	F	LEA	ARTESIA	6.8	70660						42600	549	365		
BATE FEDERAL #003	3002522597	35	19S	33E	C	LEA	ARTESIA	7.8	117622						66700	506	5800		
MAHAFFEY ARC FEDERAL #001	3002501735	14	20S	33E	C	LEA	BONE SPRING	7.03	28079						14810	791	1885		
MAHAFFEY ARC FEDERAL #001	3002501735	14	20S	33E	C	LEA	BONE SPRING	7.03	28696						15136	808	1926		
LUSK 16 STATE #002	3002520904	16	19S	32E	K	LEA	BONE SPRING		148331						91520	188	506		
JENNINGS FEDERAL #001	3002524836	15	19S	32E	F	LEA	BONE SPRING	5.8	164916						101031	452	1308		
NELLIS A FEDERAL #004	3002525912	8	19S	33E	E	LEA	BONE SPRING	6.9	48582						28900	763	160		
MALACHITE 22 FEDERAL #001H	3002540318	22	19S	33E	D	Lea	BONE SPRING 1ST SAND	6.4		73407	1293		33	265	0.26	116995	780	480	250
MALACHITE 22 FEDERAL #001H	3002540318	22	19S	33E	D	Lea	BONE SPRING 1ST SAND	6.3		79136	1414		26	271	0.07	125827	1281	300	330
MALACHITE 22 FEDERAL #002H	3002540389	22	19S	33E	C	Lea	BONE SPRING 1ST SAND	6.65	94146	30411.4	4261		16.3	1102	0.3	56987.2	122	1085	120
MALACHITE 22 FEDERAL #001H	3002540318	22	19S	33E	D	Lea	BONE SPRING 1ST SAND	7	153753.1	57364.9	1261		3.5	277	0.2	91996	732	593	250
TAYLOR DRAW 7 FEDERAL #001H	3002541146	7	19S	32E	I	Lea	BONE SPRING 2ND SAND	5.9		86621	9467		153	1801	1.9	154922	207	840	420
TAYLOR DRAW 7 FEDERAL #001H	3002541146	7	19S	32E	I	Lea	BONE SPRING 2ND SAND	6.6	184810	55567.9	10172.4		36.7	1572.6	2.8	114300	122	0	30
HAWKEYE 7 FEDERAL #001	3002500892	7	19S	32E	M	Lea	BONE SPRING 2ND SAND	6.86	91688.5	34069.7	1168		7.1	246.4	0.21	54987.6	366	560	200
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	8.04	20582			100	130	61		11997	635	0	
LUSK AHB FEDERAL #002	3002531042	35	19S	32E	G	LEA	DELAWARE	6.05	220235			22044	45	3525		136969	122	450	
LUSK AHB FEDERAL #005	3002531151	35	19S	32E	B	LEA	DELAWARE	6.86	172408			12024	28	1945		104976	146	1800	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	6.86	125179			4509	8	1520		74983	220	2900	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	7.1	125396			3507	8	912		69984	303	7400	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	6.65	124441			2116	0	1284		69984	400	6750	
LUSK AHB FEDERAL #002	3002531042	35	19S	32E	G	LEA	DELAWARE	6.25	248495			29659	15	3890		154965	98	500	
LUSK AHB FEDERAL #005	3002531151	35	19S	32E	B	LEA	DELAWARE	7.31	187800			14028	0	2188		114974	156	1400	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	7.65	121459			3006	0	1580		69984	400	5000	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	6.65	127100			4409	15	1580		74983	273	3500	
LUSK AHB FEDERAL #002	3002531042	35	19S	32E	G	LEA	DELAWARE	6.21	253165			27054	9	9603		160964	103	150	
LUSK AHB FEDERAL #005	3002531151	35	19S	32E	B	LEA	DELAWARE	6.87	193757			18236	8	6564		121973	137	700	
POLEWSKI FEDERAL #001	3002520161	31	19S	32E	D	LEA	DELAWARE		25908							12546	457	3662	
POLEWSKI FEDERAL #001	3002520161	31	19S	32E	D	LEA	DELAWARE		29793							17950	390	454	
POLEWSKI FEDERAL #001	3002520161	31	19S	32E	D	LEA	DELAWARE		26318										
POLEWSKI FEDERAL #001	3002520161	31	19S	32E	D	LEA	DELAWARE		61165							36500	380	1230	
LUSK AHB FEDERAL #005	3002531151	35	19S	32E	B	LEA	DELAWARE	6.83				13267	0	2086		114974	171	950	
LUSK AHB FEDERAL #006	3002531314	35	19S	32E	A	LEA	DELAWARE	7.23				1769	0	715		59986	415	5000	
LUSK AHB FEDERAL #002	3002531042	35	19S	32E	G	LEA	DELAWARE	5.35				20.1	0	12.2		35.5	61.1	48.8	
PLAINS UNIT FEDERAL #007	3002520770	33	19S	32E	D	LEA	DELAWARE		250653							159500	488	425	
PLAINS FEDERAL UNIT #009	3002523121	33	19S	32E	F	LEA	DELAWARE		257806							162000	0	120	
USA LITTLE EDDY UNIT #001	3002500960	25	20S	32E	P	LEA	MORROW		28815							16160	593	1176	
USA LITTLE EDDY UNIT #001	3002500960	25	20S	32E	P	LEA	MORROW		28550							14320	818	1280	
LITTLE EDDY UNIT #003	3002501770	31	20S	33E	O	LEA	MORROW		195142							120000	142	1350	
LITTLE EDDY UNIT #003	3002501770	31	20S	33E	O	LEA	MORROW		59475							34730	380	1560	
LUSK AHB FEDERAL #001	3002530808	35	19S	32E	B	LEA	MORROW	6.8	128189			2505	93	1216		74983	195	3900	
LUSK AHB FEDERAL #001	3002530808	35	19S	32E	B	LEA	MORROW	6.2	158447			6878	75	1797		91979	303	6100	
LUSK AHB FEDERAL #001	3002530808	35	19S	32E	B	LEA	MORROW	6.96	164047			9018	41	1216		96978	225	4250	
LUSK AHB FEDERAL #001	3002530808	35	19S	32E	B	LEA	MORROW	6.59				4717	0	1311		86980	244	2350	
LUSK AHB FEDERAL #001	3002530808	35	19S	32E	B	LEA	MORROW	6.77				3931	138	2086		74983	259	2800	
INEXCO AHY FEDERAL #001	3002525470	7	19S	33E	H	LEA	PENNSYLVANIAN	6.5				5600	50	975.3		37062	610	12.5	
BUFFALO FEDERAL UNIT #004	3002501661	4	19S	33E	H	LEA	PENNSYLVANIAN		163468							99880	415	848	
BUFFALO FEDERAL UNIT #004	3002501661	4	19S	33E	H	LEA	PENNSYLVANIAN		17108							9398	610	991	
BUFFALO FEDERAL UNIT #004	3002501661	4	19S	33E	H	LEA	PENNSYLVANIAN		21444							11400	881	1537	
BUFFALO FEDERAL UNIT #004	3002501661	4	19S	33E	H	LEA	PENNSYLVANIAN		154414							94260	377	688	
NELLIS FEDERAL #001	3002501663	5	19S	33E	O	LEA	PENNSYLVANIAN		38798							23050	366	360	
NELLIS FEDERAL #001	3002501663	5	19S	33E	O	LEA	PENNSYLVANIAN		67912							40630	398	934	
NELLIS FEDERAL #001	3002501663	5	19S	33E	O	LEA	PENNSYLVANIAN		24440							13420	825	990	
FEDERAL AC #002	3002501675	18	19S	33E	E	LEA	PENNSYLVANIAN		46219							26980	734	850	
FEDERAL AC #002	3002501675	18	19S	33E	E	LEA	PENNSYLVANIAN		1305							140	622	510	
ELLIOTT HALL A #001	3002520104	30	19S	32E	A	LEA	STRAWN		38680							22980	230	310	
MIDDELTON A FEDERAL #001	3002508104	18	19S	32E	H	LEA	STRAWN		147995							93600	300	140	
MIDDELTON A FEDERAL #001	3002508104	18	19S	32E	H	LEA	STRAWN		136947										

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

The proposed well is located in Lea County, New Mexico. The proposed Ragin Rutley SWD No.1 well is located in Township 20 South, Range 32 East, Section 14; thirty miles east of Carlsbad. 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 22 miles south of the proposed location, where a magnitude 3.1 earthquake was recorded on March 18, 2012 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 were 10.0 and 17.12 miles northwest and southeast of the proposed locations.

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 no faulting in the area of the proposed wells. Faulting in the New Mexico portion of the Delaware Basin generally shows less than a 10% probability of fault slip movement.

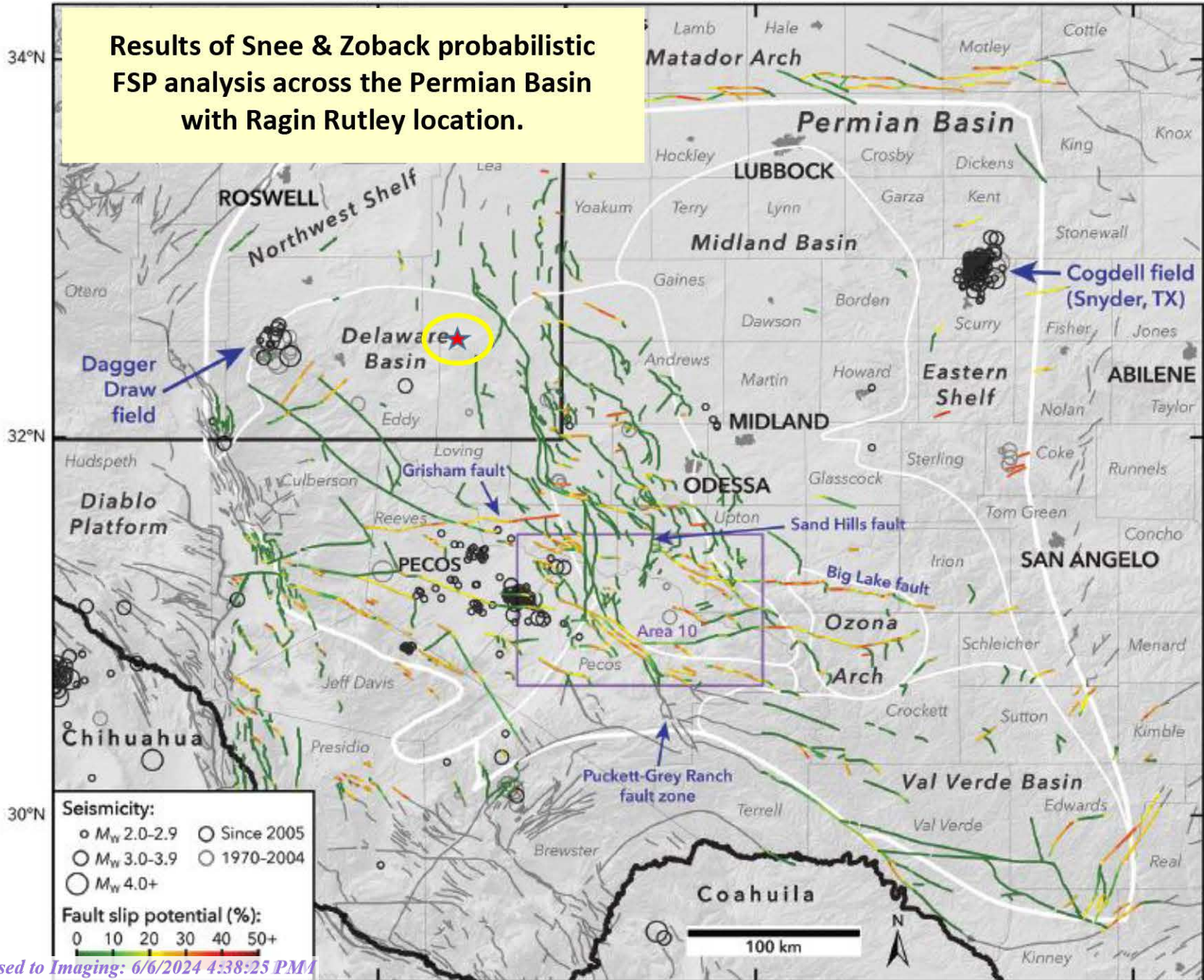
The distance from the proposed wells to the closest mapped faults yields an extremely low probability that the faults will become critically stressed by injection into the referenced wells.



Tyler F. Moehlman

Petroleum Engineer, Lonquist & Co. LLC

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



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

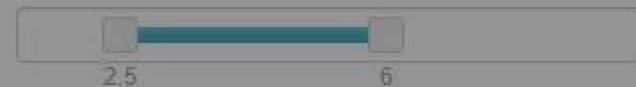
Seismic Regions



Require Focal Mechanism?



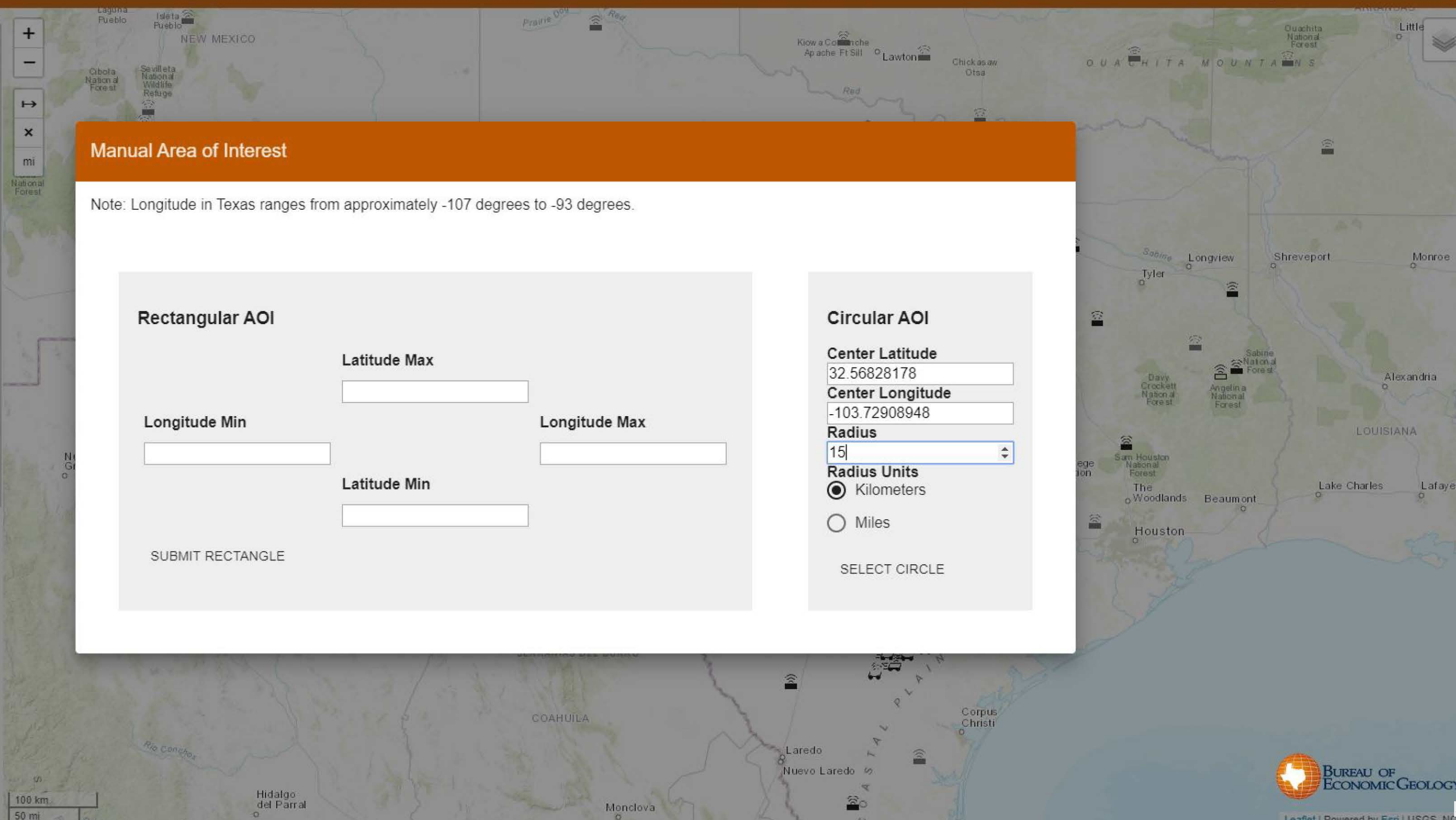
Earthquake Magnitude



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

Longitude Min:

Latitude Max:

Longitude Max:

Latitude Min:

SUBMIT RECTANGLE

Circular AOI

Center Latitude:

Center Longitude:

Radius:

Radius Units: Kilometers Miles

SELECT CIRCLE

- TexNet Permanent
- TexNet Portable
- Temporary
- Other Networks

Seismic Regions

Require Focal Mechanism?

Earthquake Magnitude

Lock Magnitude

2 6

Date Range

SELECT DATE RANGE...

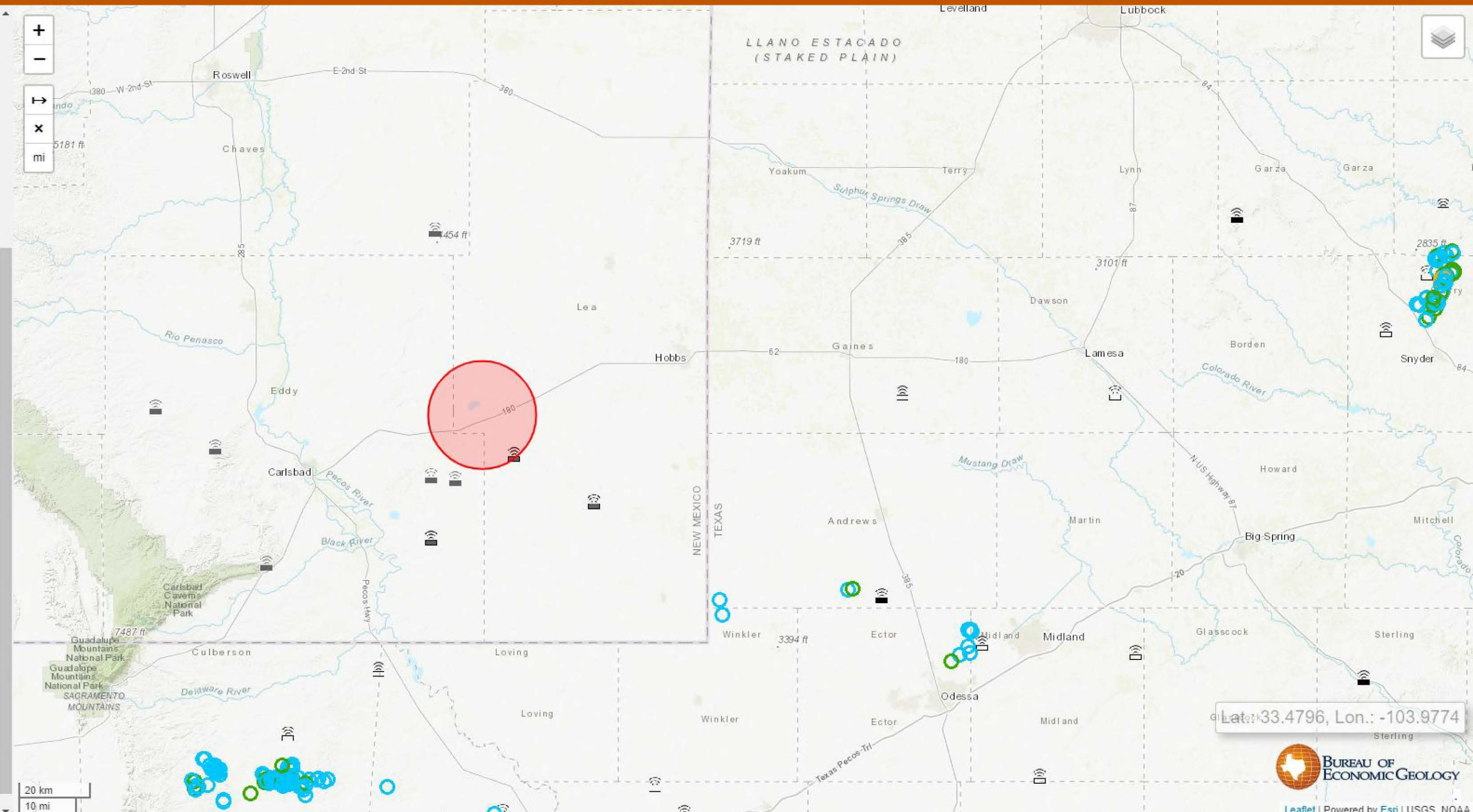
Earliest Date: 1/1/2017

Latest Date: 12/7/2019

Did you feel an earthquake? You can report it to USGS [here](#).

Last Earthquake Added: 2019-12-06 21:50:18 (UTC)

Selected Events (Total 0)
Released to Imaging: 6/6/2024 4:38:25 PM



Lat: 33.4796, Lon.: -103.9774



Date & Time

Past 7 Days

Past 30 Days

Custom

Start (UTC)

1900-01-01 00:00:00

End (UTC)

2019-12-07 23:59:59

Geographic Region

World

Conterminous U.S.¹

Custom

Custom Circle

- 32.56828178 Latitude
- -103.72908948 Longitude
- 15 Radius (km)

[Draw Rectangle on Map](#)

2.5+

4.5+

Custom

Minimum

2

Maximum

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

32.56828178

Center Longitude

-103.72908948

Outer Radius (km)

¹⁵
Released to Imaging: 6/6/2024 4:38:25 PM

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

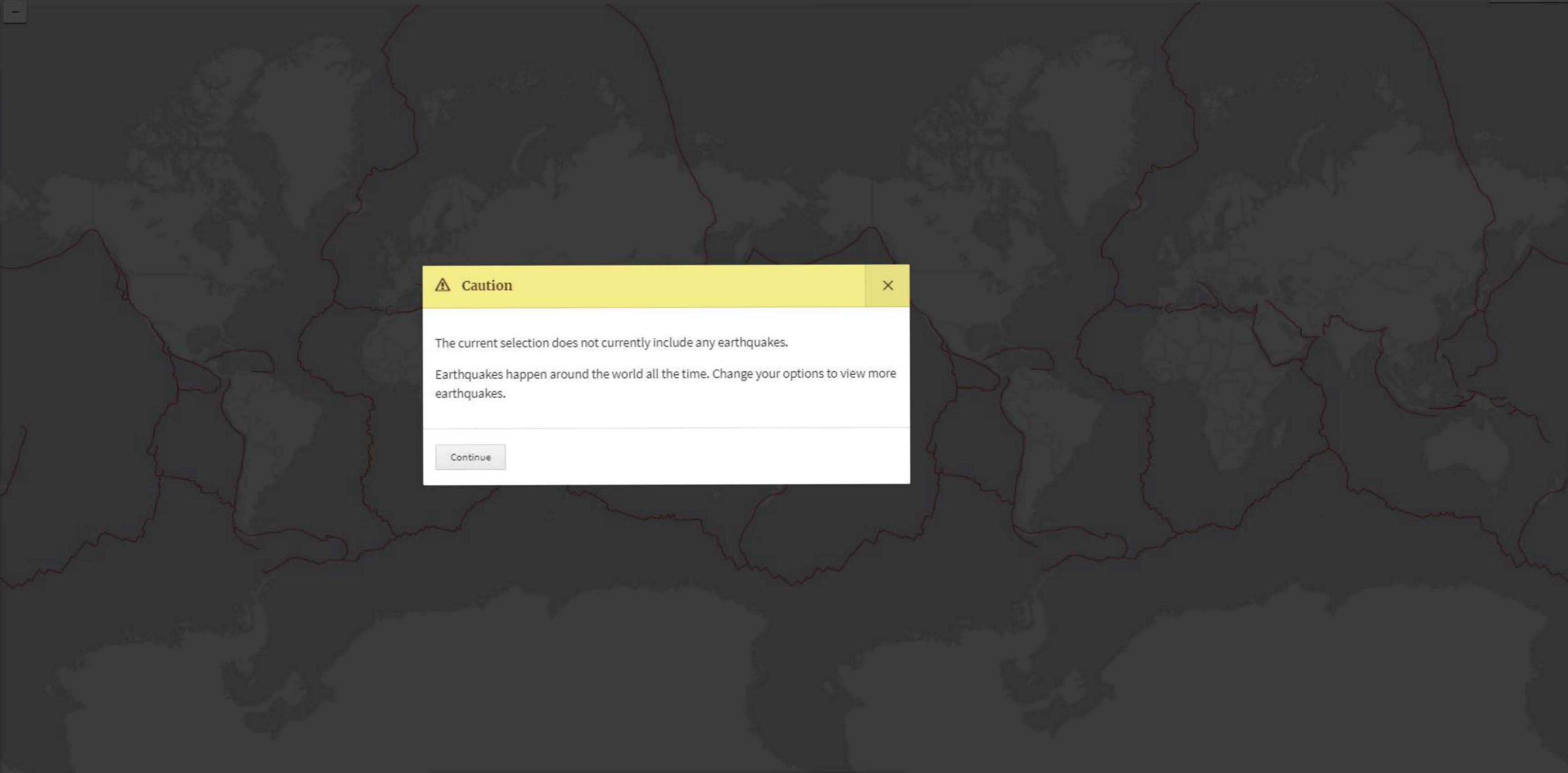
There are no events in the current feed.

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 ✕



- 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

- 32.56828178 Latitude
- -103.72908948 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

Center Longitude

Outer Radius (km)

Released to Imaging: 6/6/2024 4:38:25 PM

Depth (km)

Minimum

Maximum

Azimuthal Gap

Minimum

Maximum

Review Status

- Any
- Automatic
- Reviewed

Search Results

0 of 0 earthquakes in map area.

Click for more information

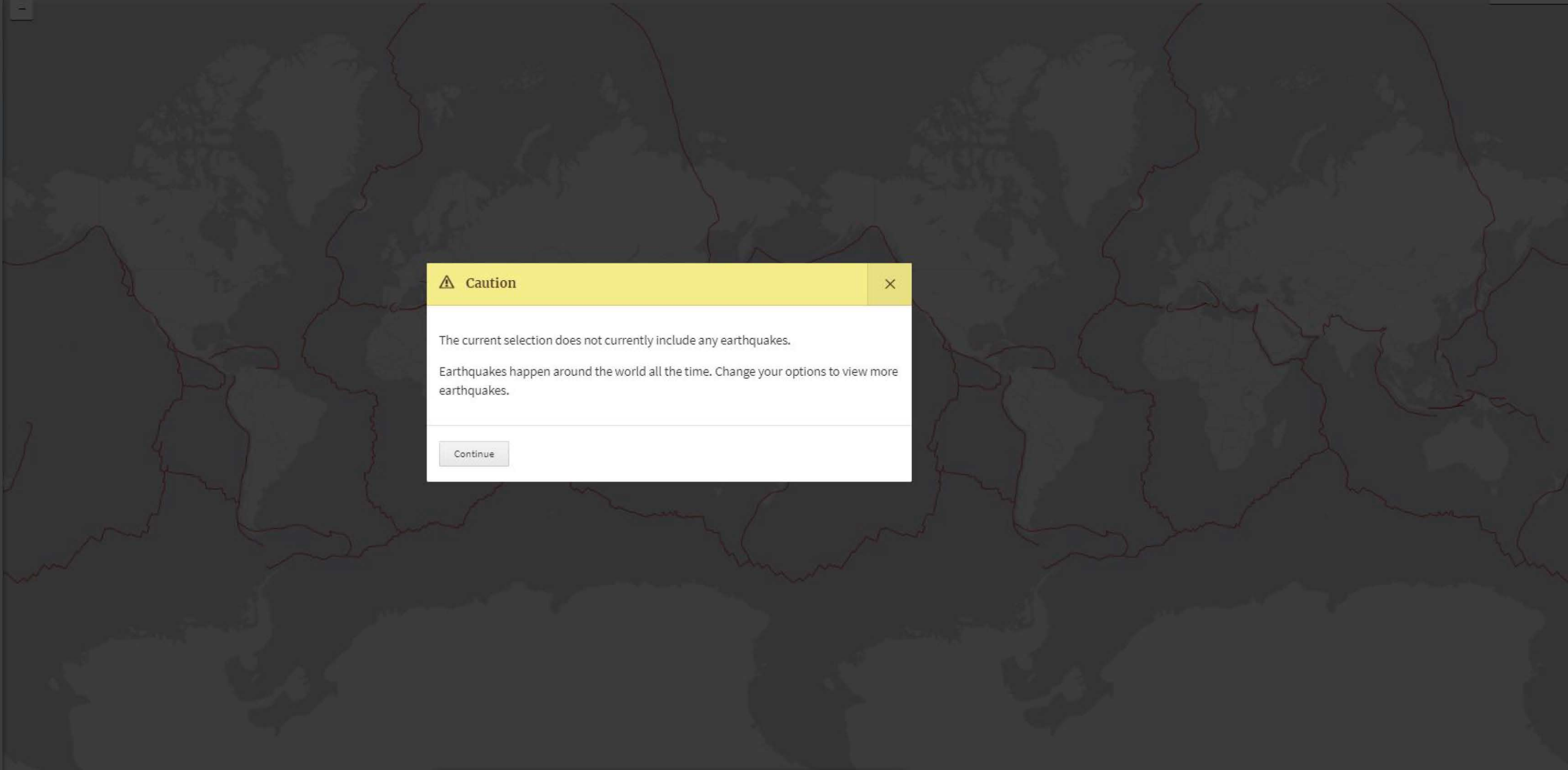
There are no events in the current feed.

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.](#)



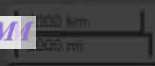
Zoom to... ▾



⚠ **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.



Earthquakes loading
✕

Date & Time

- Past 7 Days
- Past 30 Days
- Custom

Start (UTC)

1900-00-00 00:00:00

End (UTC)

2019-12-07 23:59:59

Geographic Region

- World
- Conterminous U.S.¹
- Custom

Custom Circle

- 32.56828178 Latitude
- -103.72908948 Longitude
- 50 Radius (km)

Draw Rectangle on Map

Minimum

2

Maximum

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

32.56828178

Center Longitude

-103.72908948

Outer Radius (km)

Released to Imaging: 6/6/2024 4:38:25 PM

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

3.1	New Mexico	2012-03-18 10:57:22 (UTC)	5.0 km
2.9	New Mexico	1984-12-04 20:36:36 (UTC)	5.0 km
3.9	New Mexico	1974-11-28 03:35:20 (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.](#)



Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

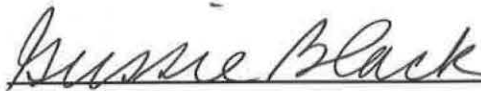
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 04, 2019
and ending with the issue dated
December 04, 2019.



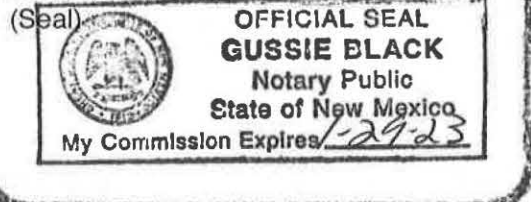
Publisher

Sworn and subscribed to before me this
4th day of December 2019.



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
DECEMBER 4, 2019

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706, is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well, Ragin Rutley SWD No. 1. The proposed well will be located 857' FSL & 228' FEL in Section 14, Township 20S, Range 32E 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 a maximum applied for top of 14,463 feet to a maximum depth of 16,263 feet. The maximum surface injection pressure will not exceed 2,893 psi with a maximum rate of 40,000 BWP. 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) 600-1777. #34940

67112661

00236790

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 Ragin Rutley SWD No. 1 application by mailing them a copy of Form C-108 on 12/9/2019. 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: Solaris Water Midstream, LLC
Ragin Rutley SWD No. 1

Ragin Rutley 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
11/T20S/R32E	N,O,P	-	OXY USA INC	-	-	PO BOX 27570	HOUSTON TX 772277570
	N,O,P	-	BP AMERICA PRODUCTION CO (OPERATING RIGHTS)	-	-	PO BOX 3092	HOUSTON TX 772533092
	N,O,P	-	ANADARKO E & P ONSHORE LLC (OPERATING RIGHTS)	-	-	PO BOX 173779	DENVER CO 802173779
12/T20S/R32E	M,N	-	EOG RESOURCES INC	-	-	PO BOX 4362	HOUSTON TX 772104362
	M,N	-	SHARBRO ENERGY LLC	-	-	PO BOX 840	ARTESIA NM 882110840
	M,N	-	OXY Y-1 COMPANY	-	-	PO BOX 27570	HOUSTON TX 772277570
	O	-	EOG RESOURCES INC	-	-	P.O. BOX 2267	MIDLAND, TX 79702
13/T20S/R32E	N	COG OPERATING LLC	-	-	-	600 W ILLINOIS AVE	MIDLAND, TX 79701
	C,D,E,F,L,K,M,N	-	COG OPERATING LLC	-	-	600 W ILLINOIS AVE	MIDLAND, TX 79701
	A,B,G,H	-	XTO DELAWARE BASIN, LLC.	-	-	22777 SPRINGWOODS VILLAGE PKWY	SPRING, TX 77389
14/T20S/R32E	B,D,E,G,J,L,M,N,O,P	EOG RESOURCES INC	-	-	-	P.O. Box 2267	MIDLAND, TX 79702
	A	MARATHON OIL PERMIAN LLC	-	-	-	5555 SAN FELIPE St.	HOUSTON, TX 77056
	ENTIRE SECTION	-	EOG RESOURCES INC	-	-	PO BOX 4362	HOUSTON TX 772104362
	ENTIRE SECTION	-	OXY Y-1 COMPANY	-	-	PO BOX 27570	HOUSTON TX 772277570
15/T20S/R32E	I,P	-	MARATHON OIL PERMIAN LLC (LESSEE)	-	-	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P	-	HANLEY PETROLEUM LLC (OPERATING RIGHTS)	-	-	415 W WALL ST STE 1500	MIDLAND TX 797014455
	I,P	-	SLADE JARVIS J (OPERATING RIGHTS)	-	-	535 MADISON AVE FL 4	NEW YORK NY 100224291
	I,P	-	H6 HOLDING LLC (OPERATING RIGHTS)	-	-	PO BOX 1212	MIDLAND TX 797021212
	I,P	-	TBO OIL & GAS LLC (OPERATING RIGHTS)	-	-	4505 MOCKINGBIRD LN	MIDLAND TX 797071617
	I,P	-	MARATHON OIL PERMIAN LLC (OPERATING RIGHTS)	-	-	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P	-	VERITAS PERMIAN RESOURCES LLC (OPERATING RIGHTS)	-	-	PO BOX 10850	FORT WORTH TX 761140850
	I,P	-	LHAH PROPERTIES LLC (OPERATING RIGHTS)	-	-	415 W WALL ST STE 1500	MIDLAND TX 797014455
22/T20S/R32E	A	-	FASKEN LAND & MINERALS LTD	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	A	-	WHITING 1988 PROD (OPERATING RIGHTS)	-	-	1700 BROADWAY #2300	DENVER CO 802902301
	A	-	FASKEN BARBARA (OPERATING RIGHTS)	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	A	-	FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
23/T20S/R32E	K	FASKEN OIL & RANCH LTD	-	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION	-	FASKEN LAND & MINERALS LTD	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION	-	WHITING 1988 PROD (OPERATING RIGHTS)	-	-	1700 BROADWAY #2300	DENVER CO 802902301
	ENTIRE SECTION	-	FASKEN BARBARA (OPERATING RIGHTS)	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	ENTIRE SECTION	-	FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	-	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
24/T20S/R32E	A,B,E,F,G,H	-	TITUS OIL & GAS CORP	-	-	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	C,D	-	GROSS FAMILY LTD	-	-	PO BOX 358	ROSWELL NM 88202
	C,D	-	TRAINER PARTNERS LTD	-	-	PO BOX 3788	MIDLAND TX 79702378
	C,D	-	TITUS OIL & GAS CORP (OPERATING RIGHTS)	-	-	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	J,K,L,M,N	-	EOG RESOURCES INC	-	-	PO BOX 2267	MIDLAND TX 79702
Surface Location	-	-	-	-	BLM	-	-

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



9314 8699 0430 0066 4498 61

RETURN RECEIPT (ELECTRONIC)



Total Postage: \$6.55

OIL CONSERVATION DIVISION DISTRICT I
1625 N. French Drive
2241-RAGIN RUTLEY SWD #1
Hobbs, NM 88240

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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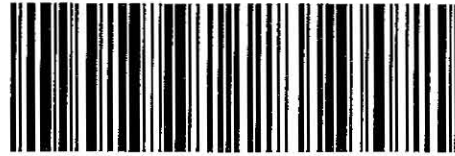


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BUREAU OF LAND MANAGEMENT
301 Dinosaur Trail
2241-RAGIN RUTLEY SWD #1
Santa Fe, NM 87508

Reference Number: 2241-RAGIN RUTLEY SWD #1

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Houston, TX 77002



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

Reference Number: 2241-RAGIN RUTLEY SWD #1

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Houston, TX 77002



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ANADARKO E & P ONSHORE LLC
PO BOX 173779
2241-RAGIN RUTLEY SWD #1
DENVER , CO 80217-3779

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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BP AMERICA PRODUCTION CO
PO BOX 3092
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HOUSTON , TX 77253-3092

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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COG OPERATING LLC
600 W ILLINOIS AVE
2241-RAGIN RUTLEY SWD #1
MIDLAND, TX 79701

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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EOG RESOURCES INC
PO BOX 4362
2241-RAGIN RUTLEY SWD #1
HOUSTON, TX 77210-4362

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



9314 8699 0430 0066 4499 39

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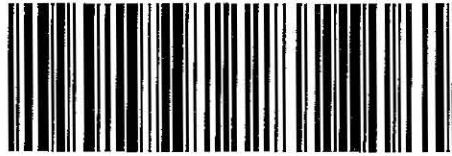


Total Postage: \$6.55

EOG RESOURCES INC
P.O. BOX 2267
2241-RAGIN RUTLEY SWD #1
MIDLAND, TX 79702

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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BARBARA FASKEN
FASKEN LAND & MINERALS LTD
6101 HOLIDAY HILL RD
FASKEN OIL & RANCH LTD
2241-RAGIN RUTLEY SWD #1
MIDLAND , TX 79707-1631

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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GROSS FAMILY LTD
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2241-RAGIN RUTLEY SWD #1
ROSWELL , NM 88202

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



9314 8699 0430 0066 4499 60

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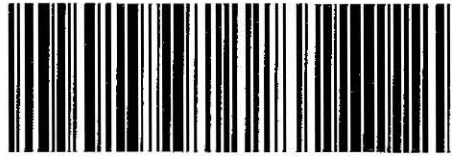


Total Postage: \$6.55

H6 HOLDING LLC
PO BOX 1212
2241-RAGIN RUTLEY SWD #1
MIDLAND , TX 79702-1212

Reference Number: 2241-RAGIN RUTLEY SWD #1

Ramona Hovey
Lonquist & CO LLC
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Houston, TX 77002



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HANLEY PETROLEUM LLC
LHAH PROPERTIES
415 W WALL ST STE 1500
2241-RAGIN RUTLEY SWD #1
MIDLAND , TX 79701-4455

Reference Number: 2241-RAGIN RUTLEY SWD #1

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Lonquist & CO LLC
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MARATHON OIL PERMIAN LLC
5555 SAN FELIPE St.
2241-RAGIN RUTLEY SWD #1
HOUSTON, TX 77056

Reference Number: 2241-RAGIN RUTLEY SWD #1

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Lonquist & CO LLC
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Houston, TX 77002



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OXY USA INC
OXY Y-1 COMPANY
PO BOX 27570
2241-RAGIN RUTLEY SWD #1
HOUSTON , TX 77227-7570

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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SHARBRO ENERGY LLC
PO BOX 840
2241-RAGIN RUTLEY SWD #1
ARTESIA , NM 88211-0840

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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JARVIS J SLADE
535 MADISON AVE FL 4
2241-RAGIN RUTLEY SWD #1
NEW YORK , NY 10022-4291

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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TBO OIL & GAS LLC
4505 MOCKINGBIRD LN
2241-RAGIN RUTLEY SWD #1
MIDLAND , TX 79707-1617

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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TITUS OIL & GAS CORP
100 THROCKMORTON ST STE 1630
2241-RAGIN RUTLEY SWD #1
FORT WORTH, TX 76102-2846

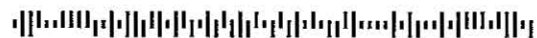
Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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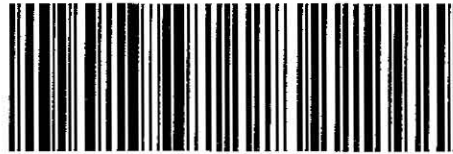


Total Postage: \$6.55

TRAINER PARTNERS LTD
PO BOX 3788
2241-RAGIN RUTLEY SWD #1
MIDLAND , TX 79702-2378

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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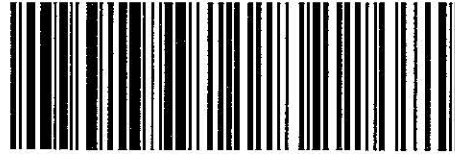


Total Postage: \$6.55

VERITAS PERMIAN RESOURCES LLC
PO BOX 10850
2241-RAGIN RUTLEY SWD #1
FORT WORTH, TX 76114-0850

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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WHITING 1988 PROD
1700 BROADWAY #2300
2241-RAGIN RUTLEY SWD #1
DENVER , CO 80290-2301

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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XTO DELAWARE BASIN, L.L.C.
22777 SPRINGWOODS VILLAGE PKWY
2241-RAGIN RUTLEY SWD #1
SPRING, TX 77389

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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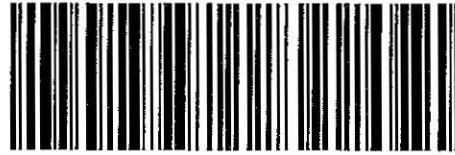


Total Postage: \$6.55

Ralph E Williamson
PO Box 994
2241-RAGIN RUTLEY SWD #1
Midland, TX 79702

Reference Number: 2241-RAGIN RUTLEY SWD #1

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



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Total Postage: \$6.55

WPX Energy Permian LLC
3500 One Williams Center
2241-RAGIN RUTLEY SWD #1
Tulsa, OK 74172

Reference Number: 2241-RAGIN RUTLEY SWD #1



C-108 APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

PO Number: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
I. PURPOSE	Selection of proper application type.		
II. OPERATOR	Name; address; contact information.		
III. WELL DATA	Well name and number; STR location; footage location within section.		
	Each casing string to be used, including size, setting depth, sacks of cement, hole size, top of cement, and basis for determining top of cement.		
	Description of tubing to be used including size, lining material, and setting depth.		
	Name, model, and setting depth of packer to be used, or description of other seal system or assembly to be used.		
	Well diagram: Existing (if applicable).		
	Well diagram: Proposed (either Applicant's template or Division's Injection Well Data Sheet).		
IV. EXISTING PROJECT	For an expansion of existing well, Division order number authorizing existing well (if applicable).		
V. LEASE AND WELL MAP	AOR map identifying all wells and leases within 2 mile radius of proposed well, and depicting a 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
VI. AOR WELLS	Tabulation of data for all wells of public record within AOR which penetrate the proposed injection zone, including well type, construction, date drilled, location, depth, and record of completion.		
	Schematic of each plugged well within AOR showing all plugging detail.		
VII. PROPOSED OPERATION	Proposed average and maximum daily rate and volume of fluids to be injected.		
	Statement that the system is open or closed.		
	Proposed average and maximum injection pressure.		
	Sources and analysis of injection fluid, and compatibility with receiving formation if injection fluid is not produced water.		
	A chemical analysis of the disposal zone formation water if the injection is for disposal and oil or gas is not produced or cannot be produced from the formation within 1 mile of proposed well. Chemical analysis may be based on sample, existing literature, studies, or nearby well.		
VIII. GEOLOGIC DATA	Proposed injection interval, including appropriate lithologic detail, geologic name, thickness, and depth.		
	USDW of all aquifers overlying the proposed injection interval, including geologic name and depth to bottom.		
	USDW of all aquifers underlying the proposed injection interval, including including the geologic name and depth to bottom.		



C-108 (SWD) APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

PO Number: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
IX. PROPOSED STIMULATION	Description of stimulation process or statement that none will be conducted.		
X. LOGS/WELL TESTS	Appropriate logging and test data on the proposed well or identification of well logs already filed with OCD.		
XI. FRESH WATER	Chemical analysis of fresh water from two or more fresh water wells (if available and producing) within 1 mile of the proposed well, including location and sampling date(s).		
XII. AFFIRMATION STATEMENT	Statement of qualified person endorsing the application, including name, title, and qualifications.		
XIII. PROOF OF NOTICE	Identify of all "affected persons" identified on AOR map in Section V, including all affected persons within 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
	Identification and notification of all surface owners.		
	BLM and/or NMSLO notified per 19.15.2.7(A)(8)(d) NMAC.		
	Notice of publication in local newspaper in county where proposed well is located with the following specific content:		
	<ul style="list-style-type: none"> • Name, address, phone number, and contact party for Applicant; 		
	<ul style="list-style-type: none"> • Intended purpose of proposed injection well, including exact location of a single well, or the section, township, and range location of multiple wells; 		
	<ul style="list-style-type: none"> • Formation name and depth, and expected maximum injection rates and pressures; and 		
XIV. CERTIFICATION	Signature by operator or designated agent, including date and contact information.		

Review Date*:

Reviewer:

- Administratively COMPLETE**
- Administratively INCOMPLETE**

NOTES:

* The Review Date is the date of administrative completeness determination that commences the 15 day protest period in 19.15.26.8 (C)(2) NMAC.

Ragin' Rutley SWD #1 - 1-Mile Area of Review Wells
March 28, 2024

<i>API</i>	<i>OGRID Name</i>	<i>Well Name</i>	<i>Well Type</i>	<i>Well Status</i>	<i>PLSS Location (ULSTR)</i>	<i>Lease Type</i>	<i>SPUD Date</i>
30-025-24997	COG OPERATING LLC	HANSON STATE #001	Gas	Active	N-13-20S-32E	State	8/10/1975
30-025-26826	EOG RESOURCES INC	BELCO AIA FEDERAL #001	Oil	Active	J-14-20S-32E	Federal	12/31/9999
30-025-38719	EOG RESOURCES INC	BELCO AIA FEDERAL #003H	Oil	Active	J-14-20S-32E	Federal	2/19/2008
30-025-40230	MARATHON OIL PERMIAN LLC	QUEENIE 15 FEDERAL #001H	Oil	Active	M-14-20S-32E	Federal	10/4/2011
30-025-38818	EOG RESOURCES INC	BELCO AIA FEDERAL #004H	Oil	Active	M-14-20S-32E	Federal	4/3/2008
30-025-38527	EOG RESOURCES INC	BELCO AIA FEDERAL #002H	Oil	Active	M-14-20S-32E	Federal	12/5/2006
30-025-36042	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #003C	Oil	Cancelled	B-23-20S-32E	Federal	12/31/9999
30-025-24405	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Cancelled	F-23-20S-32E	Federal	12/31/9999
30-025-36043	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #009	Oil	Cancelled	H-23-20S-32E	Federal	12/31/9999
30-025-32670	BARBARA FASKEN	BAETZ 23 #002	Oil	Cancelled	J-23-20S-32E	Federal	12/31/9999
30-025-40815	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #002C	Oil	Cancelled	K-23-20S-32E	Federal	12/31/9999
30-025-26414	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #001	Oil	Active	K-23-20S-32E	Federal	12/31/9999
30-025-51448	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #224H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52271	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #114H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52272	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #304H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52273	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #324H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52274	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #434H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-51447	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #223H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52267	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #303H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52268	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #223H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52269	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #213H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52270	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #114H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52262	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #432H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52263	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #322H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52264	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #302H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52265	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #112H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52266	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #113H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-26416	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Cancelled	D-24-20S-32E	Federal	12/31/9999
30-025-50824	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #111H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50825	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #221H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50826	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #301H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50827	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #321H	Oil	New	D-24-20S-32E	Federal	12/31/9999

Ragin' Rutley SWD #1 - Affected Parties List (within 1-Mile Area of Review)
March 28, 2024

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	SURFACE OWNER	ADDRESS	CITY, STATE, ZIP
11/T20S/R32E	N,O,P	-	OXY USA INC	BLM	PO BOX 27570	HOUSTON TX 772277570
	N,O,P		BP AMERICA PRODUCTION CO (OPERATING RIGHTS)	BLM	PO BOX 3092	HOUSTON TX 772533092
	N,O,P		ANADARKO E & P ONSHORE LLC (OPERATING RIGHTS)	BLM	PO BOX 173779	DENVER CO 802173779
12/T20S/R32E	M,N	-	EOG RESOURCES INC	BLM	PO BOX 4362	HOUSTON TX 772104362
	M,N		SHARBRO ENERGY LLC	BLM	PO BOX 840	ARTESIA NM 882110840
	M,N		OXY Y-1 COMPANY	BLM	PO BOX 27570	HOUSTON TX 772277570
	O		EOG RESOURCES INC	BLM	P.O. BOX 2267	MIDLAND, TX 79702
13/T20S/R32E	N	COG OPERATING LLC	-	STATE	600 W ILLINOIS AVE	MIDLAND, TX 79701
	C,D,E,F,L,K,M,N		COG OPERATING LLC	STATE	600 W ILLINOIS AVE	MIDLAND, TX 79701
	A,B,G,H		XTO DELAWARE BASIN, LLC.	STATE	22777 SPRINGWOODS VILLAGE PKWY	SPRING, TX 77389
14/T20S/R32E	B,D,E,G,J,L,M,N,O,P	EOG RESOURCES INC	-	BLM	P.O. Box 2267	MIDLAND, TX 79702
	A ,M	MARATHON OIL PERMIAN LLC	-	BLM	5555 SAN FELIPE St.	HOUSTON, TX 77056
	ENTIRE SECTION		EOG RESOURCES INC	BLM	PO BOX 4362	HOUSTON TX 772104362
	ENTIRE SECTION		OXY Y-1 COMPANY	BLM	PO BOX 27570	HOUSTON TX 772277570
15/T20S/R32E	I,P	-	MARATHON OIL PERMIAN LLC (LESSEE)	BLM	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P		HANLEY PETROLEUM LLC (OPERATING RIGHTS)	BLM	415 W WALL ST STE 1500	MIDLAND TX 797014455
	I,P		SLADE JARVIS J (OPERATING RIGHTS)	BLM	535 MADISON AVE FL 4	NEW YORK NY 100224291
	I,P		H6 HOLDING LLC (OPERATING RIGHTS)	BLM	PO BOX 1212	MIDLAND TX 797021212
	I,P		TBO OIL & GAS LLC (OPERATING RIGHTS)	BLM	4505 MOCKINGBIRD LN	MIDLAND TX 797071617
	I,P		MARATHON OIL PERMIAN LLC (OPERATING RIGHTS)	BLM	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P		VERITAS PERMIAN RESOURCES LLC (OPERATING RIGHTS)	BLM	PO BOX 10850	FORT WORTH TX 761140850
	I,P		LHAH PROPERTIES LLC (OPERATING RIGHTS)	BLM	415 W WALL ST STE 1500	MIDLAND TX 797014455
22/T20S/R32E	A	-	FASKEN LAND & MINERALS LTD	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	A		WHITING 1988 PROD (OPERATING RIGHTS)	BLM	1700 BROADWAY #2300	DENVER CO 802902301
	A		FASKEN BARBARA (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	A		FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
23/T20S/R32E	K	FASKEN OIL & RANCH LTD	-	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION		FASKEN LAND & MINERALS LTD	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION		WHITING 1988 PROD (OPERATING RIGHTS)	BLM	1700 BROADWAY #2300	DENVER CO 802902301

	ENTIRE SECTION		FASKEN BARBARA (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	ENTIRE SECTION		FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
24/T20S/R32E	E,F,G,H	-	TITUS OIL & GAS CORP	BLM	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	A,B,C,D	EARTHSTONE OPERATING, LLC	-		300 N. MARIENFELD ST., STE 1000	MIDLAND, TX 79701
	C,D		GROSS FAMILY LTD	BLM	PO BOX 358	ROSWELL NM 88202
	C,D		TRAINER PARTNERS LTD	BLM	PO BOX 3788	MIDLAND TX 79702378
	C,D		TITUS OIL & GAS CORP (OPERATING RIGHTS)	BLM	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
J,K,L,M,N	-		EOG RESOURCES INC	BLM	PO BOX 2267	MIDLAND TX 79702

Application of Solaris Water Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico. Solaris Water Midstream, LLC (“Applicant”) applies for an order approving its proposed Ragin Rutley SWD No. 1, to be drilled at a location 857’ from the south line and 228’ from the east line, in Unit P of Section 14, Township 20 South, Range 32 East, Lea County, New Mexico for the purpose of operating the Ragin Rutley SWD No. 1 as a saltwater disposal well. Applicant seeks authorization to inject produced water into the Devonian, Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) at a depth of approximately 14,463 to 16,263 feet. Solaris proposes to inject an average of 30,000 barrels of water per day up to a maximum of 40,000 barrels of water per day and requests that the New Mexico Oil Conservation Division approve a maximum surface injection pressure of 2,892 psi. The well is located approximately 30 miles northeast of Carlsbad, New Mexico.

API14	Operator Company Name	Well Name	Well Number	Target Formation	Producing Reservoir	DI Landing Zone	DI Lateral Length	Well Status	Spud Date	Completion Date	First Prod Date	Last Prod Date	Latest Water	Cum Water	First 12 Water	First 24 Water
		SANDRA JEAN 23 FEDERAL COM	402H					4505 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	803H					4604 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	403H					4504 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	303H					4546 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	802H					4615 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	204H					4456 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	203H					4505 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	755H					4527 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	754H					4505 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	655H					4525 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	654H					4505 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	606H					4580 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	605H					4605 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	604H					4509 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	506H					4611 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	505H					4606 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	504H					4511 PERMITTED								
		GAVILON FEDERAL COM	134H					9403 PERMITTED								
		GAVILON FEDERAL COM	124H					9406 PERMITTED								
		GAVILON FEDERAL COM	114H					9408 PERMITTED								
		GAVILON FEDERAL COM	104H					9410 PERMITTED								
		JADE 34 3 HKY FEDERAL COM	016H					10353 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	752H					4667 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	503H					4665 PERMITTED								
		ROBIN FEDERAL COM	172H					8736 DUC	4/1/2024							
		ROBIN FEDERAL COM	171H					8709 PERMITTED								
		ROBIN FEDERAL COM	124H					8538 PERMITTED								
		ROBIN FEDERAL COM	122H					8514 PERMITTED								
		ROBIN FEDERAL COM	121H					8566 PERMITTED								
		ROBIN FEDERAL COM	112H					8504 PERMITTED								
		ROBIN FEDERAL COM	111H					8563 PERMITTED								
		ROBIN FEDERAL	174H					10178 DUC	3/27/2024							
		ROBIN FEDERAL	128H					9849 PERMITTED								
		ROBIN FEDERAL	127H					9846 PERMITTED								
		ROBIN FEDERAL	126H					9846 PERMITTED								
		ROBIN FEDERAL	125H					9894 PERMITTED								
		ROBIN FEDERAL	114H					9868 PERMITTED								
		ROBIN FEDERAL	113H					9892 PERMITTED								
		REGAL LAGER 31 19 FEDERAL COM	071H					15480 PERMITTED								
		ROBIN FEDERAL	204H					11273 DRILLING	3/27/2024							
		ROBIN FEDERAL	203H					10525 PERMITTED								
		ROBIN FEDERAL	202H					8724 DUC	4/8/2024							
		ROBIN FEDERAL	201H					8767 DRILLING	4/1/2024							
		ROBIN FEDERAL	134H					10156 DUC	4/2/2024							
		ROBIN FEDERAL	133H					10208 DUC	4/9/2024							
		ROBIN FEDERAL	131H					8705 DUC	4/11/2024							
		REGAL LAGER 31 19 FEDERAL COM	074H					16508 PERMITTED								
		REGAL LAGER 31 19 FEDERAL COM	073H					16502 PERMITTED								
		REGAL LAGER 31 19 FEDERAL COM	072H					15312 PERMITTED								
		BIG EDDY UNIT 8B GRIEVOUS	100H					16662 PERMITTED								
		LOOSEY GOOSEY 4 9 FED COM	303H					10558 PERMITTED								
		LOOSEY GOOSEY 4 9 FED COM	302H					11478 PERMITTED								
		LOOSEY GOOSEY 4 9 FED COM	301H					11606 PERMITTED								
		LOOSEY GOOSEY 4 9 FED COM	204H					10631 PERMITTED								
		REGAL LAGER 31 19 FEDERAL COM	036H					16484 DRILLING	2/12/2024							
		REGAL LAGER 31 19 FEDERAL COM	035H					16508 DUC	2/27/2024							
		REGAL LAGER 31 19 FEDERAL COM	034H					16556 DUC	2/12/2024							
		REGAL LAGER 31 19 FEDERAL COM	033H					15288 DUC	3/7/2024							
		REGAL LAGER 31 19 FEDERAL COM	032H					15350 DRILLING	3/5/2024							
		REGAL LAGER 31 19 FEDERAL COM	031H					15445 DUC	2/27/2024							
		SANDRA JEAN 23 FEDERAL COM	653H					4702 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	652H					4668 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	603H					4666 PERMITTED								
		QUEENIE FEDERAL COM	503H					10150 DUC	2/27/2024							
		QUEENIE FEDERAL COM	504H					10085 DUC	2/26/2024							
		SANDRA JEAN 23 FEDERAL COM	801H					4575 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	751H					4654 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	401H					4508 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	302H					4571 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	301H					4495 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	202H					4526 PERMITTED								
		SANDRA JEAN 23 FEDERAL COM	201H					4502 PERMITTED								
		PAKSE 5 SOUTH FEDERAL COM	434H					7702 PERMITTED								
		PAKSE 5 SOUTH FEDERAL COM	324H					7548 DRILLING	4/4/2024							
		PAKSE 5 SOUTH FEDERAL COM	304H					7604 DUC	4/11/2024							
		PAKSE 5 SOUTH FEDERAL COM	114H					7520 DUC	3/21/2024							
		PAKSE 4 SOUTH FEDERAL COM	114H					7621 DRILLING	3/28/2024							
		PAKSE 4 SOUTH FEDERAL COM	213H					7594 DUC	4/4/2024							
		PAKSE 4 SOUTH FEDERAL COM	223H					7602 DUC	3/26/2024							

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30025491880000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	016H	BONE SPRING	BONE SPRING	11034	ACTIVE	6/20/2022	8/1/2023	8/1/2023	1/1/2024	15635	163906		
30025491870000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	015H	BONE SPRING	BONE SPRING	11217	ACTIVE	8/10/2022	7/15/2023	8/1/2023	1/1/2024	47515	317608		
30025491860000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	014H	BONE SPRING	BONE SPRING	11332	ACTIVE	6/6/2022	5/27/2023	8/1/2023	1/1/2024	44163	293689		
30025491850000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	012H	BONE SPRING	BONE SPRING	11770	ACTIVE	6/15/2022	8/1/2023	8/1/2023	1/1/2024	27163	201501		
30025491840000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	011H	BONE SPRING	BONE SPRING	11023	ACTIVE	7/20/2022	8/1/2023	8/1/2023	1/1/2024	53158	329149		
30025491830000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	010H	BONE SPRING	BONE SPRING	11172	ACTIVE	7/21/2022	5/27/2023	8/1/2023	1/1/2024	44070	260883		
30025491120000	MATADOR RESOURCES	SILVER FEDERAL COM	703H	WOLFCAMP		10187	PERMITTED								
30025491110000	MATADOR RESOURCES	SILVER FEDERAL COM	603H	BONE SPRING		9908	PERMITTED								
30025490570000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	708H	WOLFCAMP		10467	PERMITTED								
30025490510000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	603H	BONE SPRING, WEST	BONE SPRING, WEST	9764	ACTIVE	12/7/2022	3/7/2023	3/1/2023	1/1/2024	22293	575957		
30025490500000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	602H	BONE SPRING, WEST	BONE SPRING, WEST	9816	ACTIVE	11/25/2022	2/11/2023	3/1/2023	1/1/2024	48547	575223		
30025490490000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	504H	BONE SPRING, WEST	BONE SPRING, WEST	9690	ACTIVE	12/2/2022	3/6/2023	4/1/2023	1/1/2024	15085	285969		
30025490480000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	503H	BONE SPRING, WEST	BONE SPRING, WEST	10327	ACTIVE	11/20/2022	2/9/2023	4/1/2023	1/1/2024	24167	297432		
30025490460000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	404H	BONE SPRING, WEST		10466	PERMITTED								
30025490450000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	403H	BONE SPRING, WEST		10136	PERMITTED								
30025490440000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	402H	BONE SPRING, WEST		10190	PERMITTED								
30025490430000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	401H	BONE SPRING, WEST		10188	DUC	10/6/2022							
30025490420000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	308H	BONE SPRING, WEST		10519	PERMITTED								
30025490400000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	306H	BONE SPRING, WEST		10152	PERMITTED								
30025490030000	MATADOR RESOURCES	ANDERSON FEDERAL COM	603H	BONE SPRING	BONE SPRING	6531	ACTIVE	8/10/2021	5/22/2022	5/1/2022	1/1/2024	11792	358446	303685	
30025490020000	MATADOR RESOURCES	ANDERSON FEDERAL COM	602H	BONE SPRING	BONE SPRING	6385	ACTIVE	4/30/2021	5/24/2022	5/1/2022	1/1/2024	8288	573831	487833	
30025490010000	MATADOR RESOURCES	ANDERSON FEDERAL COM	601H	BONE SPRING	BONE SPRING	7732	ACTIVE	11/23/2021	5/18/2022	5/1/2022	1/1/2024	32488	990219	658268	
30025490000000	MATADOR RESOURCES	ANDERSON FEDERAL COM	556H	BONE SPRING	BONE SPRING	6455	ACTIVE	8/13/2021	5/4/2022	5/1/2022	1/1/2024	9680	247995	189863	
30025489990000	MATADOR RESOURCES	ANDERSON FEDERAL COM	555H	BONE SPRING	BONE SPRING	6457	ACTIVE	8/14/2021	5/22/2022	5/1/2022	1/1/2024	16502	493025	409033	
30025489980000	MATADOR RESOURCES	ANDERSON FEDERAL COM	554H	BONE SPRING	BONE SPRING	6385	ACTIVE	8/18/2021	5/24/2022	5/1/2022	1/1/2024	602	218594	168907	
30025489970000	MATADOR RESOURCES	ANDERSON FEDERAL COM	553H	BONE SPRING	BONE SPRING	7763	ACTIVE	8/20/2021	5/1/2022	5/1/2022	1/1/2024	7998	380690	299811	
30025489960000	MATADOR RESOURCES	ANDERSON FEDERAL COM	552H	BONE SPRING	BONE SPRING	7737	ACTIVE	11/22/2021	4/25/2022	5/1/2022	1/1/2024	11913	363313	316580	
30025489950000	MATADOR RESOURCES	ANDERSON FEDERAL COM	551H	BONE SPRING	BONE SPRING	7732	ACTIVE	11/24/2021	4/24/2022	5/1/2022	1/1/2024	4520	255296	214232	
30025489940000	MATADOR RESOURCES	ANDERSON FEDERAL COM	503H	BONE SPRING	BONE SPRING	6459	ACTIVE	8/15/2021	5/4/2022	5/1/2022	1/1/2024	12720	378567	308511	
30025489930000	MATADOR RESOURCES	ANDERSON FEDERAL COM	502H	BONE SPRING	BONE SPRING	6386	ACTIVE	8/19/2021	5/24/2022	5/1/2022	1/1/2024	15767	438217	294964	
30025489420000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	604H	BONE SPRING, WEST	BONE SPRING, WEST	10198	ACTIVE	11/14/2022	3/7/2023	3/1/2023	1/1/2024	50971	635805		
30025489410000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	506H	BONE SPRING, WEST		10719	DUC	11/20/2022							
30025489400000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	505H	BONE SPRING, WEST	BONE SPRING, WEST	10240	ACTIVE	11/11/2022	3/7/2023	4/1/2023	1/1/2024	16582	286458		
30025489260000	MATADOR RESOURCES	SILVER FEDERAL COM	504H	BONE SPRING		9974	COMPLETED	9/9/2023	1/12/2024						
30025489250000	MATADOR RESOURCES	SILVER FEDERAL COM	503H	BONE SPRING	BONE SPRING	9852	ACTIVE	9/24/2022	12/10/2022	12/1/2022	1/1/2024	413164	410325		
30025489230000	MATADOR RESOURCES	SILVER FEDERAL COM	403H	BONE SPRING		9980	COMPLETED	9/12/2023	1/12/2024						
30025489220000	MATADOR RESOURCES	SILVER FEDERAL COM	402H	BONE SPRING	BONE SPRING	9896	ACTIVE	9/27/2022	12/9/2022	12/1/2022	1/1/2024	781788	769234		
30025489210000	MATADOR RESOURCES	SILVER FEDERAL COM	306H	BONE SPRING		9714	PERMITTED								
30025489200000	MATADOR RESOURCES	SILVER FEDERAL COM	305H	BONE SPRING		9710	PERMITTED								
30025489190000	MATADOR RESOURCES	SILVER FEDERAL COM	304H	BONE SPRING		9785	PERMITTED								
30025489180000	MATADOR RESOURCES	SILVER FEDERAL COM	303H	BONE SPRING		9927	PERMITTED								
30025489170000	MATADOR RESOURCES	SILVER FEDERAL COM	302H	BONE SPRING		4478	PERMITTED								
30025489160000	MATADOR RESOURCES	SILVER FEDERAL COM	301H	BONE SPRING		4774	PERMITTED								
30025489030000	MATADOR RESOURCES	DAGGER STATE COM	804H	WOLFCAMP	WOLFCAMP	4989	ACTIVE	6/11/2021	11/26/2021	1/1/2022	1/1/2024	21968	942818	575392	920850
30025489020000	MATADOR RESOURCES	DAGGER STATE COM	608H	BONE SPRING	BONE SPRING	4989	ACTIVE	5/29/2021	1/4/2022	1/1/2022	1/1/2024	738	402413	294069	401675
30025489010000	MATADOR RESOURCES	DAGGER STATE COM	558H	BONE SPRING	BONE SPRING	7901	ACTIVE	6/3/2021	12/7/2021	1/1/2022	1/1/2024	14274	588933	302736	574659
30025489000000	MATADOR RESOURCES	DAGGER STATE COM	556H	BONE SPRING	BONE SPRING	7895	ACTIVE	6/6/2021	11/21/2021	1/1/2022	1/1/2024	4207	232475	141488	228268
30025488980000	MATADOR RESOURCES	DAGGER STATE COM	514H	BONE SPRING	BONE SPRING	7649	ACTIVE	7/10/2021	11/14/2021	1/1/2022	1/1/2024	11133	756140	390624	745007
30025488970000	MATADOR RESOURCES	DAGGER STATE COM	512H	BONE SPRING	BONE SPRING	7644	ACTIVE	7/9/2021	11/14/2021	1/1/2022	1/1/2024	8380	599119	287610	590739
30025488960000	MATADOR RESOURCES	DAGGER STATE COM	302H	BONE SPRING	BONE SPRING	7648	ACTIVE	3/16/2022	10/16/2022	10/1/2022	1/1/2024	54007	1151677	954049	
30025488910000	MATADOR RESOURCES	ANDERSON FEDERAL COM	501H	BONE SPRING	BONE SPRING	7729	ACTIVE	11/25/2021	5/18/2022	6/1/2022	1/1/2024	10617	314135	260773	
30025488870000	MATADOR RESOURCES	GAVILON FEDERAL COM	305H	BONE SPRING	BONE SPRING	9978	ACTIVE	7/17/2022	3/22/2023	5/1/2023	1/1/2024	57318	680744		
300254888040000	MATADOR RESOURCES	SILVER FEDERAL COM	501H	BONE SPRING		9802	COMPLETED	8/4/2023	1/1/2024						
300254888030000	MATADOR RESOURCES	SILVER FEDERAL COM	401H	BONE SPRING		3885	COMPLETED	8/1/2023	1/1/2024						
30025486760000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	601H	BONE SPRING, WEST	BONE SPRING, WEST	9887	ACTIVE	10/14/2022	2/11/2023	3/1/2023	1/1/2024	39849	750970		
30025486750000	MATADOR RESOURCES	PONY EXPRESS FEDERAL COM	501H	BONE SPRING, WEST	BONE SPRING, WEST	9693	ACTIVE	10/7/2022	2/9/2023	3/1/2023	1/1/2024	21197	452514		
30025486290000	MATADOR RESOURCES	GAVILON FEDERAL COM	306H	BONE SPRING	BONE SPRING	10027	ACTIVE	11/18/2022	3/22/2023	5/1/2023	1/1/2024	50027	597553		
30025486260000	MATADOR RESOURCES	BIG BULL FEDERAL COM	705H	WOLFCAMP		6181	PERMITTED								
30025486170000	PERMIAN RESOURCES	GOUDA FEDERAL COM	605H	BONE SPRING	BONE SPRING	9493	ACTIVE	5/13/2021	7/24/2021	7/1/2021	2/1/2024	17421	1356280	875036	1211011
30025486160000	PERMIAN RESOURCES	MOZZARELLA FEDERAL COM	604H	BONE SPRING	BONE SPRING	9470	ACTIVE	5/13/2021	7/23/2021	7/1/2021	2/1/2024	15620	1348592	860582	1196536
30025486040000	MATADOR RESOURCES	WOOL HEAD 20 STATE COM	503H	BONE SPRING	BONE SPRING	7017	ACTIVE	5/12/2021	7/28/2021	8/1/2021	1/1/2024	2672	605460	347462	585013
30025486030000	MATADOR RESOURCES	WOOL HEAD 20 STATE COM	501H	BONE SPRING	BONE SPRING	7386	ACTIVE	5/7/2021	7/28/2021	8/1/2021	1/1/2024	12055	846065	407221	729066
30025486020000	MATADOR RESOURCES	WOOL HEAD 20 STATE COM	301H	BONE SPRING	BONE SPRING	7459	ACTIVE	5/9/2021	8/19/2021	8/1/2021	1/1/2024	29957	1815777	1032482	1640957
30025485400000	PERMIAN RESOURCES	ANACONDA 11 14 3BS FEDERAL COM	007H	BONE SPRING	BONE SPRING	10229	ACTIVE	1/24/2022	4/14/2022	4/1/2022	1/1/2024	19192	817434	604787	
30025485390100	PERMIAN RESOURCES	ANACONDA 11 14 3BS FEDERAL COM	013H	BONE SPRING		10181	ACTIVE	12/19/2021							
30025485390000	PERMIAN RESOURCES	ANACONDA 11 14 3BS FEDERAL COM	013H	BONE SPRING	MULTIPLE	10171	ACTIVE	12/19/2021	4/14/2022	4/1/2022	1/1/2024	18466	792289	612606	
30025485270000	MATADOR RESOURCES	GAVILON FEDERAL COM	706H	WOLFCAMP	MULTIPLE	9969	ACTIVE	7/6/2022	3/22/2023	5/1/2023	1/1/2024	10030	190499		
30025484730000	PERMIAN RESOURCES	AZTEC 14 23 2BS FEDERAL COM	006H	BONE SPRING 2ND	BONE SPRING	10012	ACTIVE	9/1/2021	11/27/2021	3/1/2022	1/1/2024	20705	621985	359088	
30025484670000	MATADOR RESOURCES	DAGGER STATE COM	606H	BONE SPRING	BONE SPRING	7532	ACTIVE	2/23/2021	10/31/2021	1/1/2022	1/1/2024	27957	1430805	990662	1402848
30025484660000	MATADOR RESOURCES	DAGGER STATE COM	554H	BONE SPRING	BONE SPRING	7611	ACTIVE	2/24/2021	10/31/2021	1/1/2022	1/1/2024	1265	268388	199982	267123
30025484650000	MATADOR RESOURCES	DAGGER STATE COM	510H	BONE SPRING	BONE SPRING	7612	ACTIVE	2/25/2021	10/31/2021	1/1/2022	1/1/2024	3522	790513	469367	786991
30025483770000	PERMIAN RESOURCES	CHEDDAR FEDERAL COM	302H	BONE SPRING		9478	DUC	5/21/2022							
30025482480000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	021H	WC		11812	COMPLETED		2/8/2023						
30025482470000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	017H	WOLFCAMP	WOLFCAMP	11391	ACTIVE	1/21/2021	3/1/2023	8/1/2023	1/1/2024	42970	464247		
30025481700000	MEWBOURNE OIL	BILBREY 34 27 WO0B FEDERAL COM	002H	UPR WOLFCAMP	UPR WOLFCAMP	10011	ACTIVE	1/3/2021	4/15/2021	4/1/2021	1/1/2024	22100	1679047	876003	1404486
30025480990000	PERMIAN RESOURCES	CHEDDAR FEDERAL COM	301H	BONE SPRING		9749	PERMITTED								
30025480770000	MATADOR RESOURCES	ANDERSON FEDERAL COM	604H	BONE SPRING	BONE SPRING	6890	ACTIVE	12/3/2020	3/13/2021	4/1/2021	1/1/2024	2649	1289669	779345	1136165
30025480380000	PERMIAN RESOURCES	DIAMONDBACK 24 25 FEDERAL COM 2BS	005H	BONE SPRING, EAST	BONE SPRING, EAST	9663	ACTIVE	12/15/2020	3/30/2021	3/1/2021	1/1/2024	12266	321821	198799	263880
30025480370000	PER														

30025474310000	CONOCOPHILLIPS	WAR EAGLE FEDERAL COM	701H	WOLFCAMP	WOLFCAMP	9930	ACTIVE	11/30/2020	8/7/2021	8/1/2021	2/1/2024	3714	1006799	607569	906453
30025474290000	CONOCOPHILLIPS	WAR EAGLE FEDERAL COM	504H	BONE SPRING	BONE SPRING	9934	ACTIVE	12/16/2020	8/7/2021	8/1/2021	2/1/2024	6327	394374	267495	365221
30025472700000	EXXON	BIG EDDY UNIT DI BB JABBA	104H	BONE SPRING	BONE SPRING	16600	ACTIVE	9/14/2022	3/11/2023	5/1/2023	1/1/2024	35172	506769		
30025472690000	MATADOR RESOURCES	HORSESHOE FEDERAL COM	502H	BONE SPRING		5342	PERMITTED								
30025472680000	MATADOR RESOURCES	HORSESHOE FEDERAL COM	501H	BONE SPRING		5349	PERMITTED								
30025472270000	EXXON	BIG EDDY UNIT DI BB JABBA	103H	BONE SPRING	BONE SPRING	16376	ACTIVE	9/14/2022	3/11/2023	5/1/2023	1/1/2024	20155	504695		
30025472260000	EXXON	BIG EDDY UNIT DI BB JABBA	102Y	BONE SPRING		16310	DUC	10/3/2022							

30025472250000	EXXON	BIG EDDY UNIT DI BB JABBA	101H	BONE SPRING	BONE SPRING	16230	ACTIVE	10/4/2022	4/8/2023	6/1/2023	1/1/2024	22311	511143				
30025472240000	EXXON	BIG EDDY UNIT DI BB JABBA	100H	BONE SPRING	BONE SPRING	16256	ACTIVE	10/9/2022	4/7/2023	6/1/2023	1/1/2024	18070	415931				
30025472020000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	008H	BONE SPRING	BONE SPRING	12088	ACTIVE	5/21/2022	8/1/2023	8/1/2023	1/1/2024	39190	228000				
30025472010000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	007H	BONE SPRING	BONE SPRING	11252	ACTIVE	5/30/2022	7/5/2023	8/1/2023	1/1/2024	29036	196433				
30025471990000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	005H	BONE SPRING	BONE SPRING	11016	ACTIVE	5/18/2022	2/8/2023	8/1/2023	1/1/2024	39890	305576				
30025471980000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	004H	BONE SPRING	BONE SPRING	11482	ACTIVE	4/28/2022	3/20/2023	8/1/2023	1/1/2024	49298	420120				
30025471970000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	003H	BONE SPRING	BONE SPRING	11429	ACTIVE	6/16/2022	4/10/2023	8/1/2023	1/1/2024	35495	370168				
30025471960000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	002H	BONE SPRING	BONE SPRING	11375	ACTIVE	8/16/2022	6/26/2023	8/1/2023	1/1/2024	27884	411268				
30025471950000	MATADOR RESOURCES	MARGARITA 13 FEDERAL COM	001H	BONE SPRING	BONE SPRING	11333	ACTIVE	5/1/2022	6/25/2023	8/1/2023	1/1/2024	37516	238333				
30025470660000	MATADOR RESOURCES	BIG STAG FEDERAL COM	504H	BONE SPRING	BONE SPRING	6341	ACTIVE		11/1/2021	11/1/2021	1/1/2024	8682	297869	190252		281207	
30025470650000	MATADOR RESOURCES	BIG BUCKS FEDERAL COM	601H	BONE SPRING	BONE SPRING	6496	ACTIVE	10/2/2023	12/13/2023	1/1/2024	1/1/2024	66864	66864				
30025470640000	MATADOR RESOURCES	BIG BUCKS FEDERAL COM	501H	BONE SPRING	BONE SPRING	5999	ACTIVE	4/1/2021	11/1/2021	11/1/2021	1/1/2024	2523	316090	227931		309947	
30025470560000	MATADOR RESOURCES	HORSESHOE FEDERAL COM	601H	BONE SPRING	BONE SPRING	4984	ACTIVE	8/25/2022	11/8/2022	11/1/2022	1/1/2024	17620	490059	430477			
30025469790000	MATADOR RESOURCES	BIG STAG FEDERAL COM	552H	WOLFCAMP	MULTIPLE	6144	ACTIVE	7/26/2021	11/1/2021	11/1/2021	1/1/2024	40138	488613	273893		435830	
30025469780000	MATADOR RESOURCES	BIG STAG FEDERAL COM	503H	BONE SPRING	BONE SPRING	6221	ACTIVE	7/1/2021	11/1/2021	11/1/2021	1/1/2024	13454	371275	225253		339885	
30025467570000	PERMIAN RESOURCES	MOZZARELLA FEDERAL COM	603H	UPR WOLFCAMP	MULTIPLE	10307	ACTIVE	4/20/2021	7/16/2021	7/1/2021	2/1/2024	15020	1297928	817374		1164127	
30025467510000	EXXON	BIG EDDY UNIT 29W VADER	103H	OIL	BONE SPRING	10474	ACTIVE	1/25/2020	4/7/2021	4/1/2021	1/1/2024	6069	508075	331038		447013	
30025467420000	PERMIAN RESOURCES	MOZZARELLA FEDERAL COM	602H	BONE SPRING	MULTIPLE	10409	ACTIVE	4/20/2021	7/12/2021	7/1/2021	2/1/2024	15862	1324745	790919		1180654	
30025467410000	PERMIAN RESOURCES	MOZZARELLA FEDERAL COM	402H	BONE SPRING	BONE SPRING	10403	ACTIVE	7/9/2023	10/8/2023	10/1/2023	2/1/2024	28236	284296				
30025467270000	PERMIAN RESOURCES	SOMBRERO 18 2BS FEDERAL COM	003H	WOLFCAMP	MULTIPLE	5652	ACTIVE		1/24/2022	3/1/2022	1/1/2024	13848	393300	162804			
30025467230000	PERMIAN RESOURCES	SOMBRERO 18 WCA FEDERAL COM	005H	WOLFCAMP	WOLFCAMP	5697	ACTIVE	5/24/2021	8/23/2021	3/1/2022	1/1/2024	11552	207273	97555			
30025467200000	PERMIAN RESOURCES	SOMBRERO 18 2BS FEDERAL COM	004H	BONE SPRING	BONE SPRING	5527	ACTIVE	10/10/2021	1/24/2022	3/1/2022	1/1/2024	11945	311237	175672			
30025467180000	PERMIAN RESOURCES	SOMBRERO 18 3BS FEDERAL COM	002H	BONE SPRING	BONE SPRING	4824	ACTIVE	6/24/2021	9/5/2021	3/1/2022	1/1/2024	15379	362349	179343			
30025467160000	PERMIAN RESOURCES	SOMBRERO 18 3BS FEDERAL COM	001H	BONE SPRING	BONE SPRING	5838	ACTIVE	4/26/2021	8/23/2021	3/1/2022	1/1/2024	20	326032	175841			
30025466550000	EXXON	BIG EDDY UNIT 29E VADER	106H	OIL	BONE SPRING	5239	ACTIVE	3/28/2020	4/15/2021	4/1/2021	1/1/2024	458235	337602			442622	
30025466540000	EXXON	BIG EDDY UNIT 29W VADER	105H	OIL	BONE SPRING	10372	ACTIVE	2/19/2020	4/13/2021	4/1/2021	1/1/2024	8539	626502	333593		478834	
30025465880000	MATADOR RESOURCES	GAVILON FEDERAL COM	704H	WOLFCAMP	WOLFCAMP	9944	ACTIVE	2/25/2022	9/20/2022	10/1/2022	1/1/2024	4107	810193	668234			
30025465860000	MATADOR RESOURCES	GAVILON FEDERAL COM	602H	BONE SPRING	BONE SPRING	9897	ACTIVE	2/28/2022	9/20/2022	10/1/2022	1/1/2024	40592	906200	723906			
30025465480000	MATADOR RESOURCES	BIG MOOSE FEDERAL COM	604H	BONE SPRING	BONE SPRING	6364	ACTIVE	12/28/2019	10/29/2020	11/1/2020	1/1/2024	12714	1457553	842225		1099570	
30025465470000	MATADOR RESOURCES	BIG MOOSE FEDERAL COM	506H	BONE SPRING	BONE SPRING	6150	ACTIVE	12/26/2019	9/3/2020	9/1/2020	1/1/2024	1402	609614	366912		512398	
30025465430000	EXXON	BIG EDDY UNIT 29E VADER	107H	OIL	BONE SPRING	5229	ACTIVE	4/20/2020	4/15/2021	4/1/2021	12/1/2023	3456	501025	302602		407683	
30025465420000	EXXON	BIG EDDY UNIT 29W VADER	104H	OIL	BONE SPRING	10066	ACTIVE	1/14/2020	4/16/2021	4/1/2021	12/1/2023	272	486847	334006		447868	
30025465410000	EXXON	BIG EDDY UNIT 29W VADER	102H	GAS	BONE SPRING	10475	ACTIVE	12/25/2019	1/17/2021	4/1/2021	1/1/2024	7421	618855	387023		547245	
30025465320000	MATADOR RESOURCES	ANDERSON FEDERAL COM	704H	WOLFCAMP	MULTIPLE	6970	ACTIVE	11/5/2020	3/1/2021	3/1/2021	1/1/2024	10049	563247	323612		488534	
30025465160000	EXXON	BIG EDDY UNIT 29W VADER	101H	OIL	BONE SPRING	10513	ACTIVE	2/24/2020	4/15/2021	4/1/2021	1/1/2024	3385	627373	405524		560711	
30025465150000	EXXON	BIG EDDY UNIT 29W VADER	100H	OIL	BONE SPRING	10447	ACTIVE	4/1/2020	4/8/2021	4/1/2021	1/1/2024	4619	659151	428786		556113	
30025464980000	MATADOR RESOURCES	BIG MOOSE FEDERAL COM	505H	BONE SPRING	BONE SPRING	6385	ACTIVE	12/31/2019	9/2/2020	9/1/2020	1/1/2024	1188	719480	413566		637761	
30025464710000	MATADOR RESOURCES	WOOL HEAD 20 STATE COM	553H	BONE SPRING	BONE SPRING	7166	ACTIVE	11/2/2019	2/28/2020	6/1/2020	1/1/2024	45624	309395	389805			
30025464680000	MATADOR RESOURCES	WOOL HEAD 20 STATE COM	507H	BONE SPRING	BONE SPRING	7090	ACTIVE	10/30/2019	6/8/2020	6/1/2020	1/1/2024	5174	1182989	566537		865791	
30025463750000	EXXON	SEVERUS 31 5 FEDERAL COM	010H	BONE SPRING	BONE SPRING	7729	ACTIVE	10/16/2019	2/17/2020	2/1/2020	1/1/2024	6768	605120	338791		443880	
30025463520000	PERMIAN RESOURCES	AZTEC 14 23 2BS FEDERAL COM	004H	BONE SPRING	MULTIPLE	10006	ACTIVE	7/31/2021	11/26/2021	3/1/2022	1/1/2024	15212	471441	306989			
30025463510000	PERMIAN RESOURCES	AZTEC 14 23 3BS FEDERAL COM	003H	BONE SPRING	BONE SPRING	10181	ACTIVE	10/25/2019	1/1/2020	1/1/2020	1/1/2024	12396	1193278	544260		845581	
30025463500000	PERMIAN RESOURCES	AZTEC 14 23 3BS FEDERAL COM	002H	BONE SPRING	BONE SPRING	10155	ACTIVE	9/20/2019	1/1/2020	1/1/2020	1/1/2024	13369	1395515	646796		994262	
30025462980000	PERMIAN RESOURCES	CHEDDAR FEDERAL COM	401H	BONE SPRING	MULTIPLE	9059	ACTIVE	5/6/2022	8/6/2022	8/1/2022	2/1/2024	40187	890225	666569			
30025462970100	PERMIAN RESOURCES	CHEDDAR FEDERAL COM	651H	BONE SPRING	BONE SPRING	9637	ACTIVE	5/7/2022									
30025462970000	PERMIAN RESOURCES	CHEDDAR FEDERAL COM	651H	BONE SPRING	BONE SPRING	9481	ACTIVE	5/7/2022	8/1/2022	8/1/2022	2/1/2024	16985	677067	536260			
30025462770100	MEWBOURNE OIL	BILBREY 34 27 WOPA FEDERAL COM	001H	UPR WOLFCAMP	MULTIPLE	9822	ACTIVE	12/1/2020	4/14/2021	4/1/2021	1/1/2024	23118	1800331	821682		1544280	
30025462710000	PERMIAN RESOURCES	GAZELLE 32 STATE COM 1BS	004H	BONE SPRING, SOUTH BONE SPRING, SOUTH	Bone Spring First Sanc	4474	ACTIVE	8/22/2019	10/5/2019	10/1/2019	1/1/2024	708	440330	262204		341103	
30025462620000	MEWBOURNE OIL	BILBREY 34 27 WOMB FEDERAL COM	001H	UPR WOLFCAMP	MULTIPLE	9999	ACTIVE	8/2/2019	12/18/2019	11/1/2019	1/1/2024	15434	1955613	675194		1240875	
30025462610000	MEWBOURNE OIL	BILBREY 34 27 WONG FEDERAL COM	001H	UPR WOLFCAMP	UPR WOLFCAMP	9988	ACTIVE	9/10/2019	10/18/2019	12/1/2019	1/1/2024	13918	1920647	749335		1309028	
30025462240000	EXXON	SEVERUS 31 5 FEDERAL COM	012H	BONE SPRING	BONE SPRING	4895	ACTIVE	8/6/2019	2/18/2020	2/1/2020	1/1/2024	5856	494927	263996		354669	
30025462230000	EXXON	SEVERUS 31 5 FEDERAL COM	011H	BONE SPRING	BONE SPRING	7774	ACTIVE	9/1/2019	2/11/2020	2/1/2020	1/1/2024	9296	617622	334055		431068	
30025461900000	EXXON	SEVERUS 31 5 FEDERAL COM	009H	BONE SPRING	BONE SPRING	7427	ACTIVE	9/10/2019	2/17/2020	2/1/2020	1/1/2024	8039	776642	478288		623165	
30025459350000	MATADOR RESOURCES	DAGGER STATE COM	802H	WOLFCAMP	WOLFCAMP	7507	ACTIVE	5/20/2019	8/9/2019	8/1/2019	1/1/2024	22087	2301068	661885		1264306	
30025459340000	MATADOR RESOURCES	DAGGER STATE COM	552H	BONE SPRING	BONE SPRING	7587	ACTIVE	5/22/2019	8/9/2019	8/1/2019	1/1/2024	424	587290	275337		359753	
30025455990000	CONOCOPHILLIPS	BOONE 16 STATE COM	004H	BONE SPRING	BONE SPRING	10413	ACTIVE	4/10/2019	11/10/2019	11/1/2019	2/1/2024	11376	871645	412382		705839	
30025455150000	PERMIAN RESOURCES	STETSON 13 24 1BS FEDERAL COM	005H	BONE SPRING, EAST	BONE SPRING, EAST	10314	ACTIVE	2/23/2021	5/23/2021	3/1/2022	1/1/2024	20641	623037	269825			
30025454990000	PERMIAN RESOURCES	STETSON 13 24 1BS FEDERAL COM	006H	MORROW (GAS)	BONE SPRING, EAST	7527	ACTIVE	3/13/2021	5/19/2021	3/1/2022	1/1/2024	44682	726511	305320			
30025454080100	PERMIAN RESOURCES	JADE 34 3 1BS FEDERAL COM	006H	BONE SPRING	BONE SPRING	9811	ACTIVE	5/19/2022	12/1/2022	12/1/2022	12/1/2023	13574	661416	647842			
30025454080000	PERMIAN RESOURCES	JADE 34 3 1BS FEDERAL COM	006H	BONE SPRING	BONE SPRING	10213	ACTIVE	5/19/2022									
30025454070000	PERMIAN RESOURCES	JADE 34 3 2BS FEDERAL COM	005H	BONE SPRING	BONE SPRING	10201	DUC	5/11/2022									
30025454060000	PERMIAN RESOURCES	JADE 34 3 2BS FEDERAL COM	004H	BONE SPRING	BONE SPRING	10220	ACTIVE	5/14/2022	11/7/2022	12/1/2022	12/1/2023	9501	485976	476475			
30025451610000	PERMIAN RESOURCES	BUFFALO 12 1 FEDERAL 2BS COM	005H	BONE SPRING, SOUTH BONE SPRING, SOUTHEAST		9955	ACTIVE	11/11/2020	1/18/2021	1/1/2021	1/1/2024	15199	801948	408782		571804	
30025451600000	PERMIAN RESOURCES	BUFFALO 12 1 FEDERAL 2BS COM	004H	BONE SPRING, SOUTH BONE SPRING, SOUTHEAST		10023	ACTIVE	10/16/2020	1/18/2021	1/1/2021	1/1/2024	3499	502809	322799		423281	
30025451590000	PERMIAN RESOURCES	BUFFALO 12 1 FEDERAL WCC COM	006H	WOLFCAMP	WOLFCAMP	6038	ACTIVE	12/21/2018	4/26/2019	4/1/2019	1/1/2024	984	141538	90195		108168	
30025451560000	MEWBOURNE OIL	CAPER 20 29 B3CN FEDERAL COM	002H	BONE SPRING	BONE SPRING	11558	ACTIVE	9/28/2018	2/14/2019	2/1/2019	1/1/2024	26200	18589				

30025441970000	PERMIAN RESOURCES	GAZELLE 32 STATE COM 2BS	002Y	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4361	ACTIVE	11/28/2017	2/8/2018	2/1/2018	1/1/2024	643	172787	99090	121101
30025441490000	MATADOR RESOURCES	FEDERAL 30	124H	BONE SPRING BONE SPRING Bone Spring Second S	4290	ACTIVE	11/11/2017	1/13/2018	3/1/2018	1/1/2024	1244	273957	110410	165685
30025441480000	MATADOR RESOURCES	TOQUE STATE COM	501H	BONE SPRING BONE SPRING Bone Spring Second S	7189	ACTIVE	9/6/2019	2/13/2020	3/1/2020	1/1/2024	7061	784710	309413	576368
30025439180000	MEWBOURNE OIL	BILBREY 34 27 B2PA FEDERAL COM	001H	BONE SPRING BONE SPRING	10075	ACTIVE	11/4/2020	5/4/2021	4/1/2021	1/1/2024	25323	2137388	705424	1826362
30025439060000	PERMIAN RESOURCES	GAZELLE 32 STATE COM 2BS	001H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4413	ACTIVE	11/3/2017	2/8/2018	2/1/2018	1/1/2024	997	210195	129214	154966
30025438720100	MEWBOURNE OIL	BILBREY 34 27 B2MD FEDERAL COM	001H	BONE SPRING BONE SPRING Bone Spring Second S	10606	ACTIVE	8/8/2017	11/28/2017	11/1/2017	1/1/2024	12652	1494420	335349	467015
30025438330000	PERMIAN RESOURCES	BUFFALO WEST 2 STATE 1BS COM	006H	BONE SPRING, SOUTH MULTIPLE Bone Spring First Sanc	4548	ACTIVE	8/22/2017	11/10/2017	11/1/2017	1/1/2024	3365	293861	139525	189476
30025438320000	PERMIAN RESOURCES	BUFFALO WEST 2 STATE 2BS COM	005H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second C	4339	ACTIVE	7/25/2017	11/13/2017	11/1/2017	1/1/2023	2521	252533	110437	145418
30025438310000	PERMIAN RESOURCES	BUFFALO WEST 2 STATE 2BS COM	004H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4387	ACTIVE	9/23/2017	2/2/2018	2/1/2018	1/1/2024	741	98681	64825	78826
30025438300000	PERMIAN RESOURCES	BUFFALO WEST 2 STATE 2BS COM	003H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4349	ACTIVE	10/20/2017	2/2/2018	2/1/2018	1/1/2024	570	102235	63228	78849
30025438290000	PERMIAN RESOURCES	BUFFALO WEST 2 STATE 2BS COM	002H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4438	ACTIVE	11/14/2017	2/2/2018	2/1/2018	1/1/2024	1563	141542	76952	100136
30025436960000	EXXON	CHISTERA 32 STATE	003H	BONE SPRING BONE SPRING Bone Spring Second S	4542	ACTIVE	8/18/2018	1/22/2019	2/1/2019	1/1/2024	14204	1416978	505960	818121
30025436950000	EXXON	CHISTERA 32 STATE	002H	BONE SPRING BONE SPRING Wolfcamp A XY	4606	ACTIVE	9/2/2018	1/22/2019	2/1/2019	1/1/2024	10899	1212556	500430	698831
30025436940000	EXXON	CHISTERA 32 STATE	001H	BONE SPRING BONE SPRING Bone Spring Third San	4583	ACTIVE	10/9/2018	11/10/2018	2/1/2019	1/1/2024	927724	436413	636545	
30025436290000	MATADOR RESOURCES	DAGGER STATE COM	508H	BONE SPRING BONE SPRING Bone Spring Second S	7538	ACTIVE	6/25/2018	9/21/2018	10/1/2018	1/1/2024	6491	1243200	289611	523253
30025435650000	MATADOR RESOURCES	DAGGER STATE COM	701H	WOLFCAMP WOLFCAMP Wolfcamp A Lower	7144	ACTIVE	2/23/2018	6/7/2018	6/1/2018	1/1/2024	8856	2066478	657506	1103447
30025435640000	MATADOR RESOURCES	DAGGER STATE COM	506H	BONE SPRING BONE SPRING Bone Spring Second S	7633	ACTIVE	6/2/2018	10/3/2018	10/1/2018	1/1/2024	11029	1602519	342937	688880
30025435530000	CONOCOPHILLIPS	BOONE 16 STATE COM	003H	WOLFCAMP WOLFCAMP Wolfcamp A XY	10107	ACTIVE	4/23/2018	8/8/2018	8/1/2018	2/1/2024	5606	1114274	575641	882316
30025435030000	CONOCOPHILLIPS	GERONIMO FEDERAL COM	011H	BONE SPRING BONE SPRING Bone Spring Second S	10537	ACTIVE	1/24/2017	6/6/2017	6/1/2017	2/1/2024	235	971755	434269	613087
30025434180000	EXXON	SEVERUS 31 FEDERAL COM	004H	BONE SPRING BONE SPRING Wolfcamp A XY	4942	ACTIVE	1/8/2018	5/21/2018	7/1/2018	1/1/2024	5538	659672	150390	337900
30025434170000	EXXON	SEVERUS 31 FEDERAL COM	003H	BONE SPRING BONE SPRING Bone Spring Third San	7537	ACTIVE	1/8/2018	5/21/2018	6/1/2018	1/1/2024	13582	1406238	295869	819500
30025434160000	EXXON	SEVERUS 31 FEDERAL COM	002H	BONE SPRING BONE SPRING Bone Spring Third San	7483	ACTIVE	11/30/2017	5/21/2018	6/1/2018	1/1/2024	6055	1287164	267790	778112
30025434150000	EXXON	SEVERUS 31 FEDERAL COM	001H	BONE SPRING BONE SPRING Bone Spring Third San	7437	ACTIVE	10/16/2017	5/21/2018	6/1/2018	1/1/2024	8541	1122732	165550	591885
30025433380000	CONOCOPHILLIPS	STEALTH FEDERAL COM	004H	BONE SPRING MULTIPLE Bone Spring Second S	4750	ACTIVE	9/26/2016	12/4/2016	12/1/2016	2/1/2024	2439	702986	323991	460997
30025433020000	MATADOR RESOURCES	DAGGER STATE COM	504H	BONE SPRING BONE SPRING Bone Spring Second S	7134	ACTIVE	7/25/2016	3/31/2017	4/1/2017	1/1/2024	4079	1150598	583385	724294
30025432930000	MATADOR RESOURCES	ELAND 32 18 33 RN STATE COM	124H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4422	ACTIVE	12/20/2016	2/28/2017	2/1/2017	12/1/2023	343494	140704	183696	163966
30025432760000	MEWBOURNE OIL	BILBREY 34 27 B2NC FEDERAL COM	001H	BONE SPRING BONE SPRING Bone Spring Second S	9612	ACTIVE	9/9/2016	3/14/2017	3/1/2017	1/1/2024	6950	1613677	630792	823236
30025432530000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	012H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring First Sanc	4606	ACTIVE	9/8/2017	11/22/2017	3/1/2018	1/1/2024	1149	187259	95973	125724
30025432520000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	011H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring First Sanc	4622	ACTIVE	8/15/2017	12/17/2017	1/1/2018	1/1/2024	3475	601577	311903	421000
30025432510000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	010H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Second S	4766	ACTIVE	7/26/2017	11/23/2017	3/1/2018	1/1/2024	1875	274087	113897	133977
30025432500000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	009H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Third San	4640	ACTIVE	7/1/2017	1/23/2018	1/1/2018	1/1/2024	6196	736580	269860	430068
30025432490000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	008H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Third Carl	4186	ACTIVE	8/25/2017	11/23/2017	11/1/2017	1/1/2024	223	111127	47346	70078
30025432480000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	007H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Third Carl	4594	ACTIVE	8/5/2017	1/9/2018	2/1/2018	1/1/2024	4246	921717	428459	570245
30025432400000	MARATHON OIL	BLACK HORSE FEDERAL COM 20 33 07 SB	001H	BONE SPRING BONE SPRING Bone Spring Second S	9266	ACTIVE	12/25/2016	7/19/2017	8/1/2017	2/1/2024	2990	1042181	368150	550677
30025432300000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	005H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring First Sanc	4682	ACTIVE	6/24/2017	12/23/2017	1/1/2018	1/1/2024	3053	854577	395155	580789
30025432140000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	006H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Third Carl	4771	ACTIVE	7/18/2017	11/23/2017	11/1/2017	1/1/2024	261	129662	68199	85578
30025431690000	CONOCOPHILLIPS	SPRUCE GOOSE FEDERAL COM	003H	STRAWN, NORTH BONE SPRING, NORTH BONE SPRING Second S	4637	ACTIVE	7/24/2016	11/15/2016	11/1/2016	2/1/2024	2375	353856	187416	232507
30025431350000	PERMIAN RESOURCES	CRAZY WOLF 1 2 B2M FEDERAL COM	001H	YATES-SEVEN RIVER MULTIPLE Bone Spring Second S	6534	ACTIVE	11/3/2017	1/16/2018	1/1/2018	2/1/2024	2137	484280	240362	322424
30025430700000	COTERRA ENERGY	SOUTHERN CALIFORNIA 29 FEDERAL	019H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4251	ACTIVE	11/13/2017	2/10/2018	2/1/2018	2/1/2024	1100	191897	100150	124011
30025430540000	EOG RESOURCES	DELLA 29 FEDERAL COM	602H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4373	ACTIVE	7/14/2016	11/24/2016	11/1/2016	1/1/2024	4661	1076517	436531	599883
30025430530000	EOG RESOURCES	DELLA 29 FEDERAL COM	701H	WOLFCAMP MULTIPLE Wolfcamp A Lower	4583	ACTIVE	6/19/2016	11/23/2016	11/1/2016	1/1/2024	4769	777210	330489	421781
30025428580000	CONOCOPHILLIPS	LUSK DEEP UNIT A	026Y	BONE SPRING BONE SPRING Bone Spring Second S	4076	ACTIVE	10/22/2015	2/26/2016	2/1/2016	2/1/2024	570	354748	137517	186732
30025427930000	MEWBOURNE OIL	CRAZY WOLF 1 2 B2CD FEDERAL COM	001H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Second S	6945	ACTIVE	10/23/2015	1/29/2016	1/1/2016	1/1/2024	751	350724	193667	232452
30025426950000	MEWBOURNE OIL	LONE WOLF 36 B2DA STATE COM	001H	LOWER BONE SPRING LOWER BONE SPRING Penn Undifferentiated	4194	ACTIVE	10/21/2015	12/15/2015	12/1/2015	1/1/2024	356933	165594	210335	
30025426930000	DEVON ENERGY	TAYLOR DRAW 7 FEDERAL COM	002Y	BONE SPRING BONE SPRING Bone Spring Second S	4354	ACTIVE	7/20/2015	10/4/2015	10/1/2015	1/1/2024	36	116421	73444	86875
30025426320000	EOG RESOURCES	CAPELLA BOP FEDERAL	004C	DELAWARE Bone Spring Third San	7350	COMPLETED		12/9/2015						
30025425240000	CONOCOPHILLIPS	SL EAST 30 FEDERAL COM	002H	BONE SPRING BONE SPRING Bone Spring Second S	4991	ACTIVE	1/1/2016	2/20/2016	2/1/2016	2/1/2024	2019	439159	157874	219926
30025424670000	MATADOR RESOURCES	FEDERAL 30	123H	BONE SPRING BONE SPRING Bone Spring Second S	4500	ACTIVE	7/8/2017	11/7/2017	12/1/2017	1/1/2024	1044	280962	125555	185242
30025422000000	CONOCOPHILLIPS	KING AIR 8 FEDERAL COM	004H	STRAWN, NORTH MULTIPLE Bone Spring Second S	4392	ACTIVE	1/16/2015	3/12/2015	3/1/2015	2/1/2024	246609	110249	137611	
30025421320000	FASKEN OIL & RANCH	LAGUNA 16 STATE	009H	BONE SPRING BONE SPRING Bone Spring Second S	4442	ACTIVE	10/14/2014	3/1/2016	3/1/2016	2/1/2024	3905	620049	221781	271217
30025419950000	FASKEN OIL & RANCH	PALOMA 21 FEDERAL COM	003H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	6688	ACTIVE	11/16/2014	2/9/2015	2/1/2015	2/1/2024	3148	917053	140071	263434
30025419840000	FASKEN OIL & RANCH	PALOMA 21 FEDERAL COM	002H	DELAWARE, NORTH/BONE SPRING, SOUTH BONE SPRING Second S	6771	ACTIVE	12/18/2014	7/21/2015	8/1/2015	2/1/2024	7854	1041520	149398	424989
30025419830000	FASKEN OIL & RANCH	PALOMA 21 FEDERAL COM	001H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	6844	ACTIVE	9/13/2014	6/18/2015	6/1/2015	2/1/2024	5437	1288165	132328	431414
30025419770000	CONOCOPHILLIPS	MAGNUM PRONTO STATE	006H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	4214	ACTIVE	10/12/2014	12/9/2014	12/1/2014	2/1/2024	2207	380674	159953	203418
30025419470000	FASKEN OIL & RANCH	PALOMA 21 FEDERAL COM	004H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Second S	5618	ACTIVE	7/28/2014	6/20/2015	6/1/2015	2/1/2024	275	930666	99107	246159
30025419270000	MARATHON OIL	SUN MCKAY FEDERAL	003H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Second S	4277	ACTIVE	7/13/2014	10/8/2014	10/1/2014	2/1/2024	1391	142380	54320	77044
30025418790000	COTERRA ENERGY	CHAPARRAL 33 FEDERAL COM	005H	BONE SPRING, SOUTH BONE SPRING, SOUTH BONE SPRING Third San	3899	ACTIVE	9/26/2014	12/5/2014	11/1/2014	1/1/2024	172	233340	63889	96158
30025418070000	MEWBOURNE OIL	BILBREY 33 FEDERAL COM	004H	BONE SPRING BONE SPRING Bone Spring Second S	7184	ACTIVE	6/23/2014	10/14/2014	11/1/2014	1/1/2024	1401519	446743	616271	
30025418060000	MEWBOURNE OIL	BILBREY 33 FEDERAL COM	003H	BONE SPRING BONE SPRING Bone Spring Second S	7123	ACTIVE	7/26/2014	11/28/2014	11/1/2014	1/1/2024	3470	1148746	438268	623563
30025417010000	MEWBOURNE OIL	EXCALIBUR 17 LI FEDERAL COM	001H	BONE SPRING BONE SPRING Bone Spring Second S	4250	ACTIVE	7/2/2014	9/3/2014	9/1/2014	12/1/2023	165	139073	59952	82606
30025416300000	AVANT OPERATING, LLC	HAMON A FEDERAL COM	002H	BONE SPRING, EAST BONE SPRING, EAST Bone Spring Third San	4793	ACTIVE	8/9/2014	10/24/2014	10/1/2014	1/1/2024	8			

30025407530000	PERMIAN RESOURCES	AMOCO 21 FEDERAL	001H	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	3835	ACTIVE	10/8/2012	2/27/2013	4/1/2013	1/1/2024	2251	183520	34013	55741
30025407250000	CONOCOPHILLIPS	OUTLAW 22 FEDERAL COM	001H	BONE SPRING	BONE SPRING	Wolfcamp A XY	3603	ACTIVE	8/30/2012	12/15/2012	12/1/2012	2/1/2024	4270	632739	182034	227579
30025407050000	CONOCOPHILLIPS	LUSK DEEP UNIT A	022H	BONE SPRING	BONE SPRING	Bone Spring Second S	3385	ACTIVE	9/18/2012	12/12/2012	12/1/2012	2/1/2024	115	304811	103109	125413
30025406930000	APA CORP	LUSK 34 FEDERAL	002H	BONE SPRING, SOUTH	BONE SPRING, SOUTH		4306	ACTIVE	8/28/2012	2/26/2013	5/1/2013	2/1/2024	1834	450002	82041	158441
30025406800000	FASKEN OIL & RANCH	LAGUNA 16 STATE		2 BONE SPRING	BONE SPRING	Bone Spring Second S	3914	ACTIVE	7/28/2012	1/29/2013	2/1/2013	2/1/2024	1753	761331	222602	323692
30025406350000	CONOCOPHILLIPS	WARHAWK 3 FEDERAL COM	001H	BONE SPRING, EAST	MULTIPLE	Bone Spring Second S	4184	ACTIVE	7/22/2013	9/12/2013	9/1/2013	2/1/2024	1887	346486	167519	219065
30025405890000	MEWBOURNE OIL	NORTE 13 HE FEDERAL	001H	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	4183	ACTIVE	7/4/2012	8/30/2012	9/1/2012	1/1/2024	2388	183587	72836	93122
30025405570000	COTERRA ENERGY	EAST LUSK 15 FEDERAL COM		2 BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	4043	ACTIVE	7/14/2012	9/8/2012	9/1/2012	2/1/2024	856	240896	79752	111088
30025405310000	FASKEN OIL & RANCH	QUAIL 16 STATE	004H	BONE SPRING, SOUTH	MULTIPLE	Wolfcamp A XY	4470	ACTIVE	12/20/2012	2/16/2013	2/1/2013	2/1/2024	832	744042	242775	403152
30025404470000	COTERRA ENERGY	SNODDY FEDERAL	020H	BONE SPRING	BONE SPRING	Bone Spring Second S	4045	ACTIVE	7/18/2012	9/29/2012	9/1/2012	2/1/2024	1550	369292	143129	185546
30025404370000	COTERRA ENERGY	MADURO UNIT		9 BONE SPRING	BONE SPRING	Bone Spring Second S	6711	ACTIVE	7/2/2012	9/23/2012	9/1/2012	2/1/2024	1755	413065	138094	189335
30025404210000	MARSHALL & WINSTON	TJG 3 FEDERAL COM	001H	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	4090	ACTIVE	9/24/2013	11/11/2013	11/1/2013	2/1/2024	1353	99358	0	10627
30025403890000	RAYBAW OPERATING, LLC	MALACHITE 22 FEDERAL	002H	BONE SPRING	BONE SPRING	Bone Spring First Sanc	4020	ACTIVE	11/20/2014	2/8/2015	4/1/2015	2/1/2024	3075	541322	222470	271908
30025403650000	COTERRA ENERGY	HAT MESA 10 FEDERAL COM	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	3929	ACTIVE	1/7/2012	3/25/2012	3/1/2012	2/1/2024	572	183572	58204	79914
30025403610000	FASKEN OIL & RANCH	QUAIL 16 STATE	003H	BONE SPRING, SOUTH	MULTIPLE		3770	ACTIVE	4/19/2012	4/1/2012	9/1/2012	2/1/2024	2070	439697	138278	185324
30025403180000	RAYBAW OPERATING, LLC	MALACHITE 22 FEDERAL	001H	BONE SPRING	BONE SPRING	Bone Spring First Sanc	4174	ACTIVE	1/13/2012	4/6/2012	4/1/2012	2/1/2024	3266	386006	79	60735
30025403160000	BTA OIL PRODUCERS	GEM 8705 JV-P	011H	BONE SPRING	BONE SPRING		3758	ACTIVE	7/15/2011	5/27/2012	6/1/2012	2/1/2024	2275	158829	74626	90451
30025403130000	CONOCOPHILLIPS	PEASHOOTER 4 FEDERAL COM	001H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	4210	ACTIVE	11/15/2011	1/27/2012	1/1/2012	2/1/2024	3	113388	55716	74611
30025403080000	COTERRA ENERGY	ADAMS STATE COM	003H	BONE SPRING	BONE SPRING	Bone Spring Third San	6870	ACTIVE	10/19/2011	1/28/2012	1/1/2012	2/1/2024	4008	860122	123812	197000
30025403000000	COTERRA ENERGY	EAST LUSK 15 FEDERAL COM	001Y	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	4061	ACTIVE	10/3/2011	12/17/2011	12/1/2011	2/1/2024	1136	259280	93191	152675
30025402800000	PERMIAN RESOURCES	FECTA 33 FEDERAL	002H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4148	ACTIVE	7/11/2012	12/12/2012	2/1/2013	1/1/2024	363	169036	44108	68691
30025402790001	PERMIAN RESOURCES	FECTA 33 FEDERAL	001H	STRAWN, NORTH			3860	ACTIVE	2/2/2012	3/25/2012						
30025402790000	PERMIAN RESOURCES	FECTA 33 FEDERAL	001H	STRAWN, NORTH	BONE SPRING, SOUTH		3860	ACTIVE	2/2/2012	4/6/2012	5/1/2012	1/1/2024	107	214552	38589	82294
30025402600000	CONOCOPHILLIPS	LUSK DEEP UNIT A	023H	BONE SPRING	BONE SPRING	Bone Spring Second S	4056	ACTIVE	9/9/2011	1/4/2011	11/1/2011	2/1/2024	730	239797	84734	120051
30025402560000	COTERRA ENERGY	SOUTHEAST LUSK 33 FEDERAL	003H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4624	ACTIVE	11/14/2011	2/1/2012	1/1/2012	2/1/2024	610	411971	98816	155997
30025402550000	COTERRA ENERGY	SOUTHEAST LUSK 33 FEDERAL	002H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	3926	ACTIVE	1/7/2012	2/29/2012	3/1/2012	2/1/2024	668	569781	213137	258228
30025402300000	MARATHON OIL	QUEENIE 15 FEDERAL	001H	DELAWARE	DELAWARE	Bell Canyon	2825	ACTIVE	10/4/2011	12/25/2011	12/1/2011	2/1/2024	2768	429255	55682	98870
30025401870000	COTERRA ENERGY	NORTH MADURO FEDERAL UNIT		5 BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4400	ACTIVE	9/28/2011	12/14/2011	12/1/2011	2/1/2024	687	154032	54921	78763
30025401850000	MEWBOURNE OIL	SPYGLASS 17 FEDERAL	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	4331	ACTIVE	8/2/2011	10/5/2011	10/1/2011	1/1/2024	719	116721	40144	59975
30025401660000	EOG RESOURCES	LUSK 23 FEDERAL	003H	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	4124	ACTIVE	7/31/2011	11/12/2011	11/1/2011	1/1/2024	446	97071	39213	50411
30025401630000	CONOCOPHILLIPS	MAGNUM PRONTO STATE COM	005H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4163	ACTIVE	6/26/2011	10/13/2011	10/1/2011	2/1/2024	1231	259669	86603	117988
30025401540000	CONOCOPHILLIPS	SL EAST 30 FEDERAL COM	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	4097	ACTIVE	6/29/2011	9/26/2011	9/1/2011	2/1/2024	1039	350791	132889	177668
30025401420000	MEWBOURNE OIL	OCLEOT 34 FEDERAL COM	001H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	3962	ACTIVE	11/9/2011	2/15/2012	2/1/2012	1/1/2024	1050	487954	145159	225245
30025401320000	COTERRA ENERGY	DIAMANTE 21 FEDERAL		2 YATES-SEVEN RIVER	BONE SPRING	Bone Spring Second S	4406	ACTIVE	7/4/2011	9/14/2011	9/1/2011	2/1/2024	301	89887	29288	41551
30025400410000	COTERRA ENERGY	QUAIL RIDGE 32 STATE		4 BONE SPRING	BONE SPRING	Bone Spring Avalon C	4409	ACTIVE	4/18/2011	8/27/2011	8/1/2011	2/1/2024	766	110523	30494	42075
30025400400000	COTERRA ENERGY	QUAIL RIDGE 32 STATE		3 BONE SPRING	BONE SPRING	Bone Spring Third San	4434	ACTIVE	5/20/2011	8/16/2011	8/1/2011	2/1/2024	200	137974	43143	60397
30025399800000	COTERRA ENERGY	NORTH MADURO FEDERAL UNIT	004H	YATES-SEVEN RIVER	BONE SPRING, SOUTH	Bone Spring Second S	4225	ACTIVE	1/10/2011	4/23/2011	6/1/2011	2/1/2024	180	72455	20842	29965
30025399600000	CONOCOPHILLIPS	CITATION X FEDERAL COM	001H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring First Sanc	4187	ACTIVE	11/27/2010	4/7/2011	4/1/2011	2/1/2024	750	750898	431405	534172
30025399570000	COTERRA ENERGY	EAST LUSK 24 FEDERAL COM	001H	BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	3670	ACTIVE	12/26/2010	3/28/2011	3/1/2011	2/1/2024	753	162219	25997	42346
30025399510000	CONOCOPHILLIPS	MAGNUM PRONTO STATE COM	004H	STRAWN, NORTH	BONE SPRING, SOUTH	Bone Spring Second S	4138	ACTIVE	12/29/2010	3/1/2011	3/1/2011	2/1/2024	334	218994	97967	122924
30025398890000	COTERRA ENERGY	SOUTHERN CALIFORNIA 29 FEDERAL	018H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4498	ACTIVE	12/6/2010	2/25/2011	2/1/2011	2/1/2024	785	222388	38334	56952
30025398800000	COTERRA ENERGY	SOUTHERN CALIFORNIA 29 FEDERAL		17 BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	3093	ACTIVE	11/5/2010	1/21/2011	1/1/2011	2/1/2024	492	118269	31070	38194
30025398870000	COTERRA ENERGY	STATE HH	003H	BONE SPRING	MULTIPLE	Bone Spring Second S	4507	ACTIVE	1/28/2011	4/19/2011	4/1/2011	2/1/2024	446	142414	39628	55551
30025398700000	MEWBOURNE OIL	SPYGLASS 17 FEDERAL COM	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	4133	ACTIVE	1/1/2011	3/4/2011	3/1/2011	1/1/2024	710	107567	40140	53423
30025398530000	CONOCOPHILLIPS	SOUTHERN CALIFORNIA 29 FEDERAL	016H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4171	ACTIVE	10/19/2010	12/29/2010	12/1/2010	2/1/2024	331	147078	34874	50235
30025397960000	COTERRA ENERGY	STATE DR COM		9 BONE SPRING, EAST	BONE SPRING, EAST	Bone Spring Second S	3494	ACTIVE	10/30/2010	12/31/2010	1/1/2011	2/1/2024	369	90793	30056	37965
30025396340000	COTERRA ENERGY	SOUTHERN CALIFORNIA 29 FEDERAL	015H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4365	ACTIVE	1/22/2010	4/30/2010	4/1/2010	2/1/2024	541	186001	65725	91782
30025396230001	COTERRA ENERGY	NORTH MADURO FEDERAL UNIT	003H	BONE SPRING, SOUTH		Bone Spring Second S	4191	ACTIVE	9/4/2010	3/30/2017						
30025396230000	COTERRA ENERGY	NORTH MADURO FEDERAL UNIT	003H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	4191	ACTIVE	9/4/2010	11/17/2010	11/1/2010	2/1/2024	229	182174	28005	40362
30025395290000	EOG RESOURCES	CAPELLA BOP FEDERAL		2 DELAWARE	DELAWARE	Brushy Canyon	4170	ACTIVE	8/23/2012	11/9/2012	11/1/2012	1/1/2024	7659	1322152	359718	561743
30025394840000	CONOCOPHILLIPS	STEALTH FEDERAL COM	001H	BONE SPRING	MULTIPLE	Bone Spring First Sanc	4215	ACTIVE	12/18/2009	4/15/2010	4/1/2010	2/1/2024	2026	796847	111809	203097
30025392890000	CONOCOPHILLIPS	PATTERSON B 52 FEDERAL	004H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1552	ACTIVE	1/25/2011	8/4/2011	8/1/2011	2/1/2024	31	103298	37751	59909
30025390260000	CONOCOPHILLIPS	FALCON FEDERAL	003H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1517	ACTIVE	7/13/2008	10/23/2008	10/1/2008	2/1/2024	408	32945	11845	15988
30025389700000	CONOCOPHILLIPS	PATTERSON B 52 FEDERAL	005H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1549	ACTIVE	7/27/2011	8/29/2011	9/1/2011	2/1/2024	161	71876	40689	48229
30025389050000	CONOCOPHILLIPS	KING AIR FEDERAL	002H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1644	ACTIVE	10/23/2009	1/5/2010	1/1/2010	1/1/2024	73	80114	18011	26550
30025388660000	CONOCOPHILLIPS	LEAR STATE	002H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1636	ACTIVE	8/15/2009	10/13/2009	10/1/2009	1/1/2024	35381	15192	18853	
30025388650000	CONOCOPHILLIPS	LEAR STATE	001H	BONE SPRING, NORTH	BONE SPRING, NORTH	Bone Spring Second S	1655	ACTIVE	3/15/2009	5/15/2009	5/1/2009	1/1/2024	21	106604	19800	29897
30025388160000	CONOCOPHILLIPS	BEECHCRAFT FEDERAL	001H	BONE SPRING, NORTH	MULTIPLE	Bone Spring Second S	1422	ACTIVE	8/1/2009	10/28/2009	11/1/2009	2/1/2024	631	103089	24883	32618
30025387360000	CONOCOPHILLIPS	MAGNUM PRONTO STATE	003H	BONE SPRING, SOUTH	BONE SPRING, SOUTH	Bone Spring Second S	1554	ACTIVE	4/10/2008	6/1/2008	6/1/2008	2/1/2024	143	57303	16013	24712

3001542370000	DEVON ENERGY	BELLATRIX 28 FEDERAL COM	007H	BONE SPRING,EAST	MULTIPLE	Bone Spring Avalon Lc	4607	ACTIVE	9/14/2014	1/10/2015	1/1/2015	1/1/2024	2	925803	218060	458114
30015423470000	DEVON ENERGY	VEGA 29 FEDERAL	004H	BONE SPRING	BONE SPRING	Bone Spring First Sanc	4612	ACTIVE	11/22/2014	2/27/2015	2/1/2015	1/1/2024	32	742485	211418	407364
30015423450000	DEVON ENERGY	MIZAR 11 FED COM	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	4488	ACTIVE	3/8/2015	1/3/2016	1/1/2016	1/1/2024	24	437646	156405	220838
30015422390000	EOG RESOURCES	WOLF AJA FEDERAL COM	021H	DELAWARE	DELAWARE	Brushy Canyon	8328	ACTIVE	6/25/2014	12/19/2014	12/1/2014	1/1/2024	10469	2173745	479259	971582
30015420760000	DEVON ENERGY	ANTARES 23 FEDERAL	013H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4400	ACTIVE	4/27/2014	10/14/2014	10/1/2014	1/1/2024	1658	560542	208488	306792
30015420060000	EXXON	BIG EDDY UNIT	257H	BONE SPRING	BONE SPRING	Bone Spring Second S	5671	ACTIVE	2/2/2014	5/22/2014	5/1/2014	1/1/2024	2852	644414	252313	324719
30015419640000	DEVON ENERGY	MIZAR 11 FED COM	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	4315	ACTIVE	7/27/2014	12/25/2014	12/1/2014	1/1/2024	501695	164774	276882	276882
30015419140000	DEVON ENERGY	AQUILA 22 FEDERAL COM	013H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4551	ACTIVE	6/12/2014	9/29/2014	10/1/2014	1/1/2024	1150	312054	73648	97776
30015416010001	EXXON	BIG EDDY UNIT	259H	BONE SPRING,EAST		Bone Spring Second S	4454	ACTIVE	12/21/2013	5/17/2023						

30015416010000	EXXON	BIG EDDY UNIT	259H	BONE SPRING,EAST	BONE SPRING,EAST	Bone Spring Second S	4454	ACTIVE	12/21/2013	2/27/2014	3/1/2014	1/1/2024	6439	380314	122881	187039
30015414570000	EXXON	BIG EDDY UNIT	256H	BONE SPRING	BONE SPRING	Bone Spring Second S	5764	ACTIVE	6/26/2013	10/7/2013	10/1/2013	1/1/2024	677	858515	286266	392305
30015411590000	DEVON ENERGY	AQUILA 22 FEDERAL COM	004H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	6200	ACTIVE	5/27/2013	10/9/2013	9/1/2013	1/1/2024	294	288797	93842	127575
30015411080000	DEVON ENERGY	ANTARES 23 FEDERAL	004H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	5919	ACTIVE	4/23/2013	7/19/2013	6/1/2013	1/1/2024	1294	284642	104775	151016
30015411060000	DEVON ENERGY	ANTARES 23 FEDERAL	002H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4684	ACTIVE	9/21/2013	12/24/2013	12/1/2013	1/1/2024	93	224059	151699	175350
30015411050000	DEVON ENERGY	ANTARES 23 FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4177	ACTIVE	8/22/2013	12/24/2013	12/1/2013	1/1/2024	376	331576	170353	198010
30015401760000	EXXON	BIG EDDY UNIT	265H	WOLFCAMP	WOLFCAMP	Penn Shale	3546	ACTIVE	4/24/2013	6/7/2013	9/1/2013	1/1/2024	490	135548	38446	59918
30015410000000	DEVON ENERGY	AGASTI 27 FEDERAL	002H	BONE SPRING,EAST	BONE SPRING,EAST	Bone Spring Second S	6103	ACTIVE	3/14/2013	6/12/2013	6/1/2013	1/1/2024	660	345719	129144	176301
30015409990000	DEVON ENERGY	AGASTI 27 FEDERAL	001H	BONE SPRING,EAST	BONE SPRING,EAST	Bone Spring Second S	4264	ACTIVE	2/9/2013	6/6/2013	6/1/2013	1/1/2024	754	342295	134282	176863
30015409540000	CONOCOPHILLIPS	BIRDSEYE 32 STATE	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	4310	ACTIVE	2/26/2013	4/26/2013	5/1/2013	2/1/2024	461855	183800	213714	
30015409470000	DEVON ENERGY	MIMOSA 24 FEDERAL COM	002H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	5191	ACTIVE	7/14/2013	9/27/2013	9/1/2013	1/1/2024	213	335975	126143	157870
30015407550000	DEVON ENERGY	AQUILA 22 FEDERAL	002H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4721	ACTIVE	11/20/2012	2/16/2013	4/1/2013	1/1/2024	87	281736	129872	184656
30015407150000	EXXON	BIG EDDY UNIT	249H	BONE SPRING	BONE SPRING	Bone Spring Second S	6089	ACTIVE	12/14/2012	5/15/2013	5/1/2013	1/1/2024	315	382911	165281	228678
30015406270000	DEVON ENERGY	AQUILA 22 FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4406	ACTIVE	10/27/2012	5/3/2013	5/1/2013	1/1/2024	687	357857	134505	190078
30015406260000	DEVON ENERGY	MIMOSA 24 FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4181	ACTIVE	12/25/2012	3/15/2013	4/1/2013	1/1/2024	151	381570	151726	180048
30015405000000	EXXON	BIG EDDY UNIT	252H	BONE SPRING	BONE SPRING	Bone Spring Second S	4737	ACTIVE	8/21/2012	2/1/2013	2/1/2013	1/1/2024	283760	86302	118268	
30015404980000	EXXON	BIG EDDY UNIT	250H	BONE SPRING	BONE SPRING	Bone Spring Second S	5897	ACTIVE	4/11/2013	11/16/2013	11/1/2013	1/1/2024	4217	552249	188598	293162
30015404080000	DEVON ENERGY	BOOTES 15 FEDERAL COM	002H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4498	ACTIVE	3/21/2013	4/17/2013	5/1/2013	1/1/2024	1233	339565	121585	146213
30015404070000	DEVON ENERGY	BOOTES 15 FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4542	ACTIVE	2/14/2013	5/26/2013	5/1/2013	1/1/2024	1523	434847	157171	214065
30015403970000	EXXON	BIG EDDY UNIT DI 5	004H	DELAWARE	DELAWARE	Brushy Canyon	11167	ACTIVE	5/13/2014	8/19/2014	8/1/2014	1/1/2024	33306	2626017	815448	1155945
30015403340000	DEVON ENERGY	BELLATRIX 28 FEDERAL COM	004H	BONE SPRING	BONE SPRING	Bone Spring Second S	4964	ACTIVE	6/6/2013	9/12/2013	9/1/2013	1/1/2024	1863	634190	236383	290720
30015403330100	DEVON ENERGY	BELLATRIX 28 FEDERAL COM	003H	BONE SPRING	BONE SPRING	Bone Spring Second S	5021	ACTIVE	4/25/2013	9/22/2013	9/1/2013	1/1/2024	958	414057	163287	193170
30015403320000	DEVON ENERGY	BELLATRIX 28 FEDERAL COM	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	5812	ACTIVE	8/10/2012	10/21/2012	11/1/2012	1/1/2024	684	262730	119798	129724
30015403310000	DEVON ENERGY	BELLATRIX 28 FEDERAL	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	5269	ACTIVE	7/10/2012	11/1/2012	11/1/2012	1/1/2024	1048	438252	111383	156868
30015402210000	DEVON ENERGY	REGULUS 26 FEDERAL	003H	BONE SPRING, WEST	MULTIPLE	Bone Spring Second S	3989	ACTIVE	12/7/2012	2/10/2013	6/1/2013	1/1/2024	757	273653	89699	104589
30015402190000	DEVON ENERGY	REGULUS 26 FEDERAL	002H	BONE SPRING, WEST	MULTIPLE	Bone Spring Second S	4135	ACTIVE	9/27/2012	11/24/2012	1/1/2013	1/1/2024	1757	301888	67016	108368
30015401270000	EOG RESOURCES	NANCY ALH FEDERAL COM	001H	DELAWARE	DELAWARE	Brushy Canyon	3082	ACTIVE	7/20/2012	10/15/2012	10/1/2012	1/1/2024	1119327	178036	356575	
30015401070000	DEVON ENERGY	BIG ARISTOTLE 27 STATE	002H	DELAWARE	DELAWARE	Brushy Canyon	4771	ACTIVE	6/22/2012	9/5/2012	8/1/2012	1/1/2024	2309	1275361	275165	515228
30015401060000	DEVON ENERGY	BIG ARISTOTLE 27 STATE	001H	DELAWARE	DELAWARE	Brushy Canyon	4857	ACTIVE	6/10/2012	8/29/2012	8/1/2012	1/1/2024	3211	1431465	260770	472909
30015401050000	DEVON ENERGY	SPICA 25 FEDERAL	004H	BONE SPRING, WEST	MULTIPLE	Bone Spring Second S	4298	ACTIVE	8/10/2012	10/10/2012	4/1/2013	1/1/2024	1432	273406	36315	71530
30015400990000	DEVON ENERGY	SPICA 25 FEDERAL	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4744	ACTIVE	6/3/2012	8/25/2012	8/1/2012	1/1/2024	1271	262663	54634	83165
30015400980000	DEVON ENERGY	REGULUS 26 FEDERAL	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4362	ACTIVE	4/23/2012	8/13/2012	8/1/2012	1/1/2024	678	237368	44266	91290
30015400410000	DEVON ENERGY	REGULUS 26 FEDERAL	004H	BONE SPRING, WEST	MULTIPLE	Bone Spring Second S	3974	ACTIVE	4/13/2012	7/14/2012	7/1/2012	1/1/2024	2287	302415	91472	142986
30015399940000	DEVON ENERGY	SHAQTUS 26 STATE COM	003H	DELAWARE	DELAWARE	Brushy Canyon	4760	ACTIVE	4/28/2012	7/12/2012	7/1/2012	1/1/2024	5314	1763595	424099	692090
30015398960000	DEVON ENERGY	SHAQTUS 26 STATE COM	002H	DELAWARE	DELAWARE	Brushy Canyon	4895	ACTIVE	4/24/2012	6/18/2012	6/1/2012	1/1/2024	3460	1734219	380339	670955
30015398630000	DEVON ENERGY	VEGA 29 FEDERAL	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	4104	ACTIVE	3/23/2012	4/17/2012	6/1/2012	1/1/2024	933	668996	140982	186474
30015398300000	EOG RESOURCES	WOLF AJA FEDERAL	018H	DELAWARE	DELAWARE	Brushy Canyon	4302	ACTIVE	7/26/2014	1/15/2015	3/1/2015	1/1/2024	2639	1080070	398317	568091
30015398290000	EOG RESOURCES	WOLF AJA FEDERAL COM	017H	DELAWARE	DELAWARE	Brushy Canyon	4344	ACTIVE	7/26/2014	1/13/2015	2/1/2015	1/1/2024	5643	1141755	279391	481442
30015398190000	DEVON ENERGY	SHAQTUS 26 STATE COM	001H	DELAWARE	DELAWARE	Brushy Canyon	5177	ACTIVE	2/6/2012	5/16/2012	5/1/2012	1/1/2024	3409	1917503	397931	713991
30015394180000	DEVON ENERGY	CAPELLA 14 FEDERAL COM	004H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4168	ACTIVE	7/9/2012	9/8/2012	12/1/2012	1/1/2024	1061	292851	104582	134455
30015394170000	DEVON ENERGY	CAPELLA 14 FEDERAL COM	003H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4334	ACTIVE	9/28/2013	11/29/2013	11/1/2013	1/1/2024	1089	340895	163125	202841
30015394160000	DEVON ENERGY	CAPELLA 14 FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4133	ACTIVE	6/6/2012	8/21/2012	8/1/2012	1/1/2024	715	251550	66874	93231
30015394130000	DEVON ENERGY	CAPELLA 14 FEDERAL COM	002H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4614	ACTIVE	1/8/2013	3/24/2013	4/1/2013	1/1/2024	642	217098	68089	99658
30015389970000	COTERRA ENERGY	PENNY PINCHER FEDERAL COM	004H	BONE SPRING	MULTIPLE	Bone Spring Second S	4339	ACTIVE	7/7/2011	10/20/2011	10/1/2011	2/1/2024	164	160202	52636	79344
30015382960000	COTERRA ENERGY	PENNY PINCHER FEDERAL COM	003H	BONE SPRING	BONE SPRING	Bone Spring Second S	4305	ACTIVE	12/7/2010	4/3/2011	3/1/2011	2/1/2024	209352	36454	62286	
30015382950000	CONOCOPHILLIPS	BIRDSEYE 32 STATE	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	4156	ACTIVE	1/27/2011	5/19/2011	5/1/2011	2/1/2024	450	464970	169266	218837
300153822360000	CONOCOPHILLIPS	LIZARD POT FEDERAL	004H	BONE SPRING	BONE SPRING	Bone Spring Second S	6030	ACTIVE	8/13/2012	11/4/2012	11/1/2012	2/1/2024	1727	386704	151896	182390
30015382250000	CONOCOPHILLIPS	DIRTY DOZEN FEDERAL COM	003H	BONE SPRING	BONE SPRING	Bone Spring Second S	5195	ACTIVE	10/28/2010	4/5/2011	4/1/2011	2/1/2024	1726	420453	145459	207261
30015381500000	CONOCOPHILLIPS	DIRTY DOZEN FEDERAL COM	004H	BONE SPRING	BONE SPRING	Bone Spring Second S	5394	ACTIVE	7/13/2012	10/17/2012	10/1/2012	2/1/2024	2692	345365	130529	171033
30015381460000	CONOCOPHILLIPS	LIZARD POT FEDERAL	002H	BONE SPRING	BONE SPRING	Bone Spring Second S	5115	ACTIVE	8/7/2012	10/15/2012	10/1/2012	2/1/2024	1050	391349	120394	180392
30015381070000	CONOCOPHILLIPS	LIZARD POT FEDERAL COM	001H	BONE SPRING	BONE SPRING	Bone Spring Second S	5065	ACTIVE	9/16/2010	1/28/2011	2/1/2011	2/1/2024	1655	349508	109870	156981
30015378100000	CONOCOPHILLIPS	WILD CAP STATE	006H	BONE SPRING	BONE SPRING	Bone Spring Second S	4171	ACTIVE	9/30/2010	2/28/2011	3/1/2011	2/1/2024	4856	532683	105531	153846
30015372650000	CONOCOPHILLIPS	WILD CAP STATE	007H	BONE SPRING	BONE SPRING	Bone Spring Second S	1529	ACTIVE	6/10/2010	9/24/2010	9/1/2010	2/1/2024	537	175566	41981	63888
30015371850000	CONOCOPHILLIPS	LIBERATOR FEDERAL COM	001H	BONE SPRING, WEST	BONE SPRING, WEST	Bone Spring Second S	4221	ACTIVE	8/28/2009	11/19/2009	11/1/2009	2/1/2024	1548	338783	39685	55589
30015371440000	CONOCOPHILLIPS	WILD CAP STATE	005H	BONE SPRING	BONE SPRING	Bone Spring Second S	4152	ACTIVE	9/27/2009	12/7/2009	12/1/2009	2/1/2024	2429	264685	33725	49413
30015367500000	CONOCOPHILLIPS	WILD CAP STATE	004H	BONE SPRING	BONE SPRING	Brushy Canyon	1806	ACTIVE	6/9/2009	8/6/2009	8/1/2009	2/1/2024	594	147337	19835	33006
30015360320000	CONOCOPHILLIPS	WILD CAP STATE	003H	BONE SPRING	BONE SPRING	Bone Spring Second S	1650	ACTIVE	2/9/2008	7/11/2008	7/1/2008	2/1/2024	89	82403	15771	25291
30015347840000	CONOCOPHILLIPS	MALIBU FEDERAL	1	BONE SPRING	BONE SPRING		1432	ACTIVE	12/9/2006	2/15/2007	2/1/2007	2/1/2024	81	73626	22149	32638

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. 24380

SELF-AFFIRMED STATEMENT OF PATRICK RYAN

1. I am employed by Solaris Water Midstream, LLC as a Senior Geologist. I am over 18 years of age, have personal knowledge of the matters addressed herein, and am competent to provide this Self-Affirmed Statement. A copy of my resume is attached as **Exhibit B-1**.
2. I am familiar with Solaris's application in this case and with the geology matters addressed in Solaris's C-108.
3. Solaris seeks authorization to inject produced water into the Devonian; Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) for the purposes of disposal through its Ragin Rutley No. 1 well ("Well").
4. Solaris proposes to inject an average of 30,000 barrels of water per day and a maximum of 40,000 barrels of water per day.
5. Solaris requests that the Division approve a maximum injection pressure of 2,892 psi.
6. Well data and operational information for the Well is provided in the C-108 at pages 6-13 of Exhibit A-1.
7. A wellbore schematic is provided in the C-108 at page 20 of Exhibit A-1.
8. The C-102 is provided at page 15 of Exhibit A-1.

9. As discussed by Mr. Rubin, Solaris' wellbore design will isolate any known freshwater zones. The first intermediate string will isolate the salt section, and the second intermediate string will isolate the Artesia Group reservoirs and Capitan Reef above the Delaware Mountain Group. The fourth string set at 10,825' will isolate the lower pressure reservoirs of the Delaware Mountain Group and Bone Springs Formation. The fifth string, which is a liner, will be set to the top of the Devonian at approximately 14,463'. The fifth string (liner) will isolate the unconventional Wolfcamp shale reservoirs, as well as the conventional reservoirs of the Pennsylvanian and Mississippian (e.g. the Strawn, Morrow, and Atoka).

10. Solaris will run a compensated neutron/gamma ray log from surface to TD upon well completion and Solaris will submit the logs to the Division.

11. The disposal interval will be an open hole completion at approximately 14,463 to 16,263 feet.

12. The surface injection pressure is expected to be on a vacuum initially and increase to a maximum surface injection pressure of 2,892 psi.

13. Solaris has examined geologic and engineering data and has found that there is no evidence of faulting or any other hydrologic connection between the proposed disposal zone and any underground sources of drinking water.

14. Exhibit B-1 also shows the location of currently active and permitted Devonian Saltwater Disposal Wells with blue dots. Two active Devonian Saltwater Disposal Wells are identified within the 100 sq. mile area of review and utilized in the Fault Slip Potential model. The Magnum Pronto 32 State SWD #1 is approximately 4.86 miles to the northwest, and the Halfway SWD Federal #1 is approximately 2.03 miles to the southwest.

15. **Exhibit B-2** is a cross section that identifies four wells penetrating the targeted intervals, hung on the base of the Woodford formation. I used these well logs because they penetrate at least part of the targeted intervals, are of good quality, and are representative of the geology in the area. An inset of the structure map is located in the bottom right of the cross section.

16. The Devonian; Fusselman formation is sufficiently thick and porous in the proposed location wellbore to be an excellent candidate for injection.

17. Injection will not impair correlative rights and will not adversely affect the production of hydrocarbons because the proposed injection fluids will remain within the target injection zone. The proposed injection interval is not prospective for hydrocarbons within the area of the proposed injection well.

18. I have evaluated available engineering and geologic data and have found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. The underground freshwater aquifers are present at shallow depths. There are no known freshwater intervals underlying the injecting formation.

19. Based on my review and analysis, it is my opinion that the geologic seals above and below the injection interval, and the significant vertical offset between the injection zone and shallow zones containing freshwater, will prevent the proposed injection from impacting any drinking water sources or zones of freshwater.

20. The proposed injection fluids will be derived from various formations, including the Wolfcamp, Bone Spring, and Delaware formations. Water chemistry analyses of representative samples of produced water are provided on page 36 of Exhibit A-1. Based on this water chemistry analysis and prior experience, it is my opinion that there will not be a compatibility issue between the injection fluids and the fluids within the injection interval.

21. Solaris’ seismicity analysis is provided in **Exhibit B-3**. Based on published fault sets and stress orientation data, the faults closest to the proposed well are perpendicular to the maximum horizontal stress and are stable over the 30 years modeled. Other faults oriented more obliquely to the maximum horizontal stress are sufficiently distant from the proposed well to be stable over the 30 years modeled.


22. Solaris has evaluated other potential disposal formations in the area, but the Devonian; Fusselman formation is the most appropriate for injection.

23. Solaris has had good experience with the Devonian formation as a disposal zone since it currently operates the Magnum Pronto 32 State SWD #1 approximately 4.86 miles to the northwest. The well takes large volumes of water at low pressures.

24. Based on the above, it is my opinion that the Devonian; Fusselman formation is appropriate for injection in this area, that the Well will provide needed SWD infrastructure, and that the granting of Solaris’s application would best serve the interests of conservation, the prevention of waste, and the protection of correlative rights.

25. The attached exhibits were prepared by me or under my direct supervision and control.

26. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.



Patrick Ryan

06/05/2024
Date

HOSUTON, TEXAS

PATRICK THOMAS RYAN**EXPERIENCE****Aris Water Solutions (November 2023 to Present)****Sr. Geologist: Houston, Texas**

- Collaborate with Planning, Operations, Commercial, and Land Departments to evaluate the location of future saltwater disposal wells. Focus on avoiding hazards, while balancing costs and injection rates.
- Work with engineering to predict disposal rates based on reservoir properties for future SWDs and to optimize active wells.
- Provide guidance to senior leadership on on-going geoscience research and its implications to the business.

Matador Resources Company: Dallas, Texas (January 2017 to July 2023)**Senior Geologist – Northern Delaware Basin, Eddy and Lea Counties, New Mexico (September 2021 to July 2023)**

- On a team with two to four other geologists, covered assets across approximately 57 townships (over 2000 square miles).
- Generated well and seismic based structure, thickness, and attribute maps to aid in creating development plans, non-operated, and operated AFEs, with the reservoir engineering team.
- Worked with land and legal teams to prepare exhibits for compulsory pool hearings and provide relevant information for the drafting of joint operating agreements.
- As part of multidisciplinary teams, work on acreage evaluations ranging from small low interest non-op positions to corporately significant acquisitions.
- Collaborate with petrophysicists to plan wireline and rock data sampling programs on evaluation wells. Provide input and feedback to geophysicists on seismic depth and attribute models.

Geologist – MaxCom Operations Group (January 2017 to August 2021)

- Member of the 24-hour MaxCom operations team monitoring up to 6 rigs. Contributed to the operations of more than 250 wells in approximately 10 different horizons in the Delaware Basin from pre-planning to completion, including the preparation of daily and end of well reports.
- Aggregated, organized, and provided quality assurance of final logs, directional surveys, and “as-drilled” tops for internal databases, and distribution to non-op partners and regulatory agencies.
- Generated well top and seismic structural surfaces, for geologic prognosis, and horizontal well planning. Updated well plans based on observations made while drilling offset wells.
- Mentored seven more junior geologists on operational best practices in geosteering, communication, horizontal well planning, and software skills.
- Provided directives, coordinated scheduling, and reviewed all mud logging invoices for two years (over \$1 million per year).
- Visited rigs to interface with mud loggers, MWD engineers, directional drillers, and company men. Provided supervision for wireline logging, sidewall, and conventional coring on an as needed basis.

University of Kentucky: Department of Earth and Environmental Sciences (August 2014 to December 2016)**Graduate Research and Teaching Assistant: Lexington, Kentucky**

- Stratigraphic analysis of cores from the central Midland Basin, Texas utilizing traditional core description methods, elemental geochemistry via handheld XRF, and organic stable isotope geochemistry.
- Assisted with class exercises and lectures in stratigraphy. Organized logistics and co-led a field trip on modern coastal depositional environments in North Carolina.

Field Assistant: Lake Tanganyika Rift Basin, Tanzania (June to August 2015)

- Mapped bathymetry and sampled sediments from nearshore depositional environments, to delineate littoral fish habitat as part of a multidisciplinary humanitarian project, funded by the SEG Foundation's Geoscientists without Borders Program.

Geoservices a Schlumberger Company (December 2012 to July 2014)**Mud Logger: Equatorial Guinea (Offshore-Jade Platform) and Uganda (Onshore-Murchison Falls National Park)**

- Identified drill cutting lithology, examined cuttings for signs of hydrocarbons, and monitored the nature of cuttings for signs of wellbore instability. Built well logs using drill cuttings, gas levels, drilling parameters and logging while drilling data.
- Monitored drilling parameters, pressures, gas levels and pit volumes to help ensure proper well control.

Solaris Water Midstream, LLC
Case No. 24380
Exhibit B-1

Maine Geological Survey (May to October 2012)

Coastal Marine Geology Intern: Augusta, Maine

- Conducted GPS surveys of beaches, dunes, salt marshes and coastal infrastructure along the Maine coast to monitor coastal erosion. Post processed and analyzed survey data using ArcGIS.
- Assisted in a multidisciplinary offshore survey that utilized sediment grab samples, side-scan, and multi-beam sonar in the Gulf of Maine aboard a U.S. EPA survey vessel.

University of Maine: Department of Earth Sciences (January to February 2012)

Antarctic Field Assistant: McMurdo Dry Valleys, Antarctica

- Collected ancient algae buried in glacial sediments for radiocarbon dating, and rock samples for surface exposure age dating while living in isolated, helicopter supported field camps.

EDUCATION

M.S. Geology: University of Kentucky – December 2016 (GPA: 4.0)

- Thesis Title: Stratigraphic, Geochemical and Well Log Analysis of the Wolfcamp-D Unconventional Play in the Central Midland Basin, Texas

B.S. Earth Sciences and B.S. Finance: University of Maine – May 2012 (GPA: 3.7)

- Precambrian Field Camp: University of Minnesota Duluth – 2011

PROFESSIONAL DEVELOPMENT:

- Various online consortia meetings, short courses, and technical seminars from the Reservoir Characterization Research Laboratory “RCRL” (UT-Austin), the Quantitative Clastics Laboratory “QCL” (UT-Austin), and the Stanford Project on Deep-water Depositional Systems “SPODDS” (2020 to 2022)
- Turbidites and Deep-water Depositional Environments – Dr. Tim McHargue; Matador Inhouse (November 2019)
- Reservoir Geomechanics – Dr. Mark Zoback; Stanford Online (April-June 2019)
- Seismic Interpretation for Explorationists – Dr. Bruce Trudgill; Matador Inhouse (December 2018)
- Seismic Stratigraphy and Geomorphology – Dr. Henry Posamentier; SW Section AAPG Short Course (January 2018)
- Marathon Thrust Influences on Lower Permian Deposition, Field Trip – Dr. Xavier Janson; WTGS (October 2017)
- Geomechanics for Unconventionals – Dr. Marisela Sanchez-Nagel and Dr. Neal Nagel; Matador Inhouse (August 2017)
- Flügel International Course in Carbonate Microfacies – Multiple Instructors; FAU, Erlangen-Nürnberg (February 2015)

SOFTWARE SKILLS:

Proficiencies: Kingdom, QGIS, FSP 2.0, Petrel, StarSteer, Petra, DrillingInfo/Prism, Microsoft Office, Aucerna, and Pason
Experience with: ArcGIS, Peloton Wellview, Python, and OpenInvoice

MEMBERSHIPS

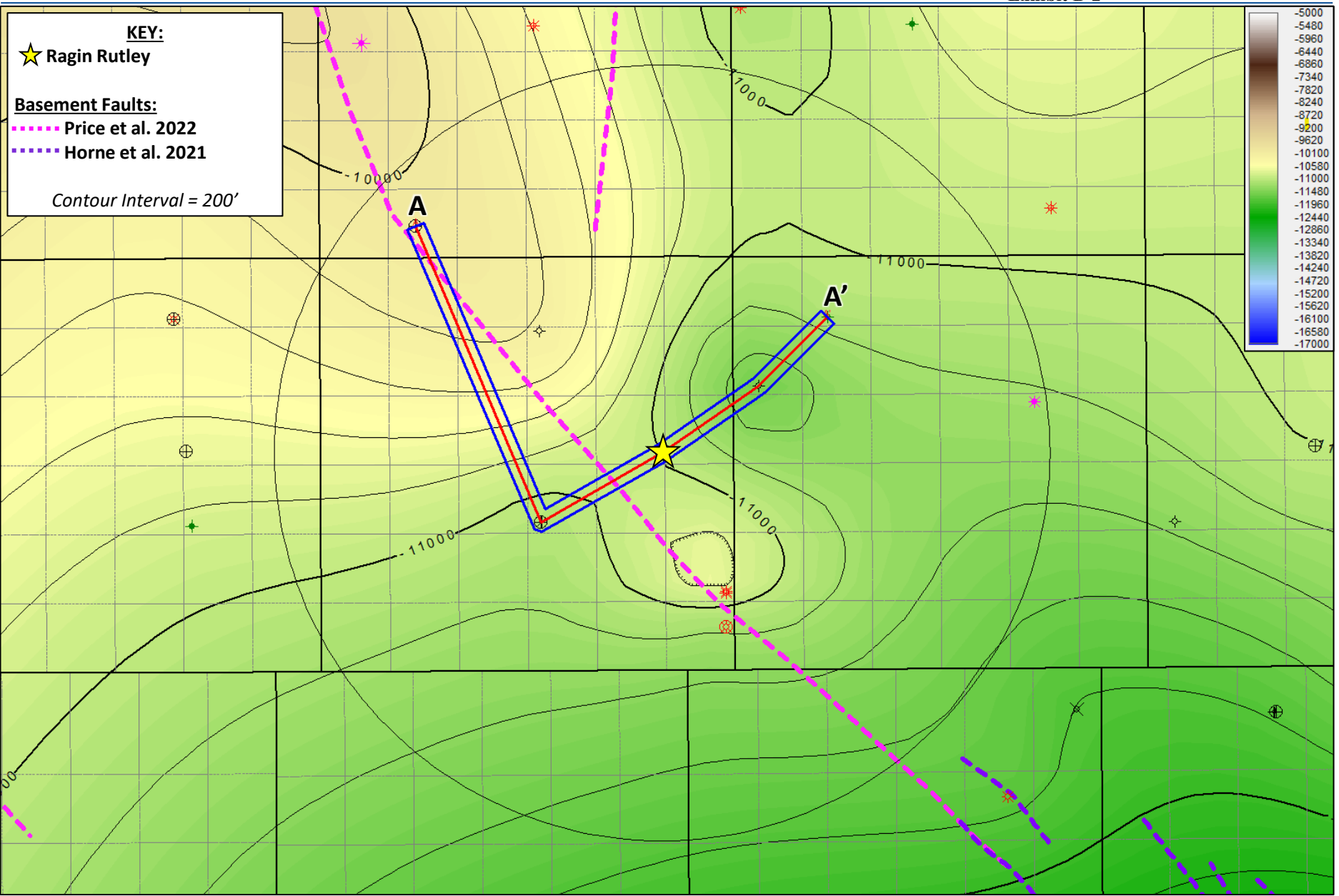
American Association of Petroleum Geologists (**AAPG**), Society of Exploration Geophysicists (**SEG**), West Texas Geological Society (**WTGS**), Houston Geological Society (**HGS**), Center for Induced Seismicity Research – Science Advisory Board (**CISR-SAC**)

REFERENCES:

Available upon request.

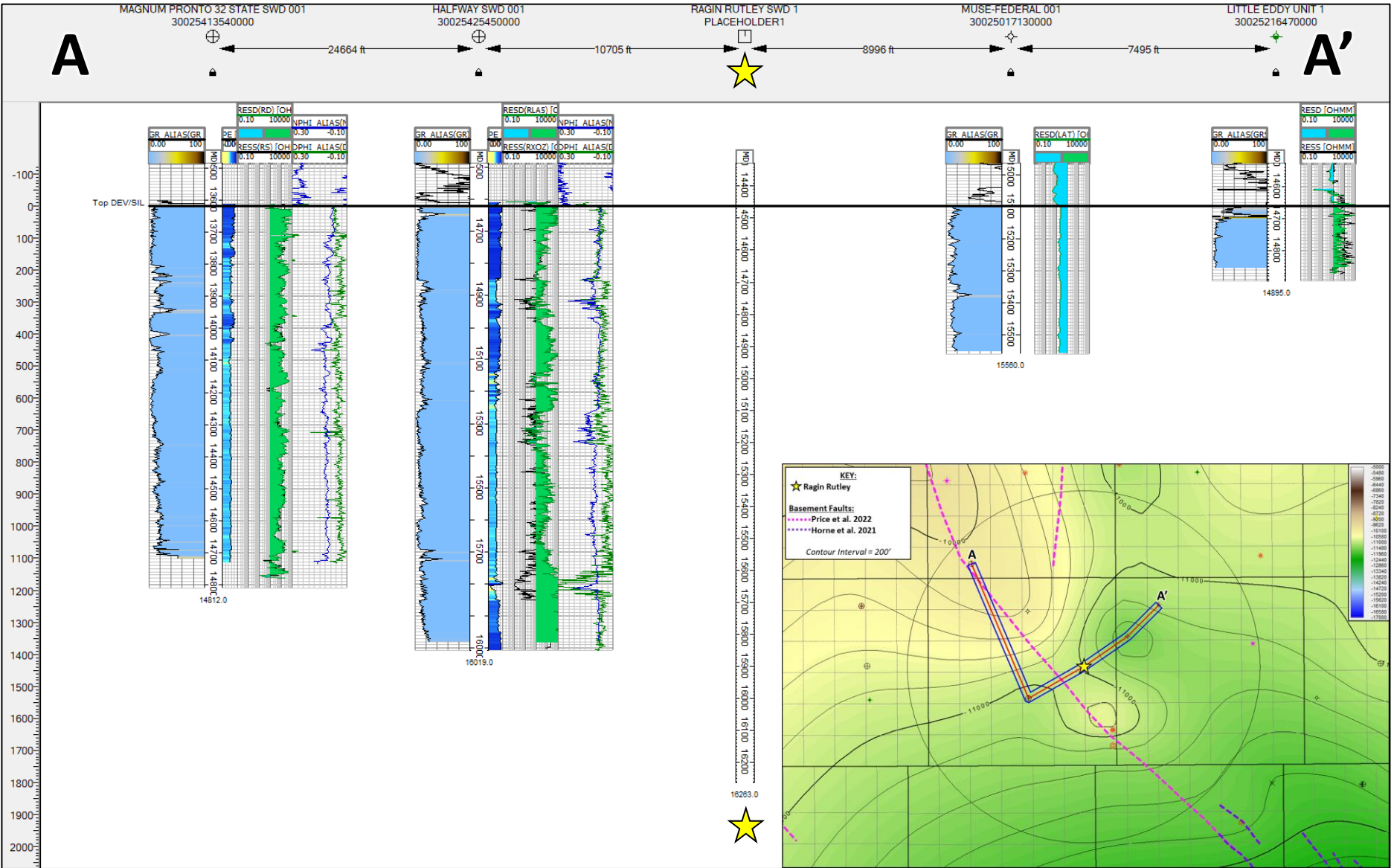
Top Injection Zone Structure Map (SSTVD)

Case No. 24380
Exhibit B-2



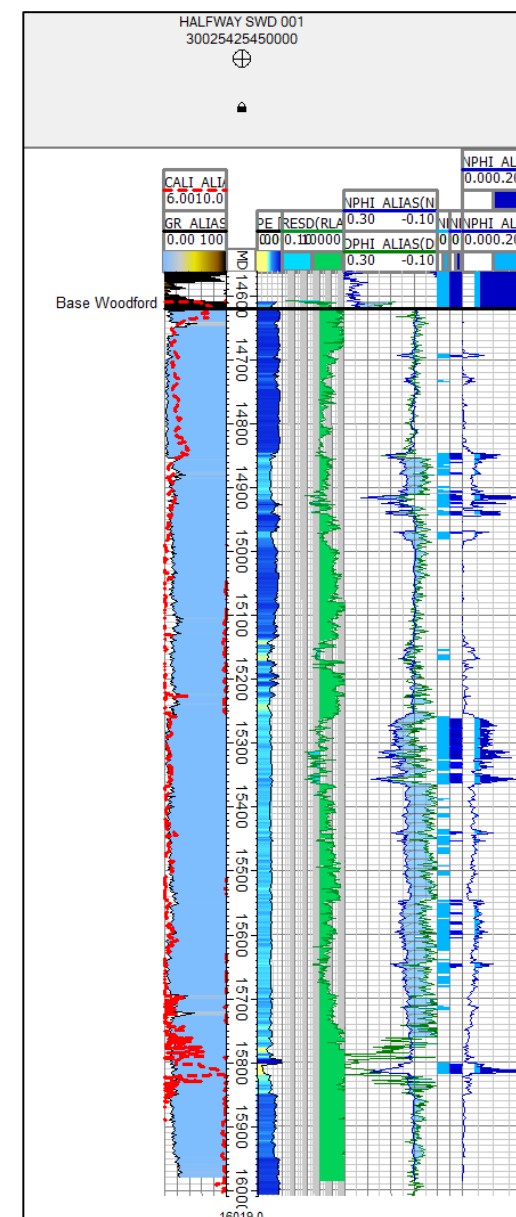


A-A Cross Section (Stratigraphic – Flattened on Top Injection Zone)



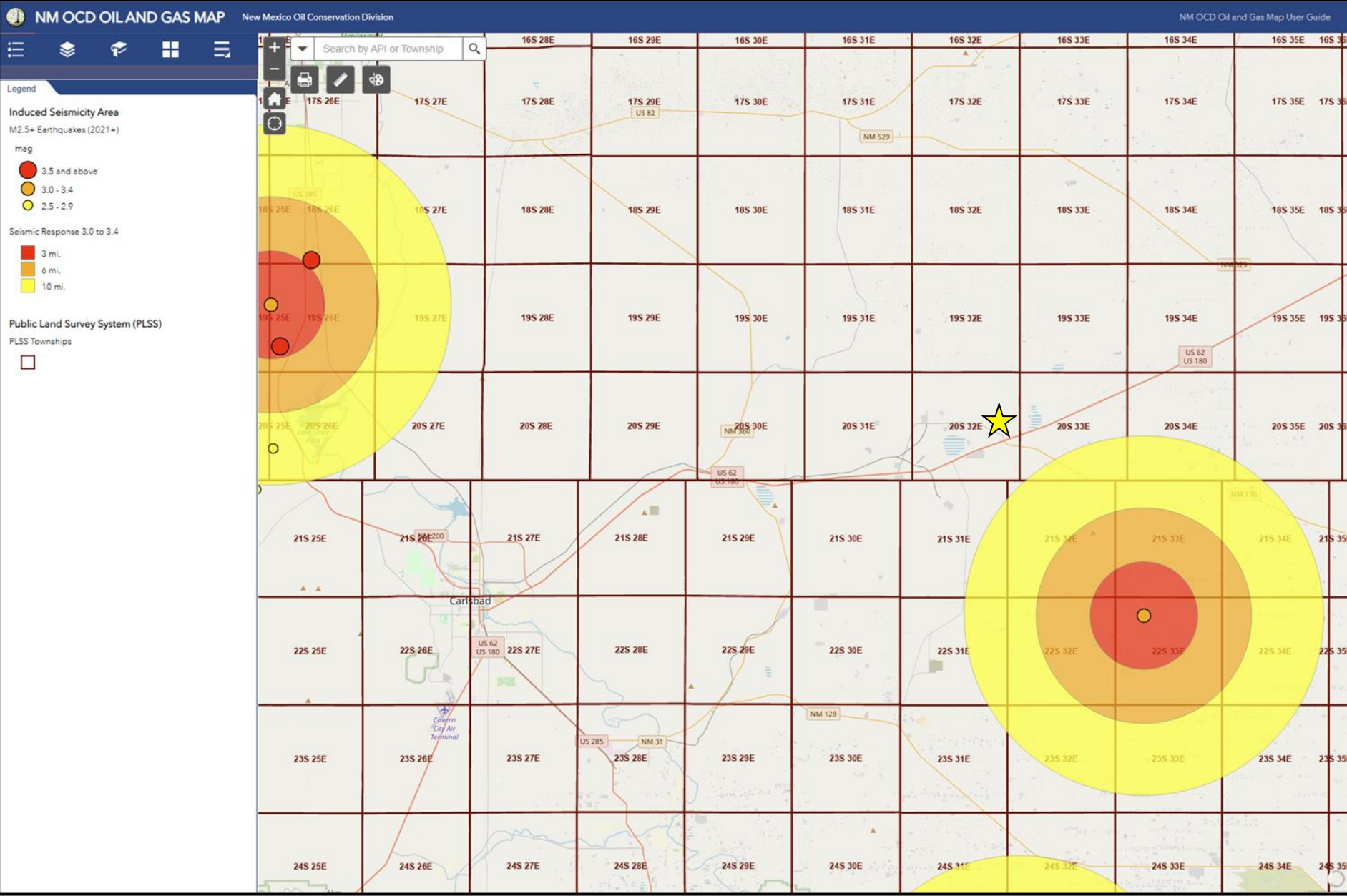
Model Input Table & Offset Injectors

Parameter	Input Value	Variability	Source
Vertical Stress Gradient	1.05 psi/ft	0.105	Offset Log Analysis; +/- 10%
A-Phi Parameter	0.55	0.055	Snee and Zoback, 2022; +/- 10%
Shmax Direction	55°	15°	Snee and Zoback, 2022
Initial Res. Pressure Gradient	0.44 psi/ft	0.044	Assumes normally pressured; +/- 10%
Reference Depth	16263	-	Proposed TD of subject well
Aquifer Thickness	314	50	Offset Log Analysis
Porosity	6.8	2	Offset Log Analysis
Permeability	15 mD	5 mD	Offset Analysis
Fault Strike Angles	Variable	5	Price et al., 2022
Dip Angle	80	10	Assumed value, chosen to maximize likely hood of slip.
Friction Coefficient	0.58	0.058	Standard Value; +/- 10%
Fluid Density	1100 kg/m ³	50 kg/m ³	Density of seawater
Dynamic Viscosity	0.001 Pa.s	-	1 centipoise, standard water viscosity



Well Name & Number	API	Operator	Distance from Subject Well	Injection Start	Cumulative Injection	Future Projected Injection Rate (bwpd)*
MAGNUM PRONTO 32 STATE SWD #001	30-025-41354	SOLARIS WATER MIDSTREAM, LLC	4.86 miles	March, 2015	7,475,277	1,277
HALFWAY SWD FEDERAL #001	30-025-42545	R360 PERMIAN BASIN, LLC	2.03 miles	January, 2016	21,018,231	8,867
RAGIN RUTLEY SWD #1	TBD	SOLARIS WATER MIDSTREAM, LLC	Is subject well	June, 2025	-	40,000

*Average of last 12 months of Injection or requested max rate.





USGS Earthquakes (Since 1970)

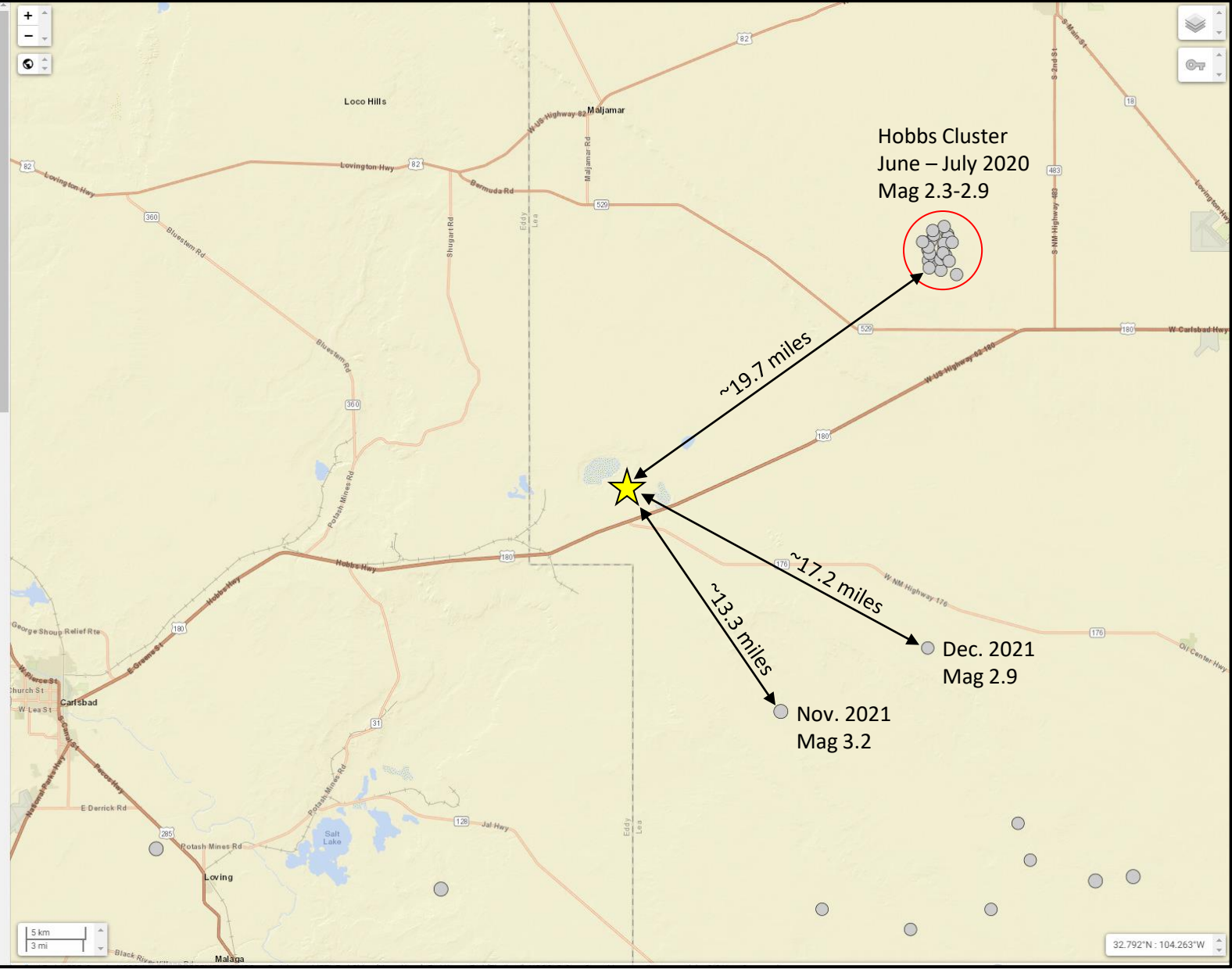
Search Results

35 of 68 earthquakes in map area.

Only List Earthquakes Shown on Map

Format: Magnitude Sort: Newest First

2.5	30 km WNW of Jal, New Mexi...	2023-11-01 03:08:49 (UTC)	8.9 km
3.5	New Mexico	2023-09-22 12:18:31 (UTC)	7.7 km
3.1	19 km SW of Eunice, New Me...	2023-07-25 23:15:32 (UTC)	2.0 km
2.4	25 km SW of Eunice, New Me...	2023-02-12 05:51:58 (UTC)	1.1 km
2.7	New Mexico	2022-09-03 09:53:42 (UTC)	5.0 km
2.7	24 km WSW of Eunice, New ...	2022-05-31 08:25:48 (UTC)	6.1 km
2.9	26 km SW of Monument, New...	2021-12-14 20:39:53 (UTC)	4.0 km
3.2	38 km SW of Monument, New...	2021-11-13 04:53:34 (UTC)	5.0 km
2.4	23 km SSW of Lovington, Ne...	2020-07-03 08:36:51 (UTC)	5.0 km
2.7	22 km NW of Monument, Ne...	2020-06-30 23:06:21 (UTC)	5.0 km
2.4	21 km SSW of Lovington, Ne...	2020-06-30 02:14:38 (UTC)	5.0 km
2.7	21 km NW of Monument, Ne...	2020-06-29 19:57:11 (UTC)	5.0 km
2.6	22 km SSW of Lovington, Ne...	2020-06-29 18:01:34 (UTC)	5.0 km
2.9	22 km NW of Monument, Ne...	2020-06-29 15:19:38 (UTC)	5.0 km



TexNet Earthquakes (Since 2017) – No Events



TexNet Earthquake Catalog

Show Table Station List Download Data Area of Interest... Measure Contact Us Important Links Important Information

Filters

26021 Events Matched

Require Focal Mechanism

Magnitude Range



Lock Magnitude

Since 2017-01-01

12/31/2016

5/15/2024

Focal Mechanisms

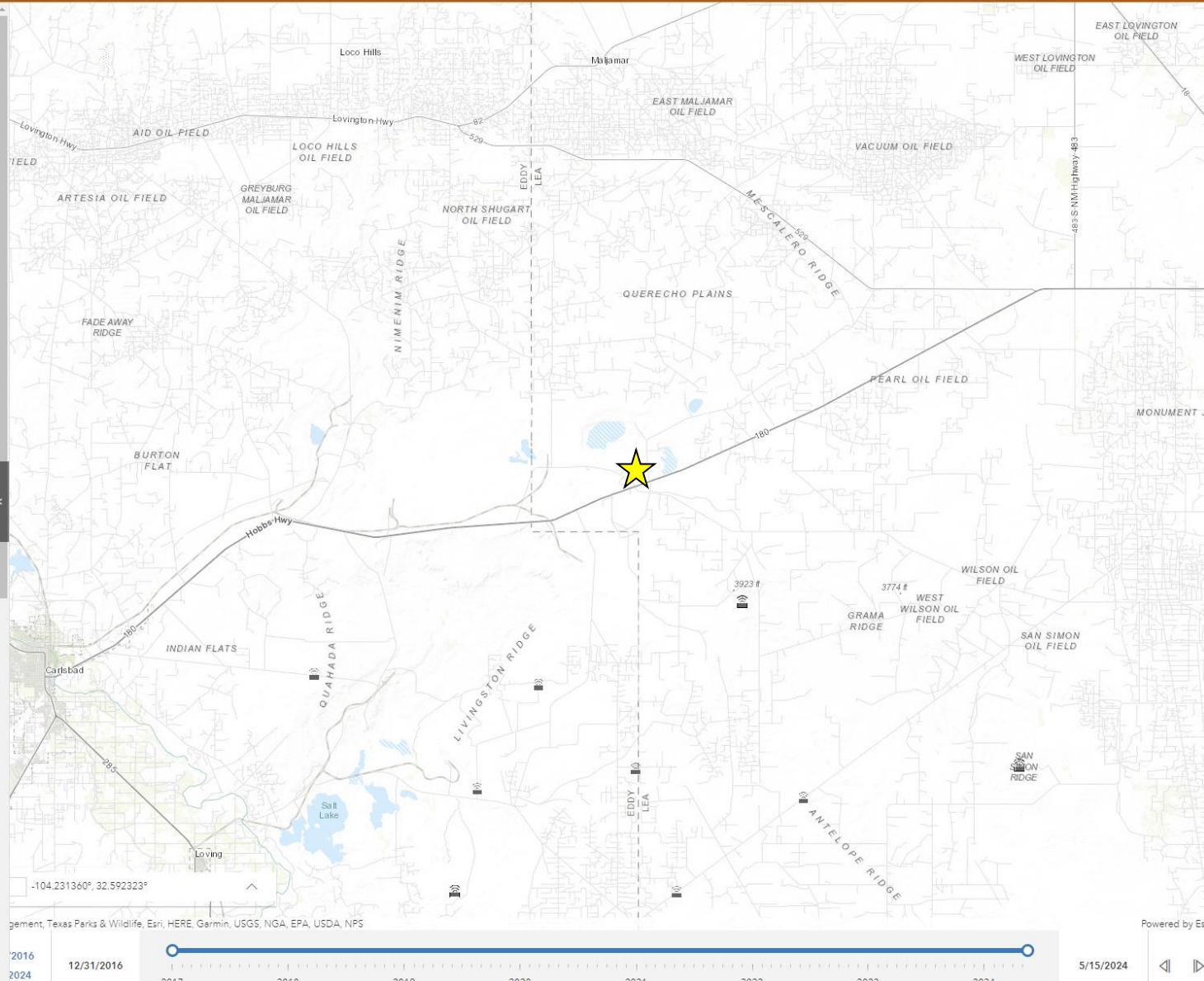
TexNet Catalog

Earthquake

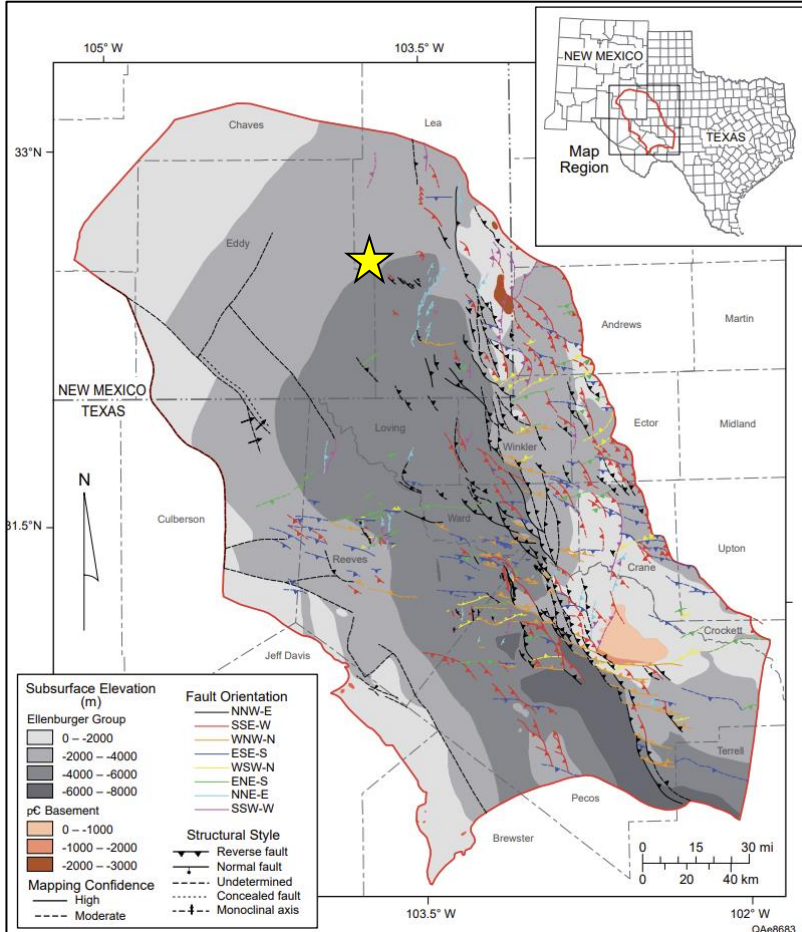
- 0 <= Magnitude <= 1.5
- 1.5 < Magnitude <= 2.0
- 2.0 < Magnitude <= 2.5
- 2.5 < Magnitude <= 3.0
- 3.0 < Magnitude <= 3.5
- 3.5 < Magnitude <= 4.0
- 4.0 < Magnitude <= 5.5
- Magnitude > 5.5

Earthquakes (Preliminary)

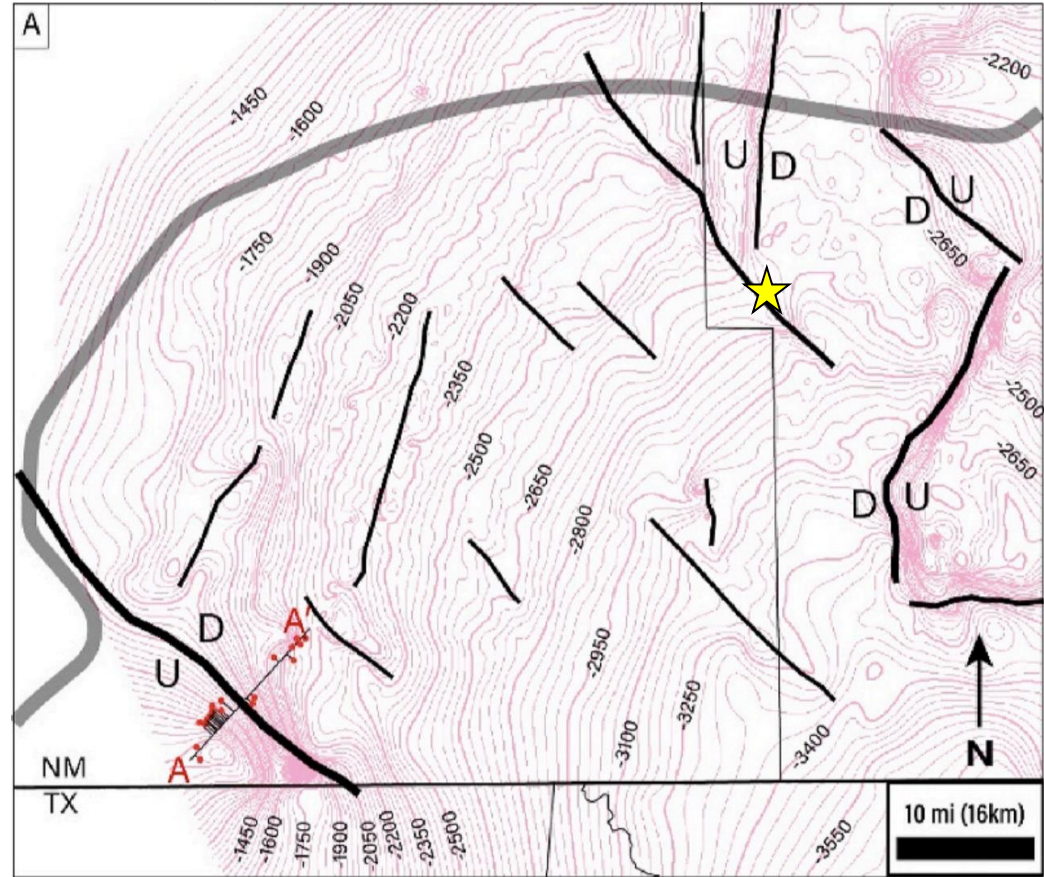
- ◆ 0 <= Magnitude <= 1.5
- ◆ 1.5 < Magnitude <= 2.0
- ◆ 2.0 < Magnitude <= 2.5
- ◆ 2.5 < Magnitude <= 3.0
- ◆ 3.0 < Magnitude <= 3.5
- ◆ 3.5 < Magnitude <= 4.0
- ◆ 4.0 < Magnitude <= 5.5



Horne et al. 2021 (Basement Faults)



Price et al. 2022 (Atoka Level Faults)



Price, Buddy J., Xavier Janson, and Charles Kerans. "Controls on mixed carbonate-siliciclastic slope morphology, early Permian, northern Delaware Basin, USA." *Marine and Petroleum Geology* 143 (2022): 105773.

Map georeferenced and faults digitized in QGIS

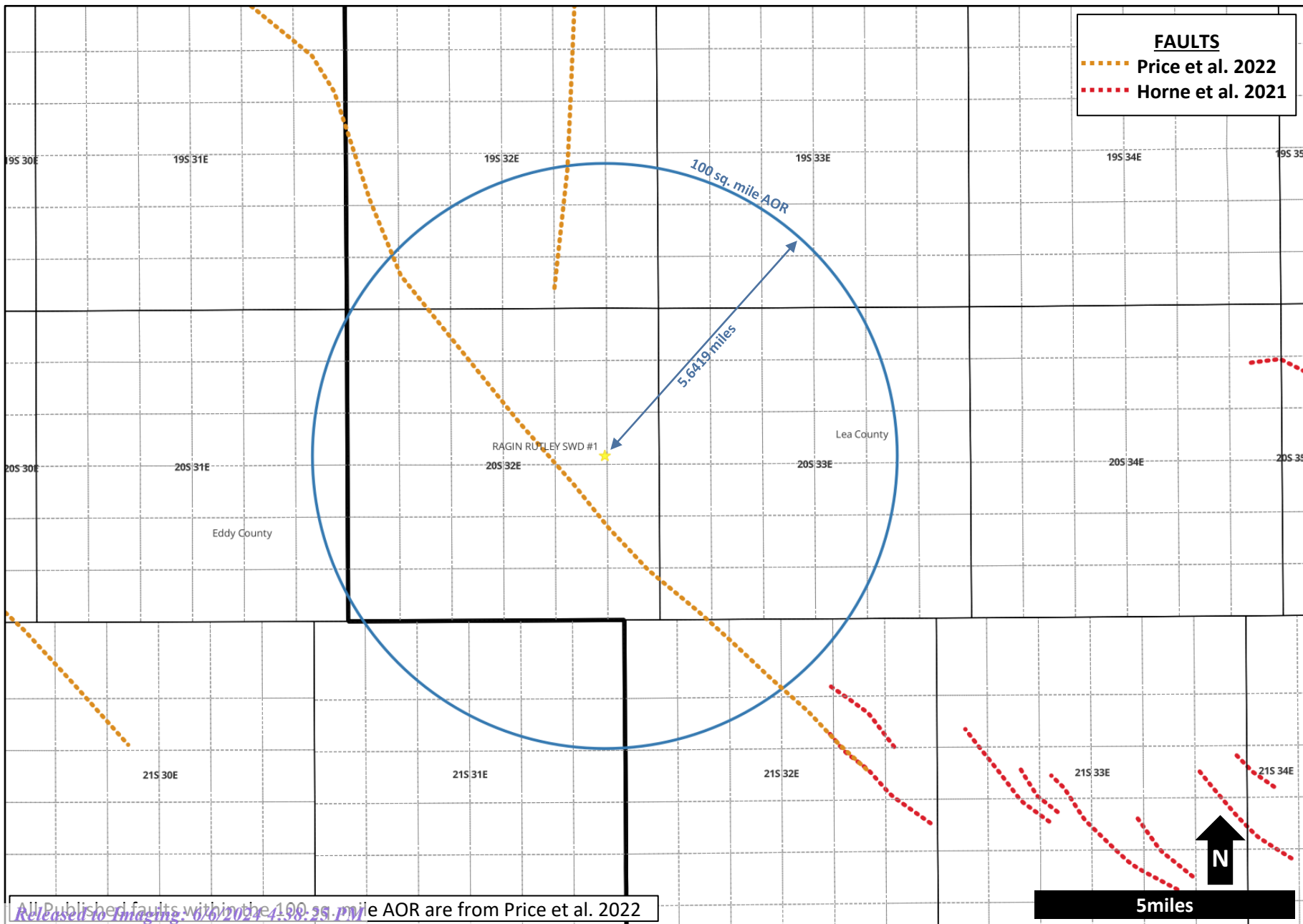
- USGS Quaternary Fault and fold database also consulted, no faults shown within the A

Shapefiles:

<https://dataverse.tdl.org/dataset.xhtml?persistentId=doi:10.18738/T8/UHOUX8>

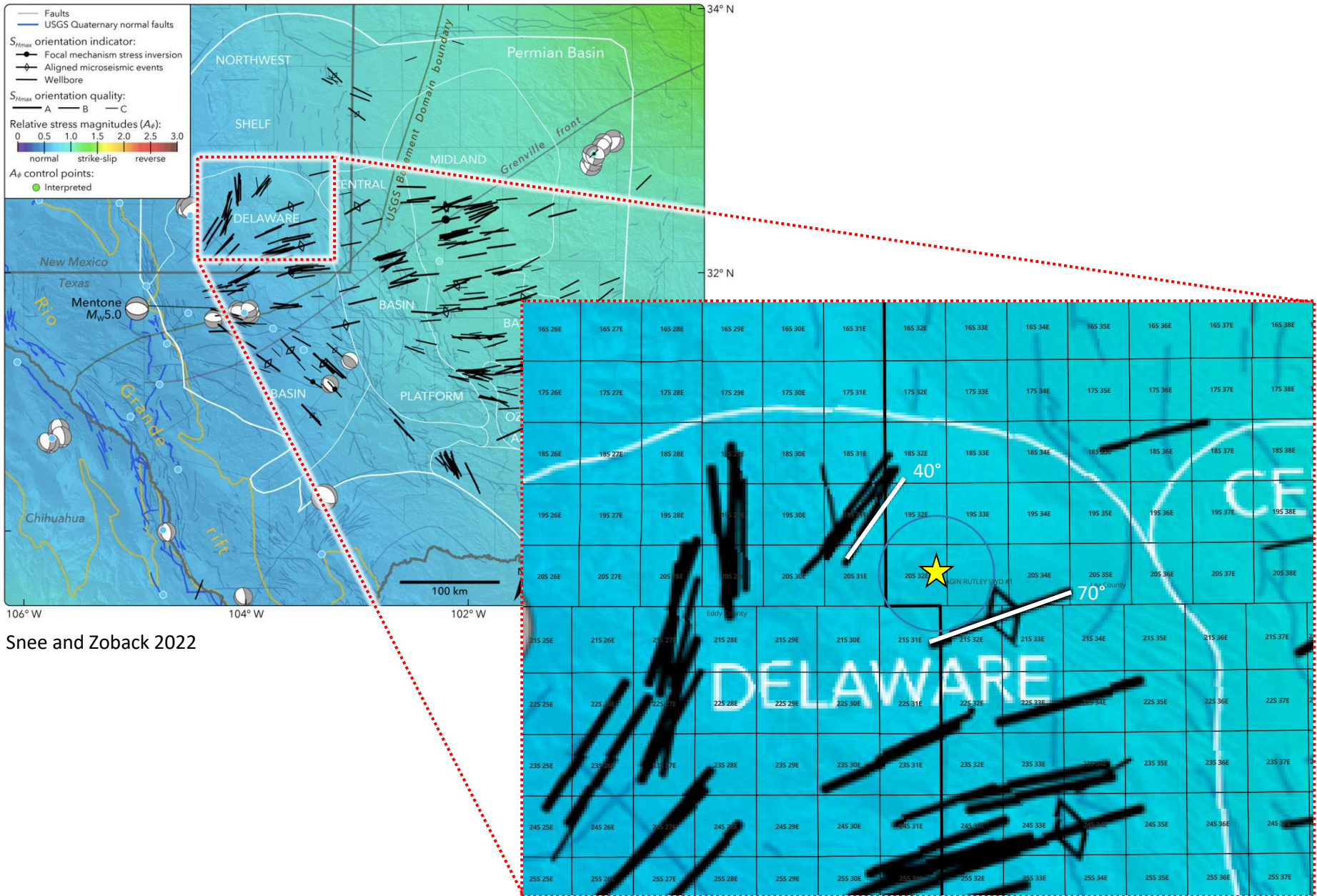


Faults - Combined



Released to Imaging: 6/6/2024 4:08:35 PM

S_{Hmax} Direction ~ 55° ; A_φ ~ 0.55 (Normal Faulting Regime)

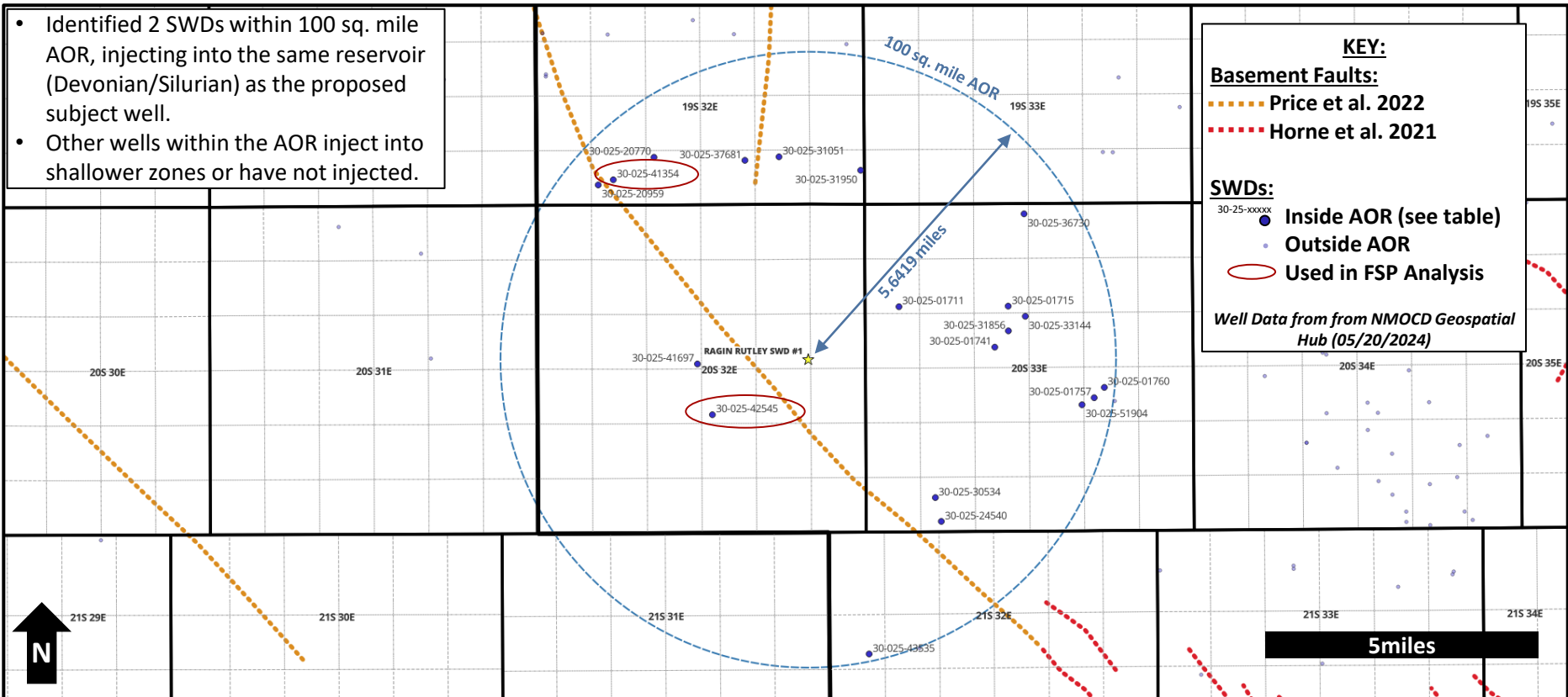


Snee and Zoback 2022

Offset SWD Search



- Identified 2 SWDs within 100 sq. mile AOR, injecting into the same reservoir (Devonian/Silurian) as the proposed subject well.
- Other wells within the AOR inject into shallower zones or have not injected.



KEY:

Basement Faults:

- Price et al. 2022
- Horne et al. 2021

SWDs:

- 30-25-xxxxx Inside AOR (see table)
- Outside AOR
- Used in FSP Analysis

Well Data from from NMOCD Geospatial Hub (05/20/2024)

API	WELL NAME	STATUS	MD (ft)	TVD (ft)	POOL ID	Last Prod.	Plug Date
30-025-01711	BROOKS FEDERAL #003	Plugged (site released)	3025	3025	[53580] SALT LAKE, YATES; [96090] SWD, YATES	7/1/2017	10/5/2018
30-025-01715	ARC FEDERAL #001	Plugged (site released)	3300	3300	[96121] SWD, SAN ANDRES	n/a	2/12/1975
30-025-01741	STATE BF #002	Plugged (site released)	3225	3225	[59110] TEAS, YATES-SEVEN RIVERS, WEST; [96090] SWD, YATES	3/1/1997	5/6/1997
30-025-01757	PERRY FEDERAL #001	Plugged (site released)	3449	3449	[96090] SWD, YATES	5/1/2001	8/28/2002
30-025-01760	CHARLES S LOOMIS A FEDERAL #001	Plugged (site released)	3416	3416	[59090] TEAS, YATES-SEVEN RIVERS	6/1/2019	8/8/2019
30-025-20770	PLAINS UNIT FEDERAL #007	Plugged (site released)	11589	11589	[41500] LUSK, DELAWARE	6/1/2010	9/16/2013
30-025-20959	NEW MEXICO CR STATE #003	Plugged (site released)	11500	11500	[41589] LUSK, STRAWN; [96100] SWD, DELAWARE; [96113] SWD, PENN	9/1/2015	8/25/2017
30-025-24540	CLEARY STATE #001	Active	13860	13860	[96100] SWD, DELAWARE	2/1/2024	n/a
30-025-30534	HAT MESA STATE #010	Active	13900	13900	[96100] SWD, DELAWARE	10/1/2023	n/a
30-025-31051	LUSK #004	Plugged (site released)	7814	7814	[96100] SWD, DELAWARE	3/1/2001	11/15/2001
30-025-31856	WEST TEAS YATES SEVEN RIVERS UNIT #600	Plugged (site released)	13860	13860	[96037] WILDCAT, GROUP 6; [96041] WILDCAT, GROUP 10; [96100] SWD, DELAWARE; [96399] TEAS, BONE SPRING, WEST	6/1/2008	9/26/2008
30-025-31950	STATE HH DELAWARE #012	Plugged (site released)	7911	7911	[27400] GERONIMO, DELAWARE; [96100] SWD, DELAWARE	3/1/2000	12/15/2016
30-025-33144	WEST TEAS YATES SEVEN RIVERS UNIT #641	Plugged (site released)	3470	3470	[59110] TEAS, YATES-SEVEN RIVERS, WEST	6/1/2007	12/12/2008
30-025-36730	SMITH 4 FEDERAL #002	Active	3505	3505	[59110] TEAS, YATES-SEVEN RIVERS, WEST; [96090] SWD, YATES	1/1/2024	n/a
30-025-37681	SOUTHEAST LUSK 34 FEDERAL #006	Active	8030	8030	[41460] LUSK, BONE SPRING, SOUTH; [96100] SWD, DELAWARE	3/1/2024	n/a
30-025-41354	MAGNUM PRONTO 32 STATE SWD #001	Active	14812	14812	[97775] SWD, DEV-FUS-MON-SIMP-ELL	3/1/2024	n/a
30-025-41697	LAGUNA 16 STATE SWD #008C	Cancelled	0	0	[96101] SWD, DEVONIAN	n/a	n/a
30-025-42545	HALFWAY SWD FEDERAL #001	Active	16009	16009	[96101] SWD, DEVONIAN	4/1/2024	n/a
30-025-43535	OKERLUND SWD #001	Cancelled	0	0	[96101] SWD, DEVONIAN	n/a	n/a
30-025-51904	COOMBES SWD #001	New	0	0	[97869] SWD, DEVONIAN-SILURIAN	n/a	n/a

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

Fault Selector:

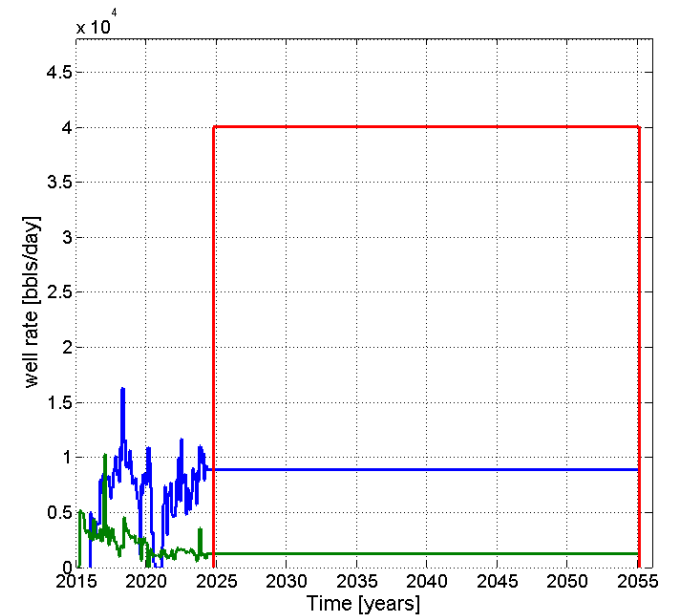
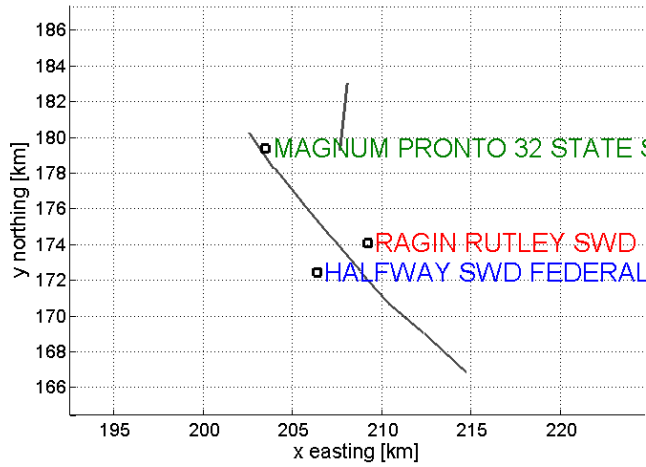
- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Calculate

Stress Regime: Normal Faulting

Select Well:

All





Inputs – Menu Screenshots

Stress

Use A-Phi Model

Vertical Stress Gradient [psi/ft]

A-Phi Parameter

Min Horiz Stress Grad Available [psi/ft]

Max Hor Stress Direction [deg N CW]

Initial Res. Pressure Gradient [psi/ft]

Reference Depth for Calculations [ft]

Stress Sensitivities

A-Phi stress model is being used

Vertical Stress Grad [1.05 psi/ft]

Initial PP Grad [0.44 psi/ft]

Strike Angles [varying, degrees]

Dip Angles [80 degrees]

Max Horiz. Stress Dir [55 degrees]

Friction Coeff Mu [0.58]

A Phi Parameter [0.55]

Advanced

Min x [km]

Max x [km]

Min y [km]

Max y [km]

Density [kg/m³]

Dynamic Viscosity [Pa.s]

Fluid Compressibility [Pa⁻¹]

Rock Compressibility [Pa⁻¹]

Set Random Seed?

Choose Renderer:

Hydrology

Enter Hydrologic Parameters

Load External Hydrologic Model

Aquifer Thickness [ft]

Porosity [%]

Permeability [mD]

Hydrology Sensitives

Probabilistic Hydrology

Deterministic Hydrology

Aquifer Thickness [314 ft]

Porosity [6.8 %]

Perm [15 mD]

fluid density [1100 kg/(m³)]

dynamic viscosity [0.001 Pa.s]

Fluid Compressibility [3.6e-10 Pa⁻¹]

Rock Compressibility [1.08e-09 Pa⁻¹]

Change Computations?

#Hydrologic Iterations=200, change?



Geomechanics (Fault Segments Labeled by Number)

Fault Slip Potential

MODEL INPUTS

GEOMECHANI...

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

Fault Selector:

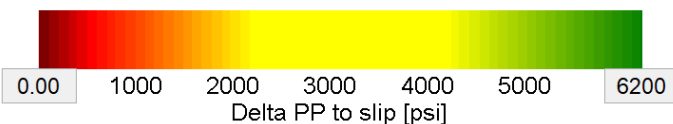
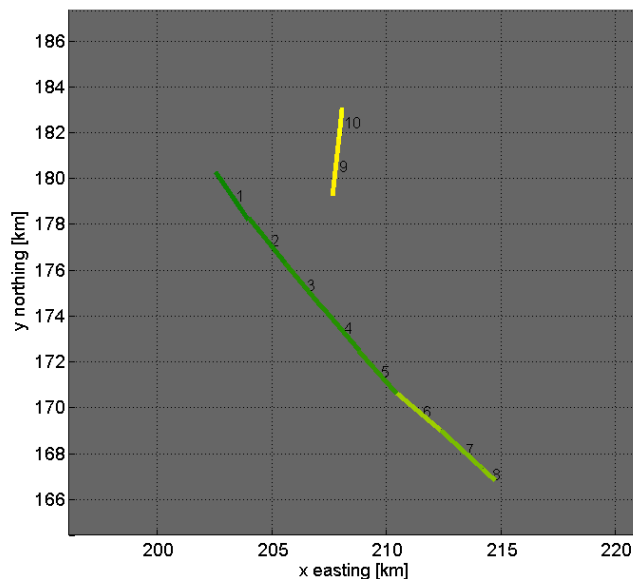
All Faults

- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

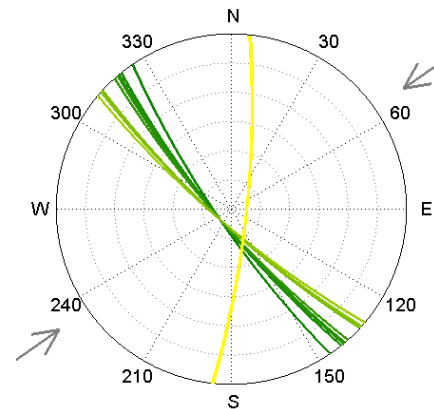
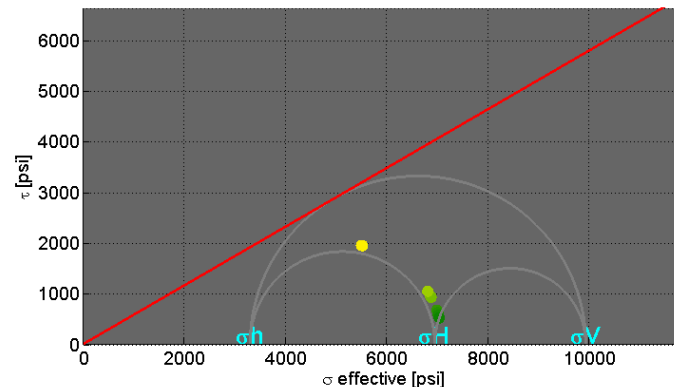
Calculate

a) Fault Number

Help



Stress Regime: Normal Faulting



Stereonet Show: Projected Curves



Geomechanics (Fault Segments Labeled by Pore Pressure to Slip)

Fault Slip Potential

MODEL INPUTS

GEOMECHANI...

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

Fault Selector:

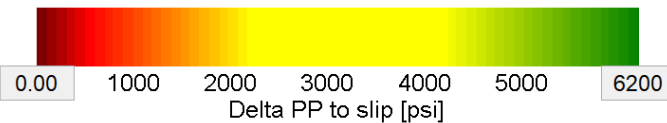
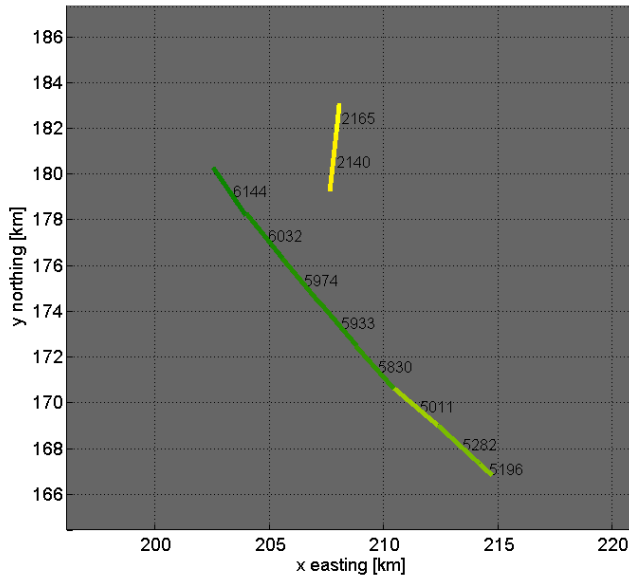
All Faults

- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

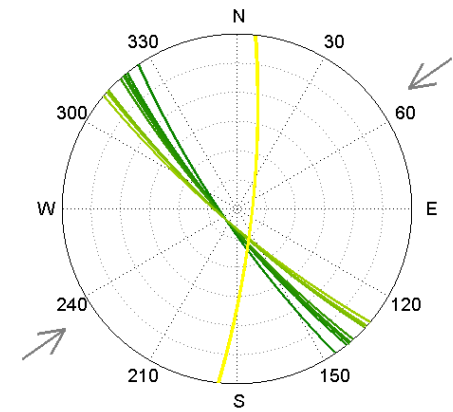
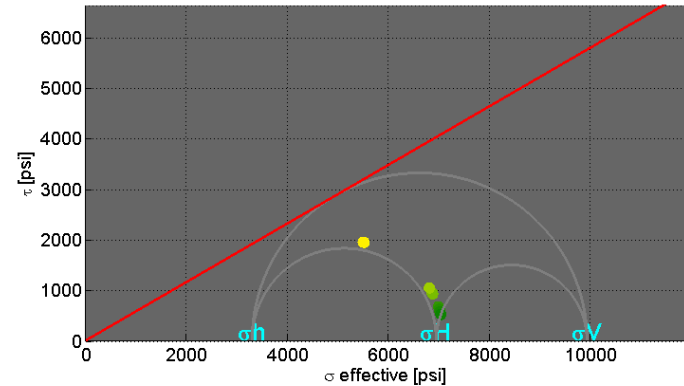
Calculate

d) PPF: Pore Pressure to Slip

Help



Stress Regime: Normal Faulting



Stereonet Show: Projected Curves

Probabilistic Geomechanics – All Faults

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

HYDROLOGY

PROB. HYDRO

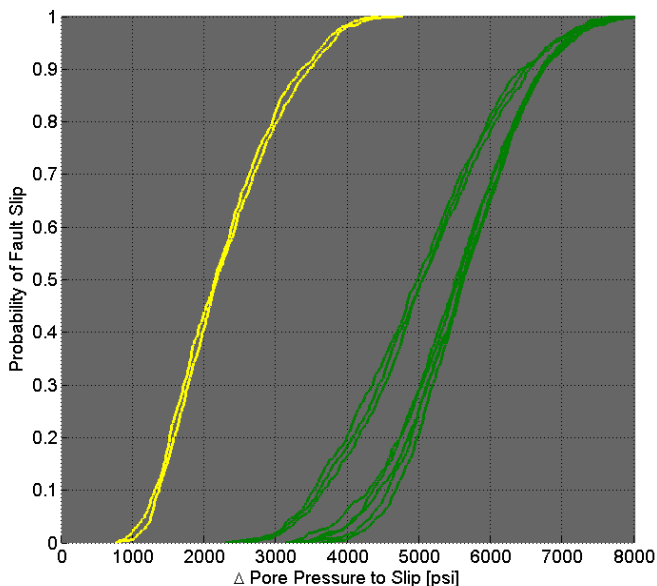
INTEGRATED

Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Load Distributions

Run Analysis



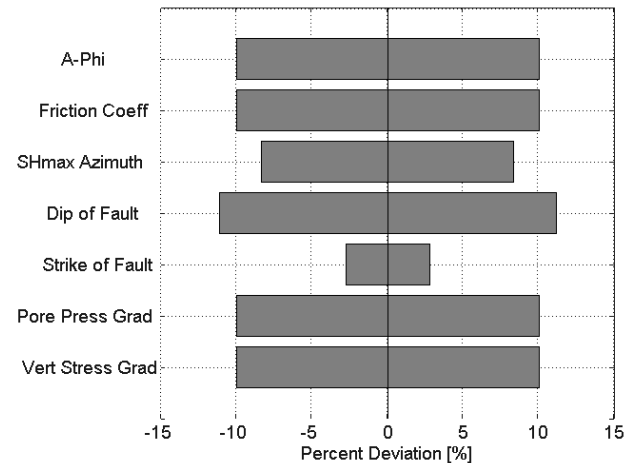
Max Delta PP [psi]: 8000

Calculate

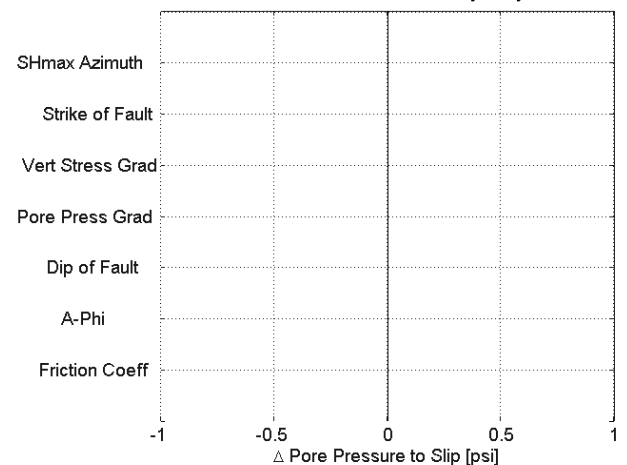
Export CDF data

Show Input Distributions

Variability in Inputs



Choose a fault to see sensitivity analysis



Probabilistic Geomechanics – Fault 9

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

HYDROLOGY

PROB. HYDRO

INTEGRATED

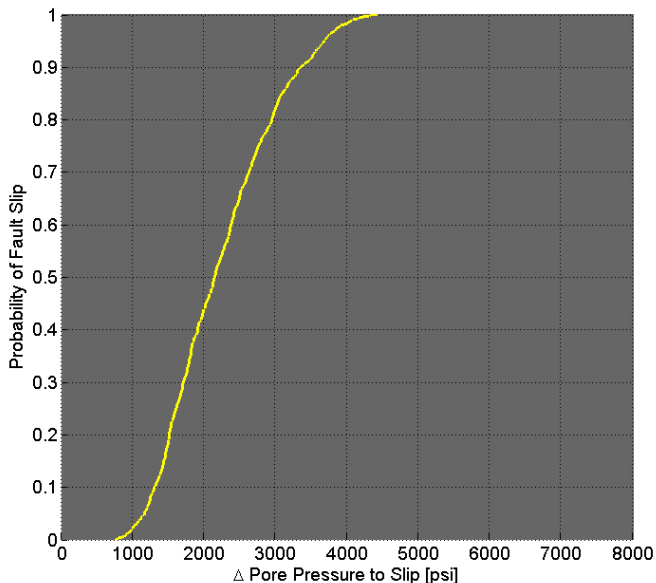
Fault Selector:

All Faults

- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Load Distributions

Run Analysis



Max Delta PP [psi]:

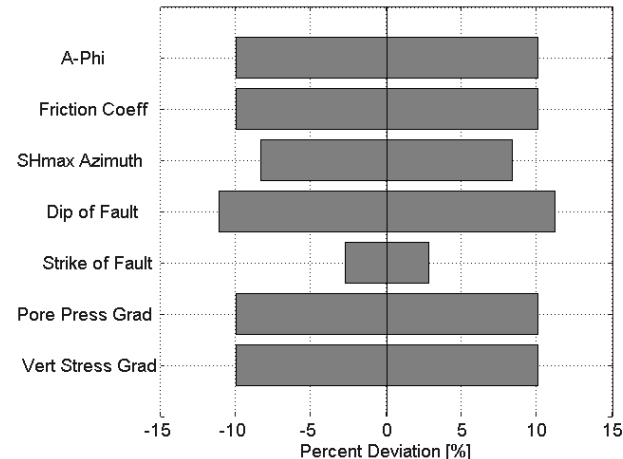
8000

Calculate

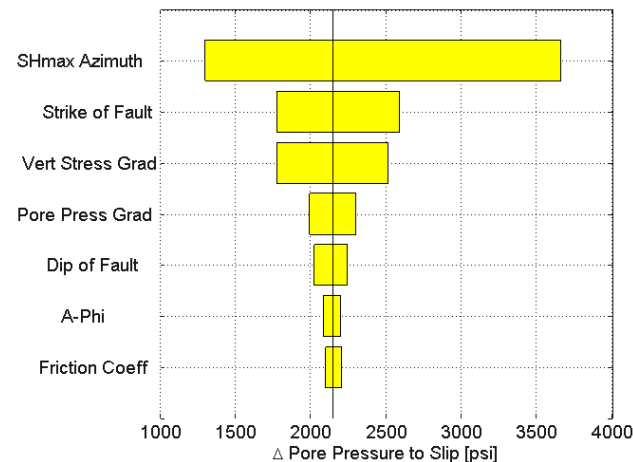
Export CDF data

Show Input Distributions

Variability in Inputs



Sensitivity Analysis for Fault #9



Probabilistic Geomechanics– Fault 10

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

HYDROLOGY

PROB. HYDRO

INTEGRATED

Fault Selector:

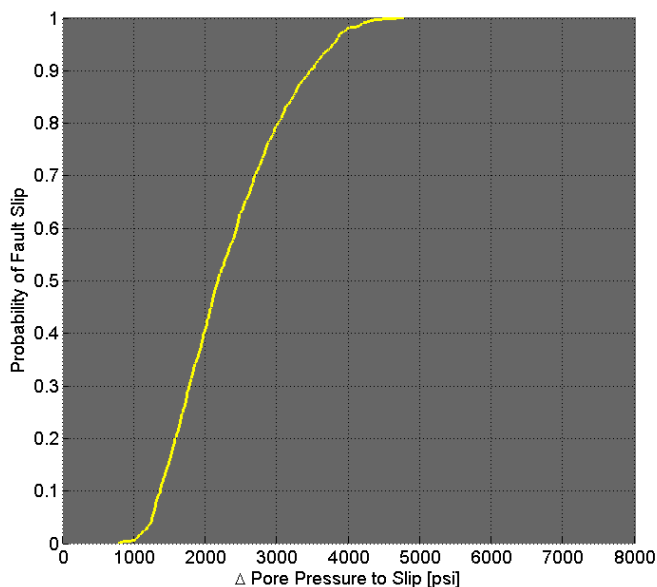
All Faults

- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Calculate

Load Distributions

Run Analysis



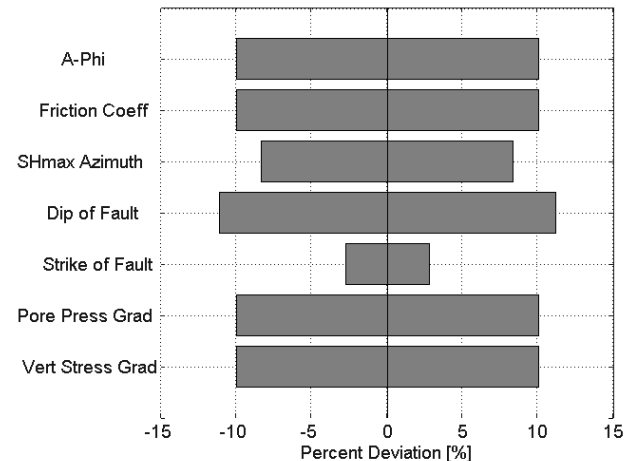
Max Delta PP [psi]:

8000

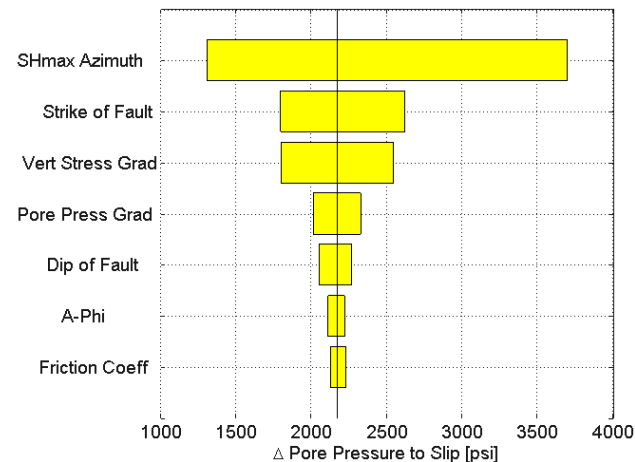
Export CDF data

Show Input Distributions

Variability in Inputs



Sensitivity Analysis for Fault #10



Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

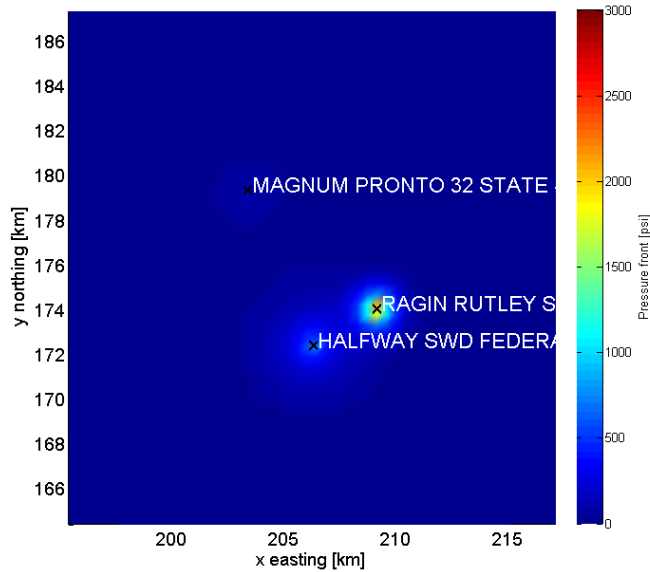
Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Calculate

Max plot DP [psi]:

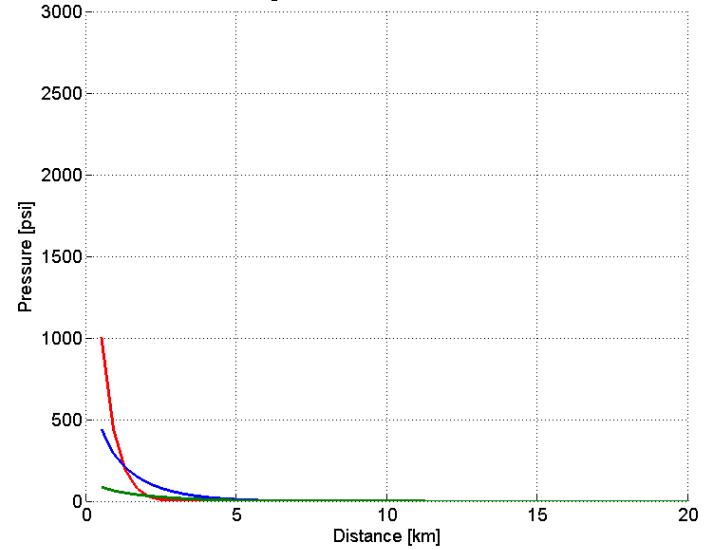
Select Well:



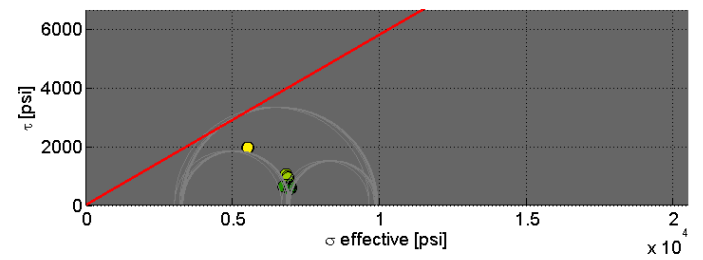
Export Hydrology

Year:

Single Well Radial Solutions



Mohr Circles for All Faults





Year 1 Probabilistic Hydrology (2026)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

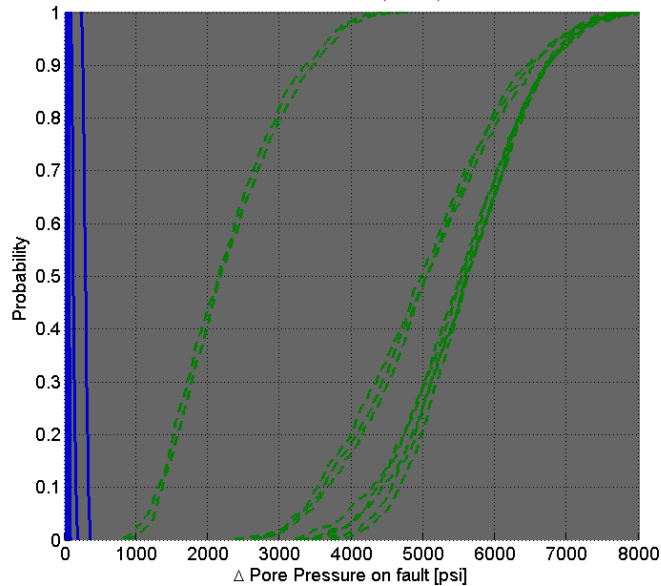
Fault Selector:

- All Faults
- Fault #1, 0.00 FSP
- Fault #2, 0.00 FSP
- Fault #3, 0.00 FSP
- Fault #4, 0.00 FSP
- Fault #5, 0.00 FSP
- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Load Distributions

Run Analysis

Probability of Pressure Exceedance on Fault, Jan 1, 2026



Max Delta PP [psi]:

8000

Calculate

Year:

2026

Export Blue Curves

Show Input Distributions



Year 1 Fault Slip Probability (2026)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

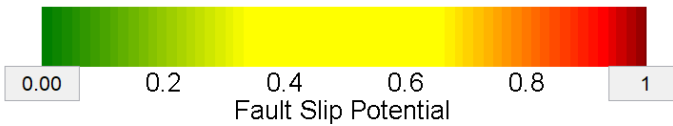
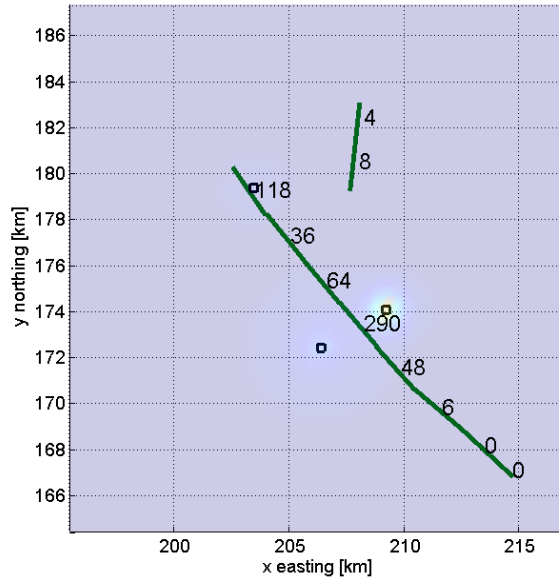
Fault Selector:

- All Faults
- Fault #1, 0.00 FSP
- Fault #2, 0.00 FSP
- Fault #3, 0.00 FSP
- Fault #4, 0.00 FSP
- Fault #5, 0.00 FSP
- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

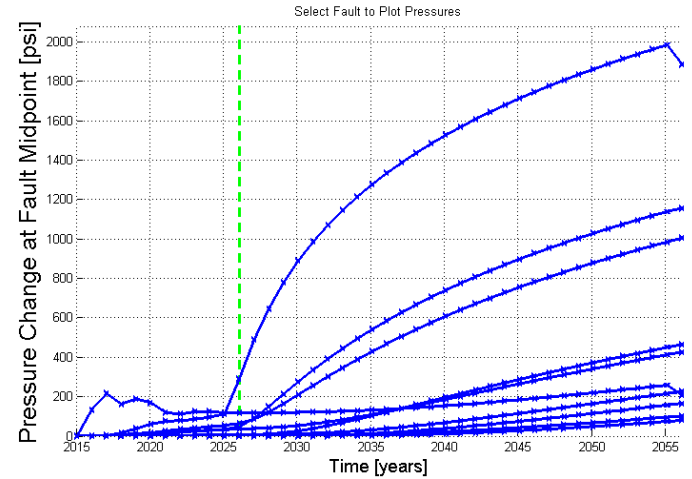
b) PP Change at fault [psi]

Summary Plots

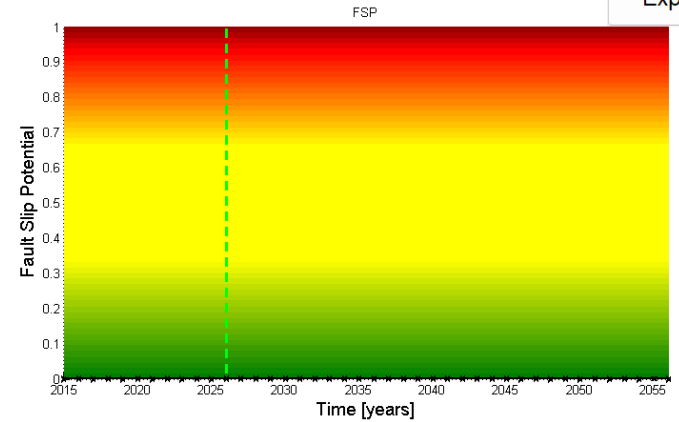


Year: 2026

Export



Export



Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

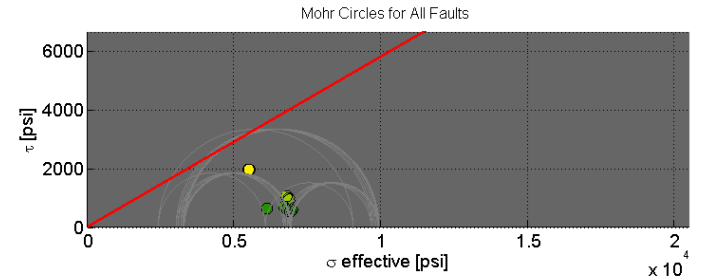
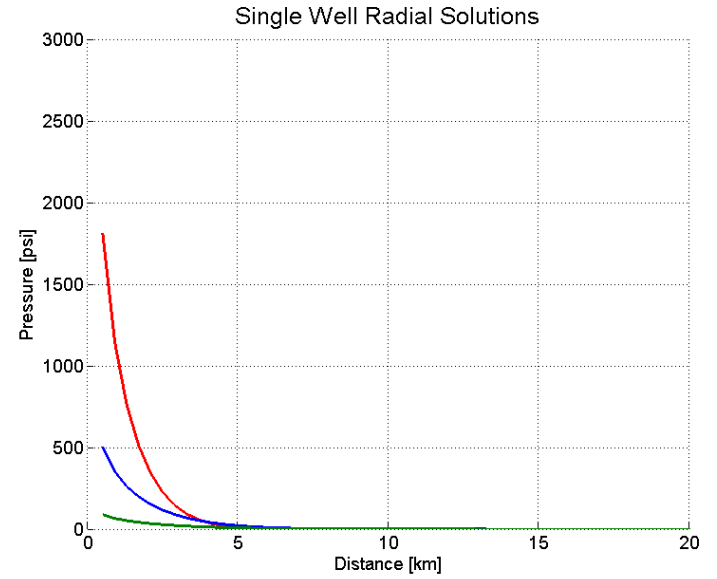
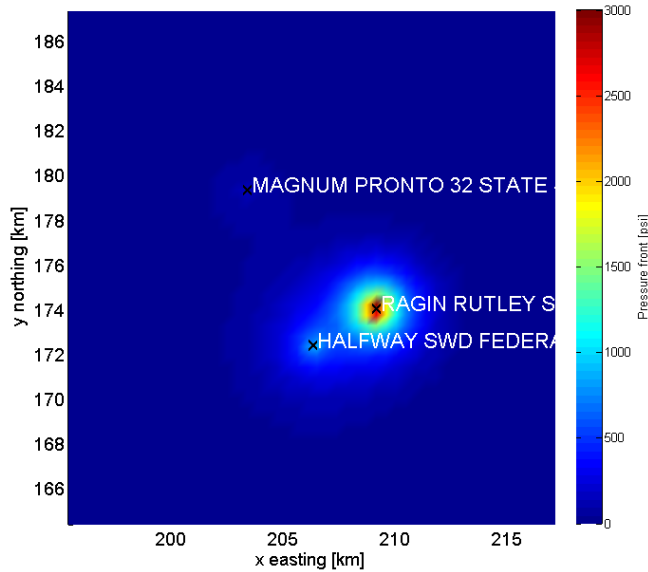
INTEGRATED

Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Max plot DP [psi]:

Select Well:



Year:



Year 5 Probabilistic Hydrology (2030)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

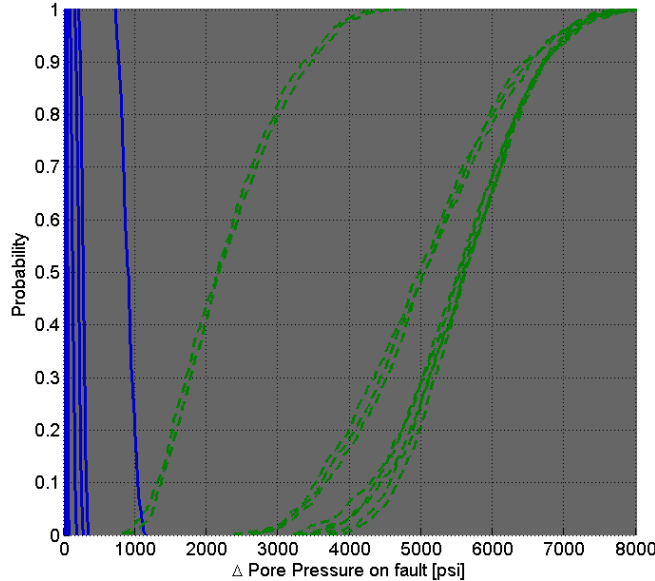
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- Fault #4, 0.00 FSP
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- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Load Distributions

Run Analysis

Probability of Pressure Exceedance on Fault, Jan 1, 2030



Max Delta PP [psi]:

8000

Calculate

Year:

2030

Export Blue Curves

Show Input Distributions



Year 5 Fault Slip Probability (2030)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

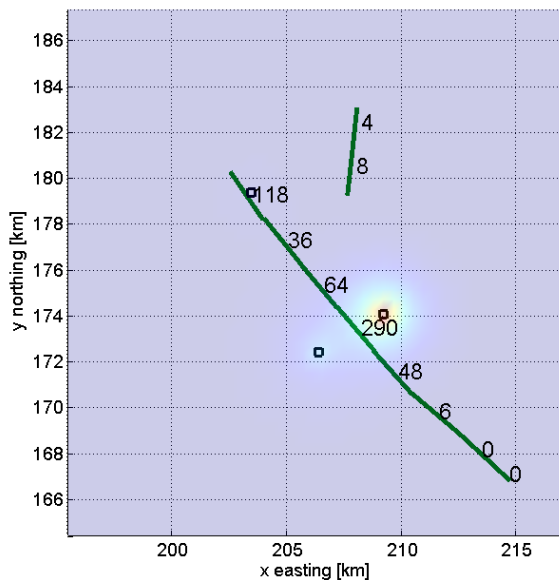
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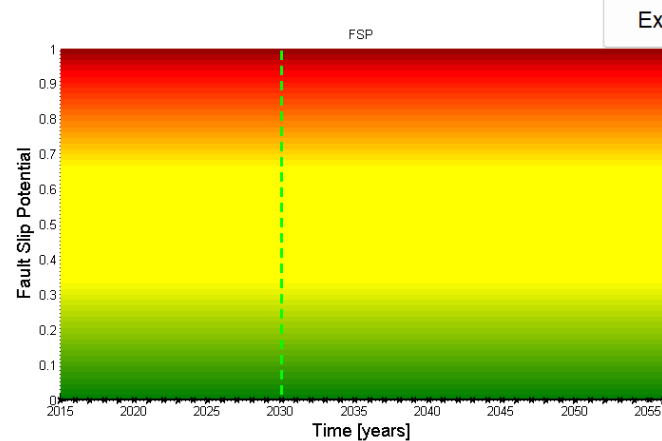
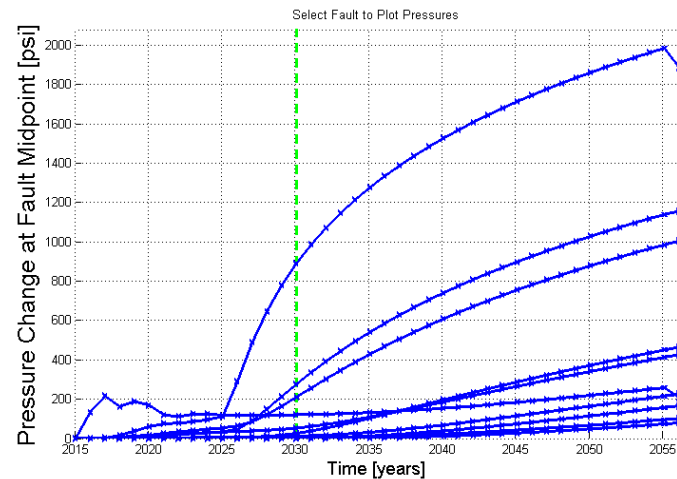
b) PP Change at fault [psi]

Summary Plots



Calculate

Year: 2030



Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

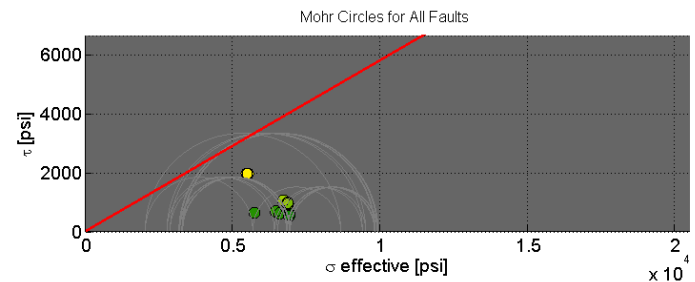
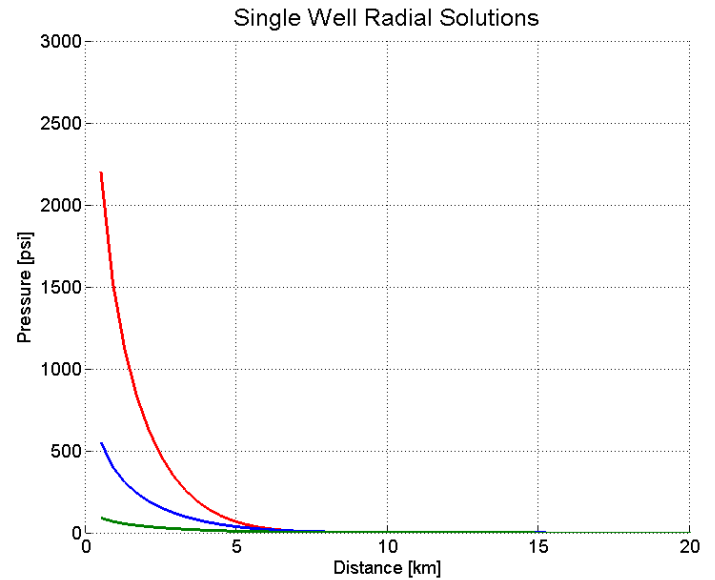
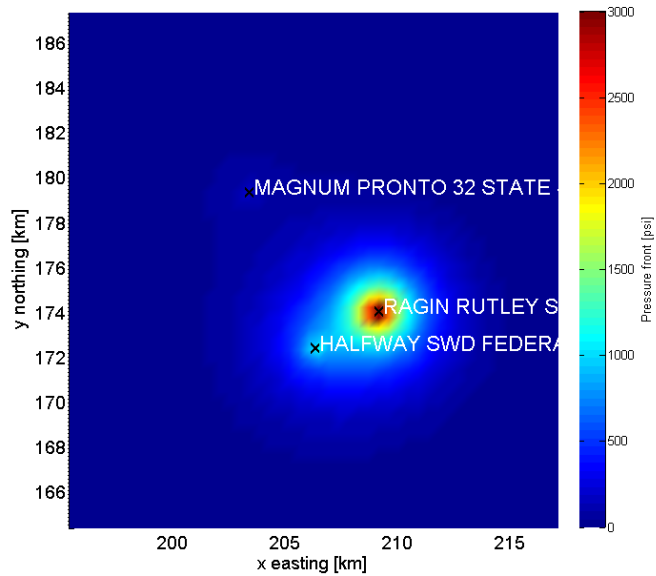
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- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Max plot DP [psi]:

Select Well:



Export Hydrology

Year:

Calculate



Year 10 Probabilistic Hydrology (2035)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

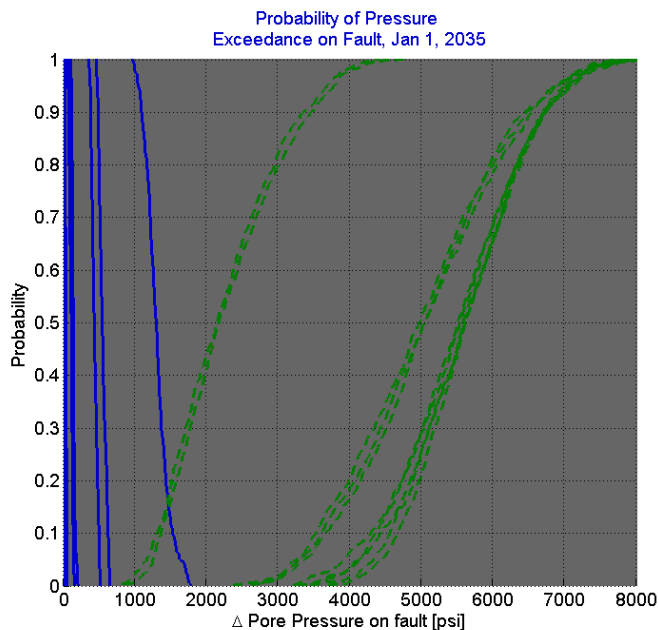
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- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

Load Distributions

Run Analysis



Max Delta PP [psi]: 8000

Year: 2035

Export Blue Curves

Show Input Distributions



Year 10 Fault Slip Probability (2035)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

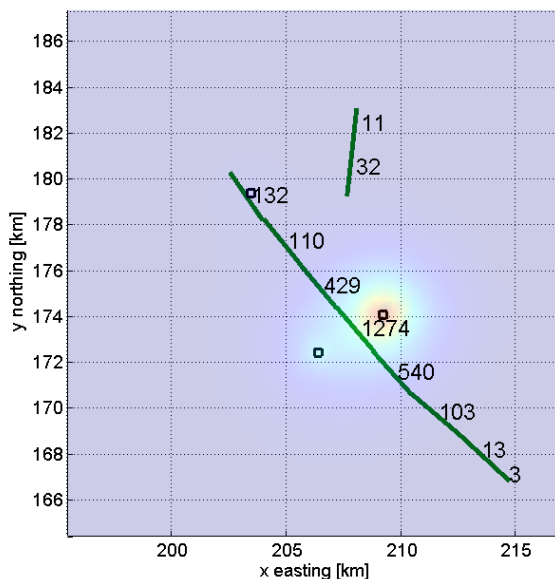
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- Fault #10, 0.00 FSP

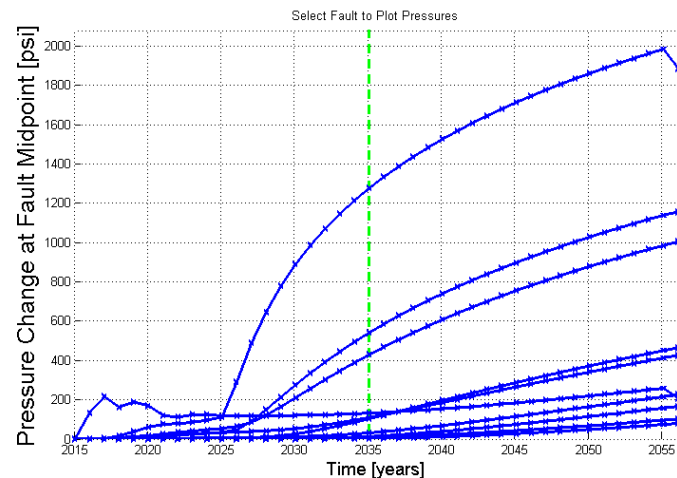
b) PP Change at fault [psi]

Summary Plots

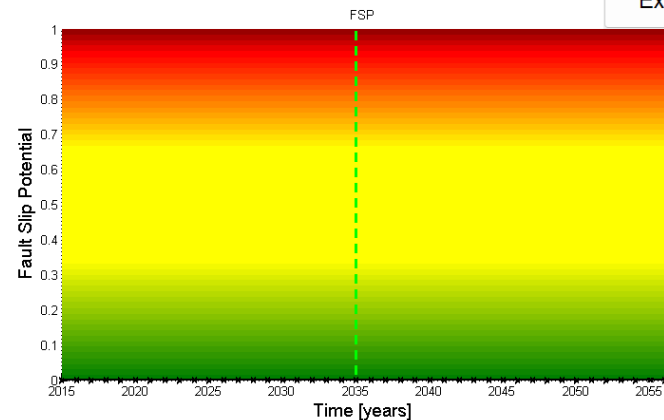


Calculate

Year: 2035



Export



Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

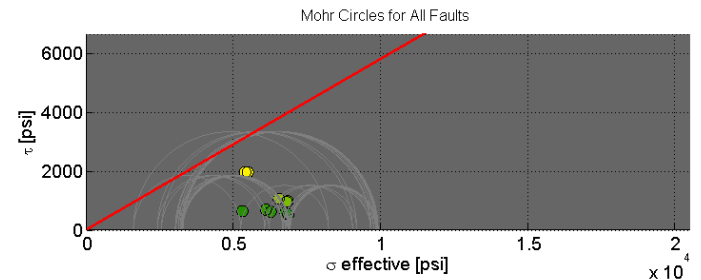
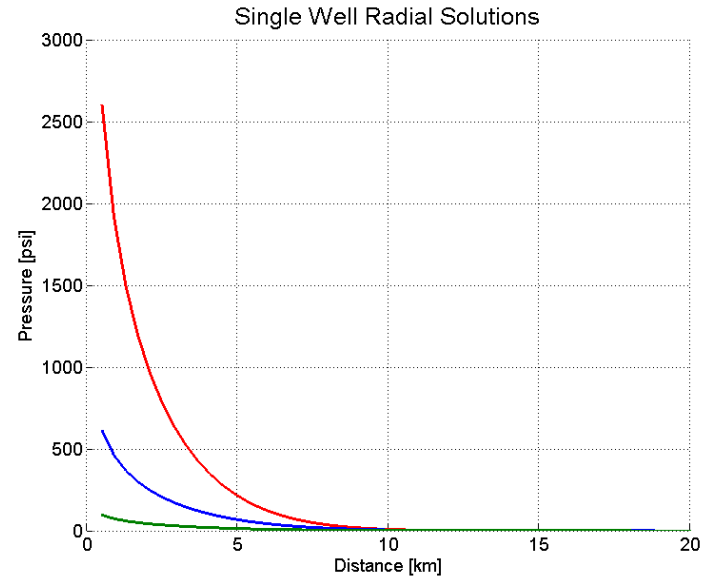
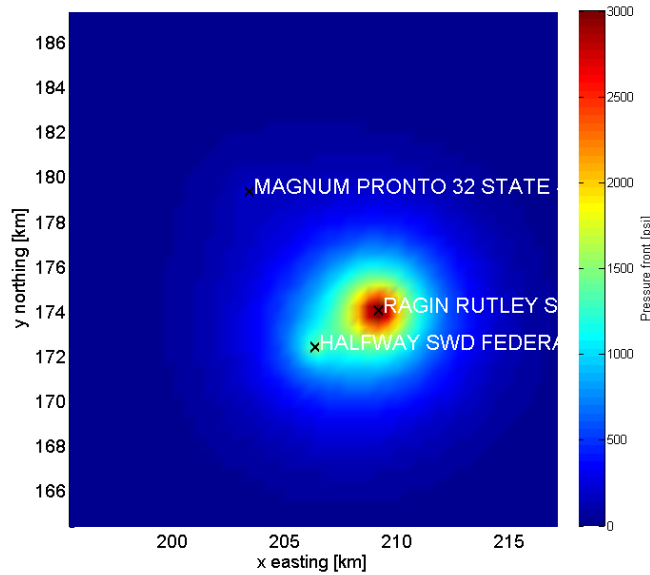
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Fault Selector:

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- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Max plot DP [psi]:

Select Well:



Export Hydrology

Calculate

Year:



Year 10 Probabilistic Hydrology (2045)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

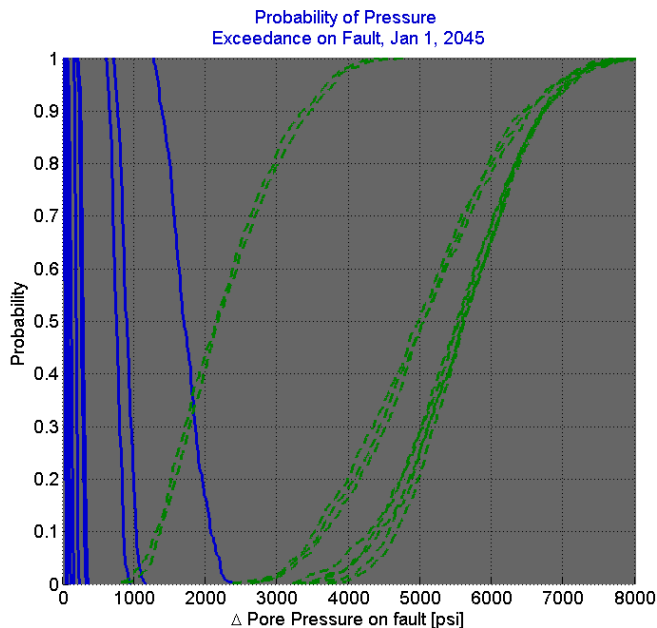
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- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

Load Distributions

Run Analysis



Max Delta PP [psi]: 8000

Year: 2045

Export Blue Curves

Show Input Distributions



Year 10 Fault Slip Probability (2045)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

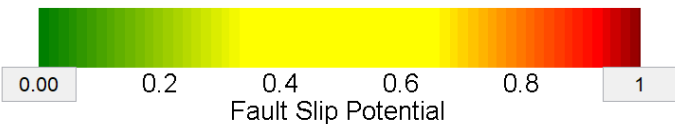
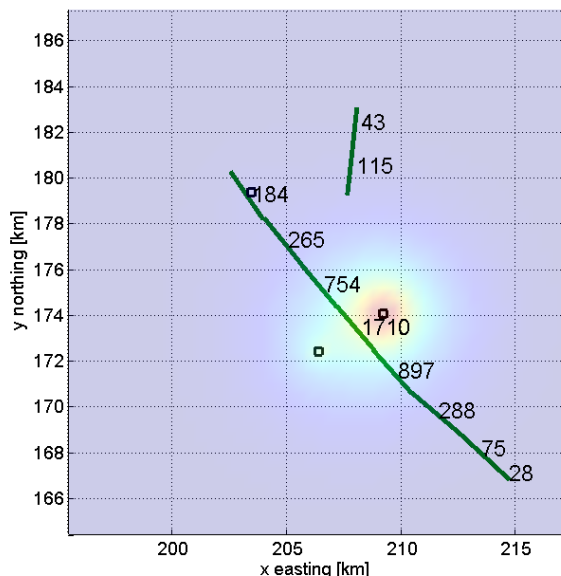
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- Fault #6, 0.00 FSP
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- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

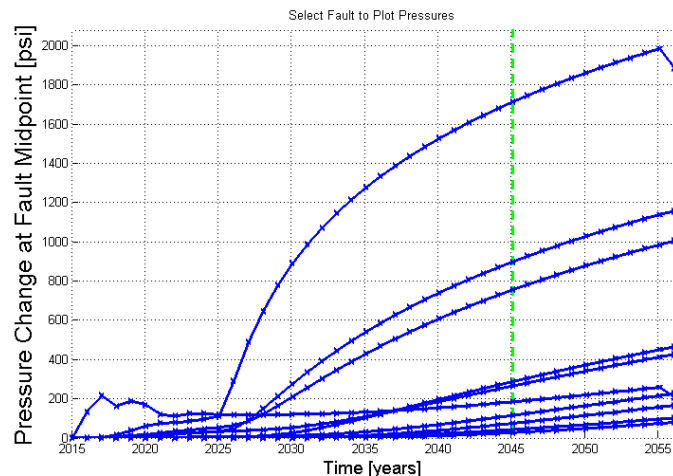
b) PP Change at fault [psi]

Summary Plots

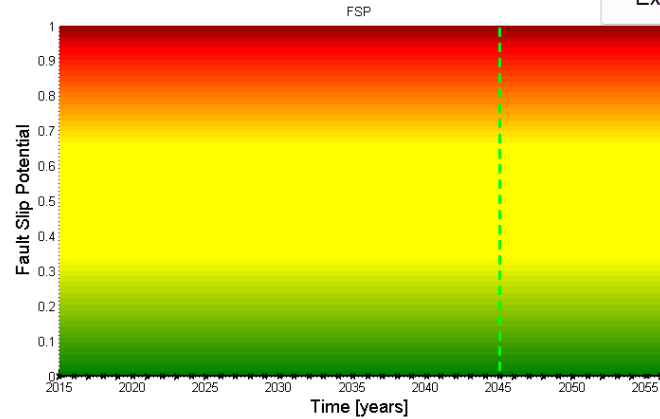


Year: 2045

Export



Export



Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

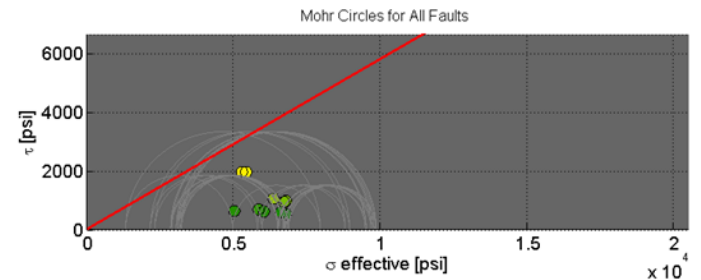
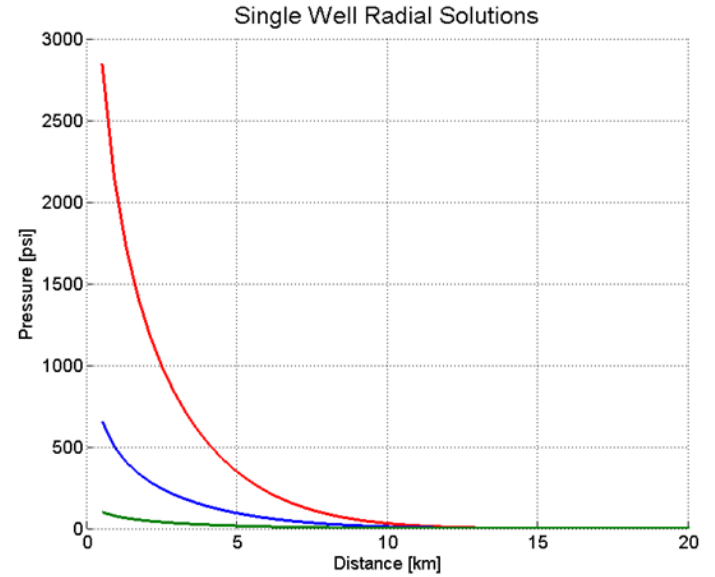
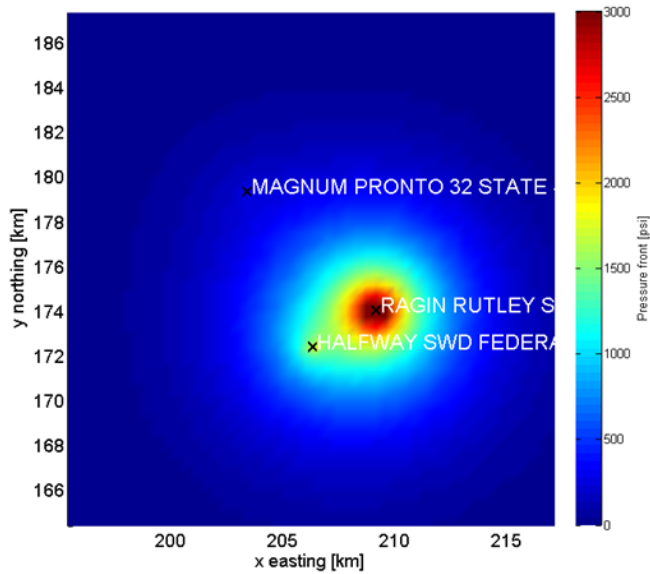
INTEGRATED

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- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10

Max plot DP [psi]:

Select Well:



Year:



Year 30 Probabilistic Hydrology (2055)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

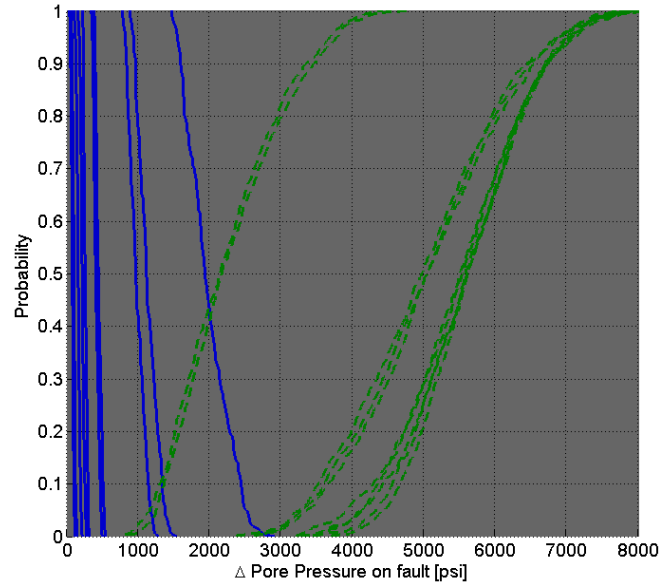
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- Fault #4, 0.00 FSP
- Fault #5, 0.00 FSP
- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Load Distributions

Run Analysis

Probability of Pressure Exceedance on Fault, Jan 1, 2055



Max Delta PP [psi]:

8000

Calculate

Year:

2055

Export Blue Curves

Show Input Distributions



Year 30 Fault Slip Probability (2045)

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

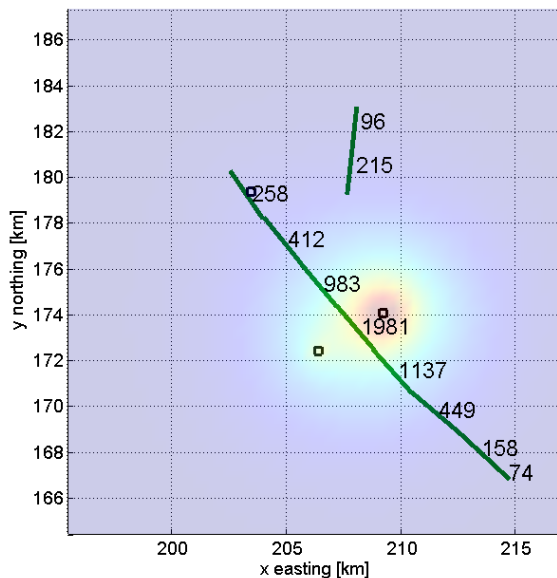
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- Fault #6, 0.00 FSP
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- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

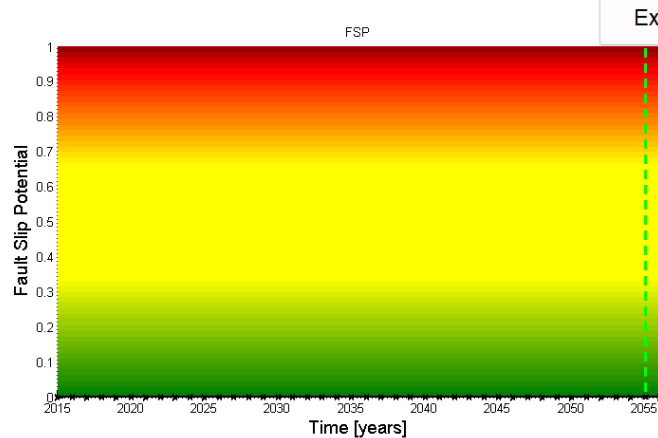
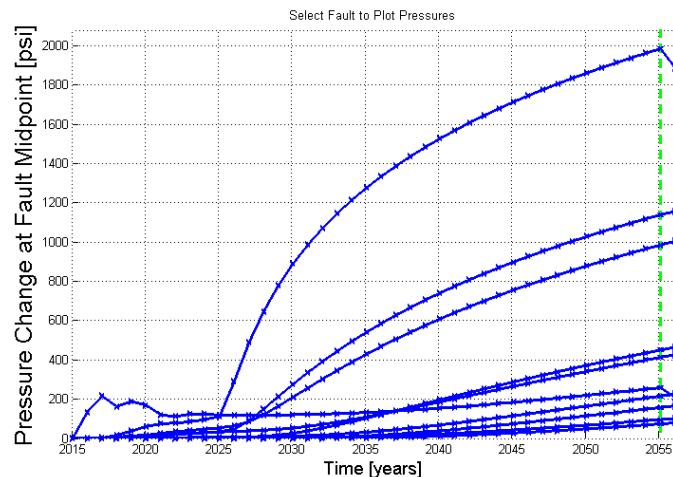
b) PP Change at fault [psi]

Summary Plots



Calculate

Year: 2055



Export



Year 30 Probabilistic Hydrology (2055) – Fault 9

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

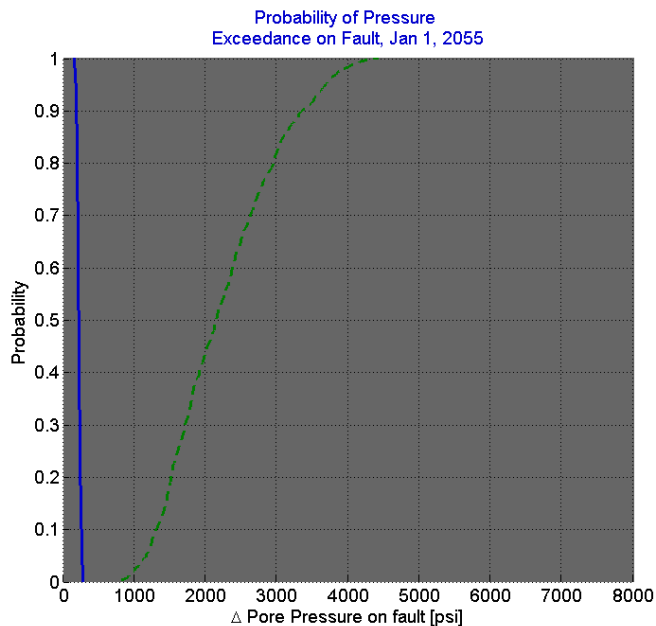
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- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

Load Distributions

Run Analysis



Max Delta PP [psi]: 8000

Year: 2055

Export Blue Curves

Show Input Distributions



Year 30 Probabilistic Hydrology (2055) – Fault 10

Fault Slip Potential

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

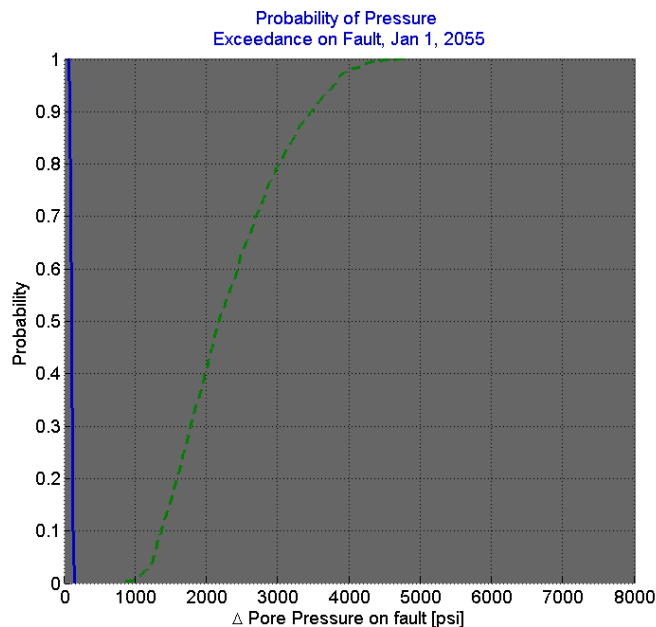
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- Fault #5, 0.00 FSP
- Fault #6, 0.00 FSP
- Fault #7, 0.00 FSP
- Fault #8, 0.00 FSP
- Fault #9, 0.00 FSP
- Fault #10, 0.00 FSP

Calculate

Load Distributions

Run Analysis



Max Delta PP [psi]: 8000

Year: 2055



Export Blue Curves

Show Input Distributions



Horne, E.A., Hennings, P.H., Zahm, C.K., 2021. Basement-rooted Faults of the Delaware Basin and Central Basin Platform, Permian Basin, West Texas and Southeastern New Mexico. Report of Investigations/Report of Investigations - University of Texas at Austin. Bureau of Economic Geology.

<https://doi.org/10.23867/ri0286c6>

Price, B.J., Janson, X., Kerans, C., 2022. Controls on Mixed Carbonate-siliciclastic Slope Morphology, Early Permian, Northern Delaware Basin, U.S.A. Marine and Petroleum Geology 143, 105773. <https://doi.org/10.1016/j.marpetgeo.2022.105773>

Snee, J.-E.L., Zoback, M.D., 2022. State of stress in areas of active unconventional oil and gas development in North America. AAPG Bulletin 106, 355–385. <https://doi.org/10.1306/08102120151>

U.S. Geological Survey, 2020, Quaternary Fault and Fold Database for the Nation at <https://doi.org/10.5066/P9BCVRCK>

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. 24380

SELF-AFFIRMED STATEMENT OF JASON RUBIN

1. I am employed by Solaris Water Midstream, LLC as the Director of Engineering. I am over 18 years of age, have personal knowledge of the matters addressed herein, and am competent to provide this Self-Affirmed Statement. A copy of my resume is attached as **Exhibit C-1**.
2. I am familiar with Solaris' application in this case.
3. Solaris seeks authorization to inject produced water into the Devonian; Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) for the purposes of disposal through its Ragin Rutley No. 1 well ("Well").
4. Solaris proposes to inject an average of 30,000 barrels of water per day and a maximum of 40,000 barrels of water per day.
5. Solaris requests that the Division approve a maximum injection pressure of 2,892 psi.
6. Well data and operational information for the Well is provided in the C-108 at pages 6-13 of Exhibit A-1.
7. A wellbore schematic with corrected numbering is attached as **Exhibit C-2**.

8. Solaris will perform a baseline injectivity test to determine whether acidizing the well would increase injectivity. If results from the injectivity test determine that stimulation of the well is necessary, Solaris proposes acidizing the injection well with 50,000 gallons of 15% HCl with diverting material which would provide adequate coverage for the open hole completion. Based on my professional training and experience, it is my professional opinion that acidizing the open hole can break down any build up in the near wellbore region due to mud filtrate invasion, reducing injection pressures and maximizing injection rates.

9. Solaris is proposing a four-string casing for the Well with the surface and intermediate strings being cemented to surface and the liner being cemented to the liner top, with excess cement being circulated to surface. The surface string should isolate any known freshwater zones. The first intermediate string will isolate the salt section, and the second intermediate string will isolate the Artesia Group reservoirs and Capitan Reef above the Delaware Mountain Group. The fourth string set at 10,825' will isolate the lower pressure reservoirs of the Delaware Mountain Group and Bone Springs Formation. The fifth string, which is a liner, will be set to the top of the Devonian at approximately 10,625' to 14,463'. The fourth string referred to as the production string in the WBD will isolate the unconventional Wolfcamp shale reservoirs, as well as the conventional reservoirs of the Pennsylvanian and Mississippian (e.g. the Strawn, Morrow, and Atoka).

10. The casing proposed by Solaris for each depth is consistent with industry standards and is consistent with casings that Solaris has used in other Devonian disposal wells. It is also consistent with what I understand other operators to be proposing for similar high volume SWDs, with similar tubing sizes. In my opinion, the casing is designed to and will protect freshwater resources.

11. Solaris also intends to use a 5 ½ inch tubing with premium gas tight connections and IPC liner. It crosses over to a 5 inch tubing with premium gas tight connections as well with the same type of IPC liner. We intend to circulate cement off of the liner top and run a cement bond log to verify bond.

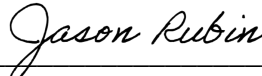
12. Solaris will also employ an Inconel permanent-set packer that will help ensure the isolation of hydrocarbons and fresh water.

13. The Well will be adequately equipped for injection, and the construction of the Well will protect fresh water and other hydrocarbon-bearing zones.

14. The underground freshwater aquifers in this area are present at an average depth of 388’, with the deepest water encountered at a depth of 1,079’. There are no known freshwater intervals underlying the injecting formation. A map that identifies freshwater wells within the area of review is provided at page 28 of Exhibit A-1. An analysis of freshwater samples is provided at pages 29-35 of Exhibit A-1.

15. Based on the above, it is my opinion that the Devonian; Fusselman Formation is appropriate for injection in this area, that the Well will provide needed SWD infrastructure, and that the granting of Solaris’ application would best serve the interests of conservation, the prevention of waste, and the protection of correlative rights.

16. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.



Jason Rubin

6/5/2024
Date

Jason Rubin

Houston, Texas | (210) 332-7380 | Rubin2787@gmail.com | LinkedIn.com/in/jasonrubin2

SUMMARY

Results-driven business professional with 13 years of experience in the energy and waste disposal industries. Extensive background in business development, market strategy, operations support, and project management.

EXPERIENCE

Solaris Water Midstream, LLC

Director of Engineering

Houston, TX

September 2023 – Present

Republic Services

Well Manager

Houston, TX

September 2016 – September 2023

- Partner with the business development team to build proforma models, devise due diligence strategies, and execute remediation programs on subsurface-related acquisition and development projects, resulting in over \$10 million in annual revenue generation.
- Led and managed multiple large scale capital projects with combined annual value over \$20.5 million. Oversee budget, technical specifications, contractors, and internal stakeholders supporting 100% on time in-budget completion.
- Developed and implemented operations-based market and pricing strategy for recent acquisition, increasing the IRR from 4.5% to 8.1% over the life of the project.
- Executed the successful launch of the company’s first onsite disposal wells for landfill leachate, resulting in \$8 million in annual cost savings.
- Spearheaded efforts to design, implement and operate a new state of the art injection well and facility with \$5.4 million dollars in annual revenue impact for the company.
- Design remediation programs, develop procedures, and coordinate with vendors on all well related workovers.

Operations Engineer

RecyClean

Houston, TX

November 2015 – June 2016

- Operated system designed to process and remove TDS, TSS, and other impurities from produced water.

Applications Engineer

Team Oil Tools

Houston, TX

March 2015 – August 2015

- Provided consultation and technical support for application of company products in processes relating to hydraulic fracturing; areas including port (perforation) design, fracture modeling, pump scheduling, sleeve execution and performance evaluation for all cased hole applications.

Apache Corporation

Completions Engineer

Midland, TX

August 2014 – January 2015

- Designed and implemented cost-effective hydraulic fracturing treatments for vertical and horizontal wells in the Permian Basin, utilizing calibrated geomechanical models to optimize hydraulic fracture design.
- Reduced completion costs by \$60,000 per well by modifying treatment design based on formation and chemical compatibility.

Schlumberger

Hydraulic Fracturing Field Engineer

Midland, TX

August 2011 – July 2014

- Executed over 200 hydraulic fracturing treatments in the Permian Basin and Eagle Ford Shale.
- Supervised crew of 10 to 20 people on various types of fracture treatments.

EDUCATION

Texas A&M University, Mays Business School

Master of Business Administration (GPA: 4.0)

Houston, TX

May 2023

University of Oklahoma

Bachelor of Science in Petroleum Engineering

Norman, OK

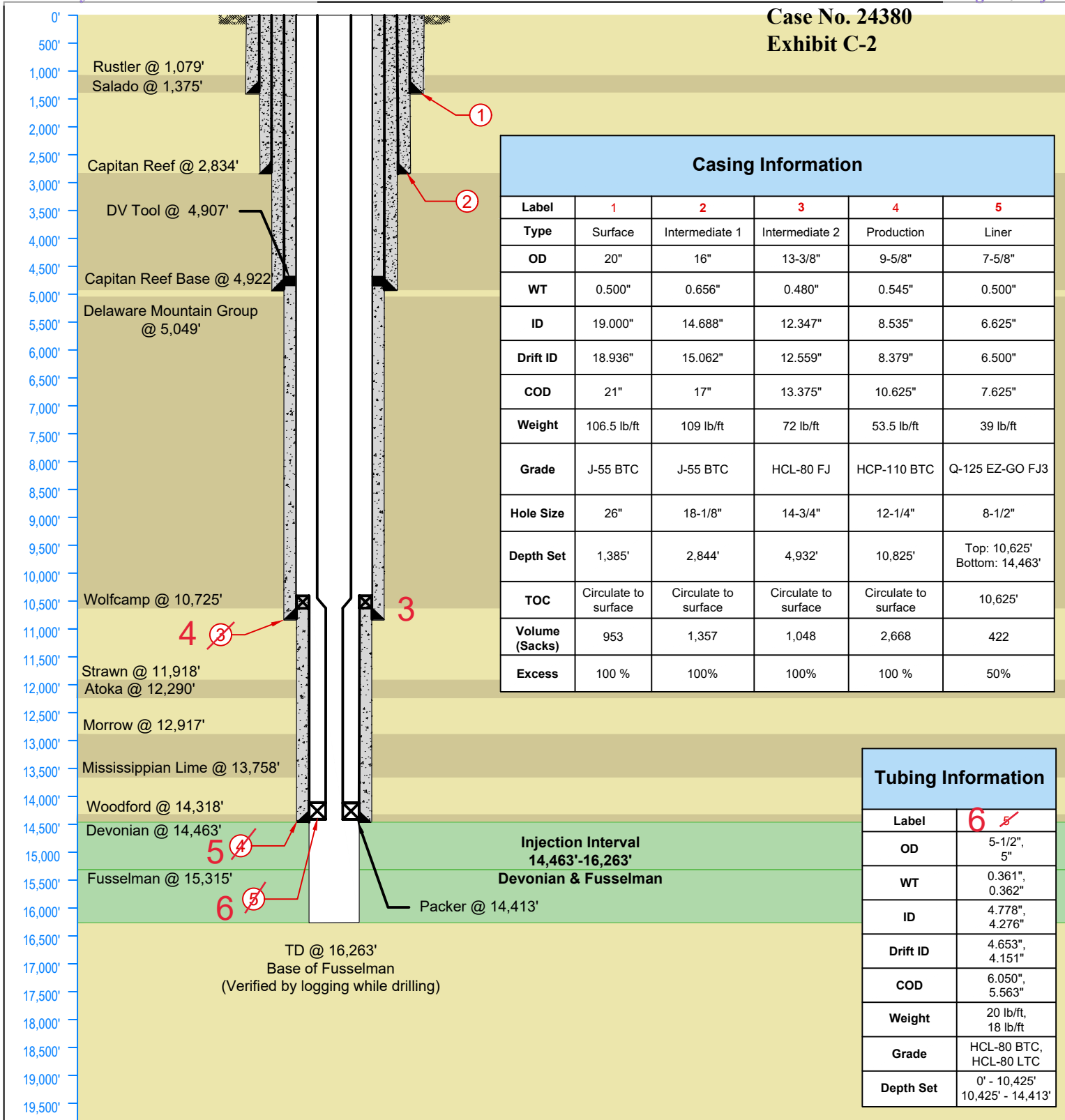
May 2011

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Proficient in Financial Evaluation, Strategic Planning, Regulatory Compliance, and Project Management

Case No. 24380

Exhibit C-2



Casing Information					
Label	1	2	3	4	5
Type	Surface	Intermediate 1	Intermediate 2	Production	Liner
OD	20"	16"	13-3/8"	9-5/8"	7-5/8"
WT	0.500"	0.656"	0.480"	0.545"	0.500"
ID	19.000"	14.688"	12.347"	8.535"	6.625"
Drift ID	18.936"	15.062"	12.559"	8.379"	6.500"
COD	21"	17"	13.375"	10.625"	7.625"
Weight	106.5 lb/ft	109 lb/ft	72 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	J-55 BTC	HCL-80 FJ	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	26"	18-1/8"	14-3/4"	12-1/4"	8-1/2"
Depth Set	1,385'	2,844'	4,932'	10,825'	Top: 10,625' Bottom: 14,463'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	Circulate to surface	10,625'
Volume (Sacks)	953	1,357	1,048	2,668	422
Excess	100 %	100%	100%	100 %	50%

Tubing Information	
Label	6
OD	5-1/2", 5"
WT	0.361", 0.362"
ID	4.778", 4.276"
Drift ID	4.653", 4.151"
COD	6.050", 5.563"
Weight	20 lb/ft, 18 lb/ft
Grade	HCL-80 BTC, HCL-80 LTC
Depth Set	0' - 10,425', 10,425' - 14,413'

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	Solaris Water Midstream, LLC		Ragin' Rutley SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Lea	
	Location:	Site: 857' FSL, 228' FEL	Survey: S14-T20S-R32E	
	API No: NA	Field: Silurian-Devonian (Code: 97869)	Well Type/Status: SWD	
	NMOCD District No: 2	Project No: 2241	Date: 12/05/2019	
	Drawn: KAS	Reviewed: TFM	Approved: TFM	
Rev No:	Notes:			

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO

Case No. 24380

SELF-AFFIRMED STATEMENT
OF DANA S. HARDY

1. I am attorney in fact and authorized representative of Solaris Water Midstream, LLC, the Applicant herein.

2. I am familiar with the Notice Letter attached as **Exhibit D-1** and caused the Notice Letter, along with the Application in this case, to be sent to the parties set out in the chart attached as **Exhibit D-2**.

3. Exhibit D-2 also provides the date each Notice Letter was sent and the date each return was received.

4. Copies of the certified mail green cards and white slips are attached as **Exhibit D-3** as supporting documentation for proof of mailing and the information provided on Exhibit D-2.

5. On April 9, 2024, I caused a notice to be published to all interested parties in the Hobbs News-Sun. An Affidavit of Publication from the Legal Clerk of the Hobbs News-Sun, along with a copy of the notice publication, is attached as **Exhibit D-4**.

6. I understand this Self-Affirmed Statement will be used as written testimony in the subject cases. I affirm that my testimony above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

/s/ Dana S. Hardy
Dana S. Hardy

June 3, 2024
Date

Solaris Water Midstream, LLC
Case No. 24380
Exhibit D



hinklelawfirm.com

HINKLE SHANOR LLP

ATTORNEYS AT LAW

P.O. BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:
Dana S. Hardy, Partner
dhardy@hinklelawfirm.com

April 8, 2024

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO ALL PARTIES ENTITLED TO NOTICE

Re: Case No. 24380 – Application of Solaris Water Midstream, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico.

To whom it may concern:

This letter is to advise you that the enclosed application was filed with the New Mexico Oil Conservation Division. The hearing will be conducted on **May 2, 2024**, beginning at 8:15 a.m. The exhibits to the application, which include a Division form C-108, are available at the following website link: <https://ocdimage.emnrd.nm.gov/imaging/CaseFileView.aspx?CaseNo=24380> If you would prefer a hard copy, please contact my office and one will be provided.

The hearing will be conducted in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To participate virtually, see the instructions posted on the OCD Hearings website: <https://www.emnrd.nm.gov/ocd/hearing-info/>. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. Mountain Time, on the Thursday preceding the scheduled hearing date. The statement must be submitted through the OCD E-Permitting system (<https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/>) or via e-mail to ocd.hearings@emnrd.nm.gov and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all witnesses the party will call to testify at the hearing, the approximate time the party will need to present its case, and identification of any procedural matters that are to be resolved prior to the hearing.

Please contact Drew Dixon, Senior Vice President of Land and Regulatory, Solaris Water Midstream, LLC, at (832) 304-7028, if you have questions regarding this matter.

Sincerely,

/s/ Dana S. Hardy

Dana S. Hardy

Solaris Water Midstream, LLC

Case No. 24380

Exhibit D-1

Enclosure

PO BOX 10
ROSWELL, NEW MEXICO 88202
(575) 622-6510
FAX (575) 623-9332

7601 JEFFERSON ST NE · SUITE 180
ALBUQUERQUE, NEW MEXICO 87109
505-858-8320
(FAX) 505-858-8321

PO BOX 2068
SANTA FE, NEW MEXICO 87504
(505) 982-4554
FAX (505) 982-8623

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. 24380

NOTICE LETTER CHART

PARTY	NOTICE LETTER SENT	RETURN RECEIVED
Anadarko E & P Onshore LLC PO Box 173779 Denver, CO 80217-3779	04/08/24	04/12/24
BP America Production Co PO Box 3092 Houston, TX 77253-3092	04/08/24	04/18/24 Return to sender.
Bureau of Land Management 301 Dinosaur Trail Santa Fe, NM 87508	04/08/24	04/15/24
COG Operating LLC 600 W Illinois Ave. Midland, TX 79701	04/08/24	04/24/24
EOG Resources Inc PO Box 2267 Midland, TX 79702	04/08/24	04/24/24
EOG Resources Inc PO Box 4362 Houston, TX 77210-4362	04/08/24	04/24/24
Earthstone Operating, LLC 300 N. Marienfeld St., Ste 1000 Midland, TX 79701	04/08/24	05/01/24
Fasken Barbara 6101 Holiday Hill Rd Midland, TX 79707-1631	04/08/24	04/18/24
Fasken Land & Minerals Ltd 6101 Holiday Hill Rd Midland, TX 79707	04/08/24	04/18/24
Fasken Oil & Ranch Ltd 6101 Holiday Hill Rd Midland, TX 79707	04/08/24	04/18/24
Gross Family Ltd PO Box 358 Roswell, NM 88202	04/08/24	04/18/24

**Solaris Water Midstream, LLC
Case No. 24380
Exhibit D-2**

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. 24380

NOTICE LETTER CHART

H6 Holding LLC PO Box 1212 Midland, TX 79702-1212	04/08/24	04/26/24
Hanley Petroleum LLC 415 W Wall St., Ste 1500 Midland, TX 79701-4455	04/08/24	04/25/24 Return to sender.
LHAH Properties LLC 415 W Wall St., Ste 1500 Midland, TX 79701-4455	04/08/24	04/25/24 Return to sender.
Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056-2701	04/08/24	05/01/24 Return to sender.
NM State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501	04/08/24	04/12/24
OXY USA Inc PO Box 27570 Houston, TX 77227-7570	04/08/24	04/15/24
OXY Y-1 Company PO Box 27570 Houston, TX 77227-7570	04/08/24	04/19/24
Sharbro Energy LLC PO Box 840 Artesia, NM 88211-0840	04/08/24	04/15/24
Slade Jarvis J 535 Madison Ave Fl 4 New York, NY 10022-4291	04/08/24	Per USPS Tracking (Last Checked 06/03/24): 04/15/24 – Delivered to agent for final delivery.
TBO Oil & Gas LLC 4505 Mockingbird Ln Midland, TX 79707-1617	04/08/24	Per USPS Tracking (Last Checked 06/03/24): 04/15/24 – Item in transit to next facility.

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF SOLARIS WATER
MIDSTREAM, LLC FOR APPROVAL
OF A SALTWATER DISPOSAL WELL,
LEA COUNTY, NEW MEXICO**

Case No. 24380

NOTICE LETTER CHART

Titus Oil & Gas Corp 100 Throckmorton St., Ste 1630 Fort Worth, TX 76102-2846	04/08/24	04/18/24 Return to sender.
Trainer Partners Ltd PO Box 3788 Midland, TX 79702	04/08/24	05/03/24 Return to sender.
Veritas Permian Resources LLC PO Box 10850 Fort Worth, TX 76114-0850	04/08/24	04/15/24
Whiting 1988 Prod 1700 Broadway, #2300 Denver, CO 80290-2301	04/08/24	04/23/24
XTO Delaware Basin, LLC. 22777 Springwoods Village Pkwy Spring, TX 77389	04/08/24	04/23/24

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

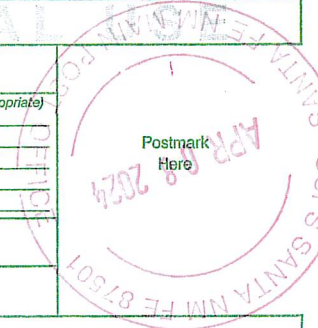
Sent _____

Street Anadarko E & P Onshore LLC
PO Box 173779
Denver, CO 80217-3779

City 24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0752 4615 52



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">Anadarko E & P Onshore LLC PO Box 173779 Denver, CO 80217-3779</p> <p style="text-align: center;">24380 - Solaris Ragin Rutley</p>  <p style="text-align: center;">9590 9402 8561 3186 6096 09</p>	<p style="text-align: center; font-size: 2em; font-weight: bold;">APR 12 REC'D RECEIVED</p>
<p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.5em; font-weight: bold;">9589 0710 5270 0752 4615 52</p>	<p>3. Service Type APR 18 2024</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

Solaris Water Midstream, LLC
Case No. 24380
Exhibit D-3

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Postmark Here

Ser: Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

City, 24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0752 4615 69

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature x <i>R Duran</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery 4-10-24</p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below: _____</p>	
<p>1. Article Addressed to:</p> <p>Bureau of Land Management 301 Dinosaur Trail Santa Fe, NM 87508</p> <p>24380 - Solaris Ragin Rutley</p>	<p>RECEIVED</p> <p>APR 15 2024</p> <p>BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 EAST GREEN STREET CARLSBAD, NM 88220-6292</p> <p>Winkle Shancr LLP Santa Fe NM 87504</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0752 4615 69</p>	<p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt	

9589 0710 5270 0752 4615 45

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total Postage and Fees
 \$ _____

Sent To

Street COG Operating LLC
 600 W Illinois Ave.
 City Midland, TX 79701
 24380 - Solaris Ragin Rutley

Postmark Here

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Javier Salas</i></p> <p>C. Date of Delivery <i>4/15/24</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center;">RECEIVED APR 24 2024</p>
<p>1. Article Addressed to:</p> <p>COG Operating LLC 600 W Illinois Ave. Midland, TX 79701 24380 - Solaris Ragin Rutley</p> <p> 9590 9402 8561 3186 6096 16</p>	<p>3. Service Type <i>Hinkle Shanor LLC</i> <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <i>Santa Fe NM 87504</i> <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label) 9589 0710 5270 0752 4615 45</p>	
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>

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9589 0710 5270 0752 4616 37

Certified Mail Fee \$ _____ Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ _____ <input type="checkbox"/> Return Receipt (electronic) \$ _____ <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____ <input type="checkbox"/> Adult Signature Required \$ _____ <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____ Postage \$ _____ Total Postage and Fees \$ _____	Postmark Here
Sent To Street and A1 EOG Resources Inc PO Box 2267 Midland, TX 79702 City, State, Z 24380 - Solaris Ragin Rutley	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery Mr. Berrill 4/12</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below. <input checked="" type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">EOG Resources Inc PO Box 2267 Midland, TX 79702 24380 - Solaris Ragin Rutley</p> <div style="text-align: center;">  9590 9402 8561 3186 6096 23 </div>	<div style="text-align: center; font-size: 2em; font-weight: bold; border: 2px solid black; padding: 5px;"> RECEIVED APR 24 2024 </div> <p style="text-align: center; font-size: 0.8em;">Hinkle Chanor LLP Santa Fe NM 87504</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">9589 0710 5270 0752 4616 37</p>	<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p> <p style="text-align: right;">Domestic Return Receipt</p>

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Certified Mail Fee \$ _____	
Extra Services & Fees <i>(check box, add fee as appropriate)</i>	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Postage and Fees \$ _____	
Sent To Street EOG Resources Inc PO Box 4362 City Houston, TX 77210-4362 24380 - Solaris Ragin Rutley	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery M. Crites 4-24-24</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below. <input checked="" type="checkbox"/> No</p>																
<p>1. Article Addressed to:</p> <p style="text-align: center;">EOG Resources Inc PO Box 4362 Houston, TX 77210-4362</p> <p style="text-align: center; font-size: 0.8em;">24380 - Solaris Ragin Rutley</p> <div style="text-align: center;"> <p>9590 9402 8561 3186 6097 84</p> </div>	<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 10px;">RECEIVED</div> <p style="text-align: center; font-size: 1.2em;">APR 24 2024</p> <p style="text-align: center; font-size: 0.8em;">Hinkle Sharron LLP</p>																
<p>2. Article Number (Transfer from service label) 9589 0710 5270 0752 4611 63</p>	<p>3. Service Type Santa Fe NM 87001 Priority Mail Express®</p> <table style="width: 100%; font-size: 0.8em;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery		<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Registered Mail™																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Collect on Delivery																	
<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

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Certified Mail Fee
\$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ _____

Total Postage and Fees
\$ _____

Sent To

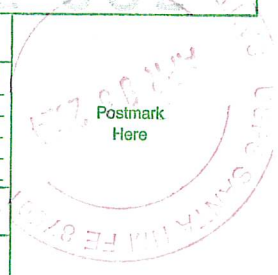
St Earthstone Operating, LLC
300 N. Marienfeld St., Ste 1000

City Midland, TX 79701

24380 – Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0752 4617 67



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <i>Kerman Resources</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Kerman Resources</i> C. Date of Delivery <i>4/19</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">Earthstone Operating, LLC 300 N. Marienfeld St., Ste 1000 Midland, TX 79701</p> <p style="text-align: center;">24380 – Solaris Ragin Rutley</p> <p style="text-align: center;">9590 9402 8561 3186 6090 50</p>	<p style="text-align: center; font-size: 2em; opacity: 0.5;">RECEIVED</p> <p style="text-align: center; font-size: 1.5em;">APR 01 2024</p> <p style="text-align: center; font-size: 1.5em;">May</p> <p style="text-align: center;">Hinkle Shanor LLP</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0752 4617 67</p>	<p>3. Service Type <i>Santa Fe NM 87504</i></p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>

9589 0710 5270 0752 4617 50

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

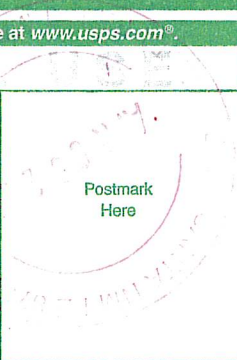
Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total Postage and Fees
 \$ _____

Sent To
 Street: Fasken Barbara
 6101 Holiday Hill Rd
 City: Midland, TX 79707-1631
 24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Karly Kwanida</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Fasken Barbara 6101 Holiday Hill Rd Midland, TX 79707-1631 24380 - Solaris Ragin Rutley</p> <p>9590 9402 8561 3186 6090 67</p>	<p>RECEIVED APR 18 2024</p>
<p>2. Article Number (Transfer from service label) 9589 0710 5270 0752 4617 50</p>	<p>3. Service Type <i>Hinkle Shanor LLP</i> <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <i>Santa Fe NM 87504</i> <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

9589 0710 5270 0752 4617 36

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

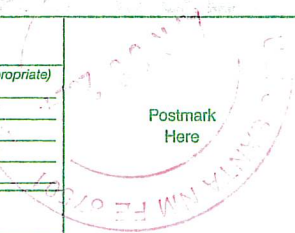
Sent To _____

Street and _____
 City, State _____

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

24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7580-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

24380 - Solaris Ragin Rutley

9590 9402 8561 3186 6090 81

2. Article Number (Transfer from service label)
 9589 0710 5270 0752 4617 36

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Sally Kwasnick

B. Received by (Printed Name) _____ C. Date of Delivery _____

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

RECEIVED
 APR 18 2024

3. Service Type

Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Signature Confirmation™
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Insured Mail
 Insured Mail Restricted Delivery (over \$500)

9589 0710 5270 0752 4617 43

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Certified Mail Fee
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total Postage and Fees
 \$ _____

Postmark Here

Sent
 Fasken Oil & Ranch Ltd
 6101 Holiday Hill Rd
 Midland, TX 79707

City, 24380 – Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Fasken Oil & Ranch Ltd
 6101 Holiday Hill Rd
 Midland, TX 79707

24380 – Solaris Ragin Rutley



9590 9402 8561 3186 6090 74

2. Article Number (Transfer from service label)
 9589 0710 5270 0752 4617 43

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Jessamyn Mader Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

RECEIVED
 APR 18 2024

3. Service Type *Hinkle Shanor LLP* Priority Mail Express®
Santa Fe NM 87504 Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Signature Confirmation™
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Insured Mail
 Collect on Delivery Restricted Delivery Insured Mail Restricted Delivery (over \$500)

9589 0710 5270 0415 9511 92

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OFFICIAL USE

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

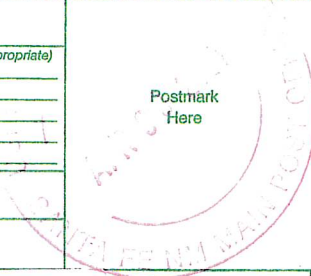
Total Postage and Fees \$ _____

Sent To

Street and A Gross Family Ltd
 PO Box 358
 Roswell, NM 88202

City, State, Z 24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Hinkle Shanon LLC</u> C. Date of Delivery</p>
<p>Gross Family Ltd PO Box 358 Roswell, NM 88202</p> <p>24380 - Solaris Ragin Rutley</p> <p>9590 9402 8562 3186 0244 18</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p> <p>RECEIVED APR 15 2024 APR 18 2024</p>
<p>2. Article Number (Transfer from service label) 9589 0710 5270 0415 9511 92</p>	<p>3. Service Type <u>Hinkle Shanon LLC</u> <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature <u>Santa Fe NM 87504</u> <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>

9589 0710 5270 0415 9511 85

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Sent To _____

Street and Apt. No., _____ H6 Holding LLC
 PO Box 1212
 Midland, TX 79702-1212

City, State, ZIP+4® _____ 24380 – Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <u>4/16/24</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center;">RECEIVED APR 26 2024</p>
<p>1. Article Addressed to:</p> <p>H6 Holding LLC PO Box 1212 Midland, TX 79702-1212 24380 – Solaris Ragin Rutley</p> <p>9590 9402 8562 3186 0244 25</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0415 9511 85</p>	<p>Hinkle Share</p>
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

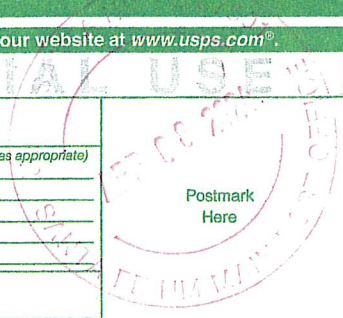
Sent To

Street and Apt. NM State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

City, State, ZIP 24380 – Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0415 9505 08



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X </p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">NM State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501</p> <p style="text-align: right; font-size: small;">24380 – Solaris Ragin Rutley</p> <div style="text-align: center;"> 9590 9402 8562 3186 0244 63 </div>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <div style="text-align: center; border: 2px solid black; padding: 10px; margin: 10px 0;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">RECEIVED</p> <p style="font-size: 1.2em; margin: 5px 0;">APR 12 2024</p> </div>
<p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">9589 0710 5270 0415 9505 08</p>	<p>3. Service Type <u>Hinkle Shanor LLP</u> <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature <u>Santa Fe NM 87501</u> <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

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Postmark Here

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Sent To

Street and Apt. No., or PO Box 27570 OXY USA Inc
Houston, TX 77227-7570
City, State, ZIP+4® 24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Article Addressed to:</p> <p style="text-align: center;">OXY USA Inc PO Box 27570 Houston, TX 77227-7570</p> <p style="text-align: right; font-size: 0.8em;">24380 - Solaris Ragin Rutley</p> <div style="text-align: center;">  9590 9402 8562 3186 0244 70 </div> <p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">9589 0710 5270 0415 9504 92</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <u>4/15/2024</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <div style="text-align: center; font-size: 2em; font-weight: bold; opacity: 0.5;">RECEIVED</div> <p style="text-align: center; font-size: 1.2em;">APR 15 2024</p> <p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

9589 0710 5270 0415 9504 85

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Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
 \$ _____

Total Postage and Fees
 \$ _____

Sent To
 Street and City, State: OXY Y-1 Company
 PO Box 27570
 Houston, TX 77227-7570
 24380 – Solaris Ragin Rutley

Postmark Here

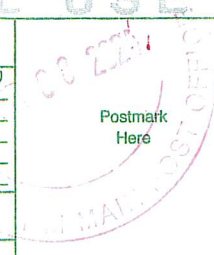
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <i>Cheri Filip</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Cheri Filip</i> E 68</p> <p>C. Date of Delivery <i>4/11/2024</i></p>
<p>1. Article Addressed to:</p> <p>OXY Y-1 Company PO Box 27570 Houston, TX 77227-7570 24380 – Solaris Ragin Rutley</p> <p>9590 9402 8562 3186 0244 87</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p> <p>RECEIVED APR 15 2024 APR 19 2024</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0415 9504 85</p>	<p>3. Service Type <i>Santa Fe NM 8750</i> <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>

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Certified Mail Fee \$ _____ Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ _____ <input type="checkbox"/> Return Receipt (electronic) \$ _____ <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____ <input type="checkbox"/> Adult Signature Required \$ _____ <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	Postmark Here 
Postage \$ _____ Total Postage and Fees \$ _____	
Sent To Street and Apt. # _____ City, State, ZIP+4 _____ Sharbro Energy LLC PO Box 840 Artesia, NM 88211-0840 24380 - Solaris Ragin Rutley	

PS Form 3800, January 2023 PSN 7530-02-000-8047 See Reverse for Instructions.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>1. Article Addressed to:</p> <p style="text-align: center; font-size: 1.2em;">Sharbro Energy LLC PO Box 840 Artesia, NM 88211-0840</p> <p style="text-align: center; font-size: 0.8em;">24380 - Solaris Ragin Rutley</p> <div style="text-align: center;">  9590 9402 8562 3186 0244 94 </div>	<div style="text-align: center; font-size: 2em; font-weight: bold; margin-bottom: 10px;">RECEIVED</div> <div style="text-align: center; font-size: 1.5em; font-weight: bold;">APR 15 2024</div>																
<p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">9589 0710 5270 0415 9504 78</p>	<p>3. Service Type Hinkle Shanor 10 Santa Fe, NM 87504</p> <table style="width: 100%; font-size: 0.8em;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
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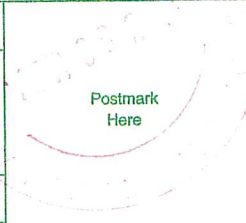
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 PO Box 10850
 Fort Worth, TX 76114-0850

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<p>1. Article Addressed to:</p> <p>Veritas Permian Resources LLC PO Box 10850 Fort Worth, TX 76114-0850 24380 - Solaris Ragin Rutley</p> <p>9590 9402 8560 3186 8733 84</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0415 9509 59</p>	<p>Hinkle Shanor LLC 8700</p>
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<p>1. Article Addressed to:</p> <p>XTO Delaware Basin, LLC. 22777 Springwoods Village Pkwy Spring, TX 77389</p> <p>24380 - Solaris Ragin Rutley</p>  <p>9590 9402 8560 3186 8734 07</p>	<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 0415 9509 35</p>	
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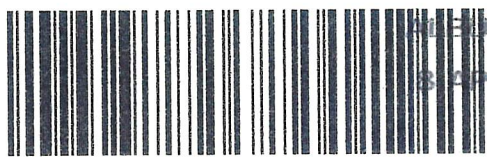
City, Houston, TX 77253-3092 _____
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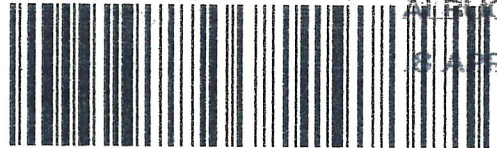
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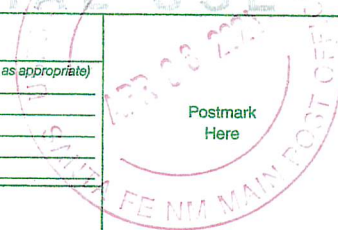
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415 W Wall St., Ste 1500
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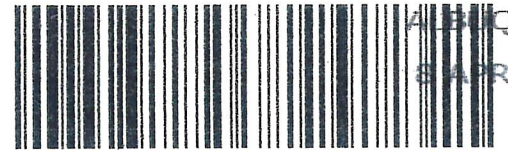
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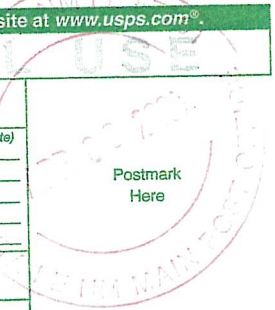
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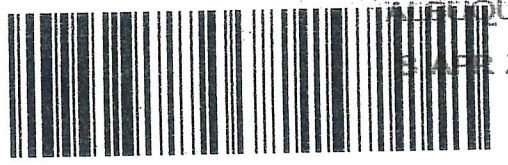
Street and Apt. 1 Marathon Oil Permian LLC
 5555 San Felipe St.
 Houston, TX 77056-2701

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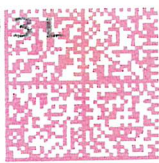


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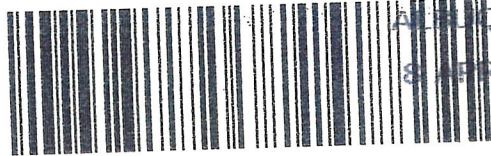
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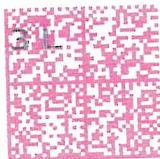
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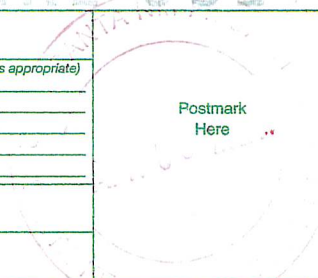
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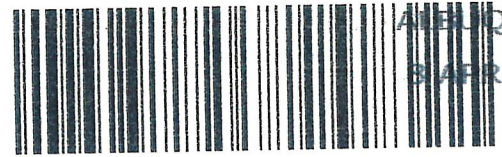
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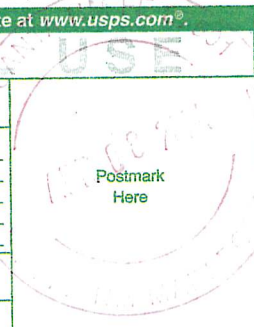
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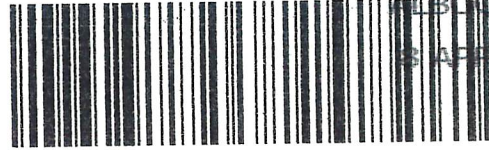
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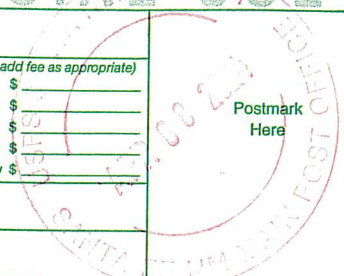
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Street and Apt	TBO Oil & Gas LLC
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	24380 - Solaris Ragin Rutley

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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April 11, 2024, 5:32 pm

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April 8, 2024, 9:36 pm

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Feedback

April 8, 2024, 9:13 pm

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FAQs

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
April 09, 2024
and ending with the issue dated
April 09, 2024.


Publisher

Sworn and subscribed to before me this
9th day of April 2024.


Business Manager

My commission expires
January 29, 2027

(Seal)
**STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087528
COMMISSION EXPIRES 01/29/2027**

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 publication has been made.

LEGAL	LEGAL
LEGAL NOTICE April 9, 2024	
<p>This is to notify all interested parties, including Anadarko E & P Onshore LLC; BP America Production Co; Bureau of Land Management; COG Operating LLC; EOG Resources Inc; EOG Resources Inc; Earthstone Operating, LLC; Fasken Barbara; Fasken Land & Minerals Ltd; Fasken Oil & Ranch Ltd; Gross Family Ltd; H6 Holding LLC; Hanley Petroleum LLC; LHAH Properties LLC; Marathon Oil Permian LLC; NM State Land Office; OXY USA Inc; OXY Y-1 Company; Sharbro Energy LLC; Slade Jarvis J; TBO Oil & Gas LLC; Trainer Partners Ltd; Titus Oil & Gas Corp; Veritas Permian Resources LLC; Whiting 1988 Prod; XTO Delaware Basin, LLC.; and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Solaris Water Midstream, LLC (Case No. 24380). The hearing will be conducted on May 2, 2024 in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To participate virtually, see the instructions posted on the OCD Hearings website: https://www.emnrd.nm.gov/ocd/hearing-info/. Solaris Water Midstream, LLC ("Solaris" or "Applicant") applies for an order approving its proposed Ragin Rutley SWD No. 1, to be drilled at a location 857' from the south line and 228' from the east line, in Unit P of Section 14, Township 20 South, Range 32 East, Lea County, New Mexico for the purpose of operating the Ragin Rutley SWD No. 1 as a saltwater disposal well ("Well"). Applicant seeks authorization to inject produced water into the Devonian, Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) at a depth of approximately 14,463 to 16,263 feet. Solaris proposes to inject an average of 30,000 barrels of water per day up to a maximum of 40,000 barrels of water per day and requests that the New Mexico Oil Conservation Division approve a maximum surface injection pressure of 2,892 psi. The Well is located approximately 30 miles northeast of Carlsbad, New Mexico. #00289118</p>	

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00289118

GILBERT
HINKLE, SHANOR LLP
PO BOX 2068
SANTA FE, NM 87504

Solaris Water Midstream, LLC
Case No. 24380
Exhibit D-4