

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

APPLICATION OF SOLARIS WATER  
MIDSTREAM, LLC FOR APPROVAL OF  
SALT WATER DISPOSAL WELL,  
EDDY COUNTY, NEW MEXICO.

CASE NO. 20474

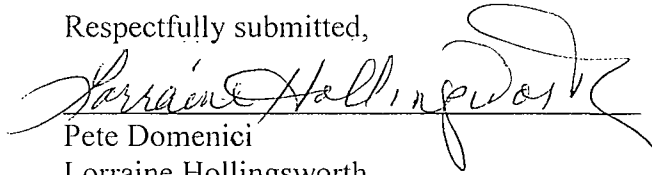
APPLICATION

Solaris Water Midstream, LLC (Solaris), by and through undersigned counsel of record, hereby applies for an order approving a salt water disposal well in Eddy County, New Mexico. In support of this Application, Solaris states as follows:

1. Solaris proposes to drill Texas Ranger SWD No. 1, located 200 feet from the South line and 1580 feet from the East line of Section 6, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico.
2. Solaris seeks authority to inject salt water into the Devonian-Silurian formation at a depth of 12,333 to 14,133 feet.
3. Form C-108, dated March 7, 2019, for the subject well is attached hereto as Exhibit A.
4. The granting of this application with prevent waste and protect correlative rights.
5. A Proposed Advertisement for the Texas Ranger SWD No. 1 is attached hereto.

WHEREFORE, Solaris requests that this application be set for hearing before an Examiner of the Oil Conservation Division on May 2, 2019, and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lorraine Hollingsworth", written over a horizontal line.

Pete Domenici

Lorraine Hollingsworth

320 Gold Ave. SW, Suite 1000

Albuquerque, New Mexico 87102

505-883-6250

[pdomenici@domenicilaw.com](mailto:pdomenici@domenicilaw.com)

[lhollingsworth@domenicilaw.com](mailto:lhollingsworth@domenicilaw.com)

*Attorneys for Solaris Water Midstream, LLC*

PROPOSED ADVERTISEMENT

CASE NO. \_\_\_\_\_. **Application of Solaris Water Midstream, LLC for approval of a salt water disposal well, Eddy County, New Mexico.** Applicant seeks an order approving disposal of salt water in the Devonian-Silurian formations at depths of 12,333 to 14,133 feet through the Texas Ranger Well No. 1, to be located 200 from the South line and 1580 feet from the East line of Section 6, Township 21 South, Range 27 East, NMPM; Eddy County, New Mexico.

# LONQUIST & CO. LLC

PETROLEUM  
ENGINEERS

ENERGY  
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

March 11, 2019

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

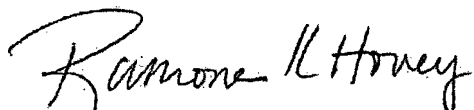
**RE: TEXAS RANGER SWD NO. 1 AUTHORIZATION TO INJECT**

To Whom It May Concern:

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

Any questions should be directed towards Solaris Water Midstream, LLC's agent Lonquist & Co., LLC.

Regards,



Ramona K. Hovey  
Sr. Petroleum Engineer  
Lonquist & Co., LLC

(512) 600-1777  
[ramona@lonquist.com](mailto:ramona@lonquist.com)

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: Texas Ranger SWD #1 \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: SWD; Silurian-Devonian \_\_\_\_\_ 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.

**March 7, 2019**

**Ramona Hovey – Agent of Solaris Water Midstream**

Print or Type Name

Signature

Date

(512) 600-1777

Phone Number

ramona@lonquist.com

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ ☒ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ ☒ 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 \_\_\_\_\_ ☒ 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: \_\_\_\_\_

DATE: 3/7/2019

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

### 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.

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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: Texas Ranger SWD No. 1

WELL LOCATION: 200' FSL 1,580' FEL  
FOOTAGE LOCATION

O  
UNIT LETTER

6  
SECTION

21S  
TOWNSHIP

27E  
RANGE

### WELLBORE SCHEMATIC

### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 18.125"

Casing Size: 16.00"

Cemented with: 444 sx.

*or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

#### Intermediate Casing

Hole Size: 14.750"

Casing Size: 13.375"

Cemented with: 515 sx.

*or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

#### Production Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with: 2,664 sx.

*or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: surface

Method Determined: circulation

#### Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 596 sx.

*or* \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: 8,728'

Method Determined: calculation

Total Depth: 14,133'

#### Injection Interval

12,333 feet to 14,133 feet

(Open Hole)



**INJECTION WELL DATA SHEET**

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 8,678' and 5", 18 lb/ft, HCL-80, LTC from 8,678'-12,283'

Lining Material: Duoline

Type of Packer: 7-5/8" X 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

Packer Setting Depth: 12,283'

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

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:

Bone Spring: 4,793'

Wolfcamp: 8,948'

Strawn: 10,081'

Atoka: 10,303'

Morrow: 10,978'



**Solaris Water Midstream, LLC**

**Clara Allen SWD No. 1**

**FORM C-108 Supplemental Information**

**III. Well Data**

**A. Wellbore Information**

1.

Well information	
Lease Name	Texas Ranger SWD
Well No.	1
Location	S-6 T-21S R-27E
Footage Location	200' FSL & 1,580' FEL

2.

**a. Wellbore Description**

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	16"	13.375"	9.625"	7.625"
WT	0.495"	0.48"	0.545"	0.500"
ID	15.010"	12.415"	8.535"	6.625"
Drift ID	14.822"	12.259"	8.379"	6.500"
COD	17.000"	13.375"	10.625"	7.625"
Weight	84 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	J-55 BTC	L-80, EZ-GO FJ3	HCP-110 BTC	Q-125 EZ-GO FJ3
Hole Size	18.125"	14.75"	12.25"	8.5"
Depth Set	920'	2,858'	8,928'	8,728'-12,333'

b. Cementing Program

Cement Information					
Casing String	Conductor	Surface	Intermediate	Production	Liner
Lead Cement	EXTENDACEM™	HALCEM™	HALCEM™	HALCEM™	NeoCem™
Lead Cement Volume (sacks)	249	407	515	Stage 1: 1,176 Stage 2: 896 Stage 3: 592	596
Lead Cement Density (ft3/sack)	1.694	1.342	1.685	Stage 1: 1.232 Stage 2: 1.713 Stage 3: 1.777	1.418
Tail Cement	-	HALCEM™	-	-	-
Tail Cement Volume (sacks)	-	37	-	-	-
Tail Cement Density (ft3/sack)	-	1.342	-	-	-
Cement Excess	0%	50%	30%	50%, 50%, 50%	50%
Total Sacks	249	444	515	2,664	596
TOC	Surface	Surface	Surface	Surface	10,000'
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	0-8,678'
	8,678'-12,283'

Tubing will be lined with Duoline.

#### 4. Packer Description

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

#### B. Completion Information

1. Injection Formation: Devonian
2. Gross Injection Interval: 12,333'-14,133'

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
Bone Spring	4,793'
Wolfcamp	8,948'
Strawn	10,081'
Atoka	10,303'
Morrow	10,978'

#### 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: 1,850 PSI (surface pressure)  
Maximum Injection Pressure: 2,467 PSI (surface pressure)

4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Artesia, Bone Spring, and Morrow formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Delaware, Capitan, Morrow, San Andreas, Tansill, 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: Siluro-Devonian Formation**

<b>Formation</b>	<b>Depth</b>
Rustler	793'
Salado (Top of Salt)	970'
Salado (Bottom of Salt)	2,213'
Bell Canyon	2,808'
Cherry Canyon	3,473'
Brushy Canyon	3,828'
Bone Spring	4,793'
Bone Spring 1 <sup>st</sup> Sand	6,323'
Bone Spring 2 <sup>nd</sup> Sand	7,023'
Bone Spring 3 <sup>rd</sup> Sand	8,378'
Wolfcamp	8,948'
Cisco	9,762'
Strawn	10,081'
Atoka	10,303'
Morrow	10,978'
Barnett	11,447'
Devonian	12,333'

**B. Underground Sources of Drinking Water**

Eighteen (18) water wells exist within one-mile of the proposed well. Across the area, fresh water wells are usually drilled between 100' and 600' in depth. Water depths range from 67' – 360'. The Rustler is known to exist in this general area and may also be another USDW and will be protected by setting the surface casing at 970'.

**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 eighteen (18) water wells that exist within one-mile of the well location. Samples from the nearest two wells are being obtained and analysis results will be provided as soon as possible. A Water Right Summary from the New Mexico Office of the State Engineer is attached for the eighteen water wells within a 1-mile radius.

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

**District II**  
511 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

**State of New Mexico**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised July 18, 2013

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		<sup>2</sup> OGRID Number 371643 <sup>3</sup> API Number TBD
<sup>4</sup> Property Code	<sup>5</sup> Property Name TEXAS RANGER SWD	<sup>6</sup> Well No. 1

**<sup>7</sup> Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	6	21S	27E		200	S	1,580	E	EDDY

**<sup>8</sup> Proposed Bottom Hole Location**

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

**<sup>9</sup> Pool Information**

<sup>9</sup> Pool Name SWD: Silurian-Devonian	<sup>9</sup> Pool Code 97869
--------------------------------------------------	---------------------------------

**Additional Well Information**

<sup>11</sup> Work Type N	<sup>12</sup> Well Type SWD	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Private	<sup>15</sup> Ground Level Elevation 3,225'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 14,133'	<sup>18</sup> Formation Silurian-Devonian	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date ASAP
Depth to Ground water 67'		Distance from nearest fresh water well 113.4'		Distance to nearest surface water 4,755'

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

**<sup>21</sup> Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	18.125"	16"	84 lb/ft	920'	444	Surface
Intermediate	14.75"	13.375"	68 lb/ft	2,858'	515	Surface
Production	12.25"	9.625"	53.5 lb/ft	8,928'	2,664	Surface
Liner	8.5"	7.625"	39 lb/ft	8,728' - 12,333'	596	8,728'
Tubing		5.5"	20 lb/ft & 18 lb/ft	12,283'	N/A	

**Casing/Cement Program: Additional Comments**

See attached schematic.
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**<sup>22</sup> Proposed Blowout Prevention Program**

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

<sup>23</sup> 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 <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: <i>Ramona K Hovey</i> Printed name: Ramona Hovey Title: Consulting Engineer E-mail Address: ramona@lonquist.com Date: March 7, 2018	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">OIL CONSERVATION DIVISION</th> </tr> <tr> <td colspan="2" style="height: 40px; vertical-align: bottom;">Approved By:</td> </tr> <tr> <td colspan="2" style="height: 40px; vertical-align: bottom;">Title:</td> </tr> <tr> <td style="width: 50%;">Approved Date:</td> <td style="width: 50%;">Expiration Date:</td> </tr> <tr> <td colspan="2" style="height: 40px; vertical-align: bottom;">Conditions of Approval Attached</td> </tr> </table>	OIL CONSERVATION DIVISION		Approved By:		Title:		Approved Date:	Expiration Date:	Conditions of Approval Attached	
OIL CONSERVATION DIVISION											
Approved By:											
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Approved Date:	Expiration Date:										
Conditions of Approval Attached											

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240  
Phone (576) 393-8161 Fax: (576) 393-0720

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DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96101	Pool Name SWD; Devonian
Property Code	Property Name TEXAS RANGER SWD	Well Number 1
OGRID No. 371643	Operator Name SOLARIS WATER MIDSTREAM, LLC	Elevation 3225'

Surface Location

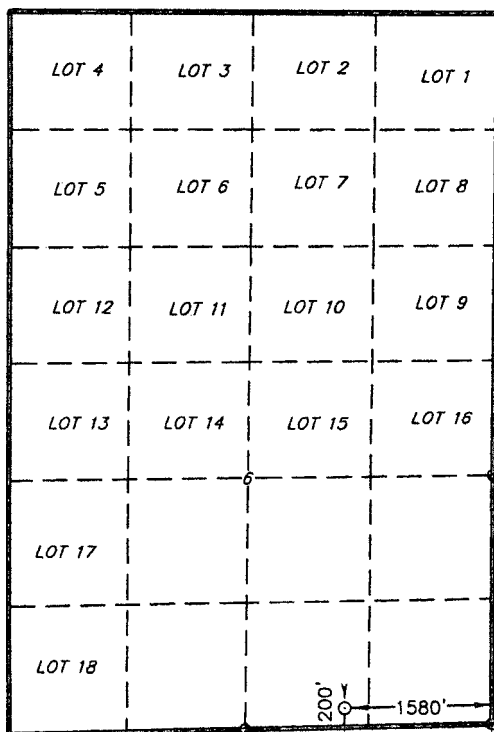
UL or lot No. 0	Section 6	Township 21 S	Range 27 E	Lot Idn	Feet from the 200	North/South line SOUTH	Feet from the 1580	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

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

Dedicated Acres 5.50	Joint or Infill	Consolidation Code	Order No.
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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



SURFACE LOCATION

Lot - N 32.502333°  
Long - W 104.225686°  
NMSPCE- N 546496.3  
E 574523.7  
(NAD-83)

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.

*Ramona Hovey* 3/7/2019  
Signature Date

Ramona Hovey

Printed Name

ramona@lonquist.com

Email Address

SURVEYOR CERTIFICATION

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

SEPTEMBER 28, 2018

Date Surveyed

Signature of Professional Surveyor

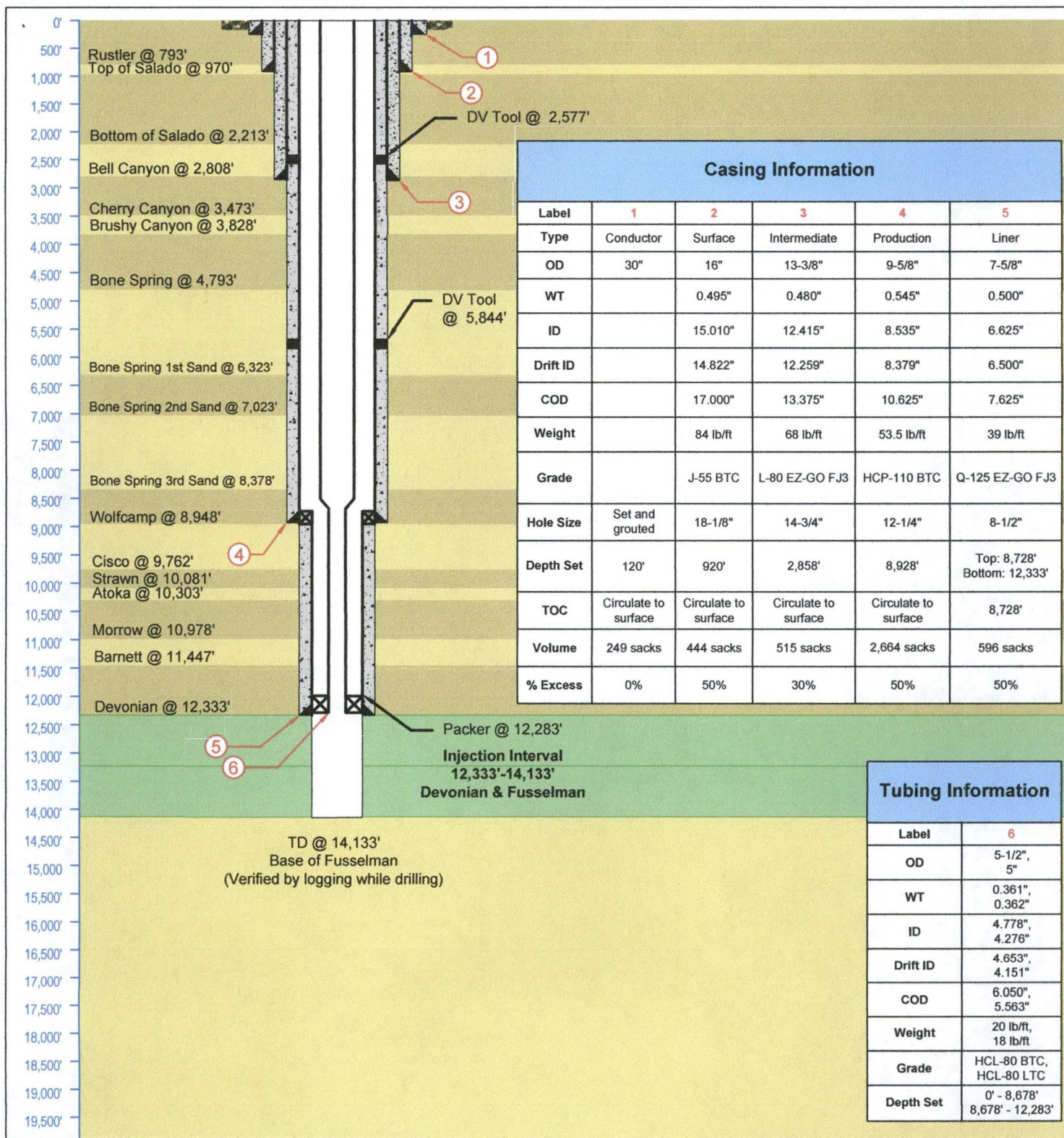
Certificate No. 7977

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

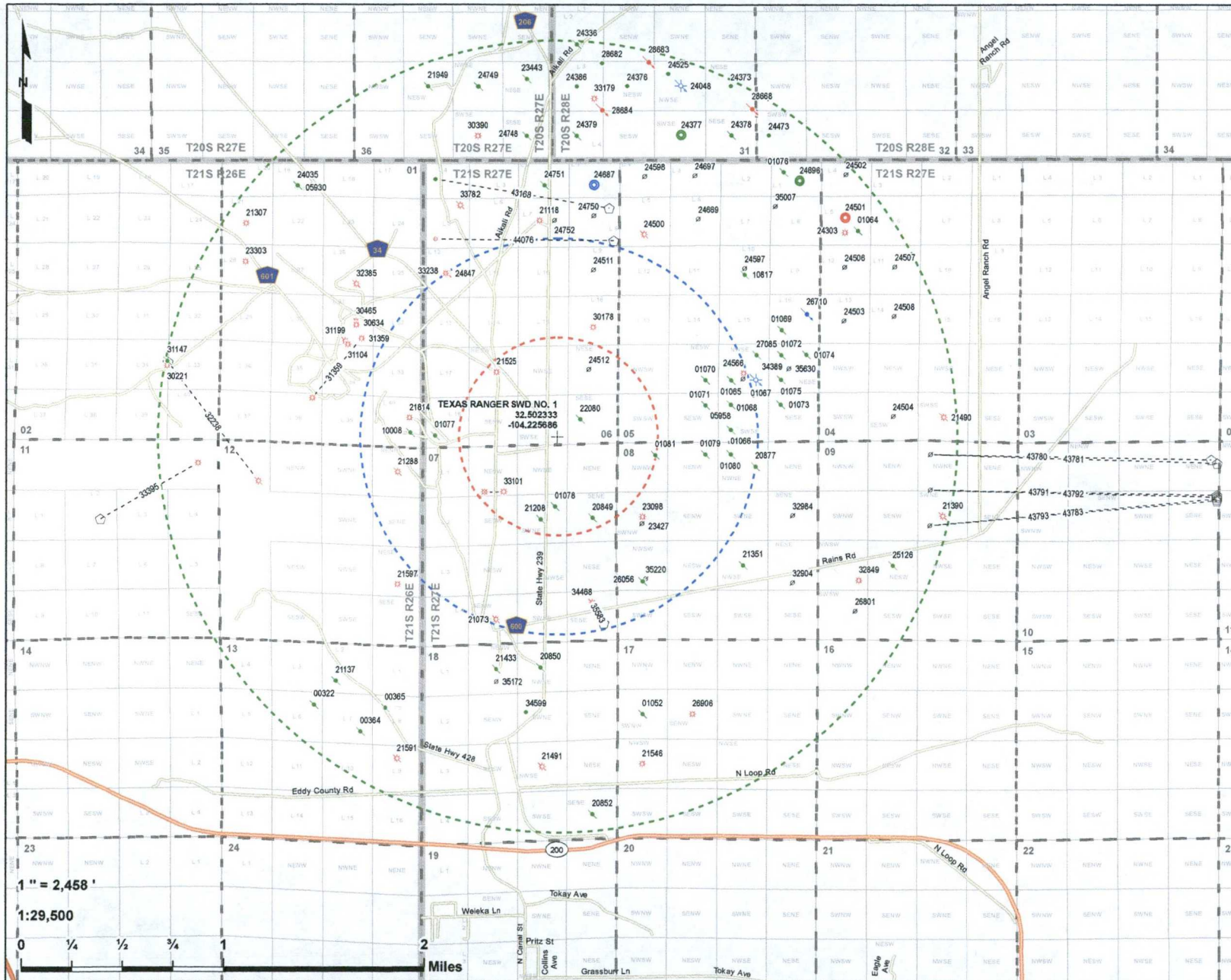
WO Num.: 34088





<b>LONQUIST &amp; CO. LLC</b> 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		Texas Ranger SWD No. 1	
	Country: USA		State/Province: New Mexico	County/Parish: Eddy
	Location:		Site: 200' FSL, 1,580' FEL	Survey: S9-T21S-R27E
	API No: NA		Field: Silurian-Devonian (Code: 97869)	Well Type/Status: SWD
	NMOCD District No: 2		Project No: 1917	Date: 3/6/2019
	Drawn: TFM		Reviewed:	Approved:
	Rev No: 1		Notes:	





**Texas Ranger SWD No. 1**  
**2 Mile Area of Review**  
 Solaris Water Midstream, LLC  
 Eddy, NM

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

Drawn by: ASC Date: 2/28/2019 Approved by: ELR

**LONQUIST & CO. LLC**

PETROLEUM  
ENGINEERS

ENERGY  
ADVISORS

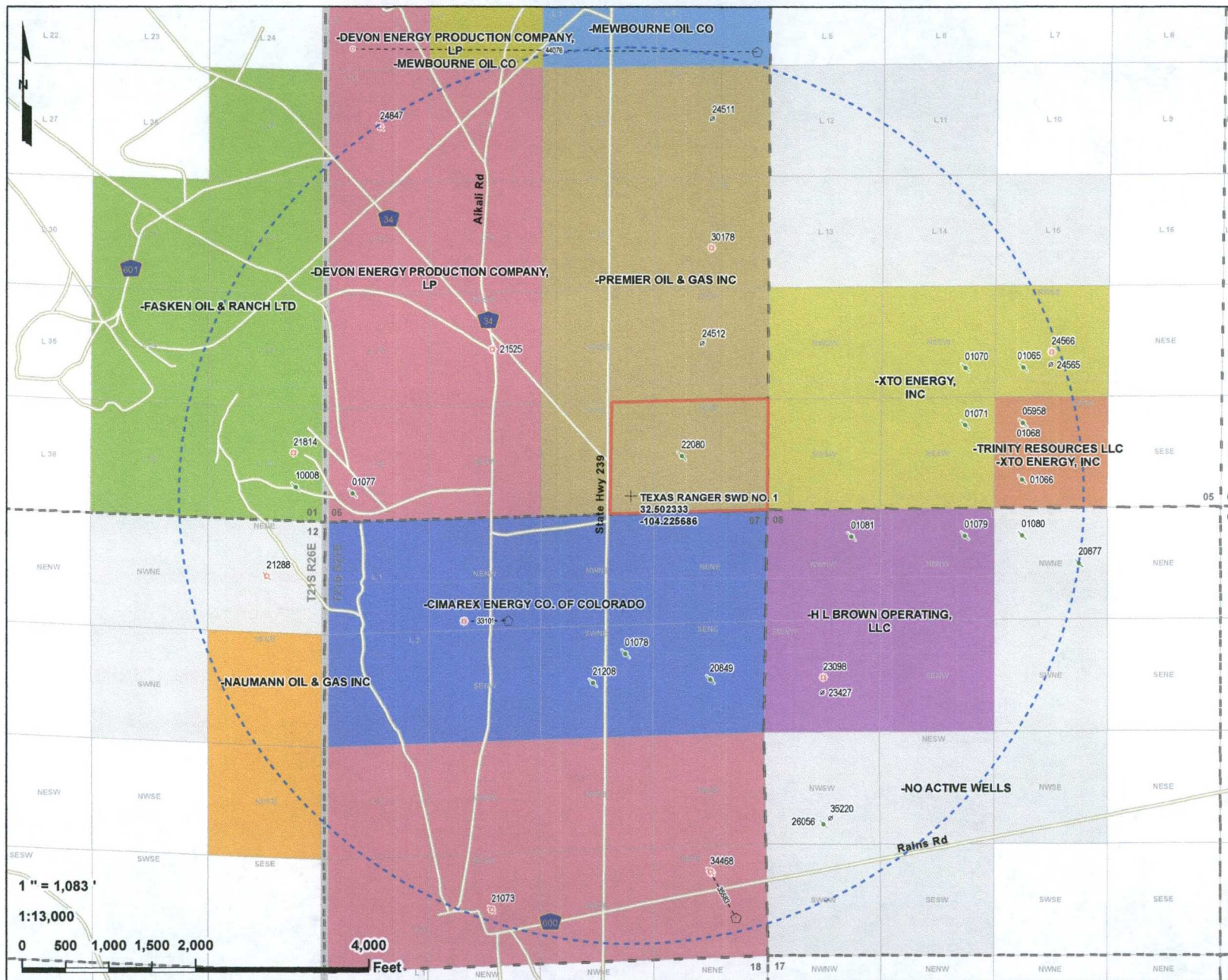
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

- + Texas Ranger 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 (30-015-...) SHL Status-Type (Count)
  - Horizontal Surface Location (11)
  - Active - Gas (23)
  - Active - Injection (3)
  - Active - Oil (9)
  - Active - SWD (1)
  - Cancelled/Abandoned Location (24)
  - Plugged/Site Released - Gas (12)
  - Plugged/Site Released - Oil (45)
  - Plugged/Site Released - SWD (2)
  - Active - Water Source (2)
  - Expired - TA Water Source (1)
  - Permitted - Water Source (1)
- API (30-015-...) BHL Status-Type (Count)
  - Active - Gas (4)
  - Active - Oil (1)
  - Cancelled/Abandoned Location (6)
  - Permitted - Gas (1)
  - Plugged/Site Released - Gas (1)

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







**Texas Ranger SWD No. 1**  
**1-Mile Offset Operators**  
 Solaris Water Midstream, LLC  
 Eddy Co., NM

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

Drawn by: ASG    Date: 3/7/2019    Approved by: ELR

**LONQUIST & CO. LLC**

PETROLEUM ENGINEERS    ENERGY ADVISORS

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

---

+ Texas Ranger SWD No. 1 SHL  
 1-Mile Radius  
 Surface Owner: KIMBLEY, NATALIE K  
 QQ-Section (NM-PLSS 2nd Div.)  
 Section (NM-PLSS 1st Div.)  
 Township/Range (NM-PLSS)  
 Lateral

**API (30-015-...) SHL Status-Type (Count)**

- Horizontal Surface Location (3)
- Active - Gas (5)
- Active - Oil (1)
- Cancelled/Abandoned Location (5)
- Plugged/Site Released - Gas (4)
- Plugged/Site Released - Oil (16)

**API (30-015-...) BHL Status-Type (Count)**

- Active - Gas (2)
- Permitted - Gas (1)

**Offset Operators**

- CIMAREX ENERGY CO. OF COLORADO
- DEVON ENERGY PRODUCTION COMPANY, LP
- DEVON ENERGY PRODUCTION COMPANY, LP; -MEWBOURNE OIL CO
- FASKEN OIL & RANCH LTD
- H L BROWN OPERATING, LLC
- MEWBOURNE OIL CO
- NAUMANN OIL & GAS INC
- PREMIER OIL & GAS INC
- TRINITY RESOURCES LLC; -XTO ENERGY, INC
- XTO ENERGY, INC
- NO ACTIVE WELLS

Sources: NM-BLM/ NM-SLO (2019)

CHAVES    EDDY    LEA

OTERO

**NEW MEXICO**

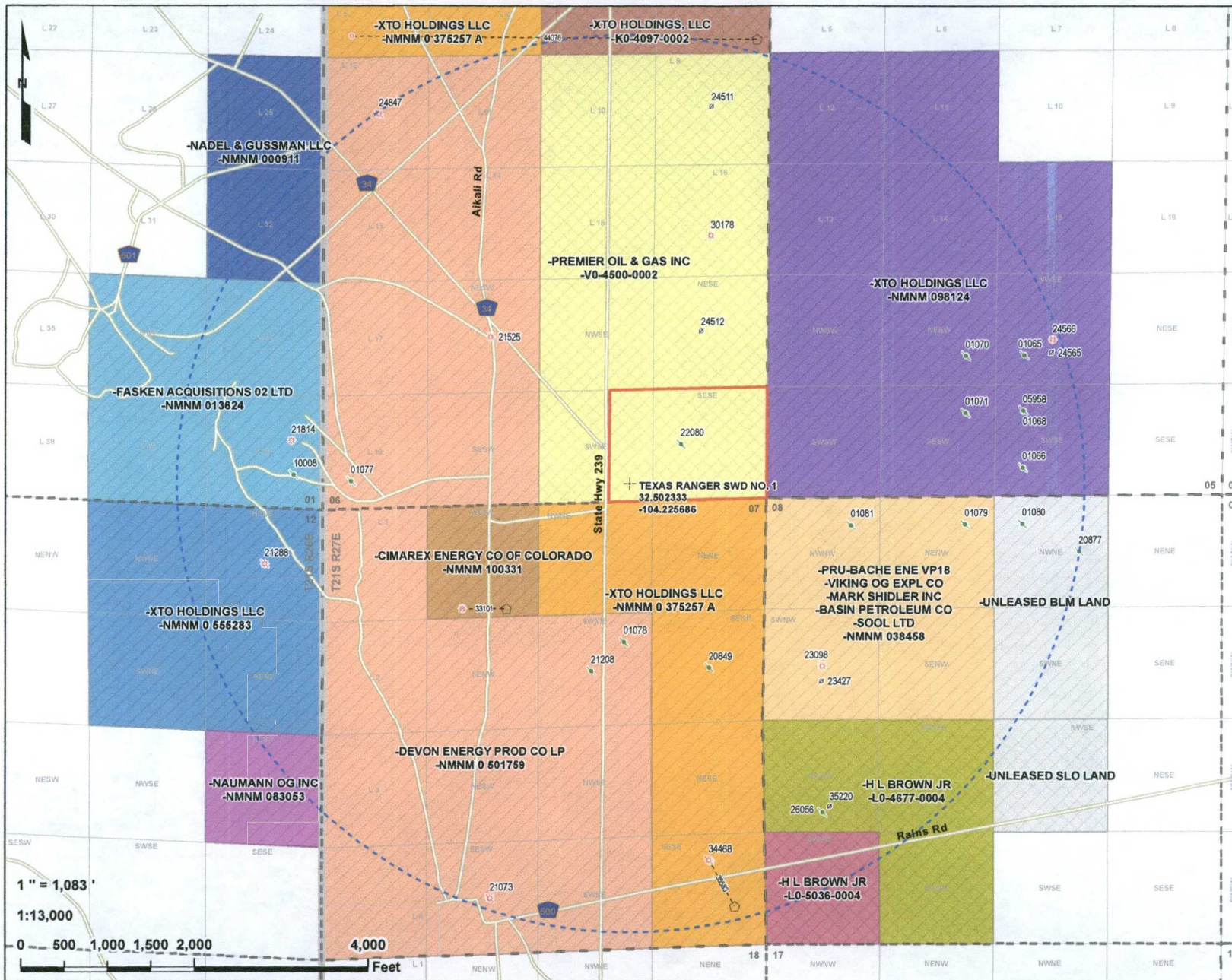
TEXAS    CULBERSON    LOVING

1" = 1,083'

1:13,000

0 500 1,000 1,500 2,000 4,000 Feet





**Texas Ranger SWD No. 1**  
**1-Mile Offset Lessee(s)**  
**Solaris Water Midstream, LLC**  
**Eddy Co, NM**

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

Drawn by: ASG    Date: 3/6/2019    Approved by: ELR

**LONQUIST & CO. LLC**  
PETROLEUM ENGINEERS    ENERGY ADVISORS  
AUSTIN • HOUSTON • CALGARY • WICHITA  
DENVER • COLLEGE STATION • RATHEN RIDGE • EDMONTON

+ Texas Ranger SWD No. 1 SHL  
 1-Mile Radius  
 Surface Owner: KIMBLEY, NATALIE K  
 NM-SLO  
 NM-BLM  
 QQ-Section (NM-PLSS 2nd Div.)  
 Section (NM-PLSS 1st Div.)  
 Township/Range (NM-PLSS)  
 Lateral  
 API (30-015-...) SHL Status-Type (Count)  
 Horizontal Surface Location (3)  
 Active - Gas (5)  
 Active - Oil (1)  
 Cancelled/Abandoned Location (5)  
 Plugged/Site Released - Gas (4)  
 Plugged/Site Released - Oil (16)  
 API (30-015-...) BHL Status-Type (Count)  
 Active - Gas (2)  
 Permitted - Gas (1)

**Lessee**

- CIMAREX ENERGY CO OF COLORADO; -NMNM 100331
- DEVON ENERGY PROD CO LP; -NMNM 0 501759
- FASKEN ACQUISITIONS 02 LTD; -NMNM 013624
- H L BROWN JR; -L0-4677-0004
- H L BROWN JR; -L0-5036-0004
- NADEL & GUSSMAN LLC; -NMNM 000911
- NAUMANN OG INC; -NMNM 083053
- PREMIER OIL & GAS INC; -V0-4500-0002
- PRU-BACHE ENE VP18; -VIKING OG EXPL CO; -MARK SHIDLER INC; -BASIN PETROLEUM CO; -SOOL LTD; -NMNM 038458
- XTO HOLDINGS LLC; -NMNM 0 375257 A
- XTO HOLDINGS LLC; -NMNM 0 555283
- XTO HOLDINGS LLC; -NMNM 098124
- XTO HOLDINGS, LLC; -K0-4097-0002
- UNLEASED BLM LAND
- UNLEASED SLO LAND

Sources: NM-BLM/ NM-SLO (2019)

CHAVES

EDDY

LEA

OTERO

NEW MEXICO

TEXAS

CULBERSON

LOVING

Map Extent

Texas Ranger SWD No 1  
1 Mile Area of Review List

API (30-015-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
01065	WELCH FEDERAL #001	O	P	BILL TAYLOR	99999	32.5064774000	-104.2108307000	12/31/9999	[11590] CEDAR HILLS, YATES
01066	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	0	32.50284960000	-104.21089170000	1/1/1900	[73440] BURTON FLAT, STRAWN, WEST (GAS)
01068	WELCH FEDERAL #006	O	A	TRINITY RESOURCES LLC	99999	32.5046616000	-104.210861200	2/16/1954	[70860] AVALON, BONE SPRING (GAS)
01070	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5064621000	-104.213035600	1/1/1900	[70060] ALACRAN HILLS, ATOKA (GAS); [73360] BURTON FLAT, STRAWN (PRORATED GAS)
01071	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	0	32.5046196000	-104.213050800	1/1/1900	[70060] ALACRAN HILLS, ATOKA (GAS); [73280] BURTON FLAT, MORROW (PRO GAS)
01077	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5024223000	-104.236328100	1/1/1900	[73280] BURTON FLAT, MORROW (PRO GAS)
01078	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.4972153000	-104.225921600	1/1/1900	[73280] BURTON FLAT, MORROW (PRO GAS); [73440] BURTON FLAT, STRAWN, WEST (GAS)
01079	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5010185000	-104.213073700	1/1/1900	[76820] FOSTER DRAW, DELAWARE (GAS)
01080	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5010338000	-104.210907000	1/1/1900	[73280] BURTON FLAT, MORROW (PRO GAS)
01081	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	0	32.5009880000	-104.217361500	1/1/1900	[76820] FOSTER DRAW, DELAWARE (GAS)
05958	PRE-ONGARD WELL #000	O	P	PRE-ONGARD WELL OPERATOR	0	32.5046921000	-104.210861200	1/1/1900	[73440] BURTON FLAT, STRAWN, WEST (GAS)
10008	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5026283000	-104.238464400	1/1/1900	[73280] BURTON FLAT, MORROW (PRO GAS); [73440] BURTON FLAT, STRAWN, WEST (GAS)
20849	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.4963837000	-104.222709700	1/1/1900	[73160] BURTON FLAT, ATOKA (GAS); [73280] BURTON FLAT, MORROW (PRO GAS); [73440] BURTON FLAT, STRAWN, WEST (GAS)
20877	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.5001411000	-104.208770800	1/1/1900	[11590] CEDAR HILLS, YATES
21073	AVALON HILLS A00 FEDERAL COM #001	G	P	EDG Y RESOURCES, INC.	11420	32.4889336000	-104.231018100	5/14/1985	[73360] BURTON FLAT, STRAWN (PRORATED GAS)
21208	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	0	32.4962807000	-104.227150000	1/1/1900	-
21288	FEDERAL 12 COM #001	G	P	LINN OPERATING, LLC.	99999	32.4997520000	-104.239540100	12/31/9999	-
21525	KURLAND FEDERAL #001	G	A	DEVON ENERGY PRODUCTION COMPANY, LP	11380	32.5070801000	-104.230972300	8/27/1975	-
21814	AVALON FEDERAL #001	G	A	FASKEN OIL & RANCH LTD	11450	32.5037384000	-104.238533000	5/17/1976	-
22080	GUACAMAYO STATE #001	O	P	PREMIER OIL & GAS INC	4700	32.5036163000	-104.223762500	11/27/1994	-
23098	FEDERAL 8 #001	G	A	H L BROWN OPERATING, LLC	99999	32.4964447000	-104.218429600	12/29/1979	-
23427	PRE-ONGARD WELL #002	O	C	PRE-ONGARD WELL OPERATOR	0	32.4959555577	-104.218465406	12/31/9999	-
24511	PRE-ONGARD WELL #001	O	C	PRE-ONGARD WELL OPERATOR	0	32.5145318402	-104.222598459	12/31/9999	-
24512	PRE-ONGARD WELL #002	O	C	PRE-ONGARD WELL OPERATOR	0	32.5072641946	-104.222995390	12/31/9999	-
24565	PRE-ONGARD WELL #021	O	C	PRE-ONGARD WELL OPERATOR	0	32.5065679521	-104.209792663	12/31/9999	-
24566	YATES C FEDERAL #031	G	A	XTO ENERGY, INC	11590	32.5069809000	-104.209754900	9/16/1983	-
24847	KURLAND A FEDERAL #001	G	P	DEVON ENERGY PRODUCTION COMPANY, LP	99999	32.5142860000	-104.235244800	2958465	-
26056	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	0	32.4917107000	-104.218429600	1/1/1900	-
30178	MOO COW STATE #001	G	A	PREMIER OIL & GAS INC	11531	32.5103493000	-104.222633400	4/26/1998	-
33101	COLTON 7 FEDERAL #001	G	A	CIMAREX ENERGY CO. OF COLORADO	11521	32.4981689000	-104.232276900	7/14/2005	-
34468	AVALON HILLS 7 FEDERAL COM #003	G	P	DEVON ENERGY PRODUCTION COMPANY, LP	10427	32.4901543000	-104.222709700	12/31/9999	-
35220	FEDERAL 8 COM #002C	G	C	H L BROWN OPERATING, LLC	0	32.49189594480	-104.21815802500	12/31/9999	-
35583	AVALON HILLS 7 FEDERAL COM #004	G	A	DEVON ENERGY PRODUCTION COMPANY, LP	11560	32.48867420000	-104.22173310000	4/27/2007	-
44076	ROSCOE 6 B3HE FEDERAL COM #001H	G	N	MEWBOURNE OIL CO	0	32.5167089600	-104.220881950	12/31/9999	[70860] AVALON, BONE SPRING (GAS)




Texas Ranger 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
01/T21S/R26E	A,H,I,J,O,P	FASKEN OIL & RANCH LTD				6101 HOLIDAY HILL ROAD	MIDLAND TX 79707
	A,H		PNADL & GUSSMAN LLC			15 E 5TH ST STE 3200	TULSA OK 741034340
	I,J,O,P		FASKEN ACQUISITIONS O2 LTD			6101 HOLIDAY HILL RD	MIDLAND TX 797071831
12/T21S/R26E	H,I	NAUMANN OIL & GAS INC				P.O. BOX 10159	MIDLAND, TX 79702
12/T21S/R26E	A,B,G,H	-	XTO HOLDINGS LLC			22777 SPRINGWOODS VILLAGE PKWY	SPRING TX 773891425
12/T21S/R26E	I	-	NAUMANN OG INC			PO BOX 10159	MIDLAND TX 79702
05/T21S/R27E	O	TRINITY RESOURCES LLC				11438 LOVINGTON HIGHWAY	ARTESIA, NM 88210
	J,K,L,M,N,O	XTO ENERGY INC				8401 HOLIDAY HILL ROAD BUILDING #5	MIDLAND, TX 79707
	C,D,E,F,G,H,I,J,K,L,M,N,O		XTO HOLDINGS LLC			22777 SPRINGWOODS VILLAGE PKWY	SPRING TX 773891425
06/T21S/R27E	C,C,D,D,E,F,K,L,M,N	DEVON ENERGY PRODUCTION COMPANY, LP				20 N BROADWAY	OKLAHOMA CITY, OK 73102
	A,B,C,D	MEWBOURNE OIL CO				P.O. BOX 5270	HOBBS, NM 88241
	A,B,G,H,I,J,O,P	PREMIER OIL & GAS INC				P.O. BOX 1246	ARTESIA, NM 88211-1246
	C,D	-	XTO HOLDINGS LLC			22777 SPRINGWOODS VILLAGE PKWY	SPRING TX 773891425
	C,D,E,F,L,K,M,N	-	DEVON ENERGY PROD CO LP			333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
	G,H	-	XTO HOLDINGS, LLC			LAND DEPT. LOC. 115. 22777 SPRINGWOODS VILLAGE PKWY	SPRING, TX 773891425
	A,B,G,H,I,J,O,P	-	PREMIER OIL & GAS INC			801 WATERFALL WAY, SUITE 201	RICHARDSON, TX 75080
07/T21S/R27E	A,B,C,D,E,F,G,H	CIMAREX ENERGY CO OF COLORADO				600 N MARIENFELD STREET SUITE 600	MIDLAND, TX 79701
	I,J,K,L,M,N,O,P	DEVON ENERGY PRODUCTION COMPANY, LP				20 N BROADWAY	OKLAHOMA CITY, OK 73102
	A,B,H,I,P		XTO HOLDINGS LLC			22777 SPRINGWOODS VILLAGE PKWY	SPRING TX 773891425
	D,E,F,G,J,K,L,M,N,O		DEVON ENERGY PROD CO LP			333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
	C		CIMAREX ENERGY CO OF COLORADO			600 N MARIENFELD ST STE 600	MIDLAND, TX 797014405
08/T21S/R27E	C,D,E,F	H L BROWN OPERATING, LLC				P.O. BOX 2237	MIDLAND, TX 79702
	C,D,E,F	-	PRU-BACHE ENE VP18			PO BOX 10	ROSWELL, NM 88202
	C,D,E,F	-	VIKING OG EXPL CO			1875 BROADWAY #2750	DENVER CO 80202
	C,D,E,F	-	MARK SHIDLER INC			PO BOX 10	ROSWELL, NM 88202
	C,D,E,F	-	BASIN PETROLEUM CO			PO BOX 10	ROSWELL, NM 882020010
	C,D,E,F	-	SOOL LTD			PO BOX 2237	MIDLAND TX 79702
	K,L,M,N	-	H L BROWN JR			PO BOX 2237, 300 W LOUISIANA	MIDLAND, TX 79702
Surface Location:			STATE LAND OFFICE		KIMBLEY, NATALIE K	2003 GWENDA	CARLSBAD, NM 88220



**Owner:** DEKALB AGRICULTURAL ASSN. INC.

## Documents on File

			Status		From/					
Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive	
 <a href="#">get images</a>	465105	CLOSE	1956-09-14	CLS	CLS	RENUM O-2-E-38	T	0	0	0

### Place of Use

[illegible]

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.



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 00377 Subbasin: CUB Cross Reference: -  
Primary Purpose: CLS CLOSED FILE  
Primary Status: CLS CLOSED FILE  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: DEKALB AGRICULTURAL ASSN. INC.

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
465109	CLOSE	1956-09-14	CLS	CLS	RENUM O-2-E-37	T	0	0	0

### Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other	Location	Desc
256	64	16	4												
							0	0	0	CLS					OIL WELL - NO PLACE OF USE



# *New Mexico Office of the State Engineer* **Water Right Summary**



**WR File Number:** C 00382

**Subbasin: CUB**

**Cross Reference:-**

**Primary Purpose:** CLS      CLOSED FILE

**Primary Status:** CLS    CLOSED FILE

**Total Acres:**


**Subfile:** \_\_\_\_\_

**Total Diversion: 0**

**Cause/Case: -**

**Owner:** DEKALB AGRICULTURAL ASSN. INC.

## Documents on File

				Status			From/			
Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive	
 <a href="#">get images</a>	465118	CLOSE	1956-09-14	CLS	CLS	RENUM O-2-E-40	T	0	0	0

### Place of Use

Q	Q	Q	Q
256	64	16	4
SecTws	Rng	Acres	Diversion
		0	0
CU	Use	Priority	Status Other Location Desc
0	CLS		CLS OIL WELL - NO PLACE OF USE



# New Mexico Office of the State Engineer

## Water Right Summary



**WR File Number:** C 01333      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Owner:** HUMBLE OIL & REFINING COMPANY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
463034	72121	1966-04-28	PMT	LOG	C 01333	T			3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	6416	4	Sec	Tws	Rng	X	Y	Other Location Desc
<u>C 01333</u>		Shallow	1	1	4	05	21S	27E			574128	3597045*	

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



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03292 Subbasin: C Cross Reference: -  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: EXP EXPIRED  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: DAVID MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
468630	72121	2006-06-20	EXP	EXP	C 03292	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	Sec	Tws	Rng	X	Y	Other Location Desc
C 03292			4	3	4	06	21S	27E	572716	3596407*	ED

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



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03388

Subbasin: C

Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: EXP EXPIRED

Total Acres:

Subfile: -

Total Diversion: 0

Cause/Case: -

Owner: PARKER KIMBLEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
469680	72121	2008-08-21	EXP	EXP	C 03388	T		3	

### Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q	64 16 4	Sec	Tws	Rng	X	Y	Other Location Desc
C 03388 POD1			3 3 3	06	21S	27E		571657	3596378	

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.



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03611 Subbasin: C Cross Reference: -  
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	520186	72121	2013-01-18	EXP	EXP	C-3611 OWD	T		3

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	64 16 4	Sec	Tws	Rng	X	Y	Other Location Desc
<u>C 03611 POD1</u>			3	3	4	06	21S	27E		572569	3596470	OWD



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03629 Subbasin: CUB Cross Reference: -  
Primary Purpose: EXP EXPLORATION  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER & LAND SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
526517	EXPL	2013-04-22	PMT	APR	C-3629 EXPL	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	Sec	Tws	Rng	X	Y	Other Location Desc
C 03629 POD1			3	1	2	06	21S	27E	572592	3597563	SUBDIVISION



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03630 Subbasin: CUB Cross Reference: -  
Primary Purpose: SUB SUBDIVISION  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER & LAND SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
526523	EXPL	2013-04-22	PMT	APR	C-3630 EXPL	T	0	0	

### Current Points of Diversion

POD Number Well Tag Source **Q Q Q** (NAD83 UTM in meters)  
C 03630 POD1 6416 4 Sec Tws Rng X Y Other Location Desc  
3 1 4 06 21S 27E 572582 3596888 SUBDIVISION



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03631 Subbasin: CUB Cross Reference: -  
Primary Purpose: SUB SUBDIVISION  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER & LAND SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	526531	EXPL	2013-04-22	PMT	APR C-3631 EXPL	T	0	0	

### Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q	6416 4 Sec Tws Rng	X	Y	Other Location Desc
<u>C 03631 POD1</u>			3 1 4	06 21S 27E	572587	3596821	SUBDIVISION

(NAD83 UTM in meters)





# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03632 Subbasin: CUB Cross Reference: -  
Primary Purpose: SUB SUBDIVISION  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER & LAND SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
526532	EXPL	2013-04-22	PMT	APR	C-3632 EXPL	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	64	16	4	Sec	Tws	Rng	X	Y	Other Location Desc
<u>C 03632 POD1</u>			1	3	4	06	21	S	27	E		572601	3596682	SUBDIVISION



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03633 Subbasin: CUB Cross Reference: -  
Primary Purpose: SUB SUBDIVISION  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 0 Cause/Case: -  
Owner: M & W WATER & LAND SALES  
Contact: JASON MALEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
526533	EXPL	2013-04-22	PMT	APR	C-3633 EXPL	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	6416 4 Sec Tws Rng	X	Y	Other Location Desc
C 03633 POD1			1	1	2	06 21S 27E	572593	3597812	SUBDIVISION



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03825 Subbasin: C Cross Reference: -  
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 1 Cause/Case: -  
Owner: MIKE CRAIG

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
559270	72121	2014-12-12	PMT	LOG	C 03825 POD1	T			1	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	6416 4 Sec Tws Rng	X	Y	Other Location Desc
C 03825 POD1		Shallow	3	1	2	06 21S 27E	572607	3597676	



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 03834 Subbasin: C Cross Reference: -  
Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 3 Cause/Case: -  
Owner: JAMES S WITT III  
Owner: FRANK O WITT  
Contact: JAMES S WITT III

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
561016	72121	2015-01-16	PMT	LOG	C 03834 POD1	T			3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	64	16	4	Sec	Tws	Rng	X	Y	Other Location Desc
C 03834 POD1		Shallow	4	2	1	06	21S	27E				572302	3597613	



# New Mexico Office of the State Engineer

## Water Right Summary




WR File Number: C 03835 Subbasin: C Cross Reference: -  
Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 3 Cause/Case: -  
Owner: DAVID K MERVINE  
Owner: JENNIFER MERVINE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
 561180	72121	2015-01-21	PMT	LOG	C 03835 POD1	T			3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	6416 4	Sec	Tws	Rng	X	Y	Other Location Desc
<u>C 03835 POD1</u>		Shallow	3	1	4	06	21S	27E		572605	3596913	



# New Mexico Office of the State Engineer

## Water Right Summary



get image list

WR File Number: C 04005

Subbasin: C

Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Total Diversion: 3

Cause/Case: -

Owner: KENDRA POTTER

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
 <a href="#">get images</a>	599650	72121	2016-12-02	PMT	APR C 04005	POD1	T		3	

### Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)		Other Location Desc
			6416	4	Sec Tws Rng	X	Y	
<u>C 04005 POD1</u>			2	3	2 06 21S 27E	572616	3597419	IN USGS CORRECTION LOT #15



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 04024 Subbasin: C Cross Reference: -  
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
Primary Status: PMT PERMIT  
Total Acres: Subfile: -  
Total Diversion: 3 Cause/Case: -  
Owner: CRAIG FANSHIER

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
628943	72121	2018-07-19	PMT	APR	C 04024 POD1	T		3	
603797	72121	2017-03-08	EXP	EXP	C 04024 POD1	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	6416 4 Sec	Tws	Rng	X	Y	Other Location Desc
C 04024 POD1			2	2	2	06	21S	27E	573024	3597735	



# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 04213

Subbasin: C

Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Total Diversion: 1

Cause/Case: -

Owner: KOVA CAPE

Contact: KOVA CAPE

Owner: DAVE CAPE

Contact: KOVA CAPE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
621884	72121	2018-03-20	PMT	LOG	C 04213 POD1	T			1	

### Current Points of Diversion

POD Number	Well Tag	Source	Q	Q	Q	6416 4	Sec	Tws	Rng	X	Y	Other Location Desc
C 04213 POD1	206C4	Shallow	4	3	4	06	21S	27E		572632	3596510	

(NAD83 UTM in meters)



**Texas Ranger SWD No. 1 - Offset Produced Water Analysis**

Well Name	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
RUSSELL USA #009	3001502356	13	20S	28E	O	EDDY	ARTESIA		81000						45500	684	4130	
RUSSELL USA #013	3001502361	13	20S	28E	O	EDDY	ARTESIA		29100						14400	658	3620	
WELCH FEDERAL #006	3001501068	5	21S	27E	O	EDDY	ARTESIA		10050						4050	9	2533	
WELCH FEDERAL #003	3001501069	5	21S	27E	P	EDDY	ARTESIA		11250						4553	936	2281	
EXXON STATE #001	3001501091	15	21S	27E	J	EDDY	ARTESIA		11800						5250	336	2150	
COLT FEDERAL #001	3001527288	4	20S	28E	P	EDDY	BONE SPRING	6.58	1594.98	1286	8	127	0.5		65	93	5	
COLT FEDERAL #001	3001527288	4	20S	28E	P	EDDY	BONE SPRING	7.22	6037.86	2217.84	26.104	36.144	6.024		3352.36	220.88	141.564	
ROOKIE STATE #001	3001510060	7	22S	26E	B	EDDY	BONE SPRING		67985						39150	61	1148	
BURTON FLAT DEEP UNIT #052H	3001540693	3	21S	27E	H	EDDY	BONE SPRING 1ST SAND	6.72	155191.3	53329	1222	13	315	0.7	97600	658.8	725	240
BURTON FLAT DEEP UNIT #052H	3001540693	3	21S	27E	H	EDDY	BONE SPRING 1ST SAND	6.78	173977.9	61147	1147	7.5	299	0.4	108457	793	667	
BURTON FLAT DEEP UNIT #051H	3001540681	3	21S	27E	A	EDDY	BONE SPRING 1ST SAND	7.3	190277.3	71261.7	1111	11.5	299	0	114751.2	634	0	260
BURTON FLAT DEEP UNIT #055H	3001540682	3	21S	27E	A	EDDY	BONE SPRING 1ST SAND	7	175293.2	60700.8	1015.4	21.3	279.1	0	110483.2	793	0	330
BURTON FLAT DEEP UNIT #049H	3001540707	3	21S	27E	A	EDDY	BONE SPRING 1ST SAND	7	192123.7	72088.7	1374.2	54.3	373.3	0	113742.1	2200	0	3.6
BURTON FLAT DEEP UNIT #054H	3001540503	2	21S	27E	L	EDDY	BONE SPRING 2ND SAND	7.3	214072.7	66538.1	12714.3	48.2	1761.4	1.29	129855.2	671	0	360
LONE TREE DRAW 13 STATE #007H	3001541650	13	21S	27E	C	EDDY	BONE SPRING 2ND SAND	6.9	210720.3	68253.3	12837.8	48.5	1788.7	1.48	125168.4	183	0	4.1
LONE TREE DRAW 13 STATE #007H	3001541650	13	21S	27E	C	EDDY	BONE SPRING 2ND SAND	6.7	191807.5	57602.5	11751.7	38	1581.6	1.42	118330	158.6	0	40
LONE TREE DRAW 13 STATE COM #002H	3001540372	13	21S	27E	D	EDDY	DELAWARE-BRUSHY CANYON	7	207014.4	49363.9	23129	37	3612	10	127509	183	1724	300
LONE TREE DRAW 13 STATE COM #002H	3001540372	13	21S	27E	D	EDDY	DELAWARE-BRUSHY CANYON	6.9	234863.1	59083.5	26546.3	27	4191.8	10.33	142662.1	159	0	3
LONE TREE DRAW 13 STATE COM #004H	3001540522	13	21S	27E	B	EDDY	DELAWARE-BRUSHY CANYON	5.89	241475.8	61967.4	28031.6	29.3	4407.4	10.3	144690.2	76.5	0	3.9
LONE TREE DRAW 13 STATE #003H	3001541134	13	21S	27E	C	EDDY	DELAWARE-BRUSHY CANYON	7.1	239078.6	60109.4	27296.2	30.7	4313.7	10.16	144881.5	220	0	4
LONE TREE DRAW 13 STATE COM #005	3001541135	13	21S	27E	A	EDDY	DELAWARE-BRUSHY CANYON	7	245934.8	62907.6	28628.2	28.2	4488.6	10.56	147320.7	244	0	4
N CEDAR HILLS #001	3001510817	5	21S	27E	J	EDDY	CAPITAN		27900						13600	588	3800	
N CEDAR HILLS #001	3001510817	5	21S	27E	J	EDDY	CAPITAN		27400						13200	630	3880	
N CEDAR HILLS #001	3001510817	5	21S	27E	J	EDDY	CAPITAN		28000						13800	626	3690	
N CEDAR HILLS #001	3001510817	5	21S	27E	J	EDDY	CAPITAN		28200						14000	636	3570	
N CEDAR HILLS #001	3001510817	5	21S	27E	J	EDDY	CAPITAN		28700						14800	646	3040	
PECOS RIVER DEEP UNIT #001	3001510051	28	19S	27E	F	EDDY	MORROW		19307						9384	859	2122	
MIDWEST L FEDERAL GAS COM #001	3001520828	34	22S	26E	K	EDDY	MORROW	6.2	179513						109000	161	1800	
MIDWEST L FEDERAL GAS COM #001	3001520828	34	22S	26E	K	EDDY	MORROW	6.3	180083						109000	210	1900	
SEVEN RIVERS #029	3001505919	29	20S	26E	H	EDDY	SAN ANDRES		102968						57510	1789	4814	
SEVEN RIVERS #029	3001505919	29	20S	26E	H	EDDY	SAN ANDRES		120793						68800	2752	3655	
SEVEN RIVERS #029	3001505919	29	20S	26E	H	EDDY	SAN ANDRES		117506						66650	2236	3655	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	TANSILL	6.8	3237		228		56		130	120	2122	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	TANSILL	6.8		581	228		56		130	120	2122	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	TANSILL	6.8	3728	580	570		230		130	98	2120	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	WOLFCAMP	6.7	55965						32400	252	2260	
STATE AC COM #001	3001522299	21	20S	28E	J	EDDY	WOLFCAMP	7	40785						24300	688	44	
STATE AC COM #001	3001522299	21	20S	28E	J	EDDY	WOLFCAMP	5.1	144926						87600	37	1350	
STATE AC COM #001	3001522299	21	20S	28E	J	EDDY	WOLFCAMP	6.2	41597						25000	449	76	
STATE AC COM #001	3001522299	21	20S	28E	J	EDDY	WOLFCAMP	6.2	43441						26100	446	100	

# CARLSBAD CURRENT-ARGUS

## AFFIDAVIT OF PUBLICATION


Ad No.  
0001278781

LONQUIST FIELD SERVICE  
1001 MCKINNEY ST., SUITE 1650

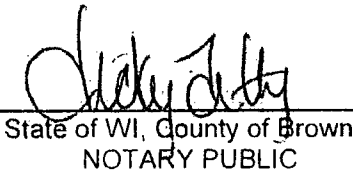
HOUSTON TX 77002

I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

03/01/19

  
Legal Clerk

Subscribed and sworn before me this  
1st of March 2019.

  
State of WI, County of Brown  
NOTARY PUBLIC

  
My Commission Expires

### Legal Notice

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Texas Ranger SWD No. 1. The proposed well will be located 200' FSL & 1,580' FEL in Section 6, Township 21S, Range 27E in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Siluro-Devonian formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 12,333 feet to a maximum depth of 14,133 feet. The maximum surface injection pressure will not exceed 2,467 psi with a maximum rate of 40,000 BWPD. 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) 600-1774.

March 1, 2019

Ad#:0001278781  
P O : Texas Ranger  
# of Affidavits :0.00

