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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. 20588

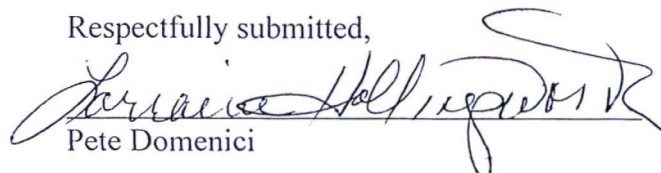
APPLICATION

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 Clara Allen SWD #1, located 500 feet FNL and 2,200 feet FWL in Unit C, Section 7, Township 20 South, Range 29 East, NMPM, Eddy County, New Mexico.
2. Solaris seeks authority to inject salt water into the Devonian-Silurian at a depth of 12,475 to 14,275 feet.
3. Form C-108, dated March 7, 2019, is attached hereto as Exhibit A.
4. The granting of this application with prevent waste and protect correlative rights.
5. A Proposed Advertisement is attached hereto.

WHEREFORE, Solaris requests that this application be set for hearing before an Examiner of the Oil Conservation Division on July 11, 2019, and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,


Pete Domenici

Lorraine Hollingsworth
320 Gold Ave. SW, Suite 1000
Albuquerque, New Mexico 87102
505-883-6250
pdomenici@domenicilaw.com
lhollingsworth@domenicilaw.com
Attorneys for Solaris Water Midstream, LLC

PROPOSED ADVERTISEMENT

CASE NO. 20588. **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 formation at depths of 12,475 to 14,275 feet through the Clara Allen SWD #1 well, located 500 feet FNL and 2,200 feet FWL in Unit C, Section 7, Township 20 South, Range 29 East, NMPM, Eddy County, New Mexico.

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

March 7, 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

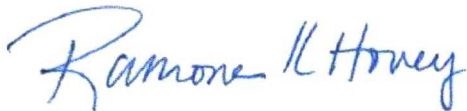
RE: CLARA ALLEN SWD NO. 1 AUTHORIZATION TO INJECT

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") Clara Allen 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



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: Clara Allen 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

Ramona K Hovey

Signature

Date

(512) 600-1777

Phone Number

ramona@lonquist.com

e-mail Address

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: 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.

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: Clara Allen SWD No. 1

WELL LOCATION: 500 FNL 2,200 FWL
FOOTAGE LOCATION

C
UNIT LETTER

7
SECTION

20S
TOWNSHIP

29E
RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 18.125"

Casing Size: 16.00"

Cemented with: 393 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Intermediate Casing

Hole Size: 14.750"

Casing Size: 13.375"

Cemented with: 439 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with: 2,952 sx.

or _____ ft³

Top of Cement: surface

Method Determined: circulation

Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 411 sx.

or _____ ft³

Top of Cement: 10,000'

Method Determined: calculation

Total Depth: 14,275'

Injection Interval

12,475 feet to 14,275 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 9,950' and 5", 18 lb/ft, HCL-80 LTC from 9,950' – 12, 425'

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: 12,425'

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:

Delaware: 3,520'

Bone Spring: 5,360'

Wolfcamp: 9,100'

Strawn: 10,220'

Atoka: 10,500'



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	Clara Allen SWD
Well No.	1
Location	S-7 T-20S R-29E
Footage Location	500' FNL & 2,200' FWL

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	805'	2,412'	10,200'	10,000'-12,475'

b. Cementing Program

Cement Information					
Casing String	Conductor	Surface	Intermediate	Production	Liner
Lead Cement	EXTENDACEM™	HALCEM™	HALCEM™	HALCEM™	NeoCem™
Lead Cement Volume (sacks)	249	356	439	Stage 1: 1,342 Stage 2: 1,024 Stage 3: 586	411
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	393	439	2,952	411
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"
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 - 9,950' 9,950' - 12,425'

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: 12,475'-14,275'**

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	3,520'
Bone Spring	5,360'
Wolfcamp	9,100'
Strawn	10,220'
Atoka	10,500'

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: 1,871 PSI (surface pressure)
Maximum Injection Pressure: 2,495 PSI (surface pressure)

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

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Salado (Top of Salt)	470'
Salado (Bottom of Salt)	785'
Yates	995'
Seven Rivers	1,330'
San Andreas	2,362'
Delaware	3,520'
Bone Spring	5,360'
Bone Spring 1 st Sand	6,215'
Bone Spring 2 nd Sand	6,825'
Bone Spring 3 rd Sand	8,350'
Wolfcamp	9,100'
Cisco	9,880'
Strawn	10,220'
Atoka	10,500'
Morrow	10,730'
Barnett	11,450'
Devonian	12,475'

B. Underground Sources of Drinking Water

Two (2) water wells exist within one-mile of the proposed well. Across the area, fresh water wells are usually drilled between 50' and 300' in depth. Water depths range from 22' – 140'. 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 through the Salado salt at 805'.

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 two (2) water wells that exist within one-mile of the well location. Samples from the well have been 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 CP-00926-POD1 and the CP-01201-POD1 water wells.

District I

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

District II

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

District III

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

District IV

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

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources**Oil Conservation Division**
☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

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

¹ Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643
		³ API Number 30-025-TBD
⁴ Property Code	⁵ Property Name CLARA ALLEN SWD	⁶ Well No. 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	7	20S	29E		500	N	2,200	W	EDDY

⁸ Proposed Bottom Hole Location

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

⁹ Pool Information

Pool Name	Pool Code
SWD: Silurian-Devonian	97869

Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3,282'
¹⁶ Multiple N	¹⁷ Proposed Depth 14,275'	¹⁸ Formation Silurian-Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 100'		Distance from nearest fresh water well 4,911'		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	18.125"	16"	84 lb/ft	805'	393	Surface
Intermediate	14.75"	13.375"	68 lb/ft	2,412'	439	Surface
Production	12.25"	9.625"	53.5 lb/ft	10,200'	2,952	Surface
Liner	8-1/2"	7-5/8"	39 lb/ft	10,000'-12,475'	411	10,000'
Tubing		5-1/2" & 5"	20 lb/ft & 18 lb/ft	0' - 9,950' & 9,950' - 12,425'	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:

Ramona K Hovey

Printed name: Ramona Hovey

Title: Consulting Engineer

E-mail Address: ramona@lonquist.com

Date: March 7, 2018

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) 746-1253 Fax: (575) 746-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3400 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	Pool Name
Property Code	Property Name CLARA ALLEN SWD	Well Number 1
OGRID No.	Operator Name SOLARIS WATER MIDSTREAM	Elevation 3282'

Surface Location

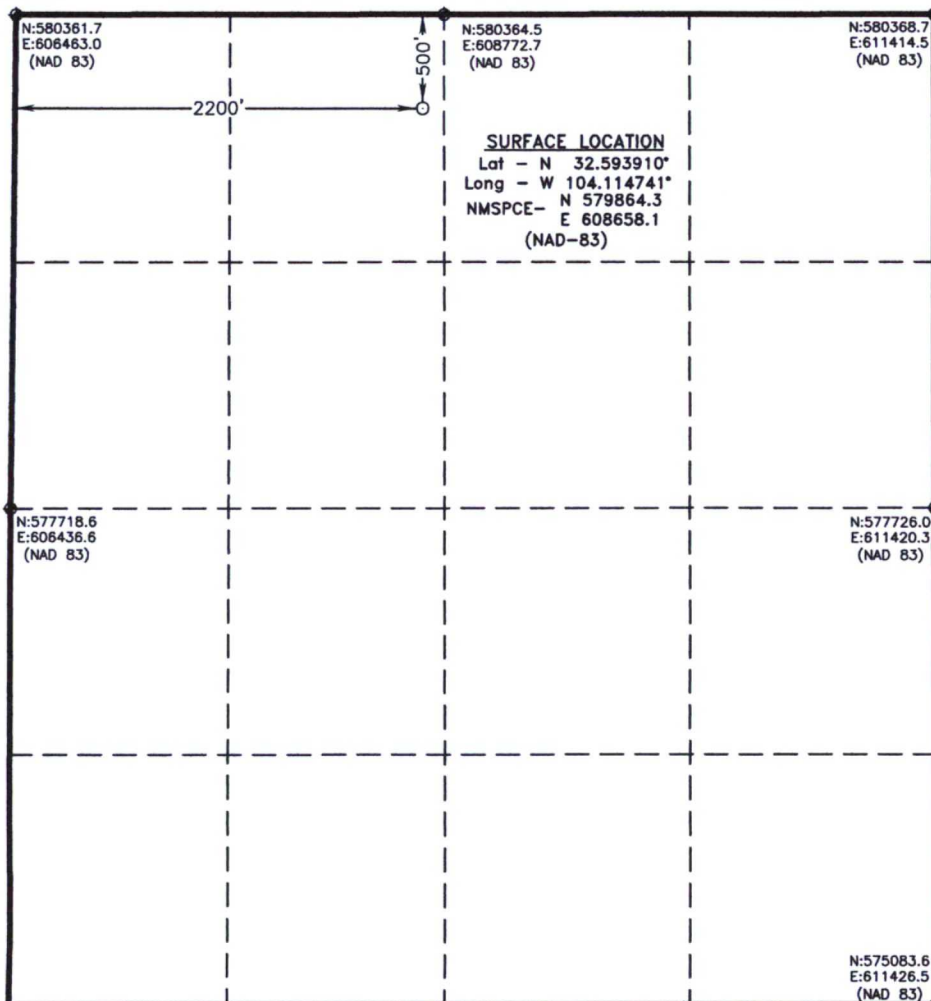
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	7	20 S	29 E		500	NORTH	2200	WEST	EDDY

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	Joint or Infill	Consolidation Code	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



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 *Ramona Hovey* Date

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.

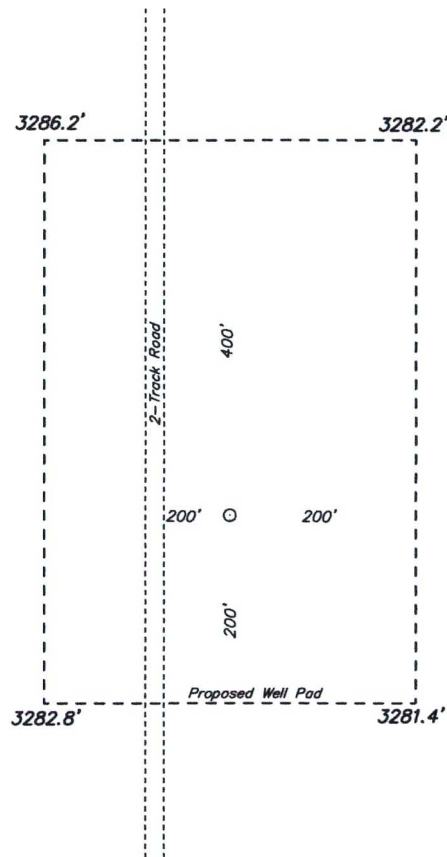
DECEMBER 6, 2018

Date Surveyed
Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977
State Surveyor

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34225

**SECTION 7, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**

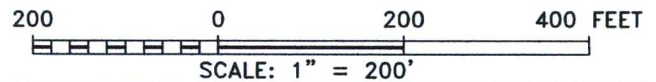


**CLARA ALLEN SWD #1
ELEV. - 3282'**

Lat - N 32.593910°
Long - W 104.114741°
NMSPCE - N 579864.3
E 608658.1
(NAD-83)



CARLSBAD, NM IS ±30 MILES TO THE NORTH OF LOCATION.



SOLARIS WATER MIDSTREAM

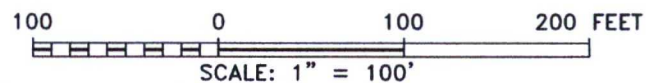
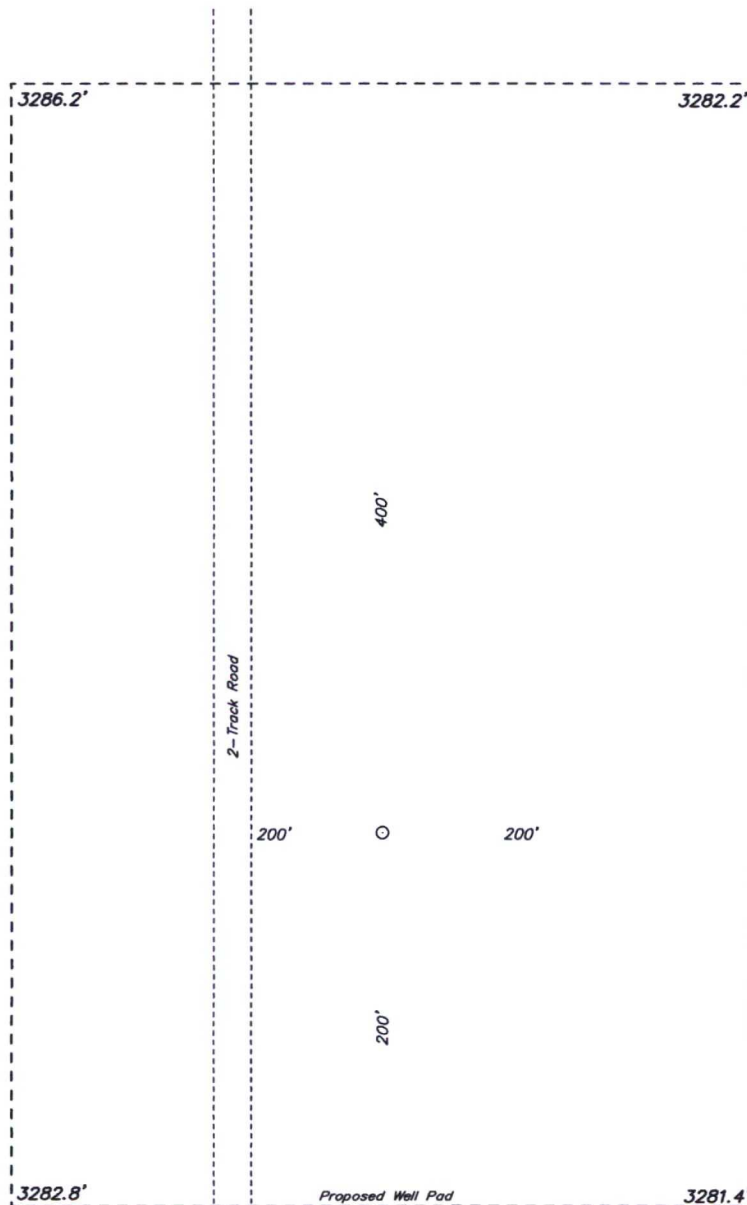
REF: CLARA ALLEN SWD #1 / WELL PAD TOPO

*THE CLARA ALLEN SWD #1 LOCATED 500' FROM
THE NORTH LINE AND 2200' FROM THE WEST LINE OF
SECTION 7, TOWNSHIP 20 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.*

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**SECTION 7, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



SOLARIS WATER MIDSTREAM

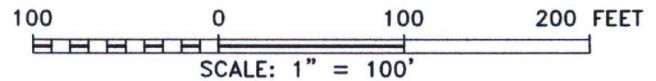
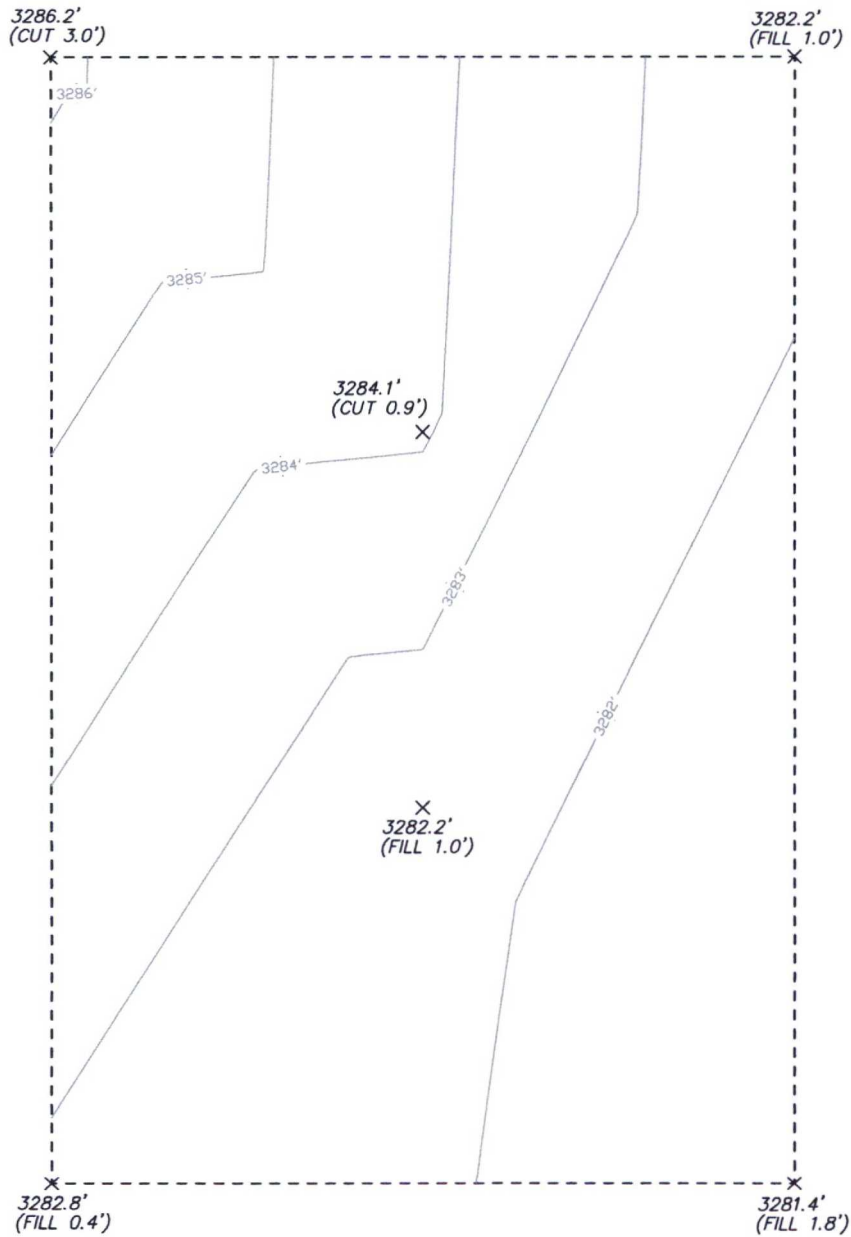
REF: CLARA ALLEN SWD #1 / WELL-PAD TOPO

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**SECTION 7, TOWNSHIP 20 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



SOLARIS WATER MIDSTREAM

REF: CLARA ALLEN SWD #1 / CUT & FILL

THE CLARA ALLEN SWD #1 LOCATED 500' FROM
THE NORTH LINE AND 2200' FROM THE WEST LINE OF
SECTION 7, TOWNSHIP 20 SOUTH, RANGE 29 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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W.O. Number: 34225 Drawn By: K. GOAD Date: 12-17-2018 Survey Date: 12-06-2018 Sheet 1 of 1 Sheets



CLARA ALLEN SWD #1

Located 500' FNL & 2200' FWL
 Section 7, Township 20 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.



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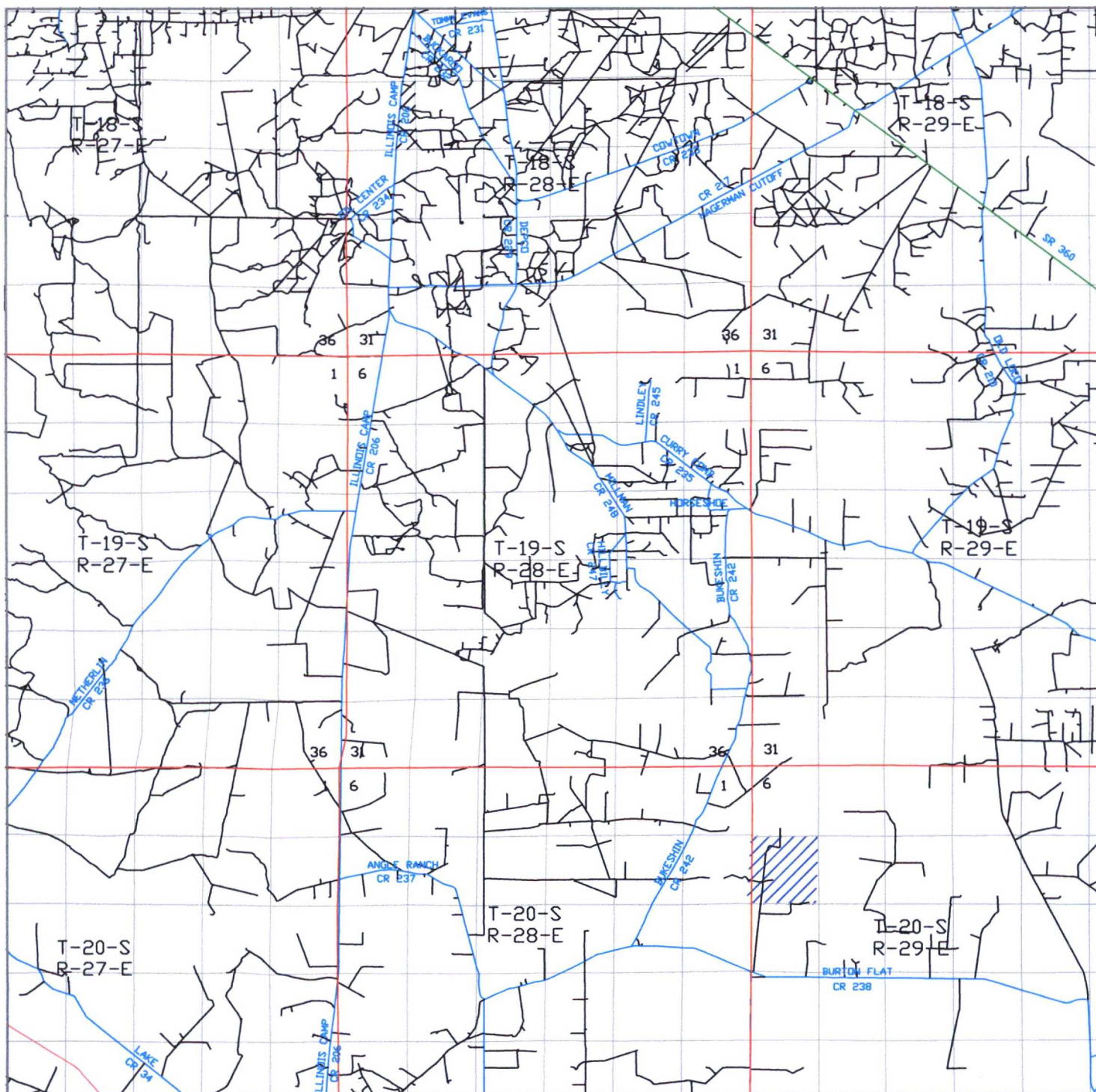
0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

W.O. Number: KJG - 34225

Survey Date: 12-06-2018

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND





CLARA ALLEN SWD #1

Located 500' FNL & 2200' FWL
Section 7, Township 20 South, Range 29 East,
N.M.P.M., Eddy County, New Mexico.



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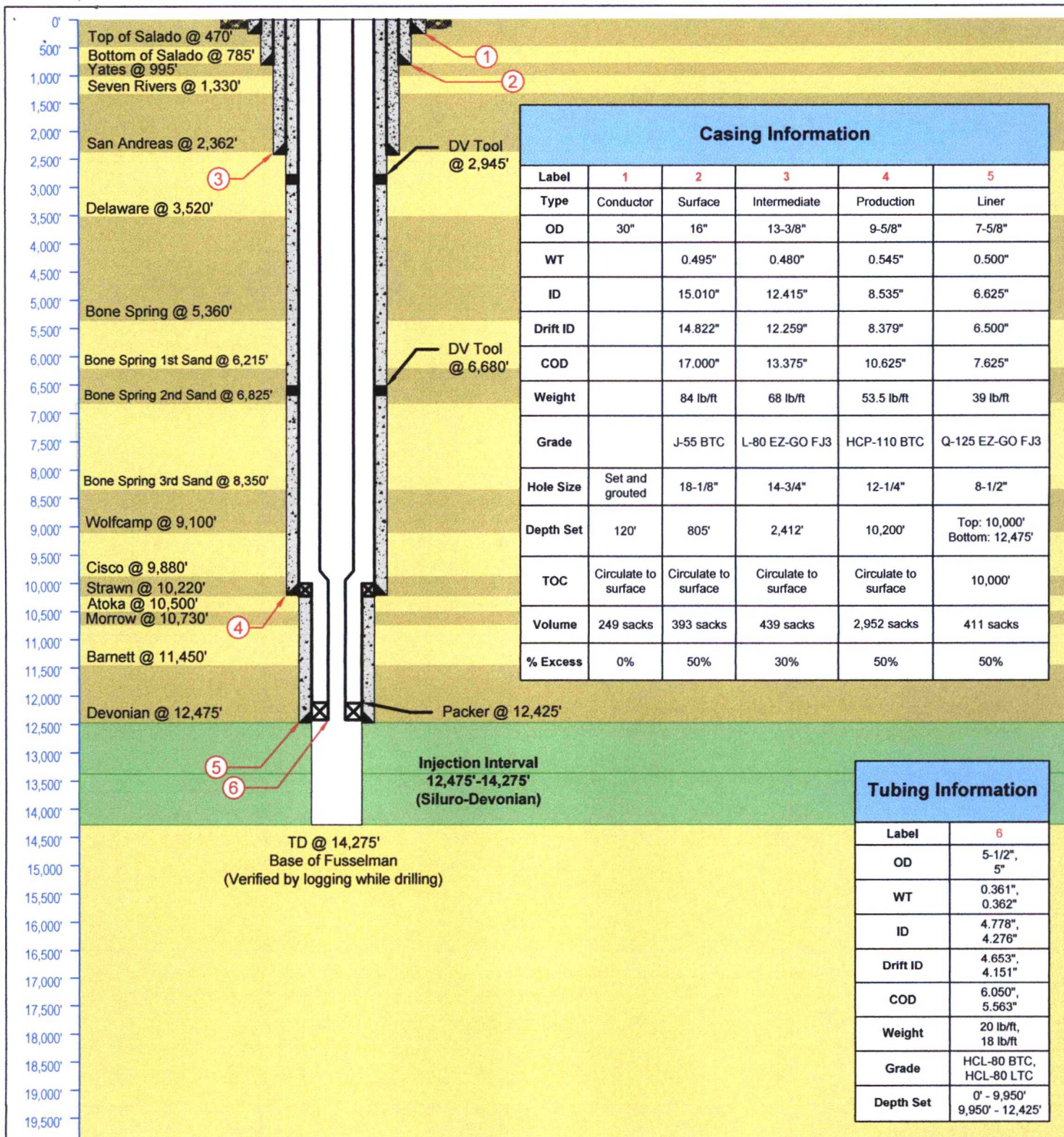
0 1 MI 2 MI 3 MI 4 MI
SCALE: 1" = 2 MILES

W.O. Number: KJG 34225

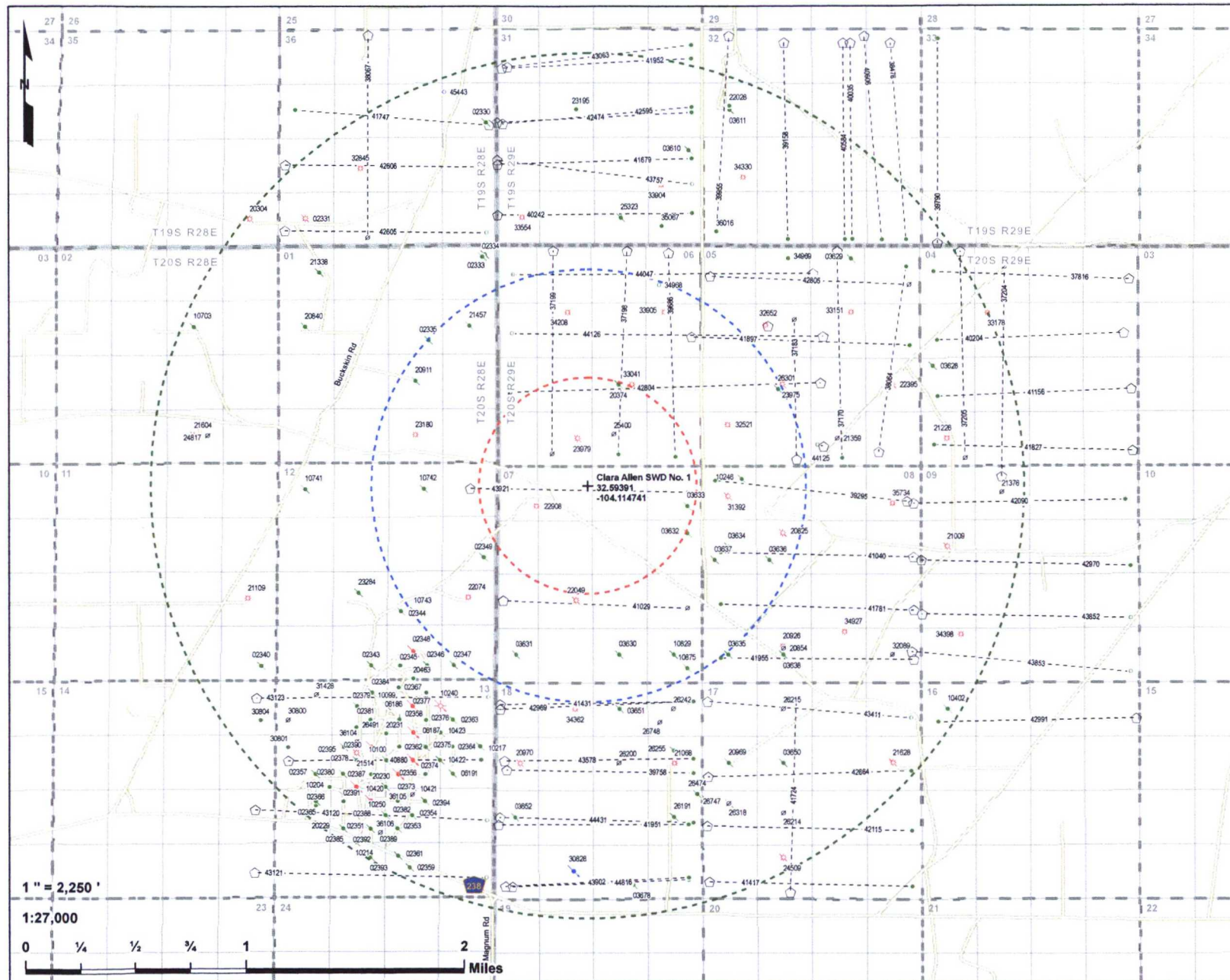
Survey Date: 12-06-2018

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND





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		Clara Allen SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy	
	Location:	Site: 500' FNL, 2,200' FWL	Survey: S7-T20S-R29E	
	API No: NA	Field: Silurian-Devonian (Code: 97869)	Well Type/Status: SWD	
	NMOCD District No: 2	Project No: 1916	Date: 3/5/2019	
	Drawn: TFM	Reviewed:	Approved:	
	Rev No: 1	Notes:		



Clara Allen SWD No. 1
2 Mile Area of Review
Solaris Water Midstream
Eddy County, NM

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

Drawn by: SJL Date: 2/28/2019 Approved by: CBW

LONGUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN HOUSTON WICHITA DENVER CALGARY

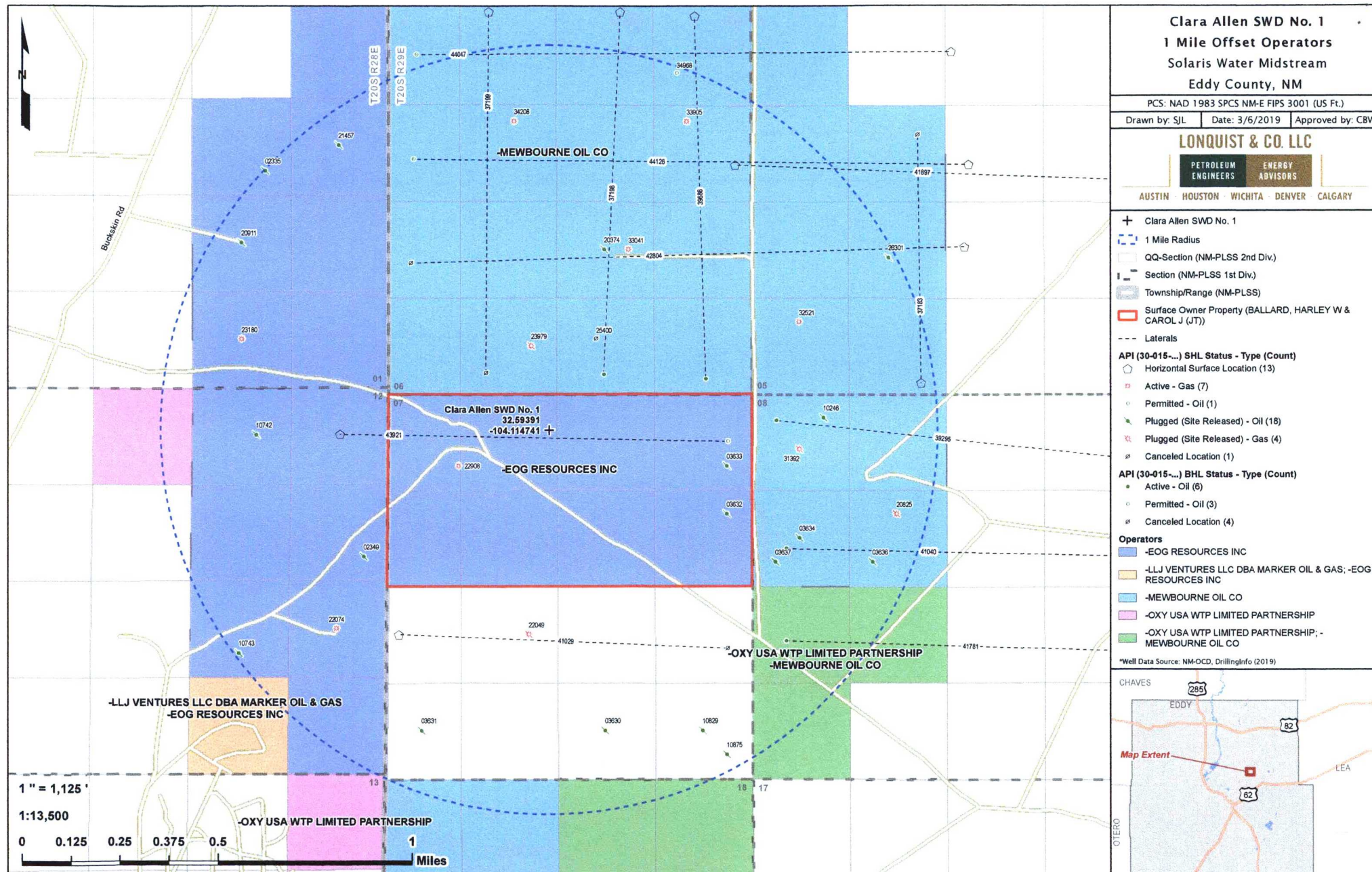
- + Clara Allen SWD No. 1
- 1/2 Mile Radius
- 1 Mile Radius
- 2 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Laterals
- API (30-015-...) SHL Status - Type (Count)**
 - Horizontal Surface Location (65)
 - Active - Oil (23)
 - Active - Gas (21)
 - Active - Salt Water Disposal (1)
 - Active - Injection (8)
 - Permitted - Oil (1)
 - Permitted - Salt Water Disposal (1)
 - Plugged (Site Released) - Oil (78)
 - Plugged (Site Released) - Gas (14)
 - Plugged (Site Released) - Injection (1)
 - Expired TA - Oil (1)
 - Canceled Location (17)
- API (30-015-...) BHL Status - Type (Count)**
 - Active - Oil (43)
 - Active - Gas (1)
 - Permitted - Oil (12)
 - Canceled Location (9)

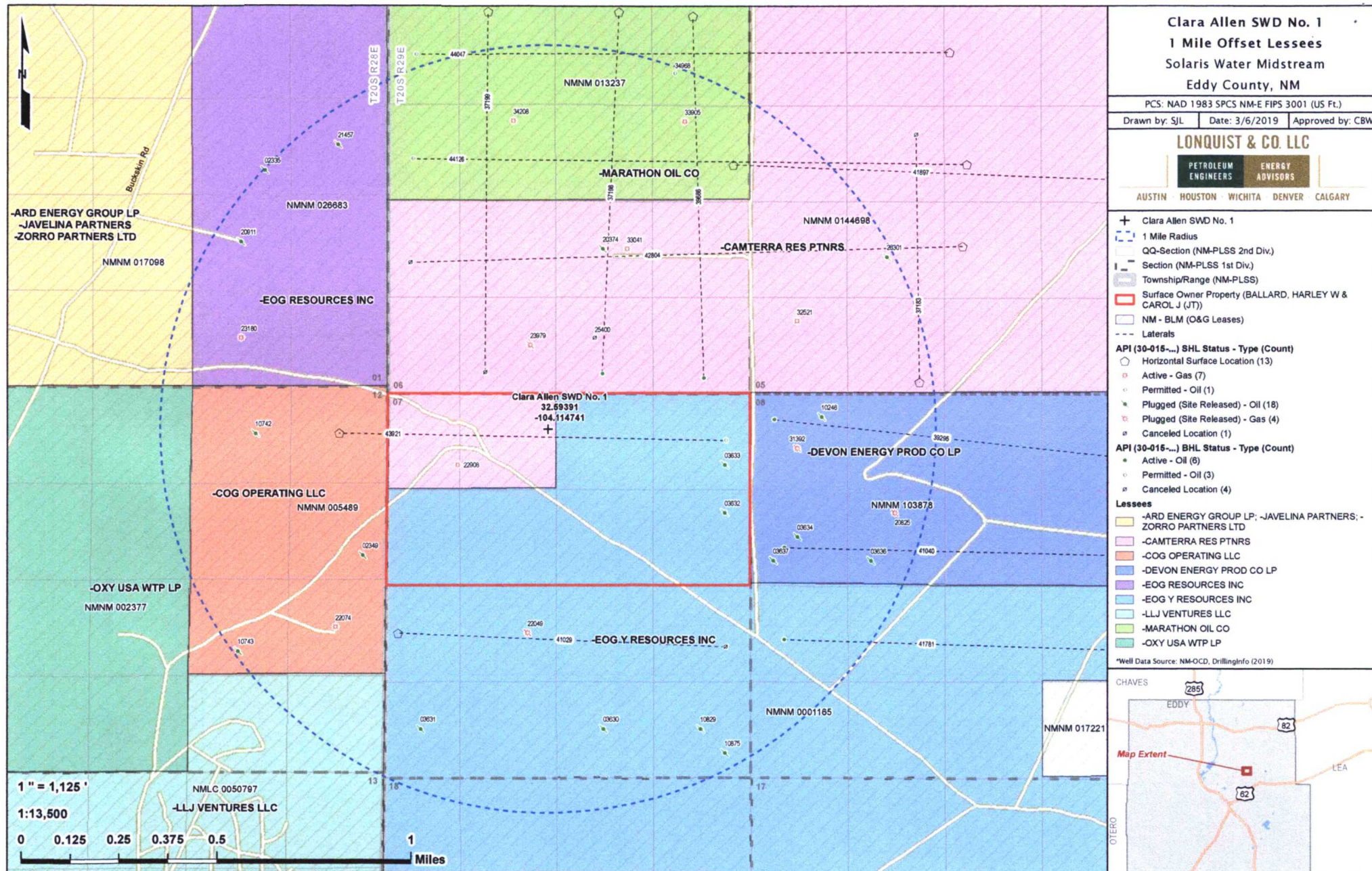
*Well Data Source: NM-ODD, DrillingInfo (2019)



Clara Allen 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
02355	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	NR	32.6037254000	-104.127304100	NR	
02369	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	NR	32.5891418000	-104.1229935000	NR	
03630	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	1055	32.5825729000	-104.112781800	4/15/1961	
03631	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	NR	32.5825768000	-104.120414700	NR	
03632	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	1195	32.5907326000	-104.106918300	5/27/1952	
03633	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	NR	32.5925484000	-104.106918300	NR	
03634	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	1597	32.5898209000	-104.103706400	NR	
03636	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	NR	32.5889053000	-104.100486800	NR	
03637	PRE-ONGARD WELL #003	O	P	PRE-ONGARD WELL OPERATOR	1190	32.5889168000	-104.104774500	NR	
10246	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	1201	32.59435217000	-104.102630600	8/24/1963	
10742	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	940	32.5937576000	-104.127731300	2/28/1966	
10743	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	895	32.5855293000	-104.128501900	2/29/1966	
10829	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	3890	32.5825691000	-104.107994100	5/24/1966	
10875	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	1172	32.5816612000	-104.106626000	10/6/1966	
20374	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	1352	32.6007195000	-104.112274200	1/29/1971	
20825	SUPERIOR FEDERAL COM #001	G	P	MARATHON OIL CO	11700	32.5907135000	-104.099418600	3/28/1973	[73200] BURTON FLAT, ATOKA, EAST (GAS)
20911	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	1174	32.6010170000	-104.128349300	7/28/1973	
21457	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	11415	32.6046867000	-104.124061600	2/9/1975	
22049	WILLIAMSON BC #004	G	P	EOG Y RESOURCES, INC.	11640	32.5862045000	-104.115631100	6/28/1977	[87680] WINCHESTER, UPPER PENN (GAS)
22074	MARALO HL FEDERAL COM #001	G	A	EOG Y RESOURCES, INC.	11700	32.5864410000	-104.124198900	3/24/1977	[73320] BURTON FLAT, MORROW, EAST (GAS)
22908	SUPERIOR KJ FEDERAL COM #001	G	A	EOG Y RESOURCES, INC.	11536	32.5925598000	-104.118751500	11/2/1994	[73200] BURTON FLAT, ATOKA, EAST (GAS); [73400] BURTON FLAT, STRAWN, EAST (GAS)
23180	ANTONGIOVANNI NJ FEDERAL #001	G	A	EOG Y RESOURCES, INC.	11663	32.5973854000	-104.128349300	3/1/1980	[73200] BURTON FLAT, ATOKA, EAST (GAS); [87600] WINCHESTER, MORROW (GAS)
23979	SUPERIOR FEDERAL #006	G	P	CIMAREX ENERGY CO. OF COLORADO	11600	32.5970917000	-104.115493800	12/19/1981	[73200] BURTON FLAT, ATOKA, EAST (GAS); [73320] BURTON FLAT, MORROW, EAST (GAS); [73400] BURTON FLAT, STRAWN, EAST (GAS)
25400	PRE-ONGARD WELL #007	O	C	PRE-ONGARD WELL OPERATOR	0	32.5973668566	-104.112631596	-	
26301	PRE-ONGARD WELL #007	O	P	PRE-ONGARD WELL OPERATOR	3600	32.6003914000	-104.099746700	3/26/1990	
31392	RUSSELL B FEDERAL #001	G	P	DEVON ENERGY PRODUCTION COMPANY, LP	11730	32.5931740000	-104.103706400	12/27/2000	[65010] WINCHESTER, BONE SPRING; [73200] BURTON FLAT, ATOKA, EAST (GAS); [73320] BURTON FLAT, MORROW, EAST (GAS)
32521	GATUNA CANYON 5 FEDERAL COM #001	G	A	MEWBOURNE OIL CO	11630	32.5979843000	-104.103698700	11/18/2002	[73200] BURTON FLAT, ATOKA, EAST (GAS); [73320] BURTON FLAT, MORROW, EAST (GAS)
33041	COLT 6 FEDERAL #001	G	A	MEWBOURNE OIL CO	11670	32.6007195000	-104.111206100	12/13/2003	[73200] BURTON FLAT, ATOKA, EAST (GAS); [73320] BURTON FLAT, MORROW, EAST (GAS)
33905	RUGER 6 FEDERAL #001	G	A	MEWBOURNE OIL CO	11570	32.6055450000	-104.108634900	2/23/2005	[73200] BURTON FLAT, ATOKA, EAST (GAS); [73320] BURTON FLAT, MORROW, EAST (GAS)
34208	RUGER 6 FEDERAL #002	G	A	MEWBOURNE OIL CO	11500	32.6055756000	-104.116233800	9/27/2005	[73320] BURTON FLAT, MORROW, EAST (GAS)
34968	RUGER 6 FEDERAL #003	O	N	MEWBOURNE OIL CO	0	32.6073647000	-104.109062200	-	[65010] WINCHESTER, BONE SPRING
37183	GATUNA CANYON 5 FEDERAL #004E	O	C	MEWBOURNE OIL CO	0	32.59566312920	-104.09830822000	-	[65010] WINCHESTER, BONE SPRING
37198	RUGER 6 FEDERAL COM #003H	O	A	MEWBOURNE OIL CO	8979	32.60968400000	-104.11154170000	4/15/2011	[65010] WINCHESTER, BONE SPRING
37199	RUGER 6 FEDERAL COM #005H	O	C	MEWBOURNE OIL CO	0	32.6097133392	-104.117345497	-	[65010] WINCHESTER, BONE SPRING
39295	THOMPSON 8 FEDERAL #002H	O	A	MEWBOURNE OIL CO	7883	32.59283070000	-104.08966830000	4/18/2012	[65010] WINCHESTER, BONE SPRING
39688	RUGER 6 FEDERAL COM #004H	O	A	MEWBOURNE OIL CO	9000	32.60953140000	-104.10817640000	1/24/2012	[65010] WINCHESTER, BONE SPRING
41029	WILLIAMSON BC FEDERAL #006H	O	C	EOG Y RESOURCES, INC.	0	32.5862083000	-104.121414200	-	[65010] WINCHESTER, BONE SPRING
41040	THOMPSON 8 FEDERAL #003H	O	A	MEWBOURNE OIL CO	7852	32.5890923000	-104.089157100	2/16/2013	[65010] WINCHESTER, BONE SPRING
41781	HENRY 8 IL FEDERAL #001H	O	A	MEWBOURNE OIL CO	7877	32.5855179000	-104.089157100	11/25/2013	[65010] WINCHESTER, BONE SPRING
41897	SAVAGE 5 EH FEDERAL #001H	O	A	MEWBOURNE OIL CO	6922	32.6038895000	-104.106491100	2/8/2014	[65010] WINCHESTER, BONE SPRING
42804	SIG 5 6 B2XL FEDERAL #001H	O	C	MEWBOURNE OIL CO	0	32.6007978187	-104.096381880	-	[65010] WINCHESTER, BONE SPRING
43921	WILLIAMSON BC FEDERAL COM #007H	O	N	EOG Y RESOURCES, INC.	0	32.3537580000	-104.077650000	-	[65010] WINCHESTER, BONE SPRING
44047	SIG 5 6 B2CD FEDERAL COM #001H	O	N	MEWBOURNE OIL CO	0	32.6081352800	-104.096945100	-	[65010] WINCHESTER, BONE SPRING
44126	SIG 5 6 B2FE FEDERAL COM #001H	O	N	MEWBOURNE OIL CO	0	32.6039010600	-104.096187833	-	[65010] WINCHESTER, BONE SPRING



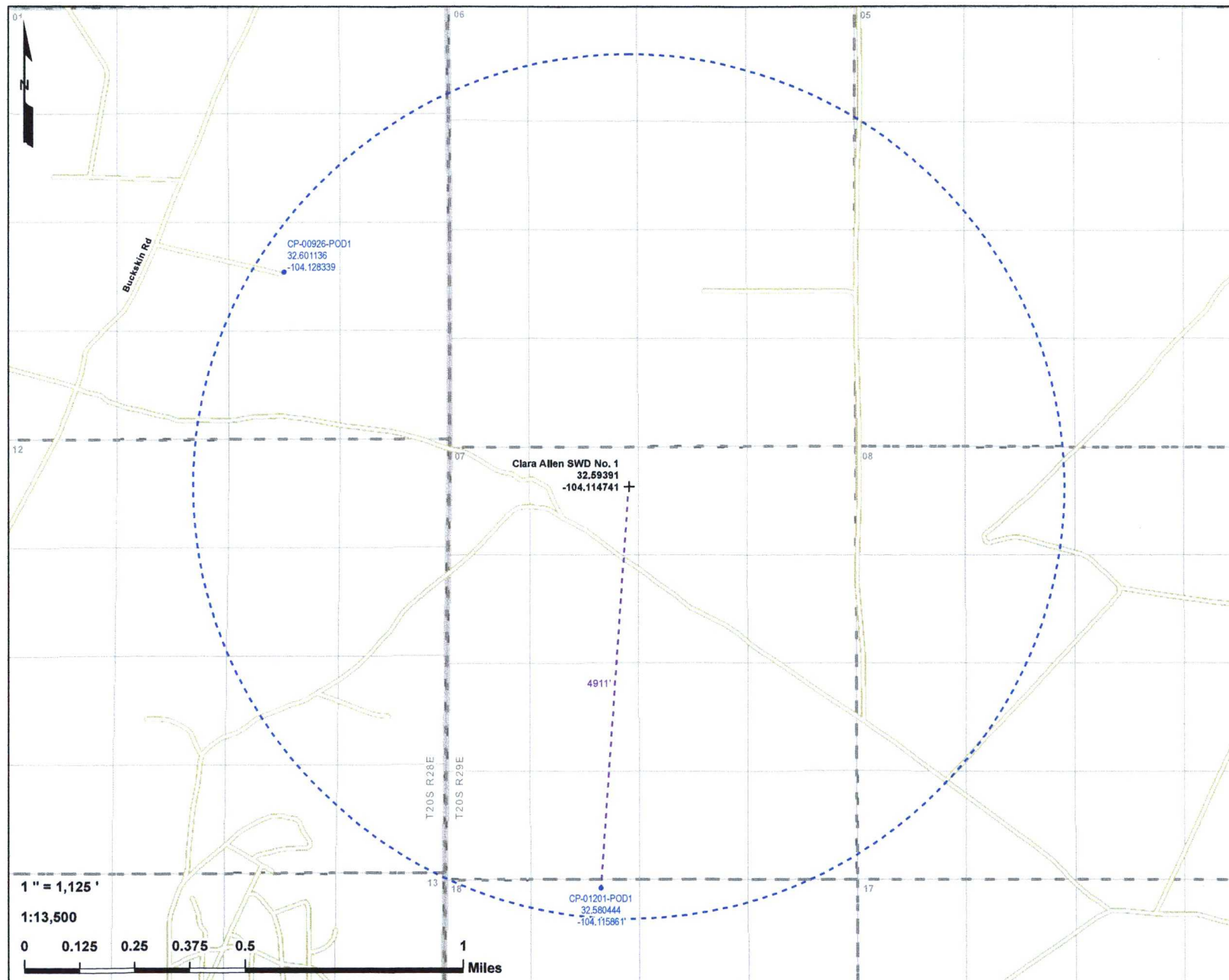


**Clara Allen SWD No. 1
1 Mile Offset Operators and Lessees List**

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
1/20S/28E	A,G,H,I,J,O,P	EOG RESOURCES INC	-	-	-	PO BOX 2287	MIDLAND, TX 79702
	K,N	-	ARD ENERGY GROUP LP	-	-	222 W 4TH ST PH 5	FORT WORTH, TX 76102
		-	JAVELINA PARTNERS	-	-	818 TEXAS ST	FORT WORTH, TX 76102
		-	ZORRO PARTNERS LTD	-	-	818 TEXAS ST	FORT WORTH, TX 76102
6/20S/28E	Entire Section	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
6/20S/28E	D,E,F,K,L,M,N	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
8/20S/28E	C,D,E,F	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
	K,L,M	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
		OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4294	HOUSTON, TX 77210
7/20S/28E	A,B,C,D,E,F,G,H	EOG RESOURCES INC	-	-	-	PO BOX 2287	MIDLAND, TX 79702
	I,J,K,L,M,N,O,P	-	EOG Y RESOURCES INC	-	-	105 S 4TH ST	ARTESIA, NM 88210
12/20S/28E	A,B,G,H,I,J,P	EOG RESOURCES INC	-	-	-	PO BOX 2287	MIDLAND, TX 79702
	C	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4294	HOUSTON, TX 77210
	O	LLJ VENTURES LLC DBA MARKER OIL & GAS	-	-	-	PO BOX 3188	ROSWELL, NM 88202
		EOG RESOURCES INC	-	-	-	PO BOX 2287	MIDLAND, TX 79702
	F	-	OXY USA WTP LP	-	-	6 DESTA DR #8000	MIDLAND, TX 79705
13/20S/28E	A	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4294	HOUSTON, TX 77210
18/20S/28E	A,B	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
		OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4294	HOUSTON, TX 77210
	C,D	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBBS, NM 88241
Surface Location	-	-	-	BUREAU OF LAND MANAGEMENT	BALLARD, HARLEY W & CAROL J (JT)	1818-2 N CANAL	CARLSBAD, NM 88220

Clare Allen SWD No. 1
Offsetting 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
MCREE #001	3001503642	11	20S	29E	K	EDDY	ARTESIA		29411						14350	1578	2808	
MCREE #001	3001503642	11	20S	29E	K	EDDY	ARTESIA		28684						17030	61	612	
TEXACO FED #001	3001503645	13	20S	29E	C	EDDY	ARTESIA		26017						12160	1622	3042	
TRIGOOD ST #001	3001510002	2	20S	29E	E	EDDY	ARTESIA		23528						8526	2416	4466	
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	
STONEWALL DS FEDERAL COM #002	3001521640	29	20S	28E	J	EDDY	BONE SPRING	8.1	131898	46843.8	6407.17	5.465	1394.67		85953.5	635.033	2418.81	
STONEWALL DS FEDERAL COM #002	3001521640	29	20S	28E	J	EDDY	BONE SPRING	8	142444	45649.6	10949.3	5.455	1820.88		93828.2	678.602	1878.7	
BURTON FLAT DEEP UNIT #047H	3001540517	28	20S	28E	J	EDDY	BONE SPRING 1ST SAND	7.1	192409.6	72267.4	1344.2	18.2	366.9	0	114048.2	2074	0	4.5
BURTON FLAT DEEP STATE FEDERAL COM #048H	3001540518	28	20S	28E	I	EDDY	BONE SPRING 1ST SAND	7	197408.9	76634.4	1420.8	24	397.1	0	114242.9	2196	0	4.8
BURTON FLAT DEEP UNIT #047H	3001540517	28	20S	28E	J	EDDY	BONE SPRING 1ST SAND	7.7	184770.2	71077.4	1425.2	17.5	390.9	0	108741	719.8	0	60
BURTON FLAT DEEP STATE FEDERAL COM #048H	3001540518	28	20S	28E	I	EDDY	BONE SPRING 1ST SAND	7.8	187016.7	72900.5	1420	14.5	391.9	0	109200	695.4	0	70
BURTON FLAT DEEP STATE FEDERAL COM #048H	3001540518	28	20S	28E	I	EDDY	BONE SPRING 1ST SAND	6.4	185448.1	61572	1308	8.5	344	0.4	119363	683.2	680	470
AVALON DELAWARE UNIT #262	3001524414	30	20S	28E	O	EDDY	DELAWARE	10	110018	67321	1064	0	566		105500	1320	1368	
AVALON DELAWARE UNIT #227	3001524710	30	20S	28E	F	EDDY	DELAWARE	10	131032	75440	1400	0	2600		125000	456	1320	
AVALON DELAWARE UNIT #262	3001524414	30	20S	28E	O	EDDY	DELAWARE	10	113918	66125	1420	0	1880		108500	358	1600	
AVALON DELAWARE UNIT #258	3001524546	30	20S	28E	M	EDDY	DELAWARE	10	100084	56097	2440	0	3660		100500	460	792	
AVALON DELAWARE UNIT #242	3001524637	30	20S	28E	L	EDDY	DELAWARE	9.5	123556	71737	1840	0	1860		118000	392	1128	
STONEWALL EP STATE #003	3001522235	19	20S	28E	N	EDDY	DELAWARE	8.5	37852	74405	2120	17	4280		130000	228	1152	
DOOLEY #001	3001510044	24	20S	29E	M	EDDY	MORROW		11718						4466	1634	1441	
DOOLEY #001	3001510044	24	20S	29E	M	EDDY	MORROW		31191						18540	188	1318	
STATE #001	3001503625	2	20S	29E	O	EDDY	MORROW		31170									
SUNKARD UR FEDERAL COM #002	3001524722	11	20S	29E	F	EDDY	STRAWN	6.2			11480	43.8	1197.8		77532	244	12.5	
SUNKARD UR FEDERAL #001	3001523698	11	20S	29E	H	EDDY	STRAWN	6.1	117276		9200	5	1949.2		72846	146	50	
TRIGG AIN FEDERAL #001	3001526697	28	20S	29E	H	EDDY	STRAWN	6.1	90200.5		8440	15	248.5		55380	244	12.5	
SUNKARD UR FEDERAL COM #004	3001526762	12	20S	29E	C	EDDY	STRAWN	6.2	113541		8520	23.8	734.3		69864	171	12.5	
YATES FEDERAL #001	3001520008	32	20S	29E	P	EDDY	STRAWN	5.9	108466						66700	146	270	
YATES FEDERAL #001	3001520008	32	20S	29E	P	EDDY	STRAWN	5.9	99199						61300	146	180	
STATE AC COM #001	3001522399	21	20S	28E	J	EDDY	WOLFCAMP	6.2	41597						25000	449	76	
STATE AC COM #001	3001522399	21	20S	28E	J	EDDY	WOLFCAMP	6.2	43441						26100	446	100	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	WOLFCAMP	6.7	55965						32400	252	2260	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	WOLFCAMP	6.7	55965						32400	252	2260	



Clara Allen SWD No. 1
Water Wells within 1 Mile
 Solaris Water Midstream
 Eddy County, NM

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

Drawn by: SJL | Date: 2/28/2019 | Approved by: CBW

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

+ Clara Allen SWD No. 1

• Water Well (2)

⋯ 1 Mile Radius

--- Distance Call

□ QQ-Section (NM-PLSS 2nd Div.)

▬ Section (NM-PLSS 1st Div.)

▭ Township/Range (NM-PLSS)

*Water Well Data Source: NM-OWE (2019)





New Mexico Office of the State Engineer

Water Right Summary



WR File Number: CP 01260 **Subbasin:** CP **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:** -
Agent: GRR, INC
Contact: SCOTT GREGORY
Owner: DEVON ENERGY CO
Contact: SCOTT GREGORY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
603552	72121	2013-11-15	PMT	APR	CP 01260	T		3	

Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)		Other Location Desc
			6416	4	Sec Tw's Rng	X	Y	
CP 01201 POD1		Shallow	2	2	1 18 20S 29E	582983	3605121	

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: CP 00926 **Subbasin:** CP **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: MOC
Contact: JASON MALEY

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
get images	476969	72121	2006-08-21	EXP	EXP	CP 00926	T			1
get images	476968	72121	2005-09-19	EXP	EXP	CP 00926	T			3
get images	476967	72121	2005-03-07	EXP	EXP	CP 00926	T			3
get images	476966	72121	2005-03-07	EXP	EXP	CP 00926	T			3
get images	476965	72121	2004-10-08	EXP	EXP	CP 00926	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
CP 00926 POD1		Shallow	1	1	3	01	20S	28E		581793	3607405	

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.

CARLSBAD CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION


Ad No.
0001278778

LONQUIST FIELD SERVICE
1001 MCKINNEY ST., SUITE 1650

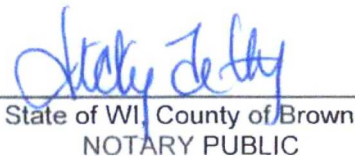
HOUSTON TX 77002

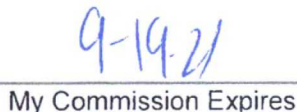
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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 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 Clara Allen SWD No. 1. The proposed well will be located 500' FNL & 2,200' FWL in Section 7, Township 20S, Range 29E 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 12,475 feet to a maximum depth of 14,275 feet. The maximum surface injection pressure will not exceed 2,495 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#:0001278778
P O : Clara Allen SWD
of Affidavits :0.00



Clara Allen SWD No. 1 Solaris Water Midstream, LLC						
TRACT ID	COUNTY CLERK	MAILING ADDRESS	PHONE	TRACKING #	DATE SHIPPED	DATE RECEIVED
	OIL CONSERVATION DIVISION DISTRICT II	811 S. FIRST ST., ARTESIA, NM 88210		USPS - 7017 2400 0001 0599 3404	3/7/2019	
	OIL CONSERVATION DIVISION DISTRICT IV	1220 S ST FRANCIS DR, SANTA FE NM 87505		USPS - 7017 2400 0001 0599 3411	3/7/2019	
	SURFACE LANDOWNER	MAILING ADDRESS				
	Harley Ballard	1819-2 N Canal Carlsbad, NM 88220		USPS - 7017 2400 0001 0599 3428	3/7/2019	
	GOVERNMENT AGENCY	MAILING ADDRESS				
	Bureau of Land Management	620 E. Greene Street Carlsbad, NM 88220		USPS - 7017 2400 0001 0599 3435	3/7/2019	
	AFFECTED PARTIES	MAILING ADDRESS				
	ARD Energy Group, LP	222 W. 4th St. Ph 5 Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3442	3/7/2019	
	ARD Oil, LP	222 W. 4th St. Ph 5 Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3442	3/7/2019	
	Axis Energy Corporation	P. O. Box 219303 Houston, TX 77218		USPS - 7017 2400 0001 0599 3459	3/7/2019	
	Camterra Resources Partners	2615 E. End Blvd. S. Marshall, TX 75670		USPS - 7017 2400 0001 0599 3466	3/7/2019	
	Cimarex Energy Company	1700 N. Lincoln Street Suite 3700 Denver, CO 80230		USPS - 7017 2400 0001 0599 3473	3/7/2019	
	COG Operating, LLC	600 W. Illinois Ave. Midland, TX 79701		USPS - 7017 2400 0001 0599 3619	3/7/2019	
	Colgate Production, LLC	306 W. Wall Street Suite 500 Midland, TX 79701		USPS - 7017 2400 0001 0599 3626	3/7/2019	
	Curtis W. Mewbourne	P. O. Box 7698 Tyler, TX 75711		USPS - 7017 2400 0001 0599 3633	3/7/2019	
	CWM 2000-C, LTD	P. O. Box 7698 Tyler, TX 75711		USPS - 7017 2400 0001 0599 3633	3/7/2019	
	Delmar Hudson Lewis Living Trust, by Bank of America N.A., Trustee	616 Texas St. Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3640	3/7/2019	
	Devon Energy Production Company, LP	333 W. Sheridan Ave. Oklahoma City, OK 73102		USPS - 7017 2400 0001 0599 3657	3/7/2019	
	Dominion OK TX Exploration and Production, Inc.	14000 Quail Spgs Pky Suite 600 Oklahoma City, OK 73134		USPS - 7017 2400 0001 0599 3664	3/7/2019	
	E G I Exploration, LP	P. O. Box 10886 Midland, TX 79702		USPS - 7017 2400 0001 0599 3671	3/7/2019	
	Edward R. Hudson, Jr.	616 Texas Street Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3688	3/7/2019	
	Encana Oil & Gas (USA), Inc.	370 17th Street Suite 1700 Denver, CO 80202		USPS - 7017 2400 0001 0599 3695	3/7/2019	
	Energen Resources Company	605 Richard Arrington Jr Blvd. Birmingham, AL 35203		USPS - 7017 2400 0001 0599 3701	3/7/2019	
	Energex Company	100 N. Pennsylvania Roswell, NM 88201		USPS - 7017 2400 0001 0599 4241	3/7/2019	
	EOG Resources Assets, LLC	5509 Champions Drive Midland, TX 79706		USPS - 7017 2400 0001 0599 3718	3/7/2019	
	EOG Resources Inc.	4000 N. Big Spring Suite 500 Midland, TX 79705		USPS - 7017 2400 0001 0599 3725	3/7/2019	
	EOG Resources, Inc.	333 Clay Street Suite 4200 Houston, TX 75711		USPS - 7017 2400 0001 0599 3749	3/7/2019	
	EOG Y Resources, Inc.	105 S. 4th Street Artesia, NM 88210		USPS - 7017 2400 0001 0599 3732	3/7/2019	
	Fidelity Oil Holding, Inc.	918 E. Divide Avenue Suite 200 Bismarck, ND 58501		USPS - 7017 2400 0001 0599 3756	3/7/2019	
	Five States 1991-A, LTD	4925 Greenville Avenue Suite 1220 Dallas, TX 75206		USPS - 7017 2400 0001 0599 3763	3/7/2019	
	Five States 1993-C	4925 Greenville Avenue Suite 1220 Dallas, TX 75206		USPS - 7017 2400 0001 0599 3763	3/7/2019	
	Five States 1994-B	4925 Greenville Avenue Suite 1220 Dallas, TX 75206		USPS - 7017 2400 0001 0599 3763	3/7/2019	
	Five States Consolidated II	4925 Greenville Avenue Suite 1220 Dallas, TX 75206		USPS - 7017 2400 0001 0599 3763	3/7/2019	
	Frost Bank, Trustee for J. T. Hudson FBO J. T.	P. O. Box 1600 San Antonio, TX 78296		USPS - 7017 2400 0001 0599 3770	3/7/2019	
	George L. Scott, Jr.	215 W. 3rd Street Roswell, NM 88201		USPS - 7017 2400 0001 0599 3787	3/7/2019	
	Greenville Trading Company	1220 One Energy Square Dallas, TX 75206		USPS - 7017 2400 0001 0599 3794	3/7/2019	
	Hanley Petroleum, LLC	415 W. Wall Street Suite 1500 Midland, TX 79701		USPS - 7017 2400 0001 0599 3800	3/7/2019	
	Hutchings Oil Company	P. O. Box 1216 Albuquerque, NM 87102		USPS - 7017 2400 0001 0599 3817	3/7/2019	
	Isramco Energy, LLC	11767 Katy Fwy Suite 711 Houston, TX 77079		USPS - 7017 2400 0001 0599 3824	3/7/2019	
	Javelina Partners	616 Texas Street Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3831	3/7/2019	
	Jetta X2, LP	777 Taylor Street Suite #PI D Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3848	3/7/2019	
	Joyran Corporation	63 Wall Street 23rd Floor New York, NY 10005		USPS - 7017 2400 0001 0599 3855	3/7/2019	
	Legacy Reserves Operating, LP	303W. Wall Street Suite 1800 Midland, TX 79701		USPS - 7017 2400 0001 0599 3862	3/7/2019	
	Liberty OG 1982-2	P. O. Box 430 JCT Hwy 78 Luvonia, LA 70755		USPS - 7017 2400 0001 0599 3879	3/7/2019	
	Liberty Oil & Gas Corporation	HC 78 Box 430 Luvonia, LA 70755		USPS - 7017 2400 0001 0599 3886	3/7/2019	
	Lindy's Living Trust	616 Texas St. Fort Worth, TX 76102		USPS - 7017 2400 0001 0599 3893	3/7/2019	
	LU Ventures, LLC	P. O. Box 3188 Roswell, NM 88202		USPS - 7017 2400 0001 0599 3909	3/7/2019	
	Magnum Hunter Production Inc.	202 S. Cheyenne Ave. ATE 1000 Tulsa, OK 74103		USPS - 7017 2400 0001 0599 3916	3/7/2019	
	Marathon Oil Company	P. O. Box 3128 Houston, TX 77253		USPS - 7017 2400 0001 0599 3923	3/7/2019	
	Marathon Oil Permian, LLC	5555 San Felipe Street Houston, TX 77056		USPS - 7017 2400 0001 0599 3930	3/7/2019	
	Mary Yates-Davis	207 S. 4th Street Artesia, NM 88210		USPS - 7017 2400 0001 0599 3947	3/7/2019	
	Mewbourne Oil Company	P. O. Box 7698 Tyler, TX 75711		USPS - 7017 2400 0001 0599 3954	3/7/2019	
	Michel T. Halibouty	5100 Westheimer Road Houston, TX 77058		USPS - 7017 2400 0001 0599 3961	3/7/2019	
	Olympic Oil & Gas Corporation	1000 Louisiana Suite 6770 Houston, TX 77002		USPS - 7017 2400 0001 0599 3978	3/7/2019	
	Orion OG Properties	P. O. Box 2523 Roswell, NM 88202		USPS - 7017 2400 0001 0599 3985	3/7/2019	
	OXY USA WTP, LP	6 Desta Dr. STE 6000 Midland, TX 79705		USPS - 7017 2400 0001 0599 3992	3/7/2019	
	OXY USA, Inc.	P. O. Box 300 Tulsa, OK 74102		USPS - 7017 2400 0001 0599 4005	3/7/2019	
	Paladin, Inc.	10265 E. Clinton Scottsdale, AZ 85260		USPS - 7017 2400 0001 0599 4012	3/7/2019	
	Perks & Luttrell, Inc.	1221 Lamar Suite 1328 Houston, TX 77010		USPS - 7017 2400 0001 0599 4029	3/7/2019	
	Permex Petroleum US Corporation	P. O. Box 1612 Roswell, NM 88202		USPS - 7017 2400 0001 0599 4036	3/7/2019	

Petroleum Synergy Group, Inc.	1641 California Street Suite 410 Denver, CO 80202	USPS - 7017 2400 0001 0599 4043	3/7/2019
Richard M. Yates	428 Sandoval Street Suite 200 Santa Fe, NM 87501	USPS - 7017 2400 0001 0599 4050	3/7/2019
Rimco Exploration Partners II	P. O. Box 7698 Tyler, TX 75711	USPS - 7017 2400 0001 0599 4067	3/7/2019
Rimco Exploration Partners LP	P. O. Box 7698 Tyler, TX 75711	USPS - 7017 2400 0001 0599 4067	3/7/2019
RKI Exploration and Production, LLC	3500 One Williams Ctr. Tulsa, OK 74172	USPS - 7017 2400 0001 0599 4074	3/7/2019
Santo Legado, LLC	P. O. Box 1020 Artesia, NM 88211	USPS - 7017 2400 0001 0599 4081	3/7/2019
Sharon W. Scott	215 W. 3rd Street Roswell, NM 88201	USPS - 7017 2400 0001 0599 4098	3/7/2019
Siete Oil & Gas Corporation	P. O. Box 2523 Roswell, NM 88202	USPS - 7017 2400 0001 0599 4104	3/7/2019
St Devote, LLC	919 Milam Street Suite 2475 Houston, TX 77002	USPS - 7017 2400 0001 0599 4111	3/7/2019
Staghorn Resources, LLC	406 S. Boulder Tulsa, OK 74103	USPS - 7017 2400 0001 0599 4128	3/7/2019
Strata Production Company	P. O. Box 1030 Roswell, NM 88202	USPS - 7017 2400 0001 0599 4135	3/7/2019
Stratco Operating Company, Inc.	400 Buckeye Trail Austin, TX 78746	USPS - 7017 2400 0001 0599 4142	3/7/2019
Summit Exploration, LLC	525 S. Main Suite 1200 Tulsa, OK 74103	USPS - 7017 2400 0001 0599 4159	3/7/2019
Tandem Oil Company	11759 San Vicente Suite 2 Los Angeles, CA 90049	USPS - 7017 2400 0001 0599 4166	3/7/2019
Tipperary Oil & Gas Corporation	P. O. Box 3179 Midland, TX 79702	USPS - 7017 2400 0001 0599 4173	3/7/2019
Unit Petro Company	P. O. Box 702500 Tulsa, OK 74170	USPS - 7017 2400 0001 0599 4180	3/7/2019
Vladin, LLC	P. O. Box 100 Rosewell, NM 88202	USPS - 7017 2400 0001 0599 4197	3/7/2019
Whiting Petroleum Corporation	1700 Broadway Suite 2300 Denver, CO 80290	USPS - 7017 2400 0001 0599 4293	3/7/2019
Wildcat Energy, LLC	P. O. Box 13323 Odessa, TX 79768	USPS - 7017 2400 0001 0599 4210	3/7/2019
XTO Holdings, LLC	22777 Springwoods Village Pkwy. Spring, TX 77389	USPS - 7017 2400 0001 0599 4227	3/7/2019
Zorro Partners LTD	616 Texas St. Fort Worth, TX 76102	USPS - 7017 2400 0001 0599 4234	3/7/2019