

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. 20587

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 Capt Call SWD #1, located 820 feet FSL and 300 feet FWL in Unit M, Section 2, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.
2. Solaris seeks authority to inject salt water into the Devonian-Silurian at a depth of 12,510 to 14,310 feet.
3. Form C-108, dated March 21, 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. 20587. **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 12,510 to 14,310 feet through the Capt Call SWD #1 well, located 820 feet FSL and 300 feet FWL in Unit M, Section 2, Township 20 South, Range 28 East NMPM, Eddy County, New Mexico.

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

March 21, 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

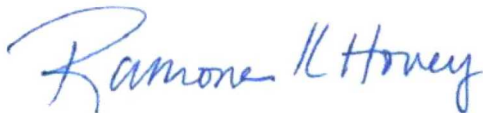
RE: CAPT CALL SWD NO. 1 AUTHORIZATION TO INJECT

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") Capt Call 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 Solar Water Midstream, LLC's agent Lonquist & Co., LLC.

Regards,



Ramona 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: Capt Call SWD #1 _____ **API:** _____
Pool: SWD; Devonian-Silurian _____ **Pool Code:** 97869 _____

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

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

A. Location – Spacing Unit – Simultaneous Dedication

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

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

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

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

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☒ Application requires published notice

D. ☒ Notification and/or concurrent approval by SLO

E. ☒ Notification and/or concurrent approval by BLM

F. ☒ Surface owner

G. ☒ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application
 Content
 Complete

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

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

March 21, 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: 3/21/2019

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: _____

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
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Additional sheets may be attached if necessary.
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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.
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 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.).
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NAME: Ramona Hovey

TITLE: Consulting Engineer – Agent for Solaris Water Midstream

SIGNATURE: _____ DATE: 3/21/2019

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.

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLCWELL NAME & NUMBER: Capt Call SWD No. 1WELL LOCATION: 820' FSL 300' FWL
FOOTAGE LOCATIONM
UNIT LETTER2
SECTION20S
TOWNSHIP28E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 18.125"Casing Size: 16.00"Cemented with: 404 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 14.750"Casing Size: 13.375"Cemented with: 476 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 2,929 sx.or _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8.500"Casing Size: 7.625"Cemented with: 443 sx.or _____ ft³Top of Cement: 9,840'Method Determined: calculationTotal Depth: 14,310'Injection Interval12,510 feet to 14,310 feet

(Open Hole)

4. Packer Description

Nickel plated double grip retrievable packer or equivalent

B. Completion Information

1. Injection Formation: Devonian, Fusselman

2. Gross Injection Interval: 12,510' – 14,310'

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	4,660'
Wolfcamp	9,060'
Strawn	10,060'
Atoka	10,385'
Morrow	10,585'

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: 1,877 PSI (surface pressure)

Maximum Injection Pressure: 2,502 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, Morrow, and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Capitan, Delaware, Morrow, Rustler, 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 Capt Call 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

Formation	Depth
Salado (Top of Salt)	810'
Salado (Bottom of Salt)	1,235'
Yates	1,360'
Seven Rivers	1,435'
Queen	1,935'
Grayburg	2,235'
San Andreas	2,585'
Delaware Mountain Group	3,110'
Bone Spring	4,660'
Bone Spring 1 st Sand	5,810'
Bone Spring 2 nd Sand	6,485'
Bone Spring 3 rd Sand	8,410'
Wolfcamp	9,060'
Cisco	9,885'
Strawn	10,060'
Atoka	10,385'
Morrow	10,585'
Barnett	11,385'
Devonian	12,510'

B. Underground Sources of Drinking Water

No water wells exist within a one-mile radius of the proposed well. Water wells outside a one-mile radius in the surrounding area have an average depth of 120 feet and an average water depth of 63 feet generally producing from the Capitan Basin. The upper Rustler may also be another USDW and will be protected.

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

Because no water wells exist within a one-mile radius of the proposed well, there is no chemical analysis of fresh water wells in this application.

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) 746-1263 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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name CAPT CALL SWD	Well Number 1
OGRID No.	Operator Name SOLARIS WATER MIDSTREAM	Elevation 3277'

Surface Location

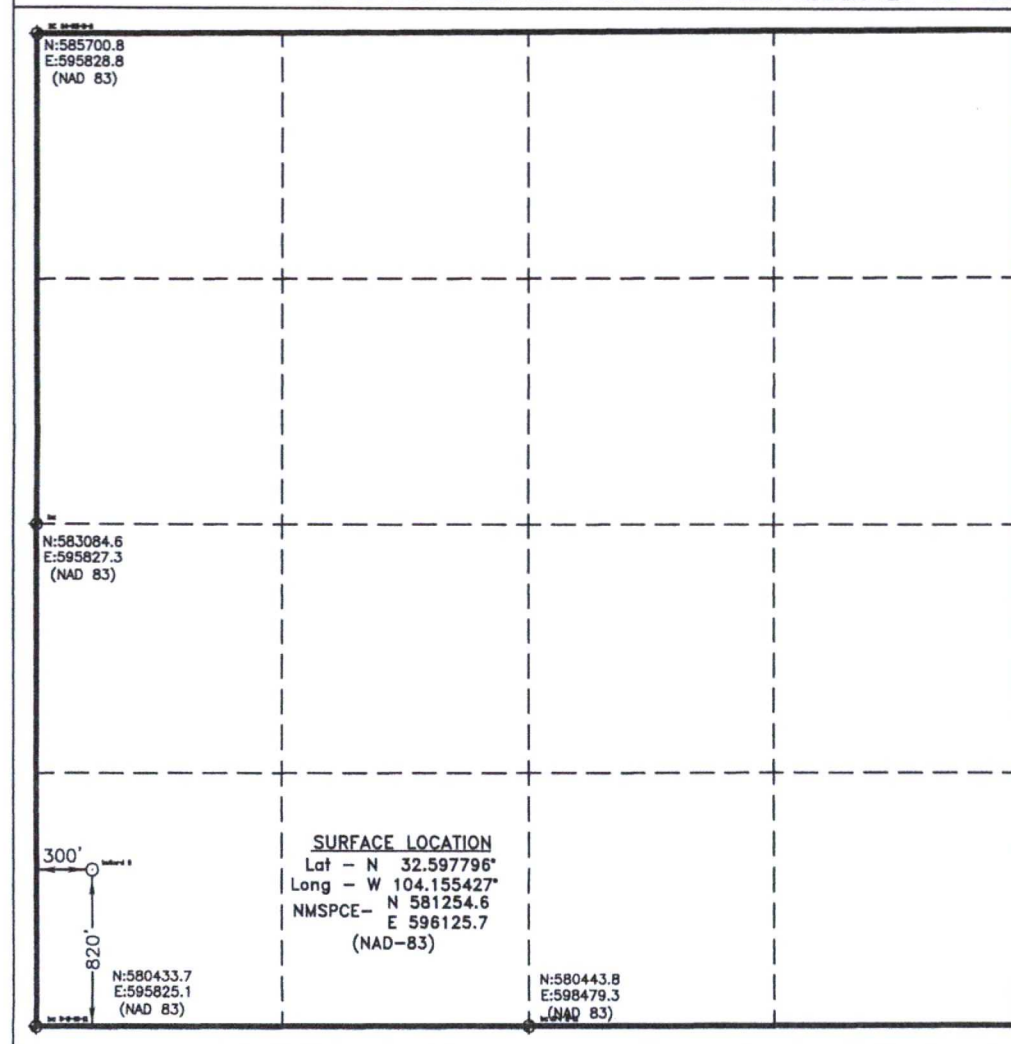
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	20 S	28 E		820	SOUTH	300	WEST	EDDY

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
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Dedicated Acres	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



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 3/20/18
Signature Date

RAMONA HOVEY
Printed Name

ramona@longquist.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 9, 2018

Date Surveyed
Signature & Seal of Professional Surveyor

[Signature]
Professional Surveyor

Certification No. 7977
Date Surveyed

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34226

District I

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 Phone: (575) 393-6161 Fax: (575) 393-0720

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 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**

¹ Operator Name and Address SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643
		³ API Number TBD
⁴ Property Code	⁵ Property Name CAPT CALL 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
M	2	20S	28E		820	S	300	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 SWD: Devonian-Silurian	Pool Code 97869
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3,277'
¹⁶ Multiple N	¹⁷ Proposed Depth 14,310'	¹⁸ Formation Silurian-Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 140'	Distance from nearest fresh water well 7.325'	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	830'	404	Surface
Intermediate	14.75"	13.375"	68 lb/ft	2,635'	476	Surface
Production	12.25"	9.625"	53.5 lb/ft	10,040'	2,929	Surface
Liner	8.5"	7.625"	39 lb/ft	9,840'-12,510'	443	9,840'
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' - 9,790' & 9,790' -12,460'	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 21, 2018

Phone: 512-600-1777

OIL CONSERVATION DIVISION

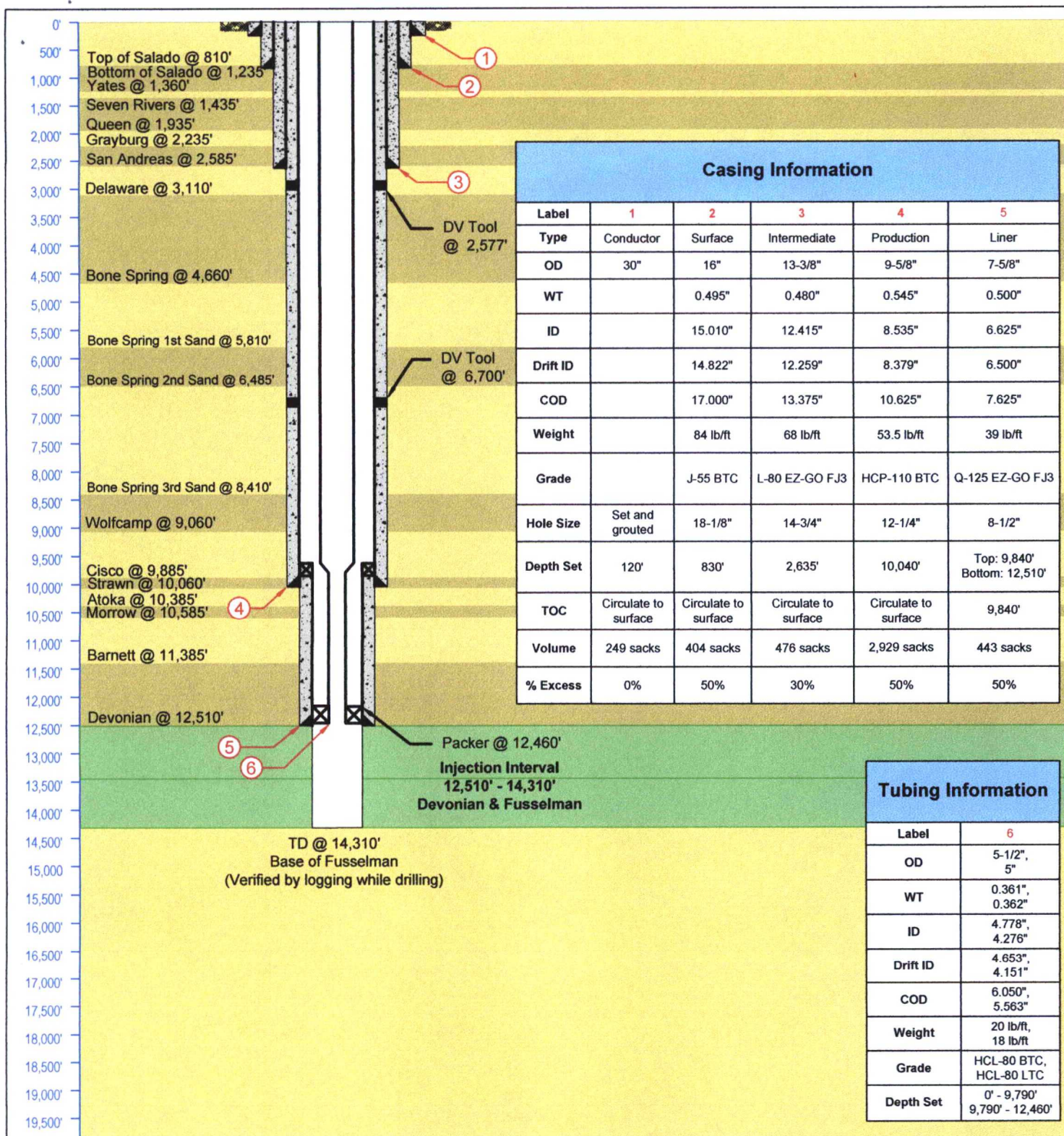
Approved By:

Title:

Approved Date:

Expiration Date:

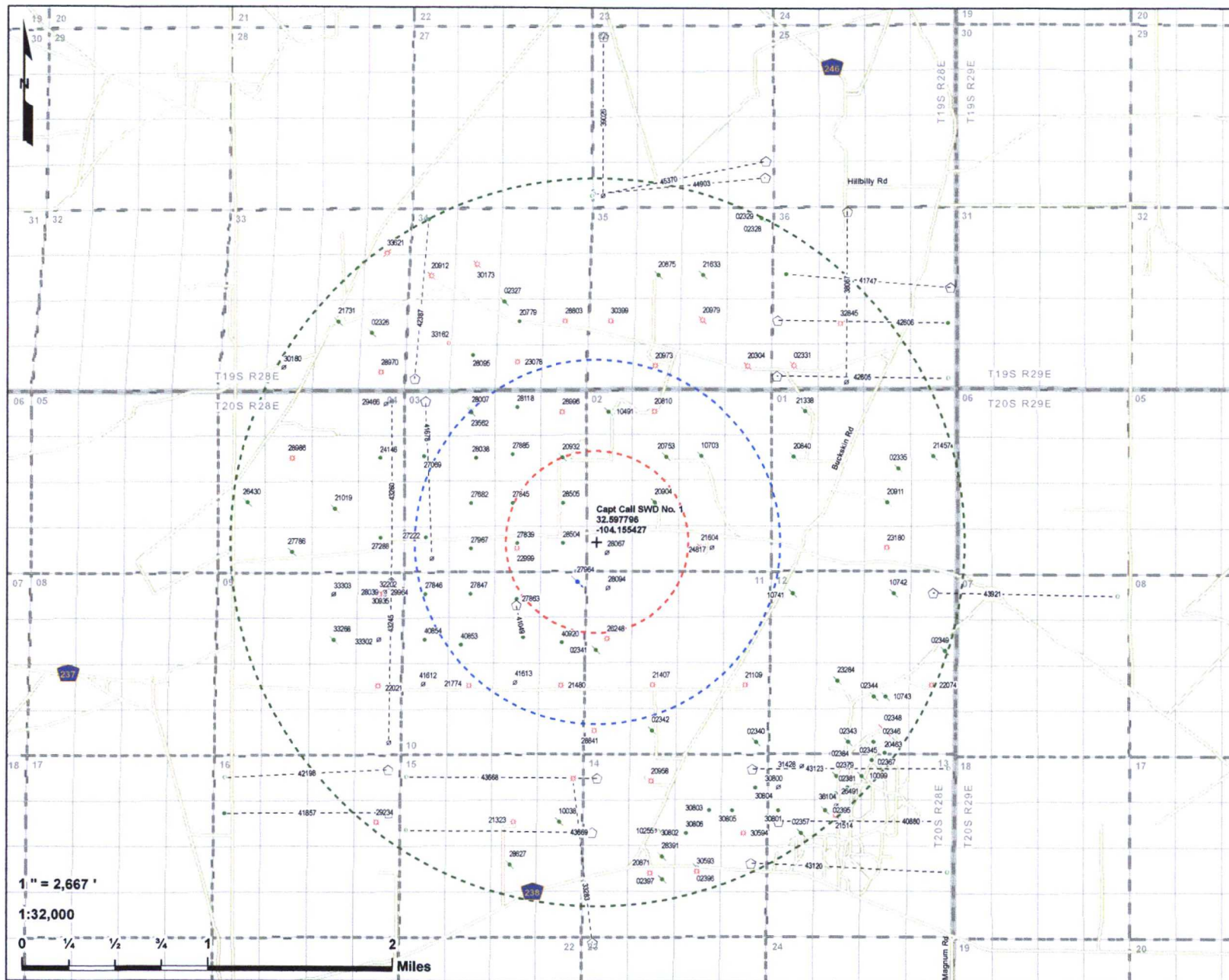
Conditions of Approval Attached



Casing Information					
Label	1	2	3	4	5
Type	Conductor	Surface	Intermediate	Production	Liner
OD	30"	16"	13-3/8"	9-5/8"	7-5/8"
WT		0.495"	0.480"	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	Set and grouted	18-1/8"	14-3/4"	12-1/4"	8-1/2"
Depth Set	120'	830'	2,635'	10,040'	Top: 9,840' Bottom: 12,510'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	Circulate to surface	9,840'
Volume	249 sacks	404 sacks	476 sacks	2,929 sacks	443 sacks
% Excess	0%	50%	30%	50%	50%

Tubing Information	
Label	6
OD	5-1/2", 5"
WT	0.361", 0.362"
ID	4.778", 4.276"
Drift ID	4.653", 4.151"
COD	6.050", 5.563"
Weight	20 lb/ft, 18 lb/ft
Grade	HCL-80 BTC, HCL-80 LTC
Depth Set	0' - 9,790' 9,790' - 12,460'

LONGQUIST & 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		Capt Call SWD No. 1	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy	
	Location:	Site: 820' FSL & 300' FWL	Survey: S2-T20S-R28E	
	API No: NA	Field: Devonian-Silurian (Code: 97869)	Well Type/Status: SWD	
	NMOC District No: 2	Project No: 1918	Date: 3/20/2019	
	Drawn: TFM	Reviewed:	Approved:	
	Rev No: 1	Notes:		



Capt Call 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: 3/4/2019 Approved by: CBW

LONGQUIST & CO. LLC

PETROLEUM ENGINEERS **ENERGY ADVISORS**

AUSTIN HOUSTON WICHITA DENVER CALGARY

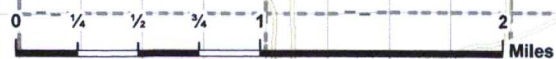
- + Capt Call SWD No. 1
- 1/2 Mile Radius
- 1 Mile Radius
- 2 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Laterals
- API (30-015-...) SHL Status - Type (Count)**
 - Horizontal Surface Location (21)
 - Active - Oil (31)
 - Active - Gas (26)
 - Active - Salt Water Disposal (1)
 - Active - Injection (1)
 - Permitted - Gas (1)
 - Plugged (Not Released) - Gas (1)
 - Plugged (Site Released) - Oil (45)
 - Plugged (Site Released) - Gas (7)
 - Canceled Location (16)
- API (30-015-...) BHL Status - Type (Count)**
 - Active - Oil (6)
 - Active - Gas (1)
 - Permitted - Oil (9)
 - Canceled Location (5)

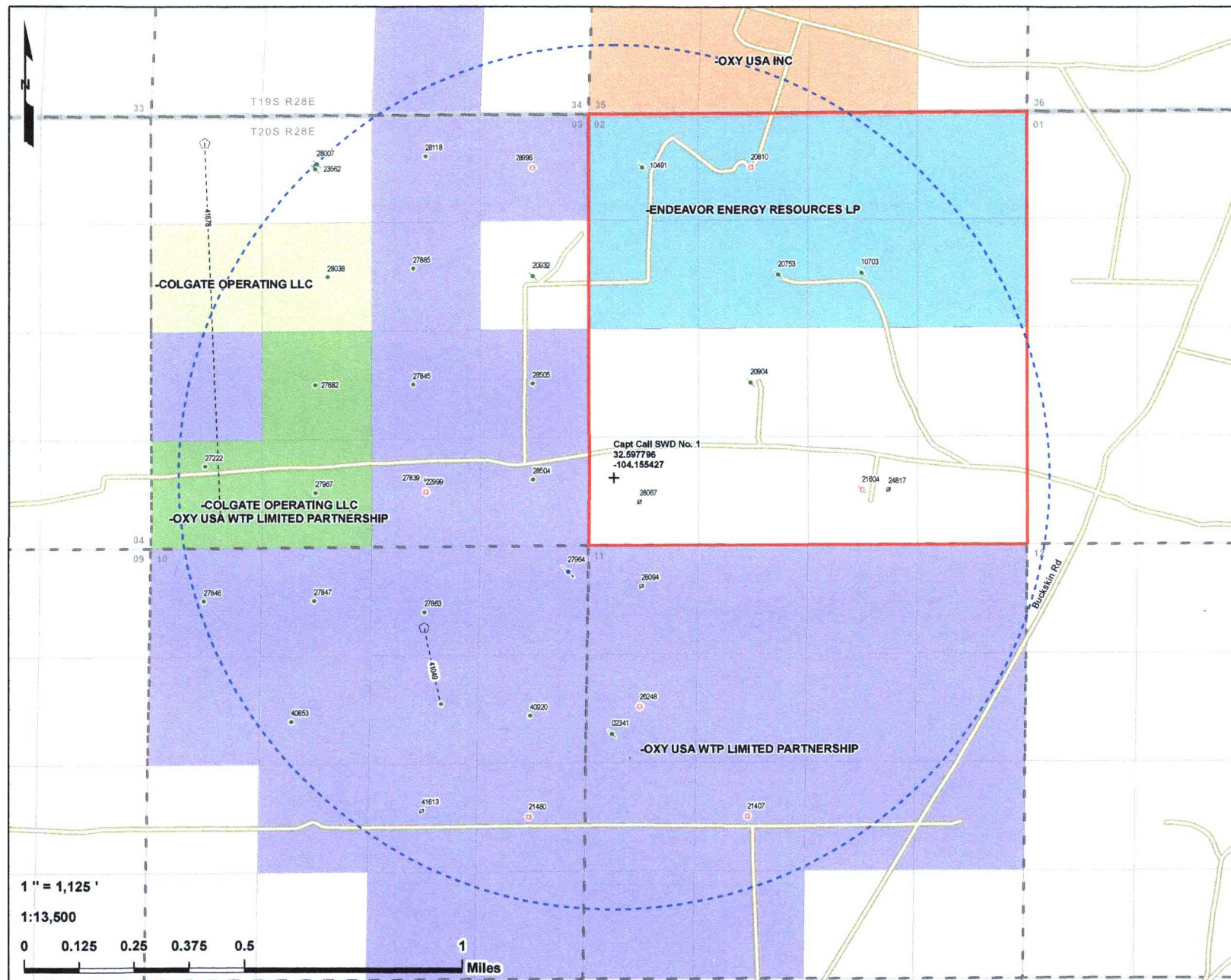
*Well Data Source: NM-OC.D, DrillingInfo (2019)



1" = 2,667'

1:32,000





Capt Call SWD No. 1
1 Mile Offset Operators
Solaris Water Midstream
Eddy County, NM

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

Drawn by: SJL Date: 3/7/2019 Approved by: CBW

LONQUIST & CO. LLC

**PETROLEUM
ENGINEERS** **ENERGY
ADVISORS**

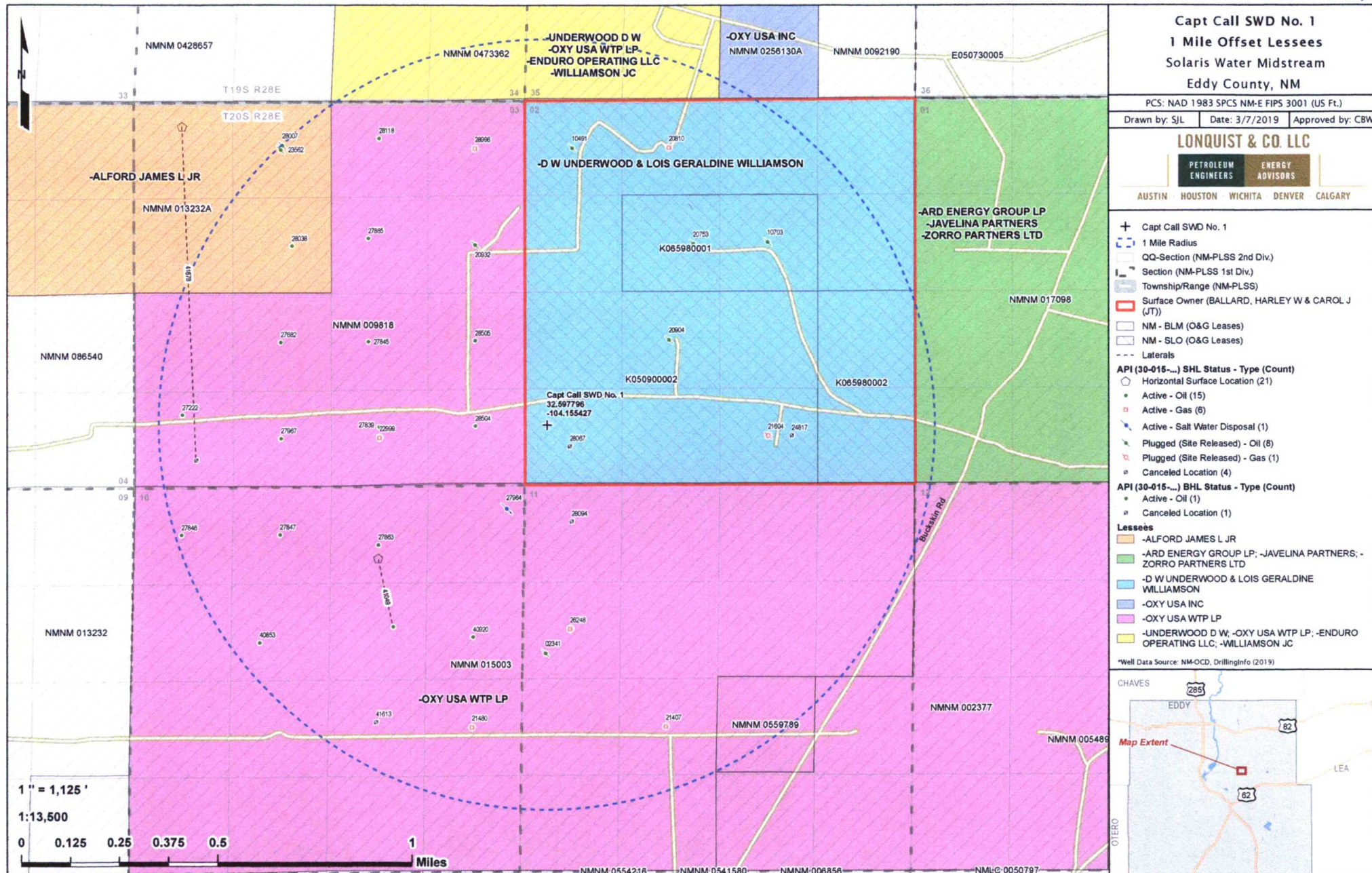
AUSTIN HOUSTON WICHITA DENVER CALGARY

- + Capt Call SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Surface Owner (BALLARD, HARLEY W & CAROL J (JT))
- Laterals
- API (30-015-...) SHL Status - Type (Count)
 - Horizontal Surface Location (21)
 - Active - Oil (15)
 - Active - Gas (6)
 - Active - Salt Water Disposal (1)
 - Plugged (Site Released) - Oil (8)
 - Plugged (Site Released) - Gas (1)
 - Canceled Location (4)
- API (30-015-...) BHL Status - Type (Count)
 - Active - Oil (1)
 - Canceled Location (1)

- Operators**
- -COLGATE OPERATING LLC
 - -COLGATE OPERATING LLC; -OXY USA WTP LIMITED PARTNERSHIP
 - -ENDEAVOR ENERGY RESOURCES LP
 - -OXY USA INC
 - -OXY USA WTP LIMITED PARTNERSHIP

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





**Capt Call SWD No. 1
1 Mile Offset Lessees
Solaris Water Midstream
Eddy County, NM**

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

Drawn by: SJL Date: 3/7/2019 Approved by: CBW

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN HOUSTON WICHITA DENVER CALGARY

- + Capt Call SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Surface Owner (BALLARD, HARLEY W & CAROL J (JT))
- NM - BLM (O&G Leases)
- NM - SLO (O&G Leases)
- Laterals
- API (30-015-...) SHL Status - Type (Count)**
- Horizontal Surface Location (21)
- Active - Oil (15)
- Active - Gas (6)
- Active - Salt Water Disposal (1)
- Plugged (Site Released) - Oil (8)
- Plugged (Site Released) - Gas (1)
- Canceled Location (4)
- API (30-015-...) BHL Status - Type (Count)**
- Active - Oil (1)
- Canceled Location (1)

Lessees

- ALFORD JAMES L JR
- ARD ENERGY GROUP LP; JAVELINA PARTNERS; ZORRO PARTNERS LTD
- D W UNDERWOOD & LOIS GERALDINE WILLIAMSON
- OXY USA INC
- OXY USA WTP LP
- UNDERWOOD D W, OXY USA WTP LP, ENDURO OPERATING LLC, WILLIAMSON JC

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

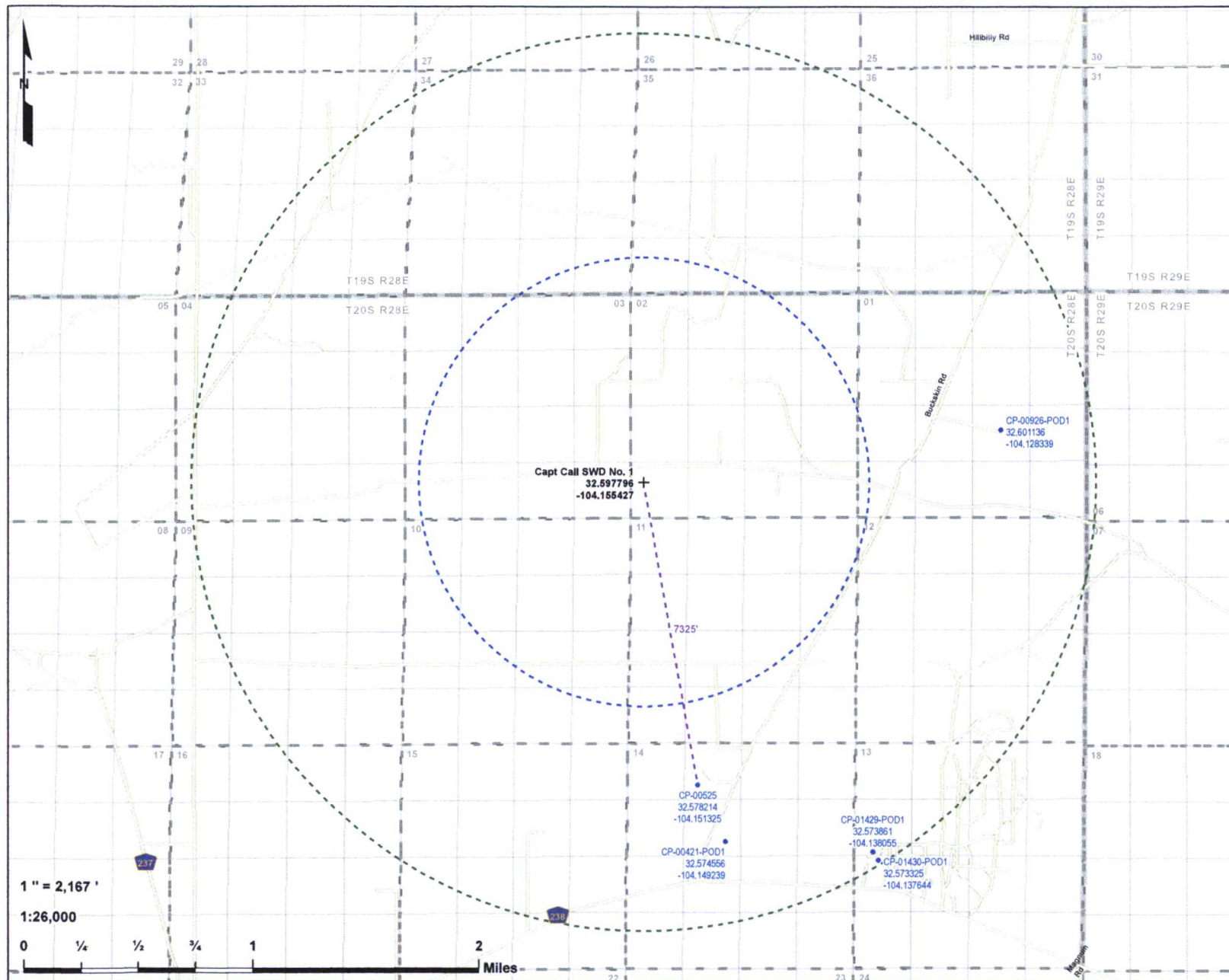


Capt Call SWD No 1
1 Mile Area of Review List

API (30-015-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
02341	PRE-ONGARD WELL #003	O	P	PRE-ONGARD WELL OPERATOR	NR	32.5891914000	-104.1554947000	NR	
10491	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	180	32.6082153000	-104.1542740000	NR	
10703	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	9689	32.6046677000	-104.1456528000	12/20/1965	LOWER WOLFCAMP
20753	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	3850	32.6046028000	-104.1489258000	10/1/1972	
20810	JCW STATE COM #001	G	A	ENDEAVOR ENERGY RESOURCES, LP	11257	32.6082306000	-104.1498863000	12/13/1973	[87600] WINCHESTER, MORROW (GAS); [87720] WINCHESTER, STRAWN (GAS)
20904	PRE-ONGARD WELL #002	O	P	PRE-ONGARD WELL OPERATOR	11235	32.6009941000	-104.1500092000	8/9/1973	[87600] WINCHESTER, MORROW (GAS)
20932	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	11315	32.6045723000	-104.1585693000	9/8/1973	WINCHESTER, ATOKA
21407	GOVERNMENT AB #001	G	A	OXY USA WTP LIMITED PARTNERSHIP	11447	32.5864220000	-104.1501846000	11/17/1974	[73520] BURTON FLAT, WOLFCAMP, NORTH (GAS)
21480	GOVERNMENT AB #002	G	A	OXY USA WTP LIMITED PARTNERSHIP	11449	32.5864029000	-104.1587601000	2/28/1975	[73520] BURTON FLAT, WOLFCAMP, NORTH (GAS)
21604	PRE-ONGARD WELL #001	G	P	PRE-ONGARD WELL OPERATOR	11339	32.5973701000	-104.1456451000	8/19/1975	[87600] WINCHESTER, MORROW (GAS)
22999	GOVERNMENT S #002	G	A	OXY USA WTP LIMITED PARTNERSHIP	11329	32.5973206000	-104.1628799000	1/21/1980	[87600] WINCHESTER, MORROW (GAS)
23562	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	11315	32.6081734000	-104.1672363000	7/9/1981	WOLFCAMP
24817	PRE-ONGARD WELL #030	O	C	PRE-ONGARD WELL OPERATOR	0	32.5973733213	-104.1446011680	-	
26248	GOVERNMENT AB #005	G	A	OXY USA WTP LIMITED PARTNERSHIP	11400	32.5900993000	-104.1544037000	11/1/1990	[73280] BURTON FLAT, MORROW (PRO GAS)
27222	REMINGTON FEDERAL #001	O	A	COLGATE OPERATING, LLC	6520	32.5981827000	-104.1715393000	12/18/1992	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27682	REMINGTON FEDERAL #002	O	A	COLGATE OPERATING, LLC	6550	32.6009254000	-104.1672516000	9/27/1993	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27839	GOVERNMENT S #003	O	A	OXY USA WTP LIMITED PARTNERSHIP	6550	32.5977325000	-104.1628799000	2/9/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27845	GOVERNMENT S #004	O	A	OXY USA WTP LIMITED PARTNERSHIP	6606	32.6009483000	-104.1633530000	3/14/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27846	GOVERNMENT AB #006	O	A	OXY USA WTP LIMITED PARTNERSHIP	6554	32.5936470000	-104.1715851000	2/27/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27847	GOVERNMENT AB #007	O	A	OXY USA WTP LIMITED PARTNERSHIP	6590	32.5936699000	-104.1672974000	3/30/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27863	GOVERNMENT AB #008	O	A	OXY USA WTP LIMITED PARTNERSHIP	6630	32.5932808000	-104.1629257000	4/26/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27885	GOVERNMENT S #005	O	A	OXY USA WTP LIMITED PARTNERSHIP	6600	32.6048317000	-104.1633453000	4/12/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
27964	GOVERNMENT AB #009	S	A	OXY USA WTP LIMITED PARTNERSHIP	6725	32.5946274000	-104.1572189000	5/16/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC); [96095] SWD, BONE SPRING
27967	REMINGTON FEDERAL #003	O	A	COLGATE OPERATING, LLC	6700	32.5972977000	-104.1672592000	7/6/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC); [97245] PALMILLO DRAW, DELWARE
28007	WINCHESTER FEDERAL #004	O	P	CHI OPERATING INC	6602	32.6083374000	-104.1671677000	4/9/1996	[48035] OLD MILLMAN RANCH, BS (ASSOC)
28038	WINCHESTER FEDERAL #003	O	A	COLGATE OPERATING, LLC	6525	32.6045456000	-104.1667557000	6/21/1995	[48035] OLD MILLMAN RANCH, BS (ASSOC)
28067	JCW STATE #001	O	C	HILLIN PRODUCTION CO	0	31.5963800000	-104.1544000000	-	
28094	GOVERNMENT AB #010	O	C	OXY USA INC	0	32.5941422149	-104.1543239940	-	
28118	GOVERNMENT S #006	O	A	OXY USA WTP LIMITED PARTNERSHIP	6605	32.6085968000	-104.1628494000	9/21/1994	[48035] OLD MILLMAN RANCH, BS (ASSOC)
28504	GOVERNMENT S #007	O	A	OXY USA WTP LIMITED PARTNERSHIP	6680	32.5977554000	-104.1585922000	6/7/1995	[48035] OLD MILLMAN RANCH, BS (ASSOC)
28505	GOVERNMENT S #008	O	A	OXY USA WTP LIMITED PARTNERSHIP	6700	32.6009712000	-104.1585846000	6/23/1995	[48035] OLD MILLMAN RANCH, BS (ASSOC)
28996	GOVERNMENT S COM #009	G	A	OXY USA WTP LIMITED PARTNERSHIP	11280	32.6082001000	-104.1585617000	7/16/1997	[48035] OLD MILLMAN RANCH, BS (ASSOC); [87600] WINCHESTER, MORROW (GAS)
40853	GOVERNMENT AB FEDERAL #011	O	A	OXY USA WTP LIMITED PARTNERSHIP	6993	32.5896072000	-104.1681976000	12/6/2012	[48035] OLD MILLMAN RANCH, BS (ASSOC)
40920	GOVERNMENT AB FEDERAL #013	O	A	OXY USA WTP LIMITED PARTNERSHIP	6710	32.5898094000	-104.1586990000	1/9/2013	[48035] OLD MILLMAN RANCH, BS (ASSOC)
41049	GOVERNMENT AB FEDERAL #012	O	A	OXY USA WTP LIMITED PARTNERSHIP	6782	32.5927849000	-104.1629333000	3/18/2013	[48035] OLD MILLMAN RANCH, BS (ASSOC)
41613	GOVERNMENT AB FEDERAL #016	O	C	OXY USA WTP LIMITED PARTNERSHIP	0	32.5866051000	-104.1630402000	-	
41678	WINCHESTER 3 FEDERAL COM #005H	O	C	CHI OPERATING INC	0	32.6090660000	-104.1715164000	-	

Capt Call 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
34/19S/28E	O	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4284	HOUSTON, TX 77210
	P	-	UNDERWOOD D W	-	-	505 N BIGSPRING #100	MIDLAND, TX 78701
		-	OXY USA WTP LP	-	-	8 DESTA DR #6000	MIDLAND, TX 78705
		-	ENDURO OPERATING LLC	-	-	777 MAIN ST STE 800	FORT WORTH, TX 78102
		-	WILLIAMSON JC	-	-	80 BOX 16	MIDLAND, TX 78701
35/19S/28E	M,N,O	OXY USA INC	-	-	-	PO BOX 4284	HOUSTON, TX 77210
1/20S/28E	L,M	-	ARO ENERGY GROUP LP	-	-	222 W 4TH ST PH 5	FORT WORTH, TX 78102
		-	JAVELINA PARTNERS	-	-	616 TEXAS ST	FORT WORTH, TX 78102
		-	ZORRO PARTNERS LTD	-	-	616 TEXAS ST	FORT WORTH, TX 78102
2/20S/28E	A,B,C,D,E,F,G,H	ENDEAVOR ENERGY REOURCES LP	-	-	-	110 NORTH MARIENFELD SUITE 200	MIDLAND, TX 78701
	I,J,K,L,M,N,O,P	-	D W UNDERWOOD & LOIS GERALDINE WILLIAMSON	-	-	PO BOX 16	MIDLAND, TX 78702
3/20S/28E	A,B,G,I,J,L,O,P	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4284	HOUSTON, TX 77210
	K,M,N	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4284	HOUSTON, TX 77210
		COLGATE OPERATING LLC	-	-	-	306 W WALL STREET SUITE 500	MIDLAND, TX 78701
	E,F	COLGATE OPERATING LLC	-	-	-	306 W WALL STREET SUITE 500	MIDLAND, TX 78701
	C	-	ALFORD JAMES L JR	-	-	PO BOX 489	MCCOMB, MS 39648
	H	-	OXY USA WTP LP	-	-	8 DESTA DR #6000	MIDLAND, TX 78705
10/20S/28E	A,B,C,D,E,F,G,H,I,J,K,O,P	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4284	HOUSTON, TX 77210
11/20S/28E	A,B,C,D,E,F,G,H,I,J,K,L,M,N	OXY USA WTP LIMITED PARTNERSHIP	-	-	-	PO BOX 4284	HOUSTON, TX 77210
12/20S/28E	D	-	OXY USA WTP LP	-	-	8 DESTA DR #6000	MIDLAND, TX 78705
Surface Location	-	-	-	-	BALLARD, HARLEY W & CAROL J (JT)	1819-2 N CANAL	CARLSBAD, NM 88220



Capt Call SWD No. 1

Water Wells within 2 Miles

Solaris Water Midstream

Eddy County, NM

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

Drawn by: SJL Date: 3/4/2019 Approved by: CBW

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN HOUSTON WICHITA DENVER CALGARY

+ Capt Call SWD No. 1

• Water Well (5)

○ 1 Mile Radius

○ 2 Mile Radius

- - - Distance Call

□ QQ-Section (NM-PLSS 2nd Div.)

▬ Section (NM-PLSS 1st Div.)

▭ Township/Range (NM-PLSS)

*Water Well Data Source: NM-OSE (2019)
 **No water wells within 1 mile of SWL

CHAVES

EDDY

LEA

OTERO

Map Extent

Capt Cell 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	potassium_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl
CROSBY #001	3001502335	1	20S	28E	G	EDDY	ARTESIA		32300						14800	1430	5450	
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	
RUSSELL USA #032	3001502381	13	20S	28E	C	EDDY	ARTESIA		40200						17400	1120	8470	
RUSSELL USA #041	3001502390	13	20S	28E	F	EDDY	ARTESIA		24308						12310	884	2381	
RUSSELL USA #007	3001502353	13	20S	28E	J	EDDY	ARTESIA		38600						17600	756	7230	
RUSSELL USA #041	3001502390	13	20S	28E	F	EDDY	ARTESIA		27048						13330	894	2969	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	ARTESIA		3211						130	98	2124	
VICKERS #001	3001502419	23	20S	28E	A	EDDY	ARTESIA		25500						11500	716	4590	
RUSSELL USA #006	3001502352	13	20S	28E	L	EDDY	ARTESIA		50610						29400	861	1428	
RUSSELL USA #046	3001502395	13	20S	28E	F	EDDY	ARTESIA		28980						14640	660	3080	
COLT FEDERAL #001	3001527288	4	20S	28E	P	EDDY	BONE SPRING	6.58	1594.98	1286	8	127	0.5	10	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	58.232	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	506.059	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	442.946	93828.2	678.602	1878.7	
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		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		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		119363	683.2	680	470
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		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		114242.9	2196	0	4.8
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	CAPITAN		22158						11170	274	2692	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	CAPITAN	8	22205	6502	1001		559		11176	274	2692	
SPIKE FEDERAL #001	3001527070	24	20S	28E	G	EDDY	DELAWARE	5.35	7792.03	496.451	1383.62	814.663	176.225	48.336	4767.14	92.644	31.217	
AVALON DELAWARE UNIT #262	3001524414	30	20S	28E	O	EDDY	DELAWARE	10	110018	67321	1064	0	566		105900	1320	1368	
STONEWALL EP STATE #003	3001522235	19	20S	28E	N	EDDY	DELAWARE	6.1			1600	100	5125.9		41535	122	25	
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	3001522135	19	20S	28E	N	EDDY	DELAWARE	8.5	37852	74405	2120	17	4280		130000	228	1152	
AVALON DELAWARE UNIT #242	3001524637	30	20S	28E	L	EDDY	DELAWARE	7.6	161114	59112.5	11871.7	18.904	2363	514.856	109216	691.664	1150.92	
SPIKE FEDERAL #001	3001527070	24	20S	28E	G	EDDY	DELAWARE	5.88	32128.8	5253.12	4235.26	1123.33	1028.1	361.472	20379.6	109.568	158.72	
STONEWALL EP STATE #002	3001522002	19	20S	28E	N	EDDY	MORROW	5.4			11000	8.8	1100.3		81792	122	1425	
OXY BULLDOG STATE #001	3001529234	16	20S	28E	H	EDDY	MORROW	7.15	31642.5	11185.7	919.032	104.856	160.368	176.816	19505.3	273.448	87.38	
GOVERNMENT S COM #009	3001528996	3	20S	28E	A	EDDY	MORROW	6.74	44978.3	15978.4	1345.45	197.952	251.564	43.302	27887.5	467.043	30.93	
FOXIE FEDERAL COM #001	3001521222	18	20S	28E	F	EDDY	MORROW	6.5	36641.8		1120	0	1555.2		23004	183	12.5	
STONEWALL EP STATE #002	3001522002	19	20S	28E	N	EDDY	MORROW	5.7			10360	37.5	638.4		94572	122	1375	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	RUSTLER	6.8	3735	581	571		230		130	98	2124	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	SAN ANDRES	7.3	210774						123500	847	4512	
STONEWALL EP STATE COM #004	3001522554	30	20S	28E	H	EDDY	STRAWN	7.2			1000	85	243.5		11502	122	2.5	
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	3728		580		230		130	98	2120	
EDDY STATE AD #001	3001502406	19	20S	28E	E	EDDY	TANSILL	6.8		581	228		56		130	120	2122	
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	
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	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	WOLFCAMP	5.7	297557						186000	143	447	
FED UNION #001	3001502416	22	20S	28E	O	EDDY	WOLFCAMP	6.7	55965						32400	252	2260	

CARLSBAD
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AFFIDAVIT OF PUBLICATION


Ad No.
0001278782

LONQUIST FIELD SERVICE
1001 MCKINNEY ST., SUITE 1650

HOUSTON TX 77002

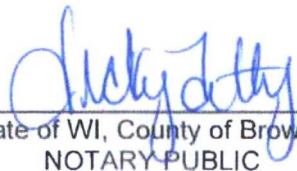
I, a legal clerk of the **Carlsbad Current-Argus**,
a newspaper published daily at the City of
Carlsbad, in said county of Eddy, state of New
Mexico and of general paid circulation in said
county; that the same is a duly qualified
newspaper under the laws of the State wherein
legal notices and advertisements 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

9-19-21

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 Capt Call SWD No. 1. The proposed well will be located 820' FSL & 300' FWL in Section 2, Township 20S, Range 28E 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 12,510 feet to a maximum depth of 14,310 feet. The maximum surface injection pressure will not exceed 2,502 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#:0001278782
P O : Capt. Call SWD
of Affidavits :0.00



Capt Call 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 - 7018 1830 0000 8887 9275	3/21/2019	
	OIL CONSERVATION DIVISION DISTRICT IV	1220 S ST FRANCIS DR, SANTA FE, NM 87505				
	SURFACE LANDOWNER	MAILING ADDRESS				
	Harley W. and Carol J. Ballard	1819-2 N Canal Street Carlsbad, NM 88220		USPS - 7018 1830 0000 8887 9299	3/21/2019	
	GOVERNMENT AGENCY	MAILING ADDRESS				
	Bureau of Land Management	620 E Greene Street Carlsbad, NM 88220		USPS - 7018 1830 0000 8887 9305	3/21/2019	
	New Mexico State Land Office	310 Old Sante Fe Trail Sante Fe, NM 87501		USPS - 7018 1830 0000 8887 9312	3/21/2019	
	AFFECTED PARTIES	MAILING ADDRESS				
	ARD Energy Group LP	222 W 4TH Street PH 5 Fort Worth, TX 76102		USPS - 7018 1830 0000 8887 9329	3/21/2019	
	Bill Seltzer	214 W Texas Street # 507 Midland, TX 79701		USPS - 7018 1830 0000 8887 9336	3/21/2019	
	Byrl W. Harris	1205 Caprock Hobbs, NM 88240		USPS - 7018 1830 0000 8887 9343	3/21/2019	
	C & J Investment Co	101 E Lohman Avenue Las Cruces, NM 88001		USPS - 7018 1830 0000 8887 9350	3/21/2019	
	Chisholm Energy Agent Inc	801 Cherry Street Suite 1200 Unit 20 Fort Worth, TX 76102-6825		USPS - 7018 1830 0000 8887 9367	3/21/2019	
	Clarence H. Albaugh	P.O. Box 48065 Los Angeles, CA 90048		USPS - 7018 1830 0000 8887 9374	3/21/2019	
	Clay Cooper	P. O. Box 117 Canyon, TX 79015		USPS - 7018 1830 0000 8887 9381	3/21/2019	
	Clifton E Shumate	1608 Northridge Drive Arlington, TX 76012		USPS - 7018 1830 0000 8887 9398	3/21/2019	
	Clinton H. Dean	6006 Balcones #32 El Paso, TX 79912		USPS - 7018 1830 0000 8887 9404	3/21/2019	
	COG Operating, LLC	600 W Illinois Avenue Midland, TX 79701-4882		USPS - 7018 1830 0000 8887 9411	3/21/2019	
	Colgate Operating, LLC	306 W Wall Street Suite 500 Midland, TX 79701		USPS - 7018 1830 0000 8887 9428	3/21/2019	
	Colgate Production LLC	306 W Wall Street Suite 500 Midland, TX 79701-5173		USPS - 7018 1830 0000 8887 9428	3/21/2019	
	Construction Enterprises, Inc.	2179 Edward Curd Lane Suite 100 Franklin, TN 37067		USPS - 7018 1830 0000 8887 9435	3/21/2019	
	CTL Oil & Gas Corporation	P.O. Box 10 Buchanan Dam, TX 78609		USPS - 7018 1830 0000 8887 9442	3/21/2019	
	D. W. Underwood	505 N Big Spring Street Suite 100 Midland, TX 79701		USPS - 7018 1830 0000 8887 9459	3/21/2019	
	D W UNDERWOOD & LOIS GERALDINE WILLIAMSON	P.O. Box 16 Midland, TX 79702		USPS - 7018 1830 0000 8887 9466	3/21/2019	
	David Levens (Levins)	2984 Corte De Espuelas Santa Fe, NM 87501		USPS - 7018 1830 0000 8887 9473	3/21/2019	
	Devon Energy Prod Co LP	333 W Sheridan Avenue Oklahoma City, OK 73102-5010		USPS - 7018 1830 0000 8887 9480	3/21/2019	
	DH Essex Agency Acct	303 W Wall Street Suite 902 Midland, TX 79701		USPS - 7018 1830 0000 8887 9497	3/21/2019	
	Diane S. Johnson	939 East Blvd. Unit 6F La Jolla, CA 92037		USPS - 7018 1830 0000 8887 9503	3/21/2019	
	Don Hofman	8096 State 209 Hwy Tucuman, NM 88401		USPS - 7018 1830 0000 8887 9510	3/21/2019	
	Elizabeth M. Locker	1610 Gulf Avenue Midland, TX 79705		USPS - 7018 1830 0000 8887 9527	3/21/2019	
	Elhwade Corporation	3520 96th Street Lubbock, TX 79423		USPS - 7018 1830 0000 8887 9534	3/21/2019	
	Endeavor Energy Resources LP	110 North Marienfeld Street Suite 200 Midland, TX 79701		USPS - 7018 1830 0000 8887 9541	3/21/2019	
	Enduro Operating LLC	777 Main Street Suite 800 Fort Worth, TX 76102-5350		USPS - 7018 1830 0000 8887 9558	3/21/2019	
	Energex Co	100 N Pennsylvania Avenue Roswell, NM 88201		USPS - 7018 1830 0000 8887 9565	3/21/2019	
	Eugene K. Jorgenson	12334 Broken Bough Houston, TX 77024		USPS - 7018 1830 0000 8887 9572	3/21/2019	
	George L Scott Jr	215 W 3RD Street Roswell, NM 88201		USPS - 7018 1830 0000 8887 9589	3/21/2019	
	Harold D Justice	1005 DE Bremond Drive Roswell, NM 88201		USPS - 7018 1830 0000 8887 9596	3/21/2019	
	Hillin Production Co	P.O. Box 152 Odessa, TX 79760		USPS - 7018 1830 0000 8887 9602	3/21/2019	
	Hutchings Oil Co	P.O. Box 1216 Albuquerque, NM 87102-1216		USPS - 7018 1830 0000 8887 9619	3/21/2019	
	J C Williamson	P.O. Box 16 Midland, TX 79702		USPS - 7018 1830 0000 8887 9626	3/21/2019	
	J. Manley Bryan	4028 Kentshire Lane Dallas, TX 75287		USPS - 7018 1830 0000 8887 9633	3/21/2019	
	J. R. Hutchens, Jr.	401 East 21 Street Tishomingo, OK 73460		USPS - 7018 1830 0000 8887 9640	3/21/2019	
	James L. Alford Jr	P.O. Box 489 McComb, MS 39648		USPS - 7018 1830 0000 8887 9657	3/21/2019	
	Javelina Partners	616 Texas Street Fort Worth, TX 76102-4612		USPS - 7018 1830 0000 8887 9664	3/21/2019	
	John R. Gray	P. O. Box 400 Ruidoso, NM 88355		USPS - 7018 1830 0000 8887 9671	3/21/2019	
	JTI Inc	5801 E 41 Street Suite 603 Tulsa, OK 74135		USPS - 7018 1830 0000 8887 9688	3/21/2019	
	K. G. MacCart Estate, Robert W. Downes, Jr. (Trustee)	619 Sheridan Woods Dr. Melbourne, FL 32904		USPS - 7018 1830 0000 8887 9695	3/21/2019	
	Kennedy Oil Company, Inc.	1203 Courtesy Road. High Point, NC 27260		USPS - 7018 1830 0000 8887 9701	3/21/2019	
	L. B. Meaders Estate	P. O. Box 50766 Dallas, TX 75250		USPS - 7018 1830 0000 8887 9718	3/21/2019	
	Lariat Petroleum, Inc. (Newfield Exploration Mid-Continent)	110 W. 7 Street Suite 1300 TULSA, OK 74119		USPS - 7018 1830 0000 8887 9725	3/21/2019	
	Liberty OG 1982-2	P.O. Box 430 Livonia, LA 70755-0430		USPS - 7018 1830 0000 8887 9732	3/21/2019	
	Liberty OG Corp	P.O. Box 430 Livonia, LA 70755-0430		USPS - 7018 1830 0000 8887 9732	3/21/2019	
	Low Partners LP	5151 San Felipe Street Suite 400 Houston, TX 77056		USPS - 7018 1830 0000 8887 9749	3/21/2019	
	M. E. Neesen	505 Lombardy Avenue El Paso, TX 79922		USPS - 7018 1830 0000 8887 9756	3/21/2019	
	Magnum Hunter Production Inc	202 S Cheyenne Avenue Suite 1000 Tulsa, OK 74103-3001		USPS - 7018 1830 0000 8887 9763	3/21/2019	
	Marathon Oil Permian LLC	5555 San Felipe Street Houston, TX 77056-2701		USPS - 7018 1830 0000 8887 9770	3/21/2019	
	Mark T Owen	P.O. Box 1799 Midland, TX 79702		USPS - 7018 1830 0000 8887 9787	3/21/2019	
	Maurice Mordka	1800 N Grady Avenue Tucson, AZ 85715-4510		USPS - 7018 1830 0000 8887 9794	3/21/2019	
	Michael D Hayes	P.O. Box 1799 Midland, TX 79702		USPS - 7018 1830 0000 8887 9800	3/21/2019	
	Michael T Halbouty	5100 Westheimer Road Houston, TX 77058		USPS - 7018 1830 0000 8887 9817	3/21/2019	

Orion OG Properties	P.O. Box 2523 Roswell, NM 88202	USPS - 7018 1830 0000 8887 9824	3/21/2019
Oxy USA WTP LP	P. O. Box 4294 Houston, TX 77210-4294	USPS - 7018 1830 0000 8887 9831	3/21/2019
Oxy USA WTP LP	5 Greenway Plaza Suite 110 Houston, TX 77046-0521	USPS - 7018 1830 0000 8887 9848	3/21/2019
Oxy USA, Inc	5 Greenway Plaza Suite 110 Houston, TX 77046-0521	USPS - 7018 1830 0000 8887 9848	3/21/2019
Penroc Oil Corporation	P.O. Box 2769 Hobbs, NM 88241	USPS - 7018 1830 0000 8887 9855	3/21/2019
Petroleum Synergy Group Inc	1641 California Street Suite 410 Denver, CO 80202	USPS - 7018 1830 0000 8887 9862	3/21/2019
R. N. Hillin	20 Via Playa Drive Odessa, TX 79762	USPS - 7018 1830 0000 8887 9879	3/21/2019
Riverhill Energy Company	P.O. Box 2726 Midland, TX 79702-2726	USPS - 7018 1830 0000 8887 9886	3/21/2019
Robert E. Haynsworth	P.O. Box 3237 El Paso, TX 79923	USPS - 7018 1830 0000 8887 9893	3/21/2019
Robert K Hillin	P.O. Box 1552 Midland, TX 79702	USPS - 7018 1830 0000 8887 9909	3/21/2019
Sharon W Scott	215 W 3RD Street Roswell, NM 88201-4604	USPS - 7018 1830 0000 8887 9916	3/21/2019
SM Energy Company	1775 Sherman Street Suite 1200 Denver, CO 80203-1100	USPS - 7018 1830 0000 8887 9923	3/21/2019
St Mary Land & Expl	1776 Lincoln Street Suite 1100 Denver, CO 80203-1080	USPS - 7018 1830 0000 8887 9930	3/21/2019
Strata Production Co	P.O. Box 1030 Roswell, NM 88202-1030	USPS - 7018 1830 0000 8887 9947	3/21/2019
Tandem Oil Co	11759 San Vicente Suite 2 Los Angeles, CA 90049	USPS - 7018 1830 0000 8887 9954	3/21/2019
Te-Ray Resources Inc	1105 Sovereign Row Unit C Oklahoma City, OK 73108	USPS - 7018 1830 0000 8887 9961	3/21/2019
Tim N Throckmorton	6126 Longmont Drive Houston, TX 77057-1816	USPS - 7018 1830 0000 8887 9978	3/21/2019
Tom P Stephens Trust	3707 Camp Bowle Blvd Suite 220 Fort Worth, TX 76107-3330	USPS - 7018 1830 0000 8887 9985	3/21/2019
W D Kennedy	550 W Texas Avenue Suite 1225 Midland, TX 79701	USPS - 7018 1830 0000 8887 9992	3/21/2019
W. P. Curtis	520 Linda Avenue El Paso, TX 79922	USPS - 7018 1830 0000 8888 0004	3/21/2019
XTO Holdings LLC	22777 Springwoods Village Pkwy Spring, TX 77389-1425	USPS - 7018 1830 0000 8888 2510	3/21/2019
Zorro Partners Ltd	616 Texas Street Fort Worth, TX 76102-4612	USPS - 7018 1130 0001 5497 0032	3/21/2019