JUN 10 2019 PM03:59

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
06/10/2019			DMAM 19164 43966

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: Seige 165 State 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

FOR OCD ONLY

☐ Notice Complete

☐ Application Content Complete

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

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.

May 30, 2019
Date

Ramona Hovey – Agent of Solaris Water Midstream
Print or Type Name

(512) 600-1777
Phone Number

Ramona K Hovey
Signature

ramona@lonquist.com
e-mail Address

LONQUIST & CO. LLC

PETROLEUM ENGINEERS | ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

JUN 10 2019 PM03:59

May 30, 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: SIEGE 165 STATE 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") Siege 165 State 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

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

(512) 600-1777
ramona@lonquist.com

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance ___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: 5/30/2019

E-MAIL ADDRESS: ramona@lonquist.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Siege 165 State SWD No. 1

WELL LOCATION: 565' FSL 275' FWL (FOOTAGE LOCATION) | M (UNIT LETTER) | 2 (SECTION) | 24S (TOWNSHIP) | 29E (RANGE)

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 18.125"

Cemented with: 608 sx.

Top of Cement: surface

Casing Size: 16.00"

or _____ ft³

Method Determined: circulation

Intermediate Casing

Hole Size: 14.750"

Cemented with: 603 sx.

Top of Cement: surface

Casing Size: 13.375"

or _____ ft³

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Cemented with: 2,028 sx.

Top of Cement: surface

Casing Size: 9.625"

or _____ ft³

Method Determined: circulation

Liner

Hole Size: 8.500"

Cemented with: 536 sx.

Top of Cement: 10,161

Total Depth: 16,361'

Casing Size: 7.625"

or _____ ft³

Method Determined: calculation

Injection Interval

15,208 feet to 16,361 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 9,961' and 5", 18 lb/ft, HCL-80, LTC from 9,961' -15,158'
Lining Material: Duoline

Type of Packer: Nickel Plated Double Grip Retrievable Packer or Equivalent

Packer Setting Depth: 15,158'

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

Additional Data

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

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

   _____

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   No, new drill.

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

Bell Canyon:	3,319'	Atoka:	12,516'
Cherry Canyon:	4,123'	Morrow:	13,161'
Brushy Canyon:	5,361'	Mississippian:	14,055'
Bone Spring:	6,928'		
Wolfcamp:	10,261'		
Strawn:	12,211'		

Solaris Water Midstream, LLC

Siege 165 State SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Siege 165 State SWD
Well No.	1
Location	S-2 T-24S R-29E
Footage Location	565' FSL & 275' FWL

2.

a. Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	16"	13.375"	9.625"	7.625"
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	18.125"	14.75"	12.25"	8.5"
Depth Set	657'	3,280'	10,361'	10,161' – 15,208'

b. Cementing Program

Cement Information					
Casing String	Conductor	Surface	Intermediate	Production	Liner
Lead Cement	EXTENDACEM™	HALCEM™	HALCEM™	NEOCEM™ IL2	NEOCEM™
Lead Cement Volume (sacks)	250	-	450	Stage 1: 1049 Stage 2: 300	-
Lead Cement Density (ft3/sack)	1.694	-	1.664	Stage 1: 2.731 Stage 2: 2.732	-
Tail Cement	-	HALCEM™	HALCEM™	NEOCEM™/HALCEM™	VERSACEM™
Tail Cement Volume (sacks)	-	608	153	Stage 1: 475 Stage 2: 204	536
Tail Cement Density (ft3/sack)	-	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	1.223
Cement Excess	0%	50%	30%	50%, 50%	50%
Total Sacks	250	608	603	2,028	536
TOC	Surface	Surface	Surface	Surface	10,161'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information	
OD	5.5" 5.0"
WT	0.361" 0.362"
ID	4.778" 4.276"
Drift ID	4.653" 4.151"
COD	6.050" 5.563"
Weight	20 lb/ft 18 lb/ft
Grade	HCL-80 BTC HCL-80 LTC
Depth Set	0-9,961' 9,961'-15,158'

Tubing will be lined with Duoline.

4. Packer Description

   Nickel Plated Double Grip Retrievable Packer or Equivalent

B. Completion Information

1. Injection Formation: Devonian, Fusselman
2. Gross Injection Interval: 15,208'-16,361'

   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
Bell Canyon	3,319'
Cherry Canyon	4,123'
Brushy Canyon	5,361'
Bone Spring	6,928'
Wolfcamp	10,261'
Strawn	12,211'
Atoka	12,516'
Morrow	13,161'
Mississippian	14,055'

VI. Area of Review

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

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injected:

   Average Volume: 30,000 BPD
   Maximum Volume: 40,000 BPD
2. Closed System
3. Anticipated Injection Pressure:

Average Injection Pressure: 2,281 PSI (surface pressure)
Maximum Injection Pressure: 3,042 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 Avalon, Bone Spring, Delaware, and Morrow formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Avalon, Atoka, Bone Spring, Delaware , Morrow, Pennsylvanian, 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 Siege 165 State SWD No. 1 well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Rustler	342'
Salado (Top of Salt)	682'
Lamar	3,260'
Bell Canyon	3,319'
Cherry Canyon	4,123'
Brushy Canyon	5,361'
Bone Spring	6,928'
Bone Spring 1st LS	7,856'
Bone Spring 1st SS	7,992'
Bone Spring 2nd LS	8,470'
Bone Spring 2nd SS	8,831'
Bone Spring 3rd LS	9,717'
Bone Spring 3rd SS	9,922'
Upper Wolfcamp	10,261'
Lower Wolfcamp	11,083'
Strawn	12,211'
Atoka	12,516'
Morrow	13,161'
Lower Morrow	13,902'
Mississippian (Upper)	14,055'
Mississippian (Lower)	14,621'
Woodford	15,057'
Devonian	15,208'
Fusselman	15,688'
Montoya	16,361'

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 80 feet and an average water depth of 39 feet generally producing from the Carlsbad 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 there are no water wells that exist within a one-mile radius of the proposed well, chemical analysis of fresh water wells were not retrieved for the proposed well.

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
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	2. OGRID Number
SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706	371643
	3. API Number TBD

4. Property Code	5. Property Name	6. Well No.
	SIEGE 165 STATE SWD	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	2	24 S	29 E		565	S	275	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; Devonian-Silurian	97869

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	Private	3,050'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	16,361'	Devonian-Silurian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
39'	>1 mile	>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	657'	608	Surface
Intermediate	14.75"	13.375"	68 lb/ft	3,280'	603	Surface
Production	12.25"	9.625"	53.5 lb/ft	10,361'	2,028	Surface
Liner	8.5"	7.625"	39 lb/ft	10,161'-15,208'	536	10,161
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' – 9,961' & 9,961' – 15,158'	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 C Hovey		OIL CONSERVATION DIVISION	
		Approved By:	
Printed name: Ramona Hovey		Title:	
Title: Consulting Engineer		Approved Date:	Expiration Date:
E-mail Address: ramona@lonquist.com			
Date: May 30, 2019	Phone: 512-600-1777	Conditions of Approval Attached	

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	97869	SWD; Devonian-Silurian

Property Code	Property Name	Well Number
	SIEGE 165 STATE SWD	1

OGRID No.	Operator Name	Elevation
371643	SOLARIS WATER MIDSTREAM	3050'

Surface Location

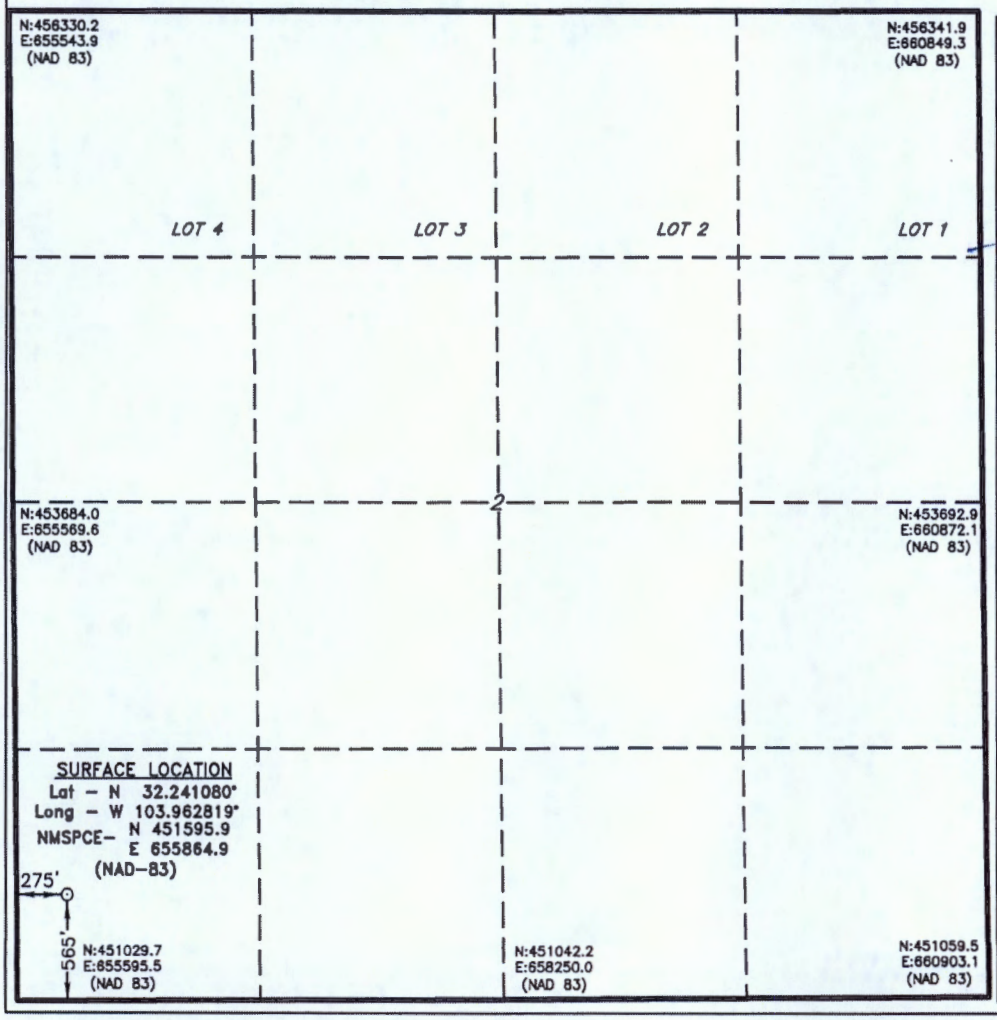
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	24 S	29 E		565'	SOUTH	275'	WEST	EDDY

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 K. Hovey 5/30/19
Signature Date

Ramona K. Hovey
Printed Name

ramona@lonquist.com
Email Address

SURVEYOR CERTIFICATION

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

APRIL 3, 2019
Date Surveyed

Signature & Seal of Professional Surveyor

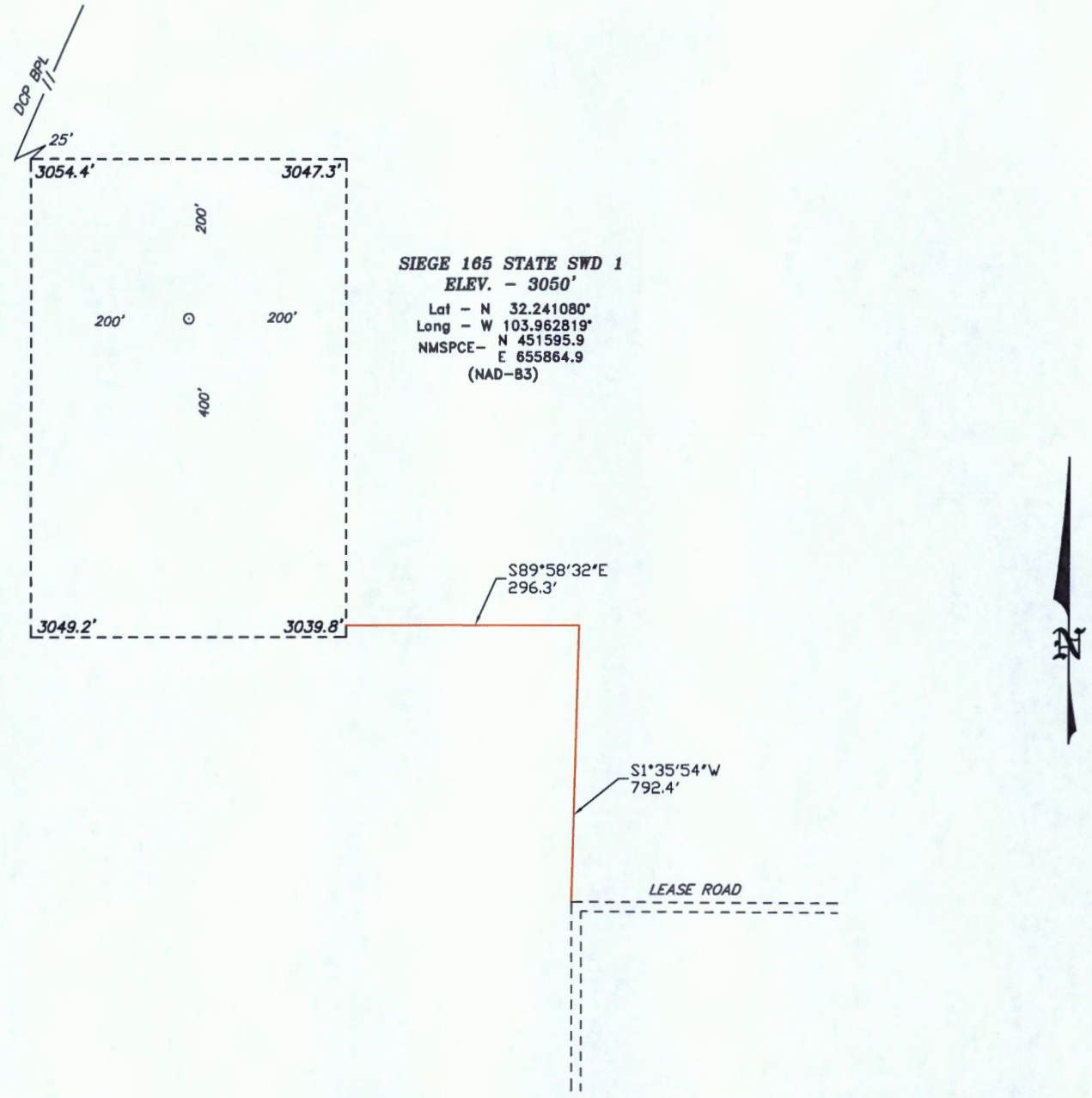
GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number Gary L. Jones 7977

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34456

SECTION 2 TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,

EDDY COUNTY, **NEW MEXICO.**



MALAGA, NM IS ±6 MILES TO THE SOUTHWEST OF LOCATION.

200 0 200 400 FEET

SCALE: 1" = 200'

SOLARIS WATER MIDSTREAM

REF: SIEGE 165 STATE SWD 1 / WELL PAD TOPO

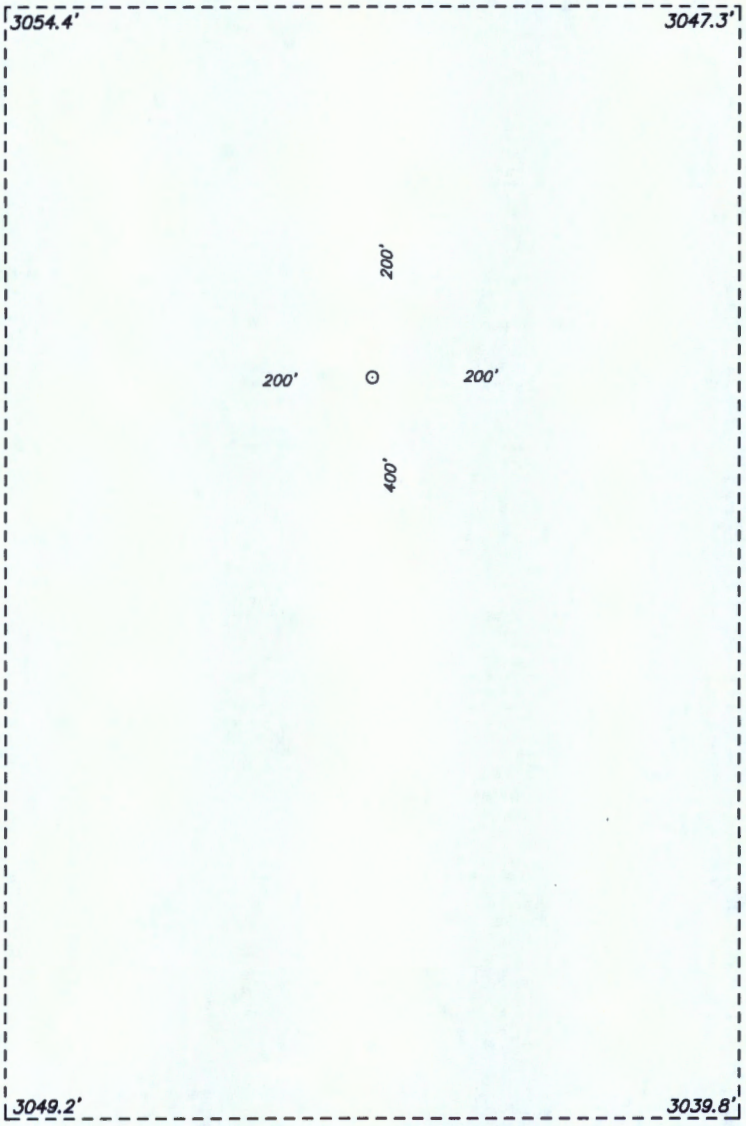
THE RSIEGE 165 STATE SWD 1 LOCATED 565' FROM THE SOUTH LINE AND 275' FROM THE WEST LINE OF SECTION 2, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: 34456	Drawn By: J GOAD	Date: 4-9-2019	Survey Date: 4-3-2019	Sheet 1 of 1 Sheets

SECTION 2 TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO.





100 0 100 200 FEET

SCALE: 1" = 100'

SOLARIS WATER MIDSTREAM

REF: SIEGE 165 STATE SWD 1 / WELL PAD TOPO

THE RSIEGE 165 STATE SWD 1 LOCATED 565' FROM THE SOUTH LINE AND 275' FROM THE WEST LINE OF SECTION 2, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: 34456	Drawn By: J GOAD	Date: 4-9-2019	Survey Date: 4-3-2019	Sheet 1 of 1 Sheets



SIEGE 165 STATE SWD 1

Located 565' FSL & 275' FWL
Section 2, Township 24 South, Range 29 East,
N.M.P.M., Eddy County, New Mexico.

Basin Surveys
focused on excellence in the oilfield
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(575) 393-7316 - Office
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basinsurveys.com

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

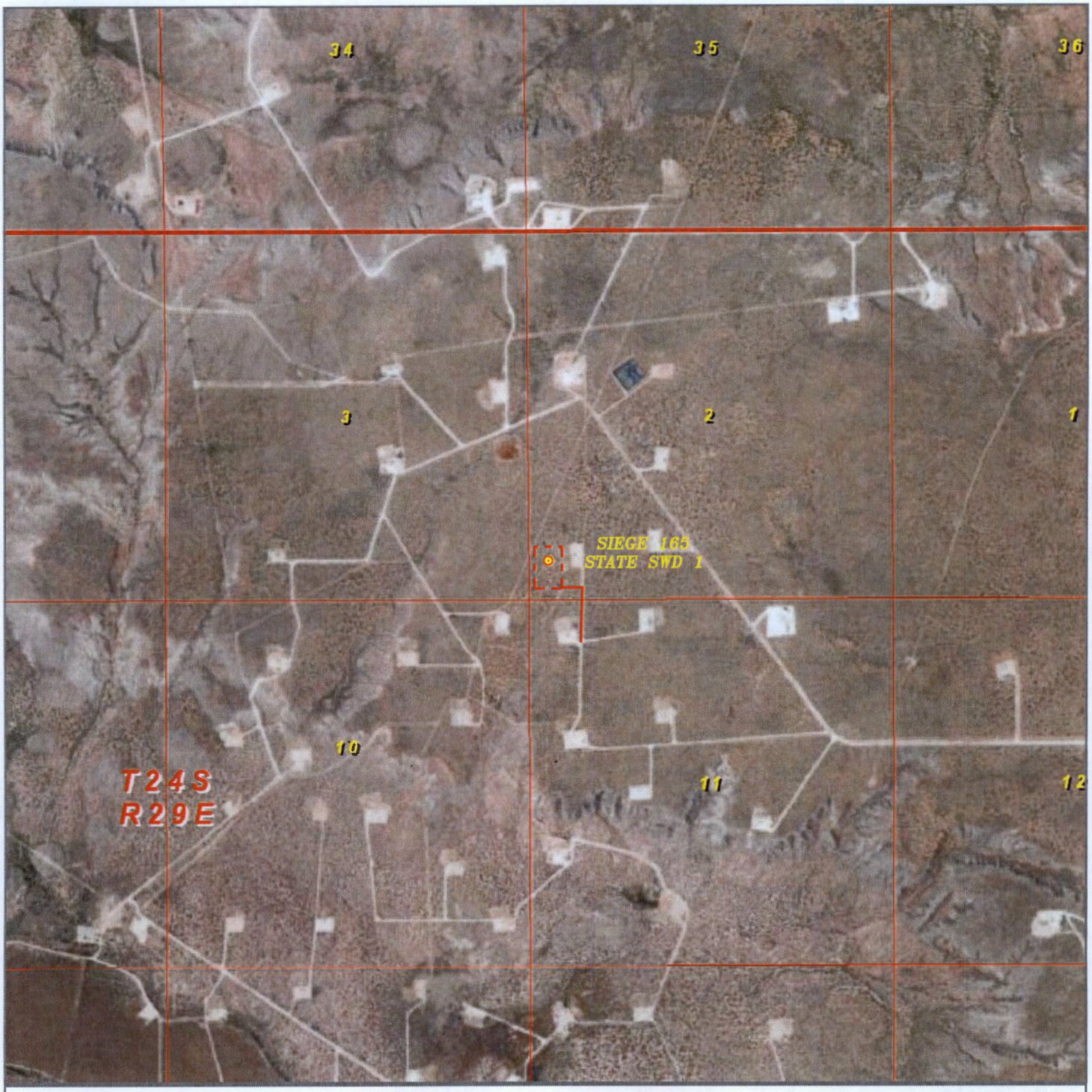
W.O. Number: JG - 34456

Survey Date: 4-3-2019

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

N

SOLARIS WATER MIDSTREAM



SIEGE 165 STATE SWD 1

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

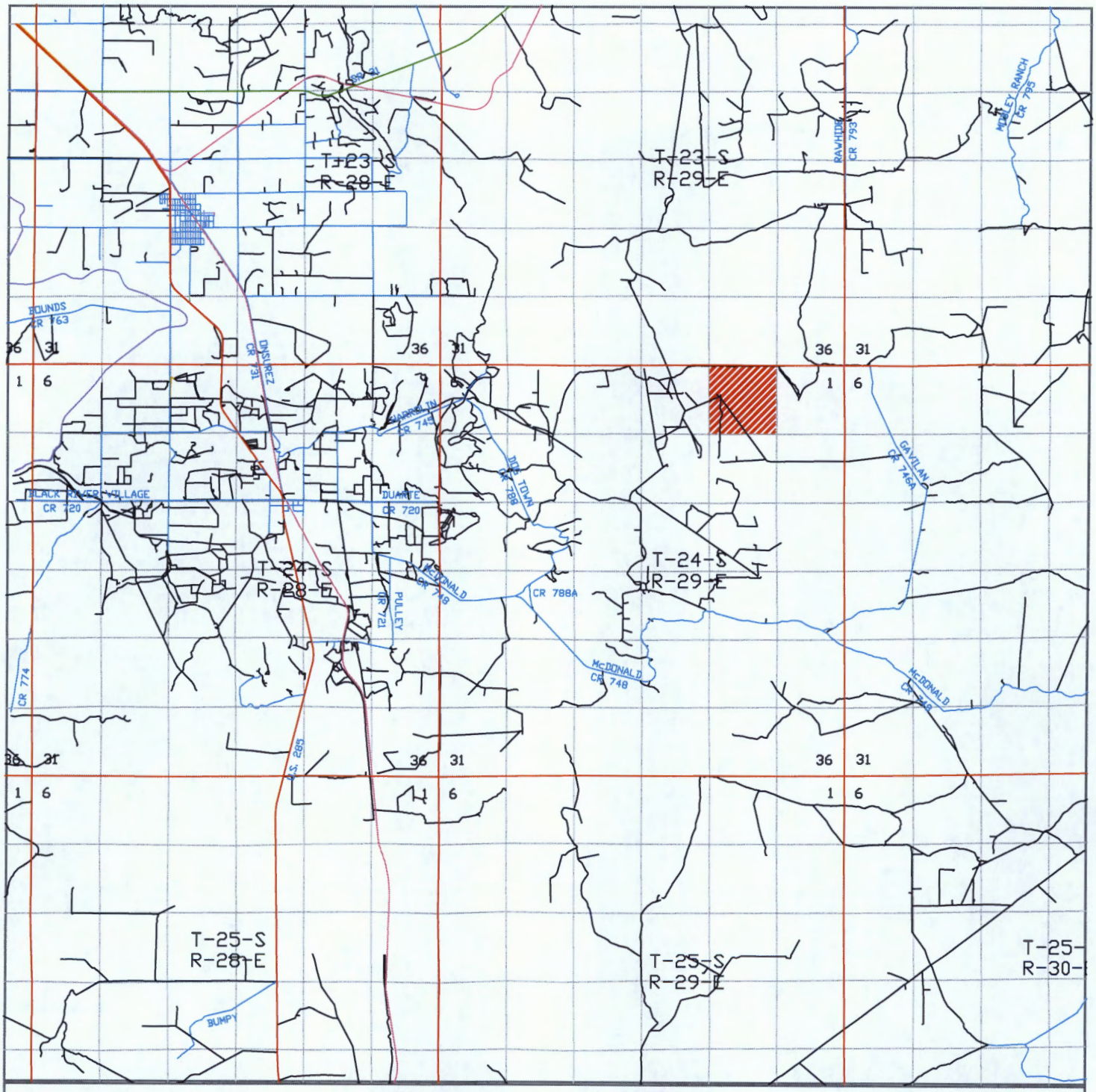
W.O. Number: JG - 34456

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YELLOW TINT - USA LAND
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N

SOLARIS WATER MIDSTREAM



SIEGE 165 STATE SWD 1

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

W.O. Number: JG – 34456

Survey Date: 4-3-2019

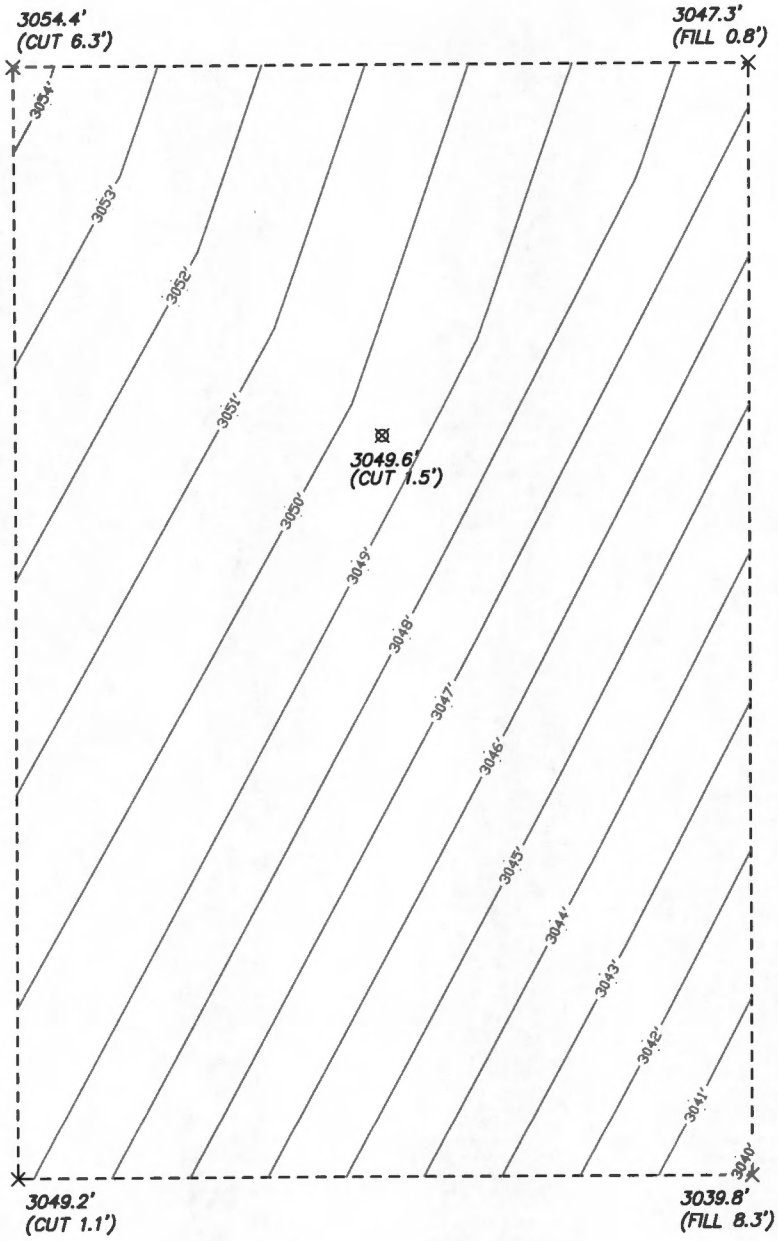
YELLOW TINT – USA LAND
BLUE TINT – STATE LAND
NATURAL COLOR – FEE LAND

N

SOLARIS WATER MIDSTREAM

SECTION 2 TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.,

EDDY COUNTY, NEW MEXICO.



SOLARIS WATER MIDSTREAM

REF: SIEGE 165 STATE SWD 1 / CUT & FILL

THE RSIEGE 165 STATE SWD 1 LOCATED 565' FROM THE SOUTH LINE AND 275' FROM THE WEST LINE OF SECTION 2, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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W.O. Number: 34456	Drawn By: J GOAD	Date: 4-9-2019	Survey Date: 4-3-2019	Sheet 1 of 1 Sheets

SOLARIS WATER MIDSTREAM, LLC
PROPOSED SEIGE 165 SWD 1
GEOLOGIC PROGNOSIS
REVISED
11-12-2018
Bruce C. Miller
Petroleum Geologist

KB: 3,065 (estimated 15' above GL))
GL: 3,050 (surveyed)
Proposed TD: 16,580
Proposed injection interval: 15,208' – 16,580'
Silurian ("Devonian"), Fusselman, Montoya

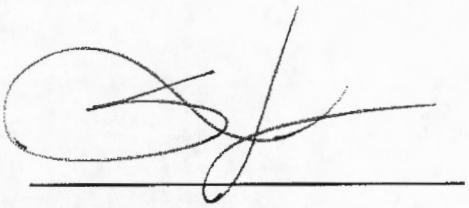
LOCATION: **surveyed lat/lon (NAD 83)**
LAT: 32.241080
LON: -103.962819

Section 2
T24S R29E
565 FSL
275 FWL
Eddy County, NM

TOPS	MD	SUBSEA	
Rustler	342	+2,821	
Lamar	3,260	-97	
Bell Canyon	3,319	-156	
Cherry Canyon	4,123	-960	
Brushy Canyon	5,361	-2,198	
Bone Springs ls	6,928	-3,765	
First Bone Springs lime	7,856	-4,693	
First Bone Springs ss	7,992	-4,829	
Second Bone Springs lime	8,470	-5,307	
Second Bone Springs ss	8.831	-5,668	
Third Bone Springs lime	9,717	-6,554	
Third Bone Springs ss	9,922	-6,759	
Wolfcamp upper	10,261	-7,098	
Wolfcamp lower	11,083	-7,920	
Strawn	12,211	-9,048	
Atoka	12,516	-9,353	
Morrow	13,161	-9,998	
Lower Morrow	13,902	-10,739	
Mississippian (upper)	14,055	-10,892	
Mississippian (lower)	14,621	-11,458	
Woodford	15,057	-11,894	
Silurian ("Devonian")	15,208	-12,045	
Fusselman	15,688	-12,525	
Montoya	16,361	-13,189	
Simpson	16,679	-13,516	BELOW TD

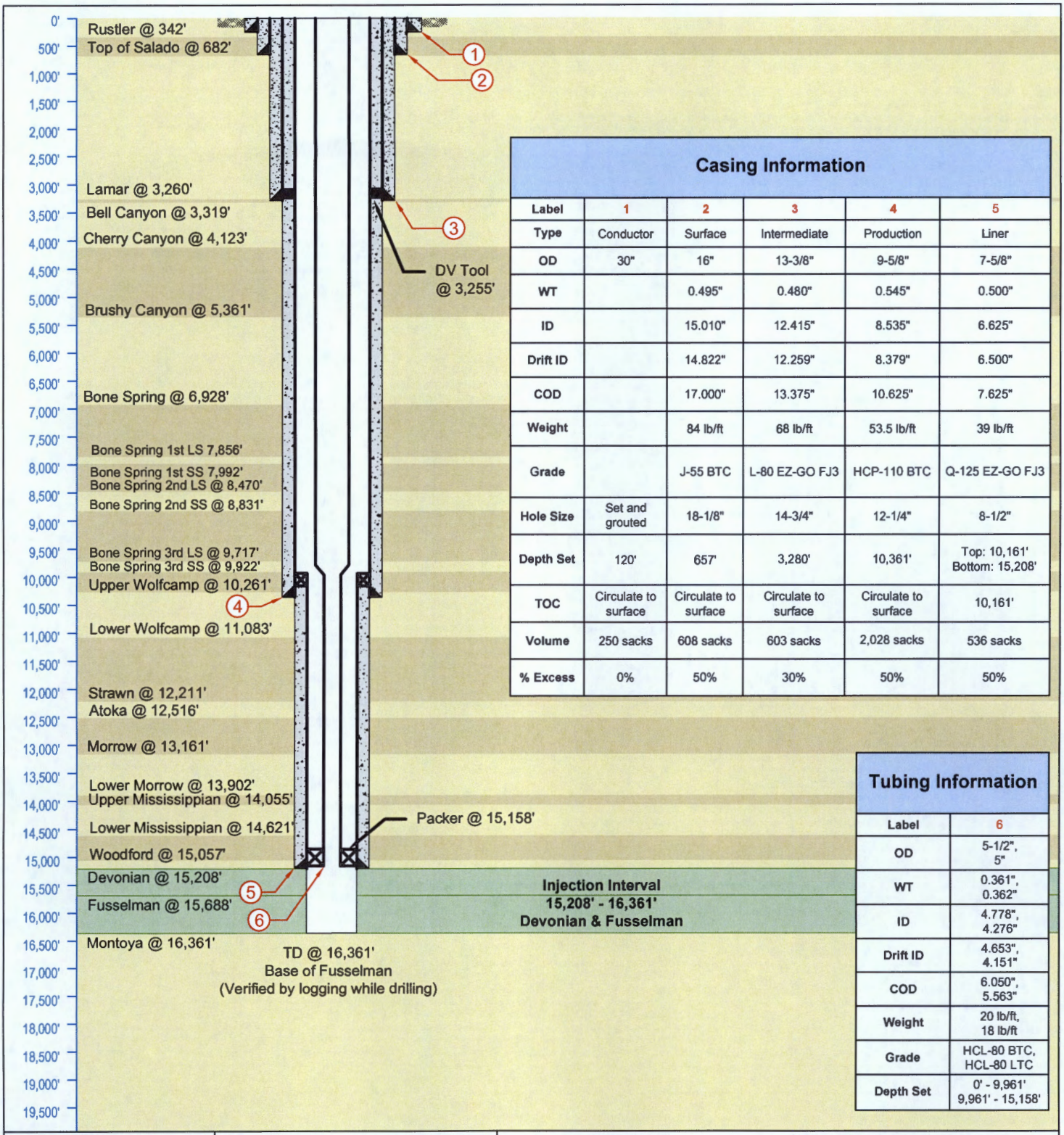
GEOLOGIC AFFIRMATION

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



Stephen Martinez
Sr. Vice President of Drilling

Project: Solaris Water Midstream, LLC
Siege 165 State SWD #1



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'	657'	3,280'	10,361'	Top: 10,161' Bottom: 15,208'
TOC	Circulate to surface	Circulate to surface	Circulate to surface	Circulate to surface	10,161'
Volume	250 sacks	608 sacks	603 sacks	2,028 sacks	536 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' - 9,961' 9,961' - 15,158'

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

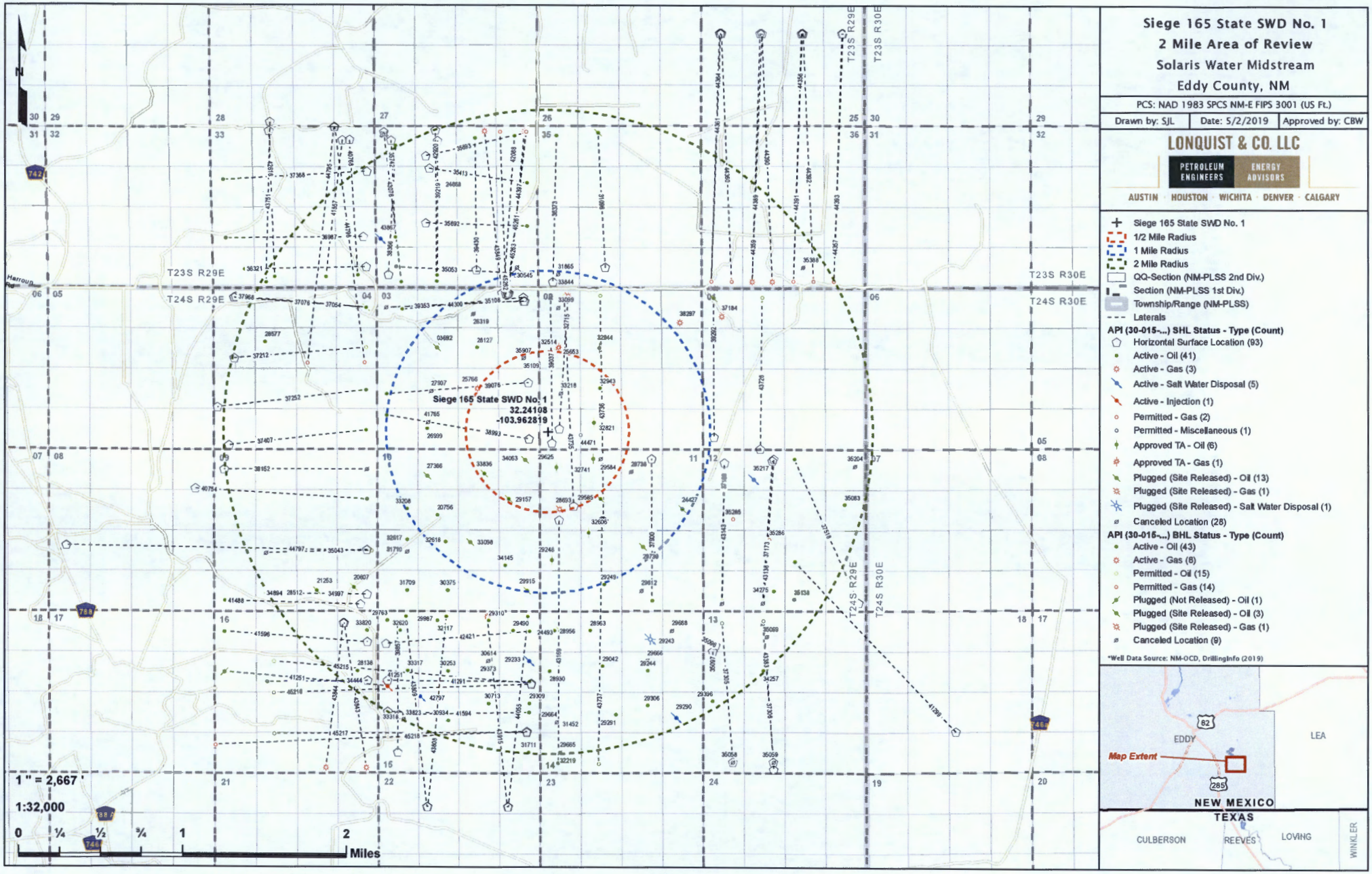
Texas License F-9147

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

Solaris Water Midstream, LLC

Siege 165 State SWD No. 1

Country: USA	**State/Province:** New Mexico	**County/Parish:** Eddy
Location:	**Site:** 565' FSL & 275' FWL	**Survey:** S2-T24S-R29E
API No: NA	**Field:** Devonian-Silurian (Code: 97869)	**Well Type/Status:** SWD
NMOCD District No: 2	**Project No:** 1979	**Date:** 4/30/2019
Drawn: TFM	**Reviewed:**	**Approved:**
Rev No: 1	**Notes:**	



Siege 165 State 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: 5/2/2019	Approved by: CBW

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

- Siege 165 State 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 (93)
- Active - Oil (41)
- Active - Gas (3)
- Active - Salt Water Disposal (5)
- Active - Injection (1)
- Permitted - Gas (2)
- Permitted - Miscellaneous (1)
- Approved TA - Oil (6)
- Approved TA - Gas (1)
- Plugged (Site Released) - Oil (13)
- Plugged (Site Released) - Gas (1)
- Plugged (Site Released) - Salt Water Disposal (1)
- Canceled Location (28)

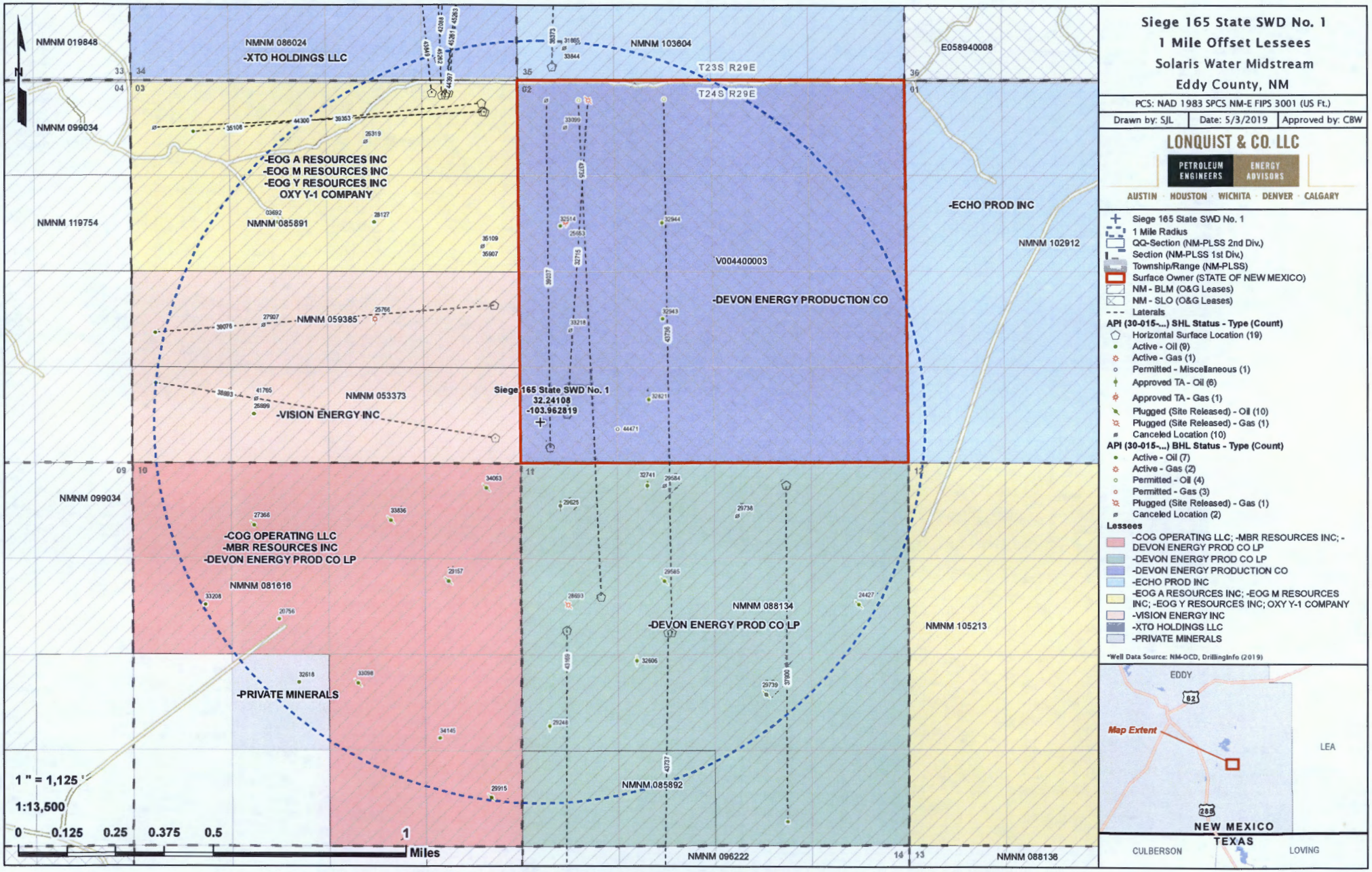
API (30-015-...) BHL Status - Type (Count)

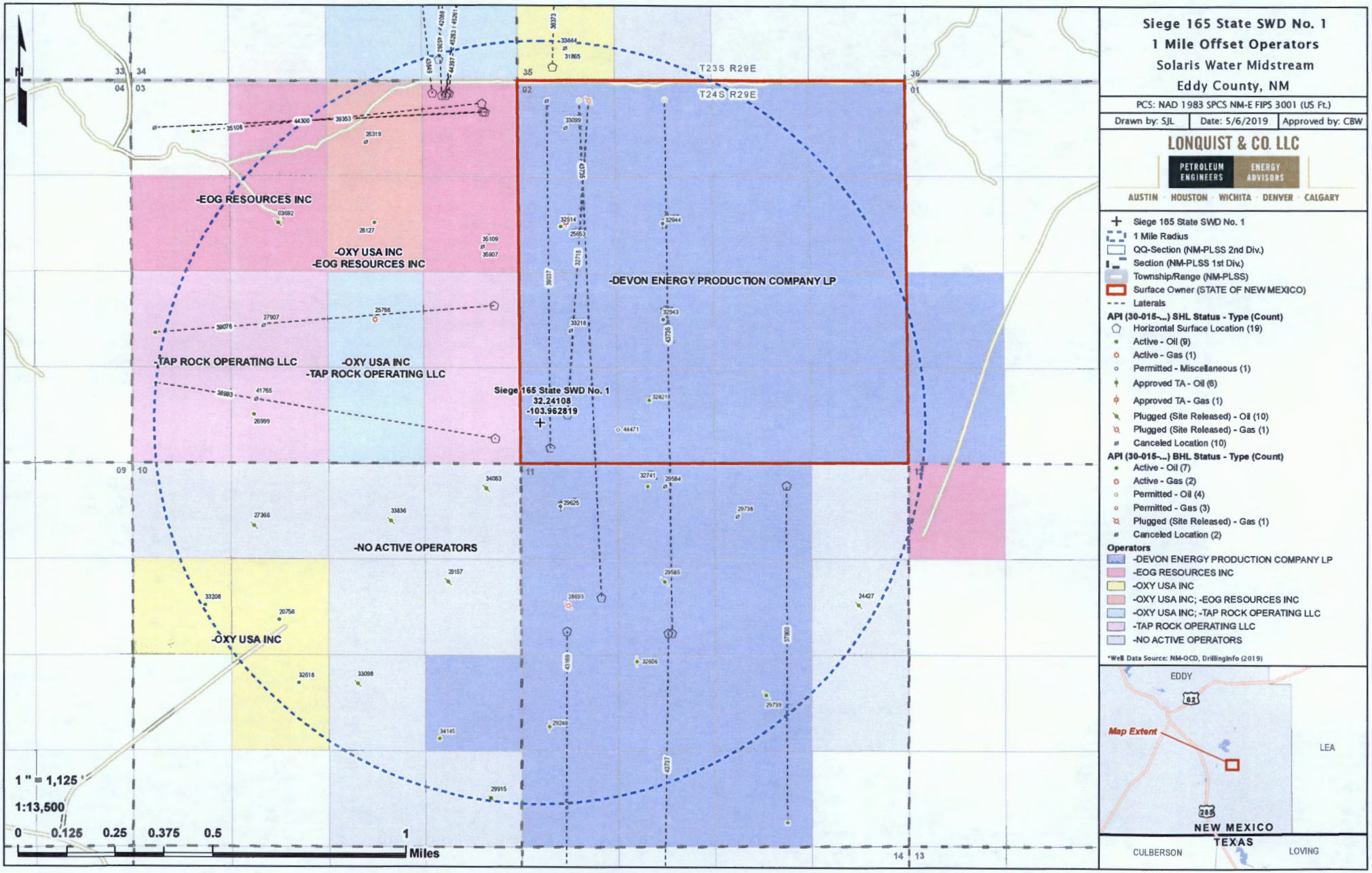
- Active - Oil (43)
- Active - Gas (8)
- Permitted - Oil (15)
- Permitted - Gas (14)
- Plugged (Not Released) - Oil (1)
- Plugged (Site Released) - Oil (3)
- Plugged (Site Released) - Gas (1)
- Canceled Location (9)

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

Siege 165 State 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
03692	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	NR	32.2485962000	-103.974556000	NR	NR
20756	RIVER BEND 10 FEDERAL #002	O	A	OXY USA INC	13859	32.2334976000	-103.974548300	9/26/2004	[11520] CEDAR CANYON, BONE SPRING
24427	POCHE FEDERAL #001	O	P	EXXON CORPORATION	7102	32.2340240000	-103.948776200	2/24/1983	WILDCAT - BONE SPRING
25653	H B STATE #001	G	T	DEVON ENERGY PRODUCTION COMPANY, LP	14030	32.2485619000	-103.961715700	11/19/1986	[74480] CEDAR CANYON, MORROW (GAS)
25766	H. B. 3 FEDERAL #001	G	A	TAP ROCK OPERATING, LLC	13933	32.2449226000	-103.970230100	7/22/1987	[11520] CEDAR CANYON, BONE SPRING; [74480] CEDAR CANYON, MORROW (GAS)
26319	H. B. 3B FEDERAL #001	O	C	SANTA FE ENERGY OPERATING PARTNERS, L.P.	0	32.2516641644	-103.970631395	-	[74480] CEDAR CANYON, MORROW (GAS)
26999	H. B. 3 FEDERAL #002	O	A	TAP ROCK OPERATING, LLC	8010	32.2413101000	-103.975624100	7/11/1992	[11520] CEDAR CANYON, BONE SPRING
27366	CEDAR CANYON 10 FEDERAL #001	O	P	COG OPERATING LLC	8025	32.2370758000	-103.975624100	6/18/1993	[11520] CEDAR CANYON, BONE SPRING; [11560] CEDAR HILLS, BONE SPRING
27907	H. B. 3 FEDERAL #003	O	C	VISION ENERGY INC	0	32.2447000000	-103.975200000	-	
28127	KNOLL AOK FEDERAL #001	O	A	EOG RESOURCES INC	8250	32.2485847000	-103.970253000	10/25/1994	[11520] CEDAR CANYON, BONE SPRING
28693	H B 11 FEDERAL #001	G	P	DEVON ENERGY PRODUCTION COMPANY, LP	14010	32.2340126000	-103.961647000	11/30/1995	[74480] CEDAR CANYON, MORROW (GAS); [97050] LAGUNA GRANDE, WOLFCAMP (G)(ABOLISH; [98220] PURPLE SAGE, WOLFCAMP (GAS)
29157	H B 10 FEDERAL #001	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8290	32.2349281000	-103.966987600	10/6/1996	[11520] CEDAR CANYON, BONE SPRING
29248	H B 11 FEDERAL #002	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8200	32.2294083000	-103.962486300	11/18/1996	[96473] PIERCE CROSSING, BONE SPRING, EAST
29584	H B 11 FEDERAL #005	O	C	DEVON SFS OPERATING INC	0	32.2385435258	-103.957355920	-	
29585	H B 11 FEDERAL #006	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8450	32.2349243000	-103.957382200	5/14/1997	[96473] PIERCE CROSSING, BONE SPRING, EAST
29625	H B 11 FEDERAL #004	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8505	32.2377777000	-103.961975100	6/2/1997	[96473] PIERCE CROSSING, BONE SPRING, EAST
29738	H B 11 FEDERAL #009	O	C	DEVON SFS OPERATING INC	0	32.2373917323	-103.954143042	-	
29739	H B 11 FEDERAL #011	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8460	32.2306061000	-103.952880900	10/31/1997	[11540] CEDAR CANYON, DELAWARE; [96473] PIERCE CROSSING, BONE SPRING, EAST
29915	H B 10-A FEDERAL #008	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8214	32.2266884000	-103.965072600	12/3/1997	[11520] CEDAR CANYON, BONE SPRING
31865	GOODNIGHT 35 FEDERAL #003	G	C	KUKUI OPERATING COMPANY	0	32.2552153403	-103.961750990	-	
32514	HB 2 STATE #002	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8440	32.2484245000	-103.961959800	3/26/2003	[11520] CEDAR CANYON, BONE SPRING
32606	H B 11 FEDERAL #007	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8401	32.2318878000	-103.958610500	3/7/2003	[50371] PIERCE CROSSING, BONE SPRING
32618	HARROUN 10 #004	O	A	OXY USA INC	8000	32.2310867000	-103.973671000	11/5/2003	[96473] PIERCE CROSSING, BONE SPRING, EAST
32715	H B 2 STATE #003	G	P	DEVON ENERGY PRODUCTION COMPANY, LP	14083	32.2412720000	-103.961669900	4/18/2003	[11520] CEDAR CANYON, BONE SPRING; [74480] CEDAR CANYON, MORROW (GAS)
32741	H B 11 FEDERAL #005	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8497	32.2385521000	-103.958129900	8/4/2003	[96473] PIERCE CROSSING, BONE SPRING, EAST
32821	H B 2 STATE #004	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8401	32.2418251000	-103.958046000	7/27/2003	[11520] CEDAR CANYON, BONE SPRING
32943	H B 2 STATE #005	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8400	32.2449036000	-103.957420300	8/13/2003	[11520] CEDAR CANYON, BONE SPRING
32944	H B 2 STATE #006	O	T	DEVON ENERGY PRODUCTION COMPANY, LP	8400	32.2485542000	-103.957443200	9/20/2003	[11520] CEDAR CANYON, BONE SPRING
33098	H B 10 FEDERAL #002	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8150	32.2310524000	-103.971031200	8/5/2004	[96473] PIERCE CROSSING, BONE SPRING, EAST
33099	H B 2 STATE #007	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2521915649	-103.961729082	-	[11520] CEDAR CANYON, BONE SPRING
33208	RIVER BEND 10 FEDERAL #001	O	A	OXY USA INC	8000	32.2340622000	-103.977752700	6/27/2004	[11520] CEDAR CANYON, BONE SPRING; [50371] PIERCE CROSSING, BONE SPRING
33218	H B 2 STATE #008C	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2444775228	-103.961516879	-	[11520] CEDAR CANYON, BONE SPRING
33836	H B 10 FEDERAL #005	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8100	32.2372475000	-103.969543500	3/6/2005	[11520] CEDAR CANYON, BONE SPRING; [11540] CEDAR CANYON, DELAWARE
33844	GOODNIGHT 35 FEDERAL #002	G	C	LATIGO PETROLEUM, INC.	0	32.2552153403	-103.961750990	-	[74480] CEDAR CANYON, MORROW (GAS)
34063	H B 10 FEDERAL #004	O	P	DEVON ENERGY PRODUCTION COMPANY, LP	8250	32.2384720000	-103.965278600	9/11/2005	[11520] CEDAR CANYON, BONE SPRING
34145	H B 10 FEDERAL #003	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8100	32.2289505000	-103.967369100	6/7/2005	[50371] PIERCE CROSSING, BONE SPRING
35108	KNOLL AOK FEDERAL #002H	O	A	EOG RESOURCES INC	7914	32.2531052000	-103.965431200	4/25/2008	[11520] CEDAR CANYON, BONE SPRING
35109	KNOLL AOK FEDERAL #003C	O	C	EOG Y RESOURCES, INC.	0	32.2476629494	-103.965405524	-	[11520] CEDAR CANYON, BONE SPRING
35907	KNOLL AOK FEDERAL #003H	O	A	EOG RESOURCES INC	12230	32.2476616000	-103.965400700	2/9/2009	[11520] CEDAR CANYON, BONE SPRING; [96053] WC, BONE SPRING
36373	GOODNIGHT 35 FEDERAL #002H	O	A	OXY USA INC	12390	32.2545013000	-103.962303200	5/11/2009	[11520] CEDAR CANYON, BONE SPRING
37900	H B 11 FEDERAL #008H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8810	32.2385559000	-103.951973000	12/7/2010	[96473] PIERCE CROSSING, BONE SPRING, EAST
38993	HB 3 FEDERAL #004H	O	A	TAP ROCK OPERATING, LLC	7893	32.2403679000	-103.964866600	8/7/2011	[11520] CEDAR CANYON, BONE SPRING
39037	H B 2 STATE #007H	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2400055000	-103.962432900	-	[11520] CEDAR CANYON, BONE SPRING
39076	HB3 FEDERAL #003H	O	A	TAP ROCK OPERATING, LLC	7868	32.2454262000	-103.964897200	7/4/2011	[11520] CEDAR CANYON, BONE SPRING
39353	KNOLL AOK FEDERAL #004	O	C	EOG Y RESOURCES, INC.	0	32.2527930000	-103.965387000	-	[97148] NASH DRAW; DELAWARE, SW; [11520] CEDAR CANYON; BONE SPRING
41765	CYPRESS 3 FEDERAL SWD #001	S	C	OXY USA INC	0	32.2418900000	-103.975524900	-	[96100] SWD, DELAWARE
42088	CYPRESS 34 FEDERAL #009H	O	A	OXY USA INC	8999	32.2547836000	-103.967353800	3/30/2014	[11520] CEDAR CANYON, BONE SPRING
43169	NEW POTATO 11 FEDERAL COM #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8903	32.2330696009	-103.948721445	6/23/2015	[11520] CEDAR CANYON, BONE SPRING
43735	NEW POTATO 11 2 FEDERAL COM #005H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2343066000	-103.960182900	-	[96473] PIERCE CROSSING, BONE SPRING, EAST
43736	NEW POTATO 11 2 FEDERAL COM #006H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2329519000	-103.957047300	-	[96473] PIERCE CROSSING, BONE SPRING, EAST
43737	NEW POTATO 11 14 FEDERAL COM #002H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2329517000	-103.957209000	-	[96473] PIERCE CROSSING, BONE SPRING, EAST
43849	CYPRESS 34 FEDERAL #012H	G	A	OXY USA INC	10256	32.2549368500	-103.969305500	10/29/2016	[11520] CEDAR CANYON, BONE SPRING; [98214] WC-015 G-07 S242903I, UPPER WOLFCAMP; [98220] PURPLE SAGE, WOLFCAMP (GAS)
44300	KNOLL AOK FEDERAL #004H	O	N	EOG RESOURCES INC	0	32.2527778000	-103.965277800	-	[11520] CEDAR CANYON, BONE SPRING
44397	CYPRESS 34 FEDERAL #015H	G	A	TAP ROCK OPERATING, LLC	10323	32.2535003000	-103.966916000	11/28/2017	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44471	TATER TOT STATE 2 VDW #001	M	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.2407134000	-103.959444400	-	[98210] STRATAGRAPHIC
45261	CYPRESS 34 23S29E3434 #234H	G	N	TAP ROCK OPERATING, LLC	0	32.2534203000	-103.967063400	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45262	CYPRESS 34 23S29E3434 #236H	G	N	TAP ROCK OPERATING, LLC	0	32.2534183000	-103.967225100	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45263	CYPRESS 34 23S29E3434 #244H	G	N	TAP ROCK OPERATING, LLC	0	32.2535008000	-103.967013000	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)


Siege 165 State 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: 5/3/2019
Approved by: CBW
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY
Siege 165 State SWD No. 1
1 Mile Radius
QQ-Section (NM-PLSS 2nd Div.)
Section (NM-PLSS 1st Div.)
Township/Range (NM-PLSS)
Surface Owner (STATE OF NEW MEXICO)
NM - BLM (O&G Leases)
NM - SLO (O&G Leases)
Laterals
API (30-015-...) SHL Status - Type (Count)
Horizontal Surface Location (19)
Active - Oil (9)
Active - Gas (1)
Permitted - Miscellaneous (1)
Approved TA - Oil (6)
Approved TA - Gas (1)
Plugged (Site Released) - Oil (10)
Plugged (Site Released) - Gas (1)
Canceled Location (10)
API (30-015-...) BHL Status - Type (Count)
Active - Oil (7)
Active - Gas (2)
Permitted - Oil (4)
Permitted - Gas (3)
Plugged (Site Released) - Gas (1)
Canceled Location (2)
Lessees
-COG OPERATING LLC; -MBR RESOURCES INC; -DEVON ENERGY PROD CO LP
-DEVON ENERGY PROD CO LP
-DEVON ENERGY PRODUCTION CO
-ECHO PROD INC
-EOG A RESOURCES INC; -EOG M RESOURCES INC; -EOG Y RESOURCES INC; OXY Y-1 COMPANY
-VISION ENERGY INC
-XTO HOLDINGS LLC
-PRIVATE MINERALS
*Well Data Source: NM-OCD, DrillingInfo (2019)
NMNM 019848
NMNM 086024
-XTO HOLDINGS LLC
NMNM 103604
E058940008
T23S R29E
T24S R29E
NMNM 099034
-EOG A RESOURCES INC
-EOG M RESOURCES INC
-EOG Y RESOURCES INC
OXY Y-1 COMPANY
NMNM 119754
NMNM 085891
-ECHO PROD INC
NMNM 102912
V004400003
-DEVON ENERGY PRODUCTION CO
NMNM 059385
NMNM 053373
-VISION ENERGY INC
Siege 165 State SWD No. 1
32.24108
-103.962819
NMNM 099034
-COG OPERATING LLC
-MBR RESOURCES INC
-DEVON ENERGY PROD CO LP
NMNM 081616
NMNM 088134
-DEVON ENERGY PROD CO LP
NMNM 105213
-PRIVATE MINERALS
NMNM 085892
NMNM 096222
NMNM 088136
1 " = 1,125 '
1:13,500
0 0.125 0.25 0.375 0.5 1 Miles
EDDY
82
Map Extent
LEA
285
NEW MEXICO
TEXAS
CULBERSON
LOVING



Siege 165 State 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: 5/6/2019	Approved by: CBW

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

- Siege 165 State SWD No. 1
- 1 Mile Radius
- QQ-Section (NM-PLSS 2nd Div.)
- Section (NM-PLSS 1st Div.)
- Township/Range (NM-PLSS)
- Surface Owner (STATE OF NEW MEXICO)
- Laterals

API (30-015-...) SHL Status - Type (Count)
- Horizontal Surface Location (19)
- Active - Oil (9)
- Active - Gas (1)
- Permitted - Miscellaneous (1)
- Approved TA - Oil (6)
- Approved TA - Gas (1)
- Plugged (Site Released) - Oil (10)
- Plugged (Site Released) - Gas (1)
- Canceled Location (10)

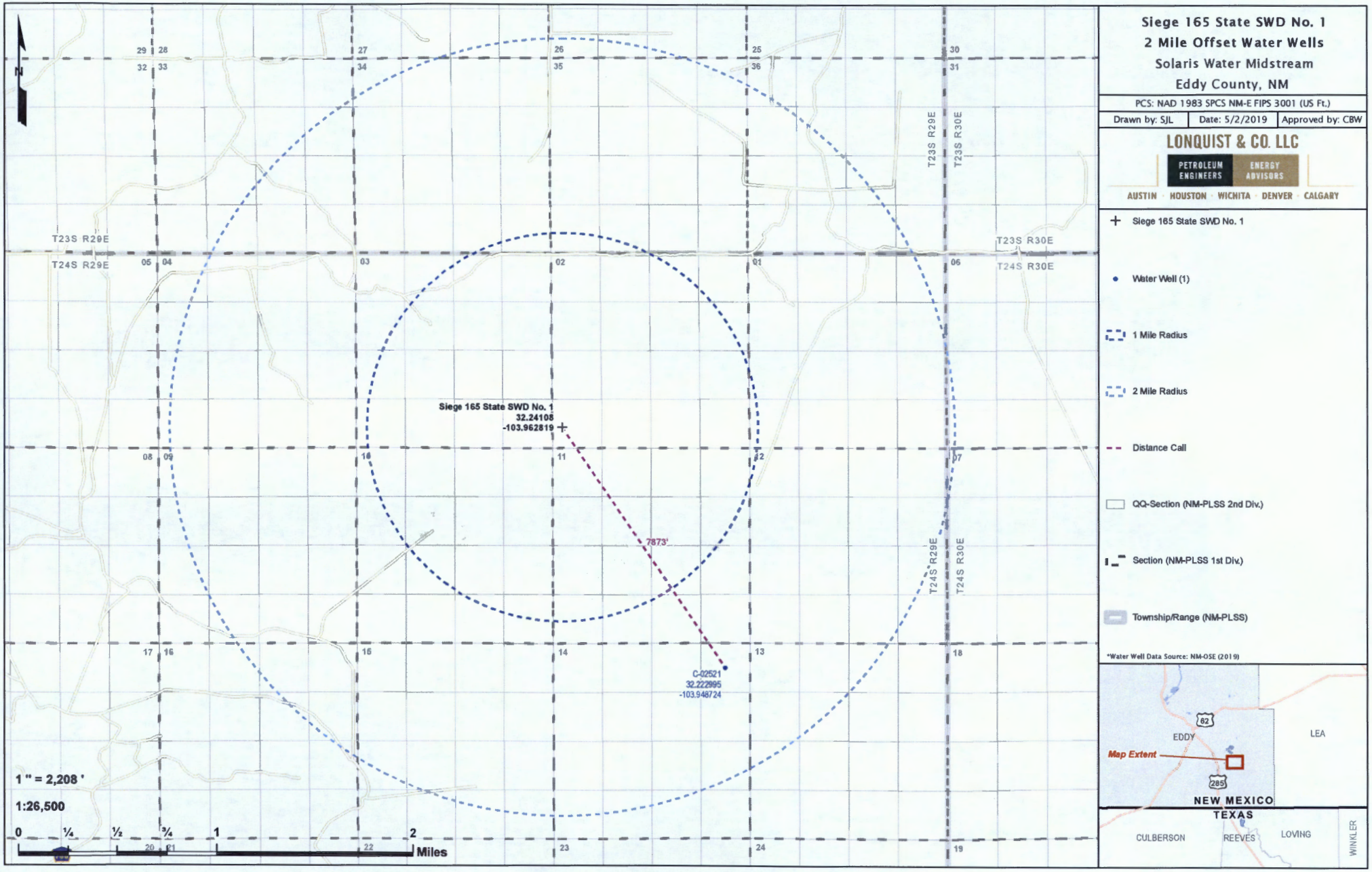
API (30-015-...) BHL Status - Type (Count)
- Active - Oil (7)
- Active - Gas (2)
- Permitted - Oil (4)
- Permitted - Gas (3)
- Plugged (Site Released) - Gas (1)
- Canceled Location (2)

Operators
- -DEVON ENERGY PRODUCTION COMPANY LP
- -EOG RESOURCES INC
- -OXY USA INC
- -OXY USA INC; -EOG RESOURCES INC
- -OXY USA INC; -TAP ROCK OPERATING LLC
- -TAP ROCK OPERATING LLC
- -NO ACTIVE OPERATORS

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

Siege 165 State 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
34/23S/29E	O,P	OXY USA INC	-	-	-	PO BOX 4294	HOUSTON, TX 77210
		TAP ROCK OPERATING LLC	-	-	-	602 PARK POINT DRIVE SUITE 200	GOLDEN, CO 80401
35/23S/29E	M	OXY USA INC	-	-	-	PO BOX 4294	HOUSTON, TX 77210
	N	-	ECHO PROD INC	-	-	PO BOX 1210	GRAHAM, TX 76450
1/24S/29E	L,M	DEVON ENERGY PRODUCTION COMPANY LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
2/24S/29E	Entire Section	DEVON ENERGY PRODUCTION COMPANY LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
3/24S/29E	A,C,E,F,H	EOG RESOURCES INC	-	-	-	PO BOX 2267	MIDLAND, TX 79702
	B,G	EOG RESOURCES INC	-	-	-	PO BOX 2267	MIDLAND, TX 79702
		OXY USA INC	-	-	-	PO BOX 4294	HOUSTON, TX 77210
	J,O	OXY USA INC	-	-	-	PO BOX 4294	HOUSTON, TX 77210
		TAP ROCK OPERATING LLC	-	-	-	602 PARK POINT DRIVE SUITE 200	GOLDEN, CO 80401
	I,K,L,M,N,P	TAP ROCK OPERATING LLC	-	-	-	602 PARK POINT DRIVE SUITE 200	GOLDEN, CO 80401
10/24S/29E	E,F,K	OXY USA INC	-	-	-	PO BOX 4294	HOUSTON, TX 77210
	I	DEVON ENERGY PRODUCTION COMPANY LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
	A,B,C,D,G,H,J,O,P	-	COG OPERATING LLC	-	-	600 W ILLINOIS AVE	MIDLAND, TX 79701
		-	MBR RESOURCES INC	-	-	525 S MAIN #1200	TULSA, OK 74103
		-	DEVON ENERGY PROD CO LP	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
11/24S/29E	B,C,D,E,F,G,J,K,L,M,N,O	DEVON ENERGY PRODUCTION COMPANY LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
	A,H,I	-	DEVON ENERGY PROD CO LP	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
12/24S/29E	D	EOG RESOURCES INC	-	-	-	PO BOX 2267	MIDLAND, TX 79702
Surface Location	-	-	-	-	STATE OF NEW MEXICO	310 OLD SANTA FE TRAIL	SANTA FE, NM 87504


Siege 165 State SWD No. 1
2 Mile Offset Water Wells
Solaris Water Midstream
Eddy County, NM
PCS: NAD 1983 SPCS NM-E FIPS 3001 (US Ft.)
Drawn by: SJL
Date: 5/2/2019
Approved by: CBW
LONQUIST & CO. LLC
PETROLEUM ENGINEERS
ENERGY ADVISORS
AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY
Siege 165 State SWD No. 1
Water Well (1)
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)
Siege 165 State SWD No. 1
32.24108
-103.962819
7873'
C-02521
32.222995
-103.948724
T23S R29E
T24S R29E
T23S R30E
T24S R30E
1 " = 2,208 '
1:26,500
0 ¼ ½ ¾ 1 2 Miles
EDDY
LEA
Map Extent
NEW MEXICO
TEXAS
CULBERSON
REEVES
LOVING
WINKLER

Siege 165 State SWD No. 1
Offsetting Produced Water Analysis

Well Name	API	Section	Township	Range	Unit	County	Field	Formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
GAINES 21 #001	3001528638	21	24S	29E	O	EDDY	CEDAR CANYON;DELAWA	BONE SPRING	8.48	8856	0	601.2	0	72.915		62858.2	260504	0	
KNOLL AOK FEDERAL #001	3001528127	3	24S	29E	G	EDDY	CEDAR CANYON	BONE SPRING	6.15			2162	0	775		84981	381	600	
CORRAL DRAW AQH FEDERAL #001	3001529396	13	24S	29E	L	EDDY	LIVINGSTON RIDGE	BONE SPRING	5.59			25552	175	4471		164963	73	190	
REMUDA BASIN UNIT #001	3001503691	24	23S	29E	J	EDDY	REMUDA	BONE SPRING		271010						168800	130	100	
SPUD 16 STATE #010H	3001541148	16	23S	29E	I	EDDY		BONE SPRING 1ST SAND	7	152943.4	54183.5	1409.3	16.2	274.9	0	92807.2	2305.8	0	400
SPUD 16 STATE #011H	3001541149	16	23S	29E	I	EDDY		BONE SPRING 1ST SAND	7	153041.8	53895.7	1294.2	0	272.6	0	92918.4	2708.4	0	460
SPUD 16 STATE #012H	3001541150	16	23S	29E	I	EDDY		BONE SPRING 1ST SAND	7	146424.7	55118.3	1444.9	11.4	312.8	0	84786.2	2659.6	0	420
COTTON DRAW UNIT #211H	3001541941	34	24S	31E	P	EDDY		BONE SPRING 2ND SAND	6.4	155270.6	50208.1	8326.3	38.3	1039.4	1.07	93359.6	122	0	200
COTTON DRAW UNIT #205H	3001542071	26	24S	31E	O	EDDY		BONE SPRING 2ND SAND	7	151345.4	46111.9	8090.5	79.4	1023.4		93688		1053.3	300
COTTON DRAW UNIT #206H	3001542072	26	24S	31E	O	EDDY		BONE SPRING 2ND SAND	7.1	146515.3	44562.9	6413	35.4	814.2		92434.8		1023.5	300
COTTON DRAW UNIT #122H	3001538453	35	24S	31E	C	EDDY		BONE SPRING 2ND SAND	6.4	869.5	118	100	8.5	29	1.5	326	146.4	136	20
COTTON DRAW UNIT #122H	3001538453	35	24S	31E	C	EDDY		BONE SPRING 2ND SAND	7	146990.2	43508	7415	36	1026	1.5	92465	244	0	250
COTTON DRAW UNIT #213H	3001541869	35	24S	31E	A	EDDY		BONE SPRING 2ND SAND	6	150530.4	45890.2	7802.5	62.3	982.6	1.55	93209.1	244	0	250
COTTON DRAW UNIT #117H	3001538434	34	24S	31E	O	EDDY		BONE SPRING 2ND SAND	6.5	172327.9	49944.5	10509.8	72.9	1477.8	2.29	108042.8	122	0	150
COTTON DRAW UNIT #207H	3001542073	25	24S	31E	M	EDDY		BONE SPRING 2ND SAND	7	140165.8	43931.2	7308.4	42.3	928.2	1.13	85564	244	0	200
COTTON DRAW UNIT #214H	3001541537	36	24S	31E	C	EDDY		BONE SPRING 2ND SAND	6.7	148040.4	43787.8	7357.3	27.5	911.8	1.23	93400	244	0	0
COTTON DRAW UNIT #117H	3001538434	34	24S	31E	O	EDDY		BONE SPRING 2ND SAND	6.4	159044.1	53448.4	9151.3	15.8	1112.3	1.65	92748	183	0	25
COTTON DRAW UNIT #122H	3001538453	35	24S	31E	C	EDDY		BONE SPRING 2ND SAND	6.3	158456.6	51198.9	8177.8	28.5	1001.2	1.14	95601	122	0	200
COTTON DRAW UNIT #211H	3001541941	34	24S	31E	P	EDDY		BONE SPRING 2ND SAND	6.7	137889.5	32364.9	5546.6	77.3	698.8	1.52	97298.2	122	0	300
COTTON DRAW UNIT #204H	3001541818	26	24S	31E	N	EDDY		BONE SPRING 2ND SAND	6.5	136887.2	41804.2	7433.7	31.1	1017.4	1.16	84467	122	0	200
COTTON DRAW UNIT #203H	3001541847	26	24S	31E	N	EDDY		BONE SPRING 2ND SAND	6.5	151978.8	47598.6	8167.1	43.5	1041.7	1.1	92926.8	122	0	300
COTTON DRAW UNIT #244H	3001542331	36	24S	31E	D	EDDY		BONE SPRING 3RD SAND	6.2	113124.8	34288.2	4803.6	24.8	608.1		71446.6		527	100
H B 11 FEDERAL #008H	3001537900	11	24S	29E	B	EDDY		AVALON UPPER	7	174708.9	64668.1	2184	20	358	0.4	104800	878.4	575	50
SPUD 16 STATE #009H	3001538059	16	23S	29E	O	EDDY		AVALON UPPER	7	154965.1	58687.2	719	54	131	1	91118	1671.4	1502	70
COOTER 16 STATE #001H	3001537625	16	25S	29E	N	EDDY		AVALON UPPER	7	208453.6	79520.3	498	28	162	0.4	121800	3208.4	1994	990
COOTER 16 STATE #002H	3001537626	16	25S	29E	M	EDDY		AVALON UPPER	7	219573.8	84179.4	370	22	141	0.4	129012	3178.6	1497	980
COOTER 16 STATE #003H	3001537627	16	25S	29E	D	EDDY		AVALON UPPER	7	201311	77136.2	343	34	108	0.6	117265	3342.8	2127	990
COOTER 16 STATE #004H	3001537628	16	25S	29E	N	EDDY		AVALON UPPER	7	190430.5	71870.7	929	110	237	1.5	111478	3224.6	1389	1140
COOTER 16 STATE COM #005H	3001537875	16	25S	29E	O	EDDY		AVALON UPPER	7	187758.9	71165.6	758	20	178	0.3	109624	3212.4	1623	970
COOTER 16 STATE COM #007H	3001537877	16	25S	29E	P	EDDY		AVALON UPPER	7	200382.3	76518.3	605	91	154	1.5	118991	1464	1277	700
COOTER 16 STATE COM #008H	3001537878	16	25S	29E	P	EDDY		AVALON UPPER	6.8	207677.5	79391.5	595	99	147	1.5	123161	1708	1342	800
SLIDER 8 FEDERAL #001H	3001538242	8	25S	29E	J	EDDY		AVALON UPPER	6.9	190364	72196.4	814	60	289	1	113348	707.6	1578	500
SLIDER 8 FEDERAL #003H	3001538272	8	25S	29E	J	EDDY		AVALON UPPER	7.2	150471.8	55164.4	2053	37	445	0.5	89777	610	1249	500
COOTER 16 STATE COM #006H	3001537876	16	25S	29E	O	EDDY		AVALON UPPER	7	193732.3	74027.8	513	104	118	1	113441	1830	2665	700
COTTON DRAW UNIT #115H	3001537898	34	24S	31E	O	EDDY		AVALON LOWER	6.9	118579.6	44633.2	514	57	86	0.9	67021	3343	2278	430
OLD INDIAN DRAW UNIT #006	3001521619	18	22S	28E	K	EDDY	INDIAN DRAW	DELAWARE	8.4	126911						74800	525	3300	
OLD INDIAN DRAW UNIT #008	3001521766	18	22S	28E	N	EDDY	INDIAN DRAW	DELAWARE	7.8	123893						74100	671	2000	
OLD INDIAN DRAW UNIT #007	3001521765	18	22S	28E	F	EDDY	INDIAN DRAW	DELAWARE	8.8	124756						74500	342	2200	
OLD INDIAN DRAW UNIT #001	3001520918	18	22S	28E	J	EDDY	INDIAN DRAW	DELAWARE	8	128431						76200	98	3200	
OLD INDIAN DRAW UNIT #003	3001521504	19	22S	28E	B	EDDY	INDIAN DRAW	DELAWARE	8.2	122782						73800	120	2100	
OLD INDIAN DRAW UNIT #011	3001521844	19	22S	28E	A	EDDY	INDIAN DRAW	DELAWARE	8.6	130991						78000	586	1800	
OLD INDIAN DRAW UNIT #016	3001521959	7	22S	28E	M	EDDY	INDIAN DRAW	DELAWARE	6.5	118293						69100	134	3800	
CONTINENTAL FED #002	3001510172	20	25S	30E	L	EDDY	CORRAL CANYON	DELAWARE		157068						97030	68	510	
R & B FED FED A #001	3001504752	17	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE	7	146809						89710	24	346	
BENNETT FEDERAL #001	3001524071	30	25S	30E	O	EDDY	CORRAL CANYON SOUTH	DELAWARE	6	103300	53495	3120	10	3080		97000	100		
GUY A REED #001	3001510872	24	24S	28E	E	EDDY	MALAGA	DELAWARE	6.1	130273						78600	14	605	
MALAGA UNIT #001	3001502494	13	24S	28E	B	EDDY	MALAGA	DELAWARE		148288						91050	182	400	
BLACK JACK 1 FEDERAL #003	3001535797	1	24S	30E	P	EDDY		DELAWARE-BRUSHY CANYON	5.5	301647.2	79805.9	30138.6	60.7	4344.6	13.3	183201.2	85	0	650
LAGUNA SALADO 22 FEDERAL #003H	3001535073	22	23S	29E	M	EDDY		DELAWARE-BRUSHY CANYON	6.5	108093.2	72995	26487.3	283.7	4547.4	17.1				1430
SPUD 16 STATE #007H	3001536078	16	23S	29E	D	EDDY		DELAWARE-BRUSHY CANYON	6	303155.2	76907.7	33274.3	61.8	4821.1	10.2	183875.4	610	0	2000
LAGUNA SALADO 22 FEDERAL #004H	3001536461	22	23S	29E	C	EDDY		DELAWARE-BRUSHY CANYON	6.9	292357.7	68893.3	31112	55.4	4508.7	10.57	184250	244	0	360
LAGUNA SALADO 22 FEDERAL #005H	3001536738	22	23S	29E		EDDY		DELAWARE-BRUSHY CANYON	6.5	292238.7	69172.3	31471.9	52.1	4556.6	10.16	183597.2	122	0	320
HARROUN TRUST 31 #004H	3001540826	31	23S	29E	O	EDDY		DELAWARE-BRUSHY CANYON	7	297840.8	79092.1	29745.4	70.1	4416.8	8.77	180802.1	85.4	0	2000
HARROUN TRUST 31 30 FEDERAL COM #002H	3001541963	31	23S	29E	M	EDDY		DELAWARE-BRUSHY CANYON	6	296787.9	80277.8	29889.4	64.8	4475.1	7.97	178388.3	73.2	0	2000
LAGUNA SALADO 22 FEDERAL #003H	3001535073	22	23S	29E	M	EDDY		DELAWARE-BRUSHY CANYON	5	303549.5	80233.3	27451	49	4197	9	187467	103.7	331	
SPUD 16 STATE #007H	3001536078	16	23S	29E	D	EDDY		DELAWARE-BRUSHY CANYON	6.25	273399.2	77650.2	20696	44	3301	6.5	168200	85	454	440
LAGUNA SALADO 22 FEDERAL #006H	3001537371	22	23S	29E	C	EDDY		DELAWARE-BRUSHY CANYON	7	279274.8	78992.3	21728	25	3407	6.5	172189	183	177	250
MONA LISA #002	3001523094	7	25S	27E	K	EDDY		MORROW	6.17	92832.7	32968.1	2979.66	621.16	387.96		59225.4	204.58	293.62	
BEAR #001	3001521152	17	22S	27E	J	EDDY	CARLSBAD;MORROW, SO	MORROW	7.2		151504	2404.8	1731.26	2065.93		326168	186074	5763.6	
VILLA A COM #001	3001522886	8	23S	28E	K	EDDY	LOVING NORTH	MORROW	5.08	27040.2	8664.21	1173.13	553.382	128.646		16623.9	39.819	147.024	
BRANTLEY #001	3001522677	22	23S	28E	K	EDDY	NORTH LOVING	MORROW	6.5	278468						166000	78	3400	
SIGNAL ST #002	3001502520	28	25S	28E	N	EDDY		MORROW		102849									
TELEDYNE 17 #001	3001522553	17	23S	29E	N	EDDY		MORROW	6	62523						37600	142	810	
HARROUN OPER AREA #001	3001520157	30	22S	28E	H	EDDY		MORROW	6.6	53480						32300	476	58	
WILLIAMS GAS COM #001	3001522686	25	23S	28E	C	EDDY	CULEBRA BLUFF SOUTH	ATOKA	7.9	217050						128000	1030	3300	
TODD 26 G FEDERAL #001	3001520242	26	23S	31E	G	EDDY	SAND DUNES	ATOKA	6.7	202478						126000	93	540	
BELLOQ 2 STATE #002H	3001542895	2	23S	31E	C	EDDY		WOLFCAMP	6.8	119471.8	37359.2	5659.1	22.4	746.1		73172.5		1035.5	250
SNAPPING 2 STATE #014H	3001542688	2	26S	31E	P	EDDY		WOLFCAMP	7.3	81366.4	26319.4	2687.4	26.1	326.7		50281.2		399.7	100
HABANERO 17 FEDERAL COM #001H	3001536108	17	24S	27E	A	EDDY		WOLFCAMP	6.5	108205	35110.8	4480.2	28.5	627.9	0.61	65927.2	146	0	300
SERRANO 29 FEDERAL #001H	3001537763	29	24S	27E	H	EDDY		WOLFCAMP	6.9	102136.2	30415.1	5311.5	40.2	643.7	1.47	62812.7	183	0	350
R.S. STATE #001	3001501132	27	24S	27E	N	EDDY		PENNSYLVANIAN		48387						26570	1505	2263	

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001284759

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:

05/01/19

Legal Clerk

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

State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My Commission Expires

Ad#:0001284759
P O : 0001284759
# of Affidavits :0.00

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 Siege 165 State SWD No. 1. The proposed well will be located 565' FSL & 275' FWL in Section 2, Township 24S, Range 29E in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Silurian formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 15,208 feet to a maximum depth of 16,361 feet. The maximum surface injection pressure will not exceed 3,042 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.
Pub: May 1, 2019 #1284759

VICKY FELTY NOTARY PUBLIC STATE OF WISCONSIN

Siege 165 State SWD No. 1 - Notice of Affected Parties						
Solaris Water Midstream, LLC						
TRACT ID	**COUNTY CLERK**	**ADDRESS LINE 1**	**PHONE**	**TRACKING #**	**DATE SHIPPED**	**DATE RECEIVED**
	OIL CONSERVATION DIVISION DISTRICT II	811 S. FIRST ST., ARTESIA, NM 88210		USPS - 7018 3090 0002 2009 9428	5/31/2019	
	OIL CONSERVATION DIVISION DISTRICT IV	1220 S ST FRANCIS DR, SANTA FE, NM 87505		FEDEX - 7753 4911 2687	5/31/2019	
	SURFACE LANDOWNER	**MAILING ADDRESS**				
	New Mexico State Land Office	310 Old Santa Fe Trail Santa Fe, NM 87501		USPS - 7018 3090 0002 2009 9435	5/31/2019	
	GOVERNMENT AGENCY	**MAILING ADDRESS**				
	Bureau of Land Management	620 E Greene Street Carlsbad, NM 88220		USPS - 7018 3090 0002 2009 9442	5/31/2019	
	AFFECTED PARTIES	**MAILING ADDRESS**				
	COG OPERATING LLC	600 W ILLINOIS AVE MIDLAND, TX 79701		USPS - 7018 3090 0002 2009 9459	5/31/2019	
	DEVON ENERGY PROD CO LP	333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102		USPS - 7018 3090 0002 2009 9466	5/31/2019	
	DEVON ENERGY PRODUCTION COMPANY LP	333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102		USPS - 7018 3090 0002 2009 9466	5/31/2019	
	ECHO PROD INC	PO BOX 1210 GRAHAM, TX 76450		USPS - 7018 3090 0002 2009 9473	5/31/2019	
	EOG RESOURCES INC	PO BOX 2267 MIDLAND, TX 79702		USPS - 7018 3090 0002 2009 9480	5/31/2019	
	MBR RESOURCES INC	525 S MAIN #1200 TULSA, OK 74103		USPS - 7018 3090 0002 2009 9497	5/31/2019	
	OXY USA INC	PO BOX 4294 HOUSTON, TX 77210		USPS - 7018 3090 0002 2009 9503	5/31/2019	
	TAP ROCK OPERATING LLC	602 PARK POINT DRIVE SUITE 200 GOLDEN, CO 80401		USPS - 7018 3090 0002 2009 9510	5/31/2019	

Notices were sent for the Ricky Bobby SWD No. 1 application by mailing them a copy of the Form C-108 on 5/31/2019

Sincerely,



Tyler F. Moehlman
Petroleum Engineer / Lonquist & Co., LLC
Agent for Solaris Water Midstream

SENDER: COMPLETE THIS SECTION

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

OIL CONSERVATION DIVISION
DISTRICT II
811 S FIRST STREET
ARTESIA NM 88210
1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 12

2. Article Number (Transfer from service label)
7018 3090 0002 2009 9428

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®

7018 3090 0002 2009 9428
7018 3090 0002 2009 9428

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total P
$

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OIL CONSERVATION DIVISION
DISTRICT II
811 S FIRST STREET
ARTESIA NM 88210
1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

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

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 29

2. Article Number *(Transfer from service label)*
7018 3090 0002 2009 9435

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®

7018 3090 0002 2009 9435

7018 3090 0002 2009 9435

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OFFICIAL USE

Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

BUREAU OF LAND MGMT
620 E GREENE STREET
CARLSBAD NM 88220

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 36

2. Article Number *(Transfer from service label)*
7018 3090 0002 2009 9442

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☑ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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7018 3090 0002 2009 9442

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U.S. Postal Service™
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Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total
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Sent

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BUREAU OF LAND MGMT
620 E GREENE STREET
CARLSBAD NM 88220

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND TX 79701

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 43

2. Article Number *(Transfer from service label)*
7018 3090 0002 2009 9459

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

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

3. Service Type
☒ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $

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COG OPERATING LLC
600 W ILLINOIS AVE
MIDLAND TX 79701

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

DEVON ENERGY PROD CO LP
333 WEST SHERIDAN AVE
OKLAHOMA CITY OK 73102

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 50

2. Article Number (Transfer from service label)
7018 3090 0002 2009 9466

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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City, State

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DEVON ENERGY PROD CO LP
333 WEST SHERIDAN AVE
OKLAHOMA CITY OK 73102

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

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

ECHO PROD INC
PO BOX 1210
GRAHAM TX 76450

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 67

2. Article Number *(Transfer from service label)*
7018 3090 0002 2009 9473

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
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7018 3090 0002 2009 9473
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U.S. Postal Service™
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Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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ECHO PROD INC
PO BOX 1210
GRAHAM TX 76450

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

EOG RESOURCES INC
PO BOX 2267
MIDLAND TX 79702

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 74

2. Article Number (Transfer from service label)
7018 3090 0002 2009 9480

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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7018 3090 0002 2009 9480

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total P
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Sent To

Street a

City, St

Postmark Here

EOG RESOURCES INC
PO BOX 2267
MIDLAND TX 79702

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

MBR RESOURCES INC
525 S MAIN #1200
TULSA OK 74103

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 81

2. Article Number *(Transfer from service label)*
7018 3090 0002 2009 9497

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
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7018 3090 0002 2009 9497
7018 3090 0002 2009 9497

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OFFICIAL USE

Certified Mail Fee
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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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MBR RESOURCES INC
525 S MAIN #1200
TULSA OK 74103

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

OXY USA INC
PO BOX 4294
HOUSTON TX 77210

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2333 98

2. Article Number (Transfer from service label)
7018 3090 0002 2009 9503

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®

7018 3090 0002 2009 9503
7018 3090 0002 2009 9503

U.S. Postal Service™
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Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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Total Po
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City, Sta

Postmark Here

OXY USA INC
PO BOX 4294
HOUSTON TX 77210

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

TAP ROCK OPERATING LLC
602 PARK POINT DR, STE 200
GOLDEN CO 80401

1978-SIEGE 165 STATE SWD #1

9590 9402 4809 8344 2334 04

2. Article Number (Transfer from service label)
7018 3090 0002 2009 9510

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

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

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

3. Service Type
- ☒ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total
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Sent To

Street

City, S

Postmark Here

TAP ROCK OPERATING LLC
602 PARK POINT DR, STE 200
GOLDEN CO 80401

1978-SIEGE 165 STATE SWD #1

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM ENGINEERS | ENERGY ADVISORS

WICHITA
CALGARY

www.lonquist.com

May 10, 2019

STATE OF NEW MEXICO
310 OLD SANTA FE TRAIL
SANTA FE, NM 87504

Subject: **Siege 165 State 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 Siege 165 State SWD No. 1 well. Section XIV of Form C-108 requires that the surface land owner on which the well is located and each leasehold operator within a one-half mile radius of the proposed well location be furnished with the application. The notice of application has been extended to a one-mile radius.

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

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

Regards,

Ramona K. Hovey

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

(512) 600-1777
ramona@lonquist.com

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance __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: 5/30/2019

E-MAIL ADDRESS: ramona@lonquist.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Siege 165 State SWD No. 1

WELL LOCATION: 565' FSL 275' FWL (FOOTAGE LOCATION) | M (UNIT LETTER) | 2 (SECTION) | 24S (TOWNSHIP) | 29E (RANGE)

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 18.125"

Cemented with: 608 sx.

Top of Cement: surface

Casing Size: 16.00"

or _____ ft³

Method Determined: circulation

Intermediate Casing

Hole Size: 14.750"

Cemented with: 603 sx.

Top of Cement: surface

Casing Size: 13.375"

or _____ ft³

Method Determined: circulation

Production Casing

Hole Size: 12.250"

Cemented with: 2,028 sx.

Top of Cement: surface

Casing Size: 9.625"

or _____ ft³

Method Determined: circulation

Liner

Hole Size: 8.500"

Cemented with: 536 sx.

Top of Cement: 10,161

Total Depth: 16,361'

Casing Size: 7.625"

or _____ ft³

Method Determined: calculation

Injection Interval

15,208 feet to 16,361 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 9,961' and 5", 18 lb/ft, HCL-80, LTC from 9,961' -15,158'
Lining Material: Duoline

Type of Packer: Nickel Plated Double Grip Retrievable Packer or Equivalent

Packer Setting Depth: 15,158'

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

Additional Data

1. Is this a new well drilled for injection? ___X___Yes _____No

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

   _____

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   No, new drill.

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

Bell Canyon:	3,319'	Atoka:	12,516'
Cherry Canyon:	4,123'	Morrow:	13,161'
Brushy Canyon:	5,361'	Mississippian:	14,055'
Bone Spring:	6,928'		
Wolfcamp:	10,261'		
Strawn:	12,211'		

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
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	2. OGRID Number
SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706	371643
	3. API Number TBD

4. Property Code	5. Property Name	6. Well No.
	SIEGE 165 STATE SWD	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	2	24 S	29 E		565	S	275	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; Devonian-Silurian	97869

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	SWD	R	Private	3,050'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	16,361'	Devonian-Silurian	TBD	ASAP

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
39'	>1 mile	>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	657'	608	Surface
Intermediate	14.75"	13.375"	68 lb/ft	3,280'	603	Surface
Production	12.25"	9.625"	53.5 lb/ft	10,361'	2,028	Surface
Liner	8.5"	7.625"	39 lb/ft	10,161'-15,208'	536	10,161
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' – 9,961' & 9,961' – 15,158'	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 C Hovey	OIL CONSERVATION DIVISION Approved By:
Printed name: Ramona Hovey	Title:
Title: Consulting Engineer	Approved Date: / Expiration Date:
E-mail Address: ramona@lonquist.com	
Date: May 30, 2019 / Phone: 512-600-1777	Conditions of Approval Attached

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	97869	DEVONIAN-SILURIAN

Property Code	Property Name	Well Number
	SIEGE 165 STATE SWD	1

OGRID No.	Operator Name	Elevation
371643	SOLARIS WATER MIDSTREAM	3063'

Surface Location

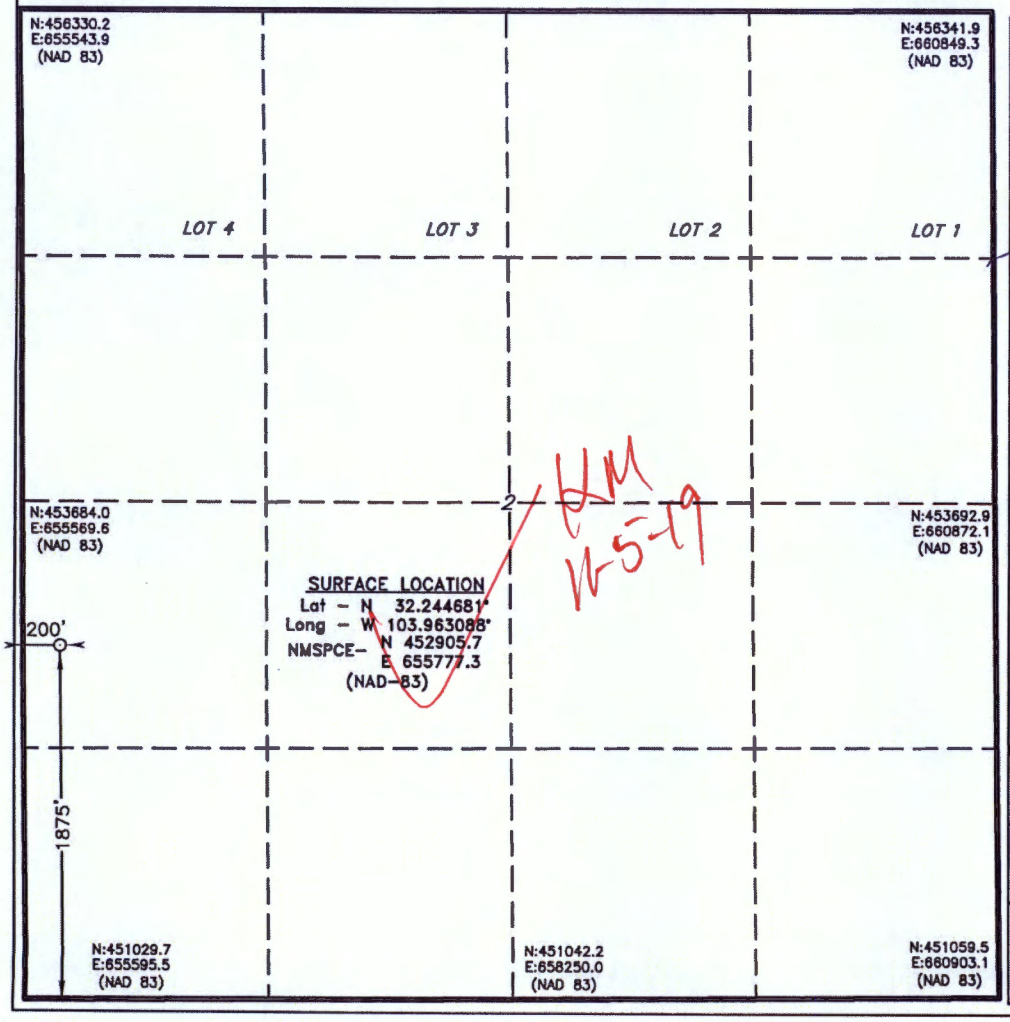
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	24 S	29 E		1875	SOUTH	200	WEST	EDDY

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 K. Hovey 10/30/19
Signature Date

RAMONA K. HOVEY
Printed Name

ramona@longwist.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 supervison, and that the same is true and correct to the best of my belief.

JULY L. 2019
Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. Gary L. Jones 7977

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34685

From: Tyler Moehlman
To: McClure, Dean, EMNRD
Subject: [EXT] Amended Relocation Package - Siege 165 State SWD No. 1, Solaris Water Midstream
Date: Friday, November 1, 2019 7:24:10 AM
Attachments: OCD Relocation Package_Siege 165 State SWD No. 1.pdf

Hello Dean,

Good morning to you sir, this is Tyler Moehlman over at Lonquist! Attached I have a relocation package for Solaris Water Midstream's Siege 165 State SWD No. 1. This location has been moved at the request of an offset operator. We have identified no Devonian penetrators and the affected parties have remained the same for this well.

I ask that you please consider this amended package in the Siege's current position in queue. If there's anything else you need please just let me know.

Thank you and have a great Friday!

Tyler F. Moehlman,
Petroleum Engineer

Office: 713-987-4144 Cell: 713-494-0340
1001 McKinney, Suite 1650, Houston, Texas, 77002
tyler.moehlman@lonquist.com · www.lonquist.com

AUSTIN · HOUSTON · CALGARY · WICHITA · BATON ROUGE · DENVER · COLLEGE STATION

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Siege 165
6/10/19 Protested
Pending 2018-2019
row 254
SWD 2152

permit