

Initial Application Part I

Received: 08/02/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: 08/02/2019	REVIEWER:	TYPE: SWD	APP NO: pMAM1921434360
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Solaris Water Midstream, LLC _____ OGRID Number: 371643 _____
 Well Name: Pluto Federal SWD No. 1 _____ API: _____
 Pool: SWD; Devonian- Silurian _____ Pool Code: 97869 _____

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

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

SWD-2225

A. Location – Spacing Unit – Simultaneous Dedication

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

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

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

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

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application
 Content
 Complete

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

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

July 31, 2019

Ramona Hovey – Agent of Solaris Water Midstream

Print or Type Name

Ramona K Hovey

Signature

Date

(512) 600-1777

Phone Number

ramona@lonquist.com

e-mail Address

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

July 31, 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: PLUTO FEDERAL 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") Pluto Federal SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset operators, leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

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


Regards,



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

(512) 600-1777
ramona@lonquist.com

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:  DATE: 7/31/2019
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: _____

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLCWELL NAME & NUMBER: Pluto Federal SWD No. 1WELL LOCATION: 1,184' FSL 313' FEL
FOOTAGE LOCATIONP
UNIT LETTER22
SECTION25S
TOWNSHIP31E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 18.125"Casing Size: 16.00"Cemented with: 875 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 14.750"Casing Size: 13.375"Cemented with: 1,040 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 2,735 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8.500"Casing Size: 7.625"Cemented with: 555 sx.**or** _____ ft³Top of Cement: 11,337'Method Determined: calculationTotal Depth: 18,383'Injection Interval16,583 feet to 18,383 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' - 11,137' and 5", 18 lb/ft, HCL-80, LTC from 11,137'-16,533'

Lining Material: Duoline

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

Packer Setting Depth: 16,533'

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: 4,124'

Morrow: 14,588'

Cherry Canyon: 5,055'

Bone Spring: 8,018'

Wolfcamp: 11,437'

Strawn: 13,770'

Atoka: 13,952'



Solaris Water Midstream, LLC

Pluto Federal SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Pluto Federal SWD
Well No.	1
Location	S-22 T-25S R-31E
Footage Location	1,184' FSL & 313' FEL

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	1,087'	4,123'	11,537'	11,337' – 16,583'

b. Cementing Program

Casing String	Surface	Intermediate	Production	Liner
Lead Cement	HALCEM™	HALCEM™	NEOCEM™	NEOCEM™
Lead Cement Volume (sacks)	562	726	Stage 1: 1,473 Stage 2: 380	-
Lead Cement Density (ft3/sack)	1.664	1.664	Stage 1: 2.731 Stage 2: 2.732	-
Tail Cement	HALCEM™	HALCEM™	NEOCEM™/HALCEM™	VERSACEM™
Tail Cement Volume (sacks)	313	314	Stage 1: 623 Stage 2: 259	555
Tail Cement Density (ft3/sack)	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	1.223
Cement Excess	100%	50%	200%, 100%	10%
Total Sacks	875	1,040	2,735	555
TOC	Surface	Surface	Surface	11,337'
Method	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' – 11,137' 11,137' – 16,583'

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: 16,583' – 18,383'

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	4,124'
Cherry Canyon	5,055'
Bone Spring	8,018'
Wolfcamp	11,437'
Strawn	13,770'
Atoka	13,952'
Morrow	14,588'

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: 2,487 PSI (surface pressure)
Maximum Injection Pressure: 3,317 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, and Delaware formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Avalon, Bone Spring, Delaware, Morrow, and Wolfcamp.
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 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	736'
Salado	1,112'
Lamar	4,103'
Bell Canyon	4,124'
Cherry Canyon	5,055'
Bone Spring	8,018'
Wolfcamp	11,437'
Strawn	13,770'
Atoka	13,952'
Morrow	14,588'
Mississippian_Lime	16,152'
Woodford	16,428'
Devonian	16,583'

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 600 feet and an average water depth of 300 feet generally producing from the Carlsbad Basin. The upper Rustler may also be another USDW and will be protected by isolating the Salado with surface casing at 1,087'.

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 SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643 ³ API Number TBD
⁴ Property Code	⁵ Property Name PLUTO FEDERAL SWD	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	22	25 S	31 E		1,184	S	313	E	EDDY

8. Proposed Bottom Hole Location

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

9. Pool Information

Pool Name SWD; Devonian-Silurian	Pool Code 97869
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Federal	¹⁵ Ground Level Elevation 3339'
¹⁶ Multiple N	¹⁷ Proposed Depth 18,383'	¹⁸ Formation Devonian-Silurian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 300'		Distance from nearest fresh water well >1 mile		Distance to nearest surface water >1 mile

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	18.125"	16"	84 lb/ft	1,087'	875	Surface
Intermediate	14.75"	13.375"	68 lb/ft	4,123'	1,040	Surface
Production	12.25"	9.625"	53.5 lb/ft	11,537'	2,735	Surface
Liner	8.5"	7.625"	39 lb/ft	11,337' - 16,583'	555	11,337'
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' - 11,137' & 11,137' - 16,583'	N/A	

Casing/Cement Program: Additional Comments

See attached schematic.

22. Proposed Blowout Prevention Program

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

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
 Signature:

Printed name: Ramona Hovey

Title: Consulting Engineer

E-mail Address: ramona@lonquist.com

Date: August 1, 2019

Phone: 512-600-1777

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

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

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 745-1253 Fax: (575) 745-9720

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 97869	Pool Name SWD; DEVONIAN-SILURIAN
Property Code	Property Name PLUTO FEDERAL SWD	Well Number 1
OGRID No. 371643	Operator Name SOLARIS WATER MIDSTREAM	Elevation 3339'

Surface Location

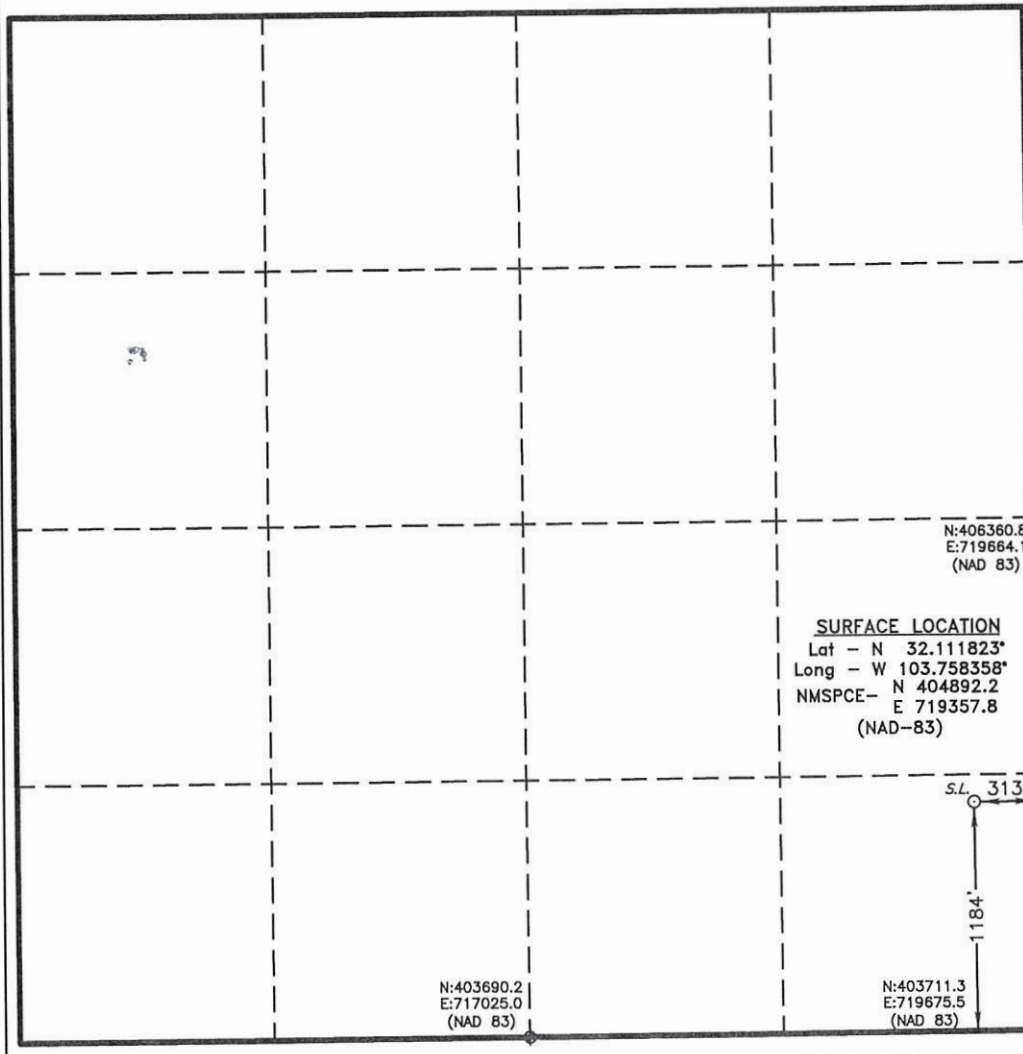
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	25 S	31 E		1184	SOUTH	313	EAST	EDDY

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.

Ramon A. K. Hovey
Signature
Date
Ramon A. K. Hovey
Printed Name
ramona@longquist.com
Email Address

SURVEYOR CERTIFICATION

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

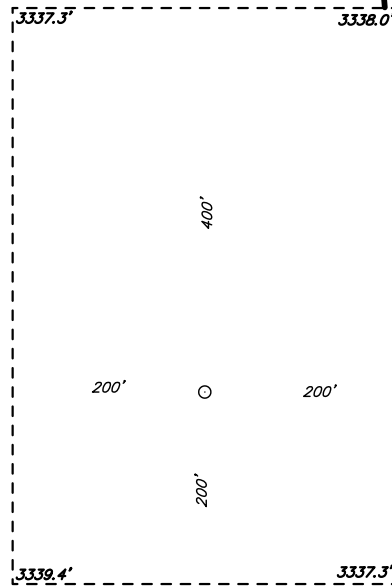
APRIL 17, 2011
Date Surveyed
Gary L. Jones
Signature & Seal of Professional Surveyor
Certificate No. *7977*
Base Survey

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34502

**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**

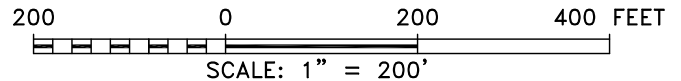
**PLUTO FEDERAL SWD #1
ELEV. - 3339'**

Lat - N 32.111823°
Long - W 103.758358°
NMSPCE- N 404892.2
E 719357.8
(NAD-83)



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF ORLA HWY AND BATTLE AXE ROAD, GO NORTHEAST ON ORLA HWY 2.5 MILES TO ROSS ROAD, THEN WEST ON ROSS ROAD TO LEASE ROAD FOR 4.8 MILES, THEN NORTH ON LEASE ROAD FOR 3.4 MILES, THEN WEST ON LEASE ROAD FOR 177 FEET TO PROPOSED LEASE ROAD.



SOLARIS WATER MIDSTREAM

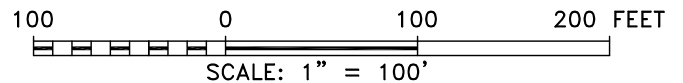
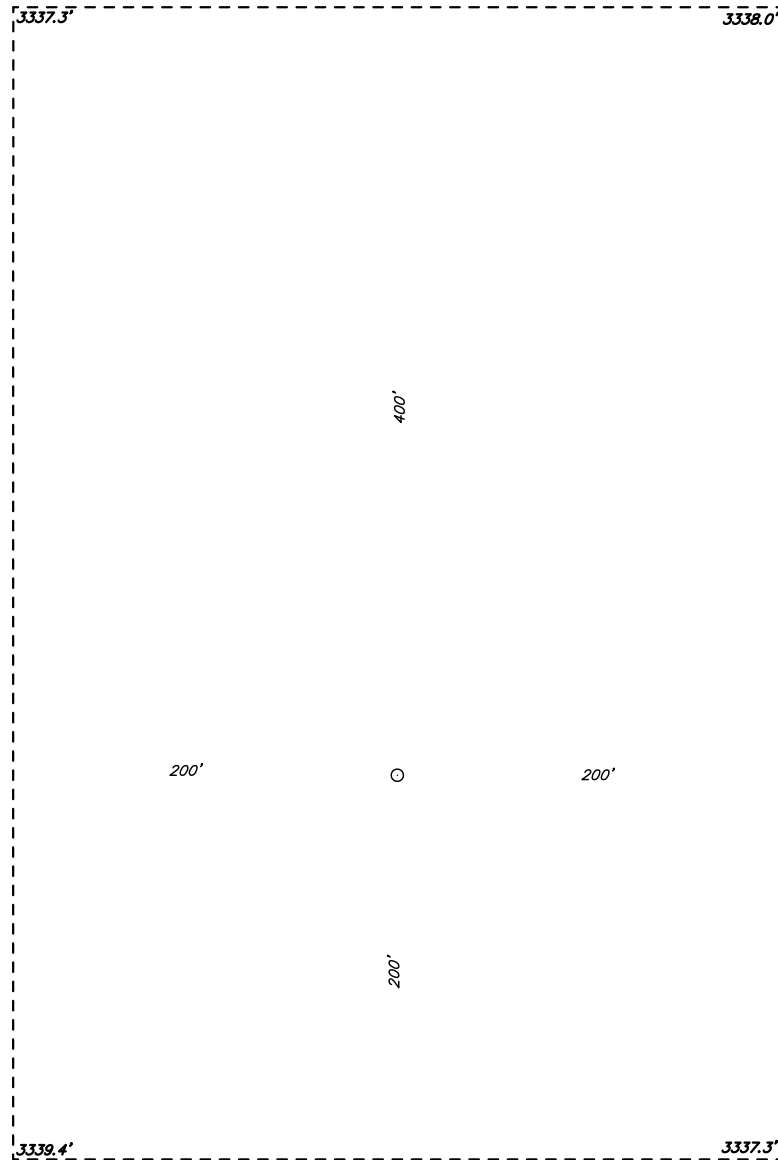
REF: PLUTO FEDERAL SWD #1 / WELL PAD TOPO

THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
THE SOUTH LINE AND 313' FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**basin
surveys**
focused on excellence
in the oilfield

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

**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



SOLARIS WATER MIDSTREAM

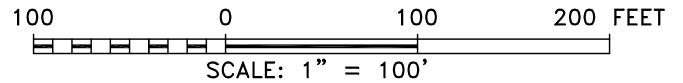
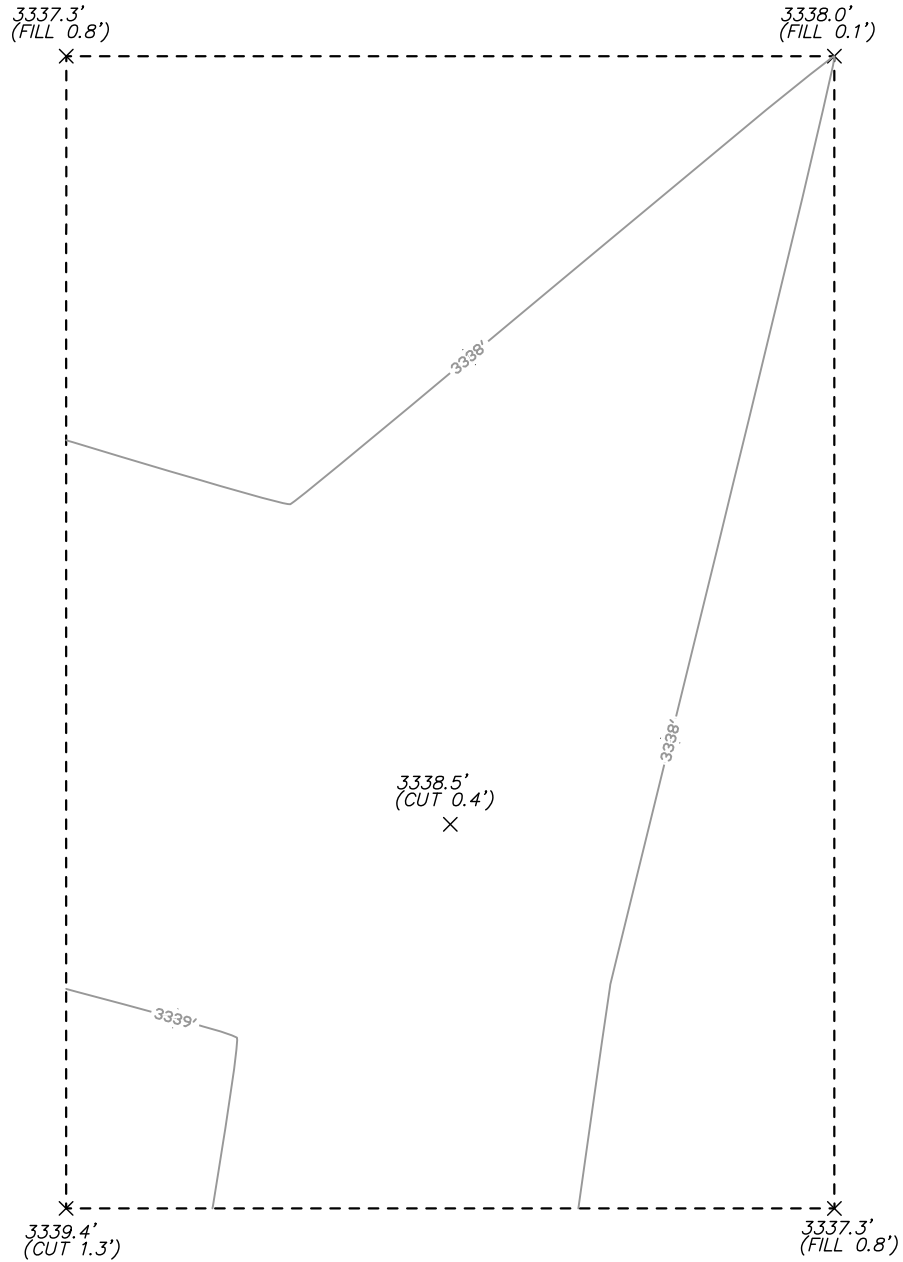
REF: PLUTO FEDERAL SWD #1 / WELL PAD TOPO

*THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
THE SOUTH LINE AND 313' FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST
N.M.P.M., EDDY COUNTY, NEW MEXICO.*

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in the oilfield

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

**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



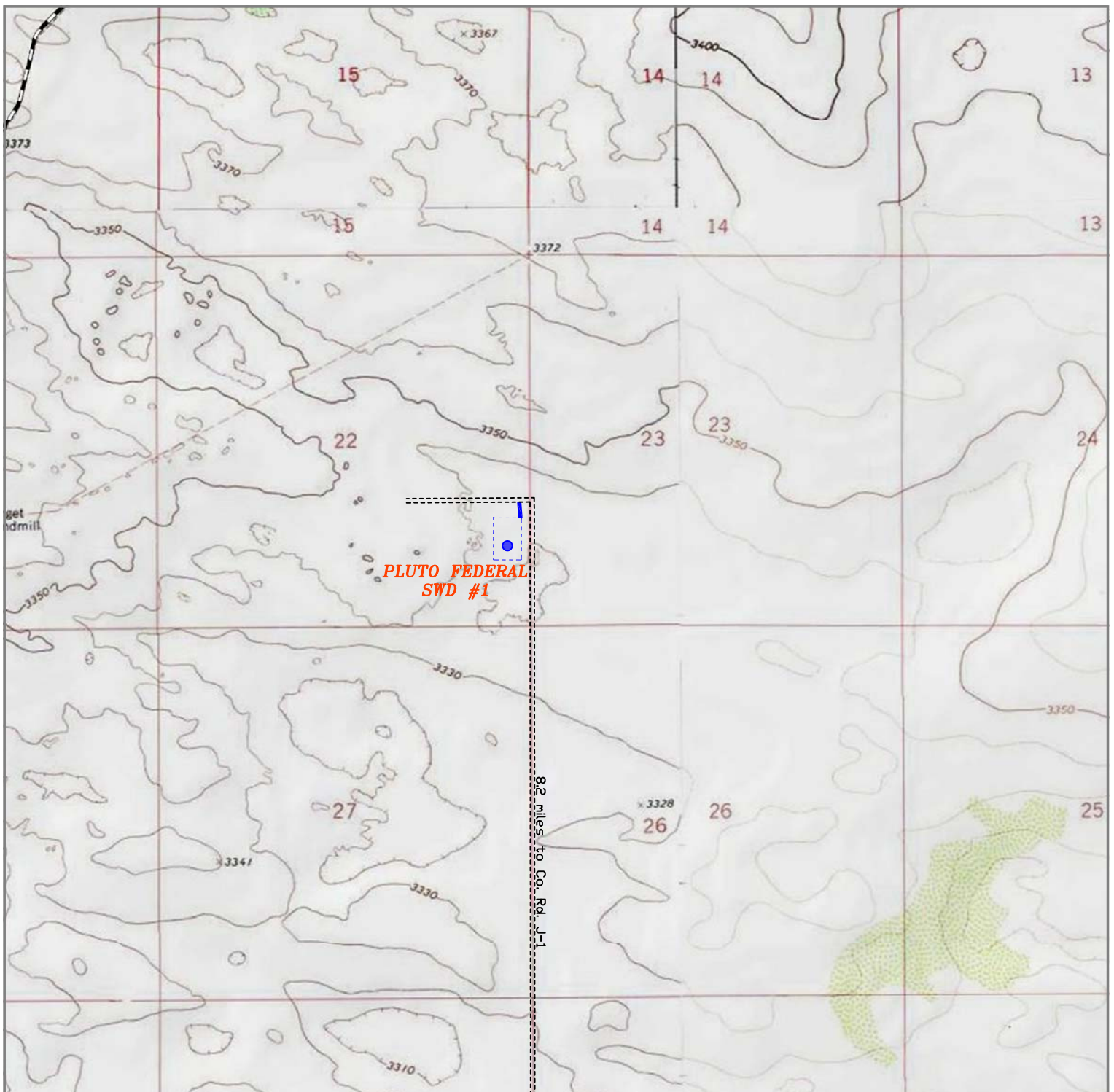
SOLARIS WATER MIDSTREAM

REF: PLUTO FEDERAL SWD #1 / CUT & FILL

*THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
THE SOUTH LINE AND 313' FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST
N.M.P.M., EDDY COUNTY, NEW MEXICO.*

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PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
 Section 22, Township 25 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.



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 1120 N. West County Rd.
 Hobbs, New Mexico 88241
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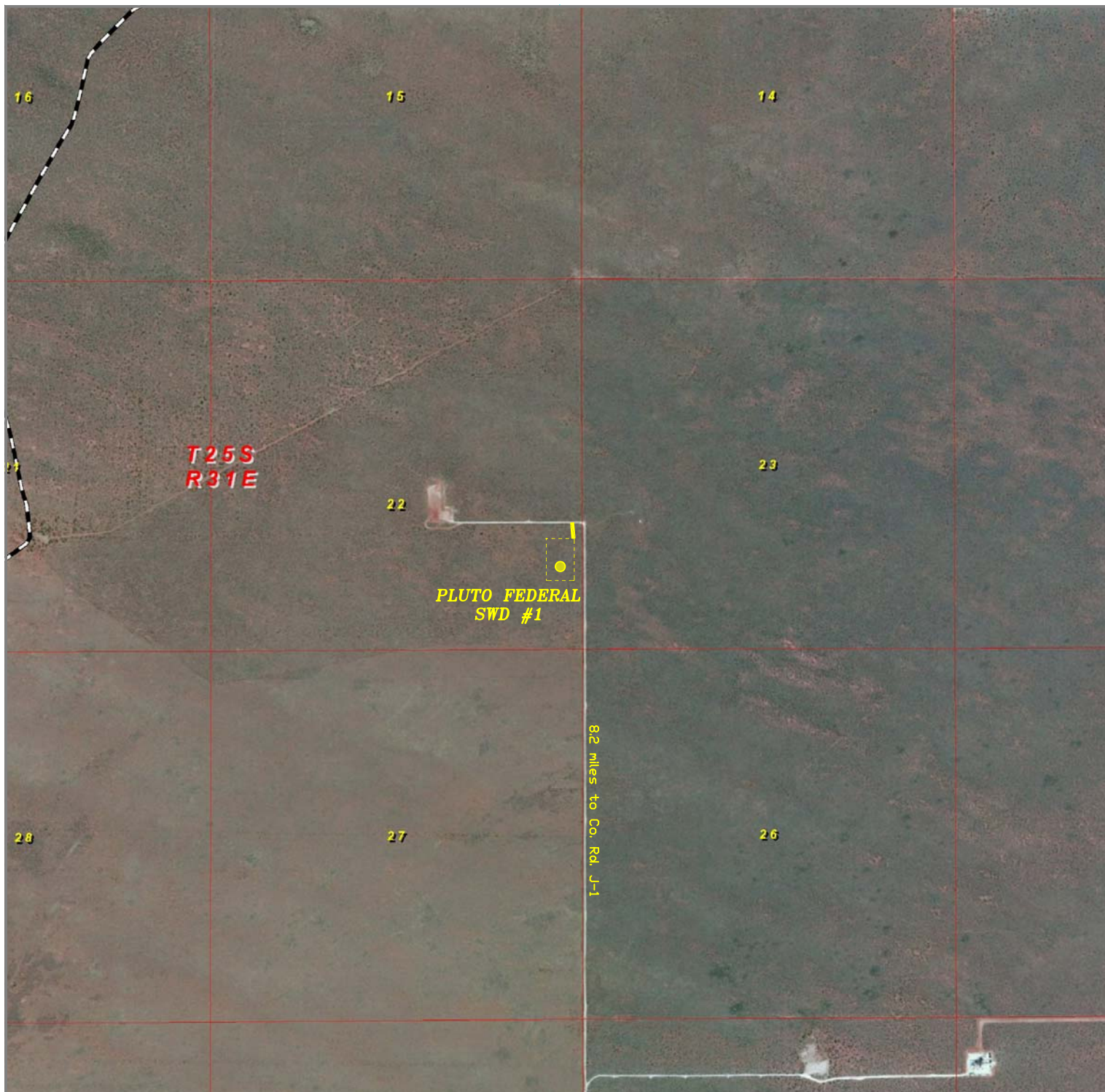
SCALE: 1" = 2000'

W.O. Number: KJG - 34502

Survey Date: 09-11-2018

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





PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
Section 22, Township 25 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

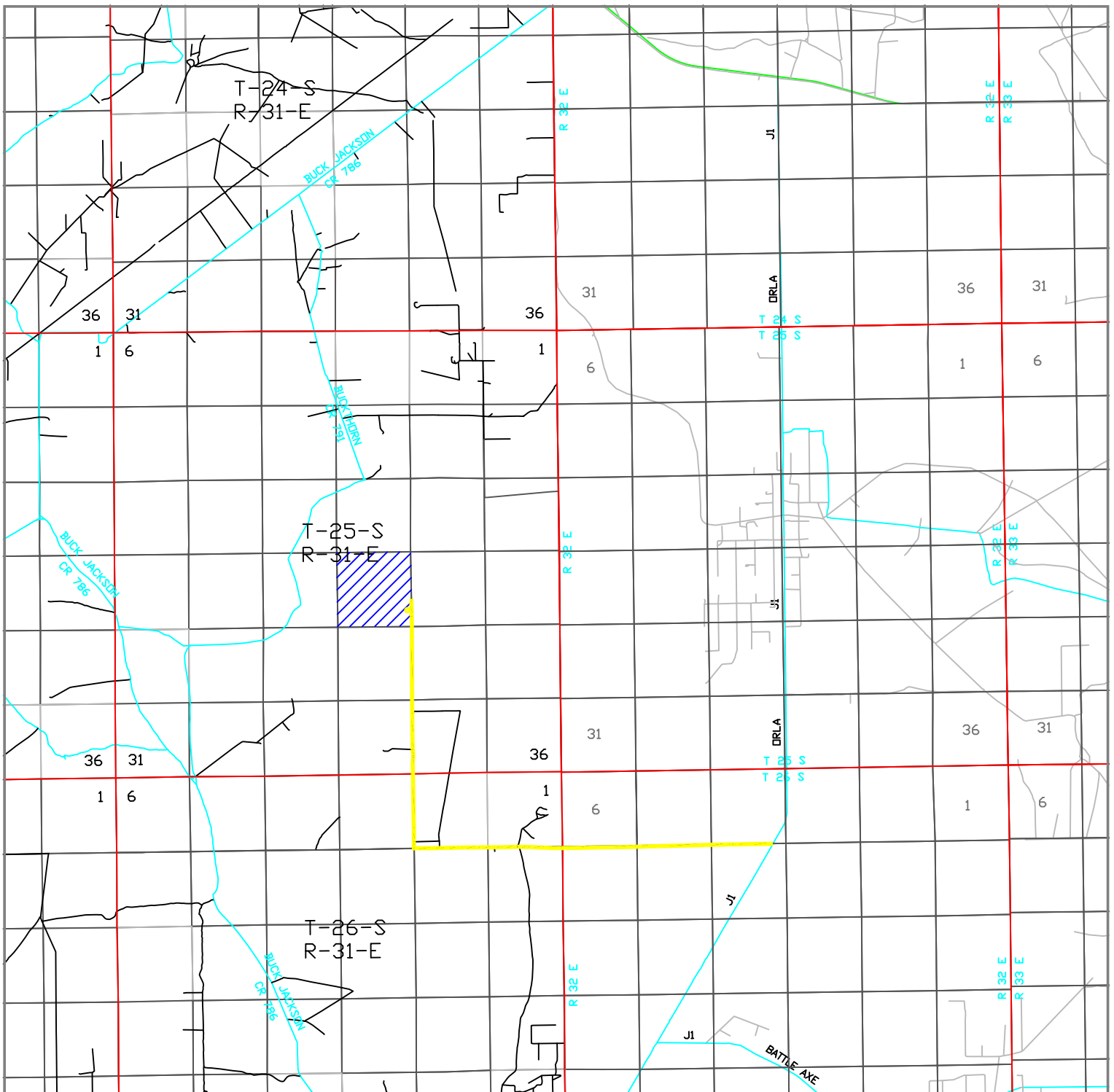
SCALE: 1" = 2000'

W.O. Number: KJG - 34502

Survey Date: 09-11-2018

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





PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
Section 22, Township 25 South, Range 31 East,
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0 1 MI 2 MI 3 MI 4 MI
SCALE: 1" = 2 MILES

W.O. Number: KJG 34502

Survey Date: 09-11-2018

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





LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

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

SOLARIS WATER MIDSTREAM, LLC

Pluto Fed SWD #1

Section 22-T25S-R31E

1,184' FSL & 313' FEL

Eddy County, New Mexico

GEOLOGICAL PROGNOSIS

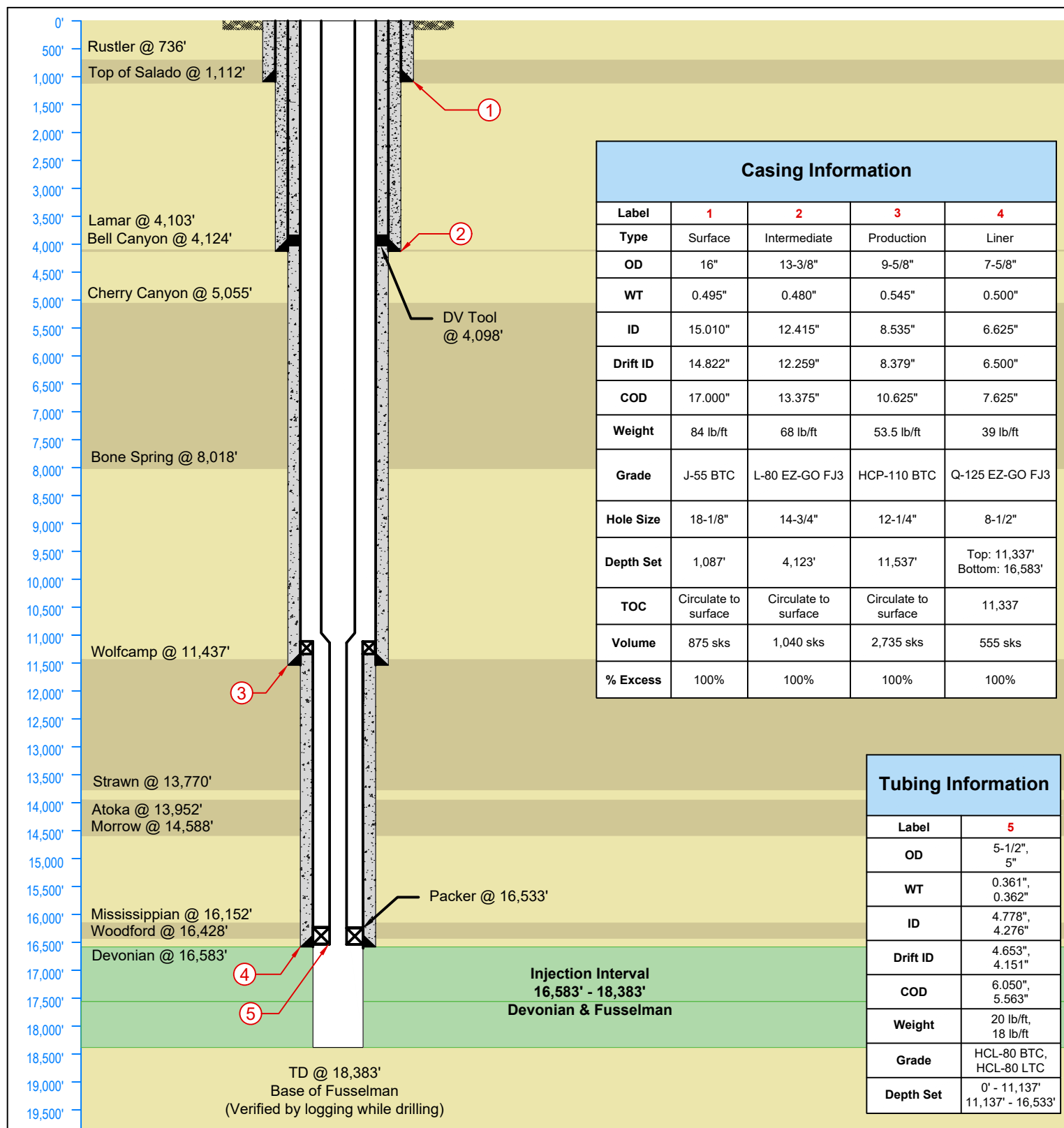
7/29/2019

GL: 3,339' (est.)

KB: 3,361' (+22' est.)

Proposed Injection Interval: 16,583' – 18,383'

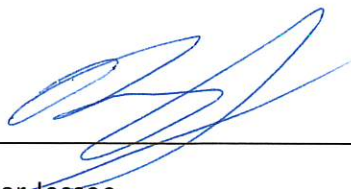
<u>Tops</u>	<u>Depths (est.)</u>	<u>Subsea (est.)</u>
Rustler	736'	+2,603'
Salado	1,112'	+2,227'
Lamar	4,103'	-764'
Bell Canyon	4,124'	-785'
Cherry Canyon	5,055'	-1,716'
Bone Spring	8,018'	-4,679'
Wolfcamp	11,437'	-8,098'
Strawn	13,770'	-10,431'
Atoka	13,952'	-10,613'
Morrow	14,588'	-11,249'
Mississippian Lime	16,152'	-12,813'
Woodford	16,428'	-13,089'
Devonian	16,583'	-13,089'
TD	18,383'	-13,244'



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		Pluto Federal SWD No. 1	
	Country: USA		State/Province: New Mexico	County/Parish: Eddy
	Location:		Site: 1,184' FSL & 313' FEL	Survey: S22-T25S-R31E
	API No: NA		Field: Devonian-Silurian (Code: 97869)	Well Type/Status: SWD
	NMOCD District No: 2		Project No: 2126	Date: 7/30/2019
	Drawn: TFM		Reviewed:	Approved:
	Rev No: 1		Notes:	

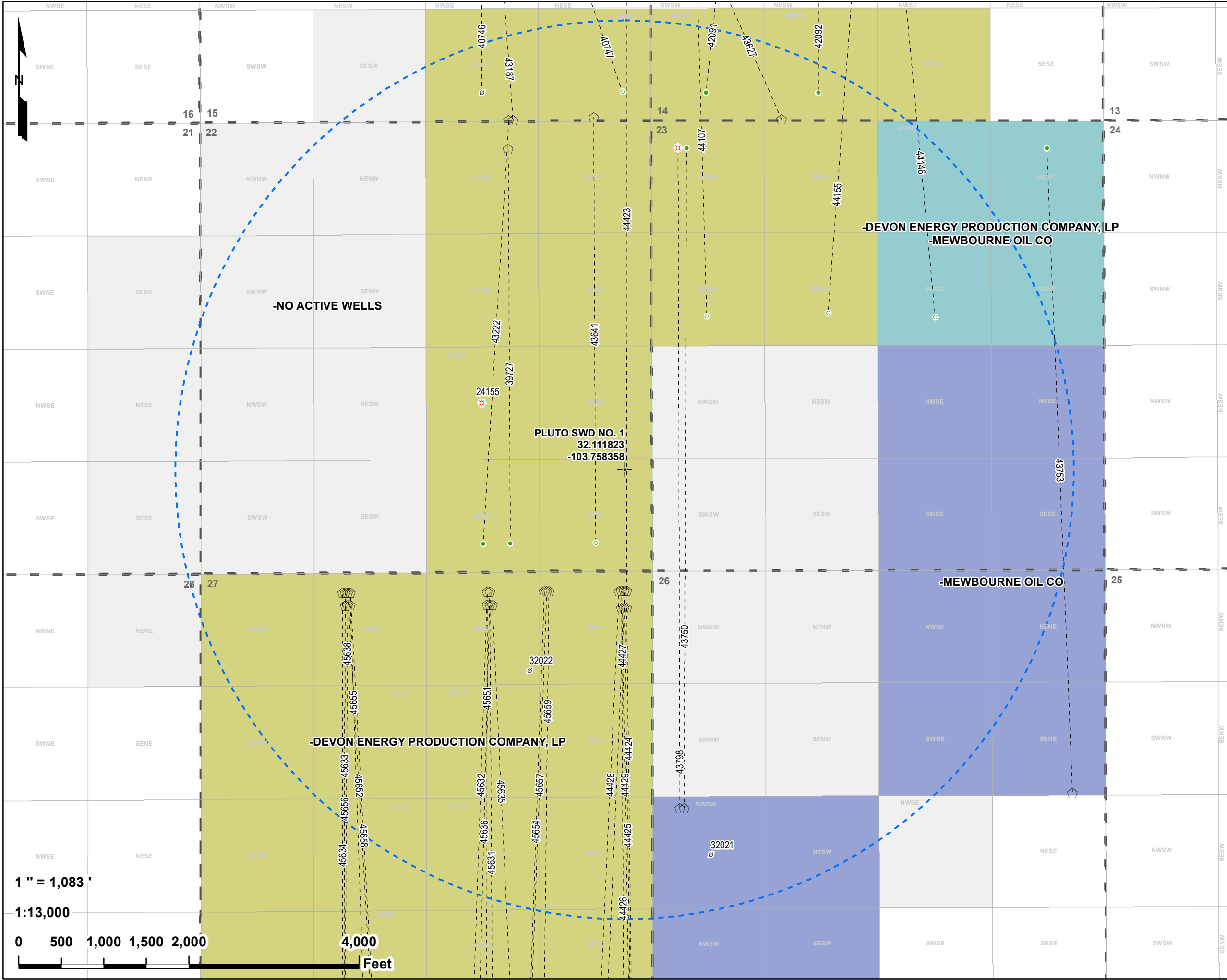
GEOLOGIC AFFIRMATION

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.



Parker Jessee
Geologist

Project: Solaris Water Midstream, LLC
Pluto Federal SWD No. 1



Pluto SWD No. 1

1-Mile Offset Operators

Solaris Water Midstream, LLC

Eddy Co., NM

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

Drawn by: ASG

Date: 7/26/2019

Approved by: ELR

LONQUIST & CO. LLC

PETROLEUM ENGINEERS

ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

Pluto SWD No. 1 SHL

1-Mile

QQ-Section (NM-PLSS 2nd Div.)

Section (NM-PLSS 1st Div.)

Township/Range (NM-PLSS)

--

Lateral

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

Horizontal Surface Location (37)

Active - Gas (1)

Cancelled/Abandoned - Location (2)

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

Active - Gas (3)

Active - Oil (11)

Cancelled/Abandoned Oil (1)

Permitted - Gas (7)

Permitted - Oil (15)

Offset Operator

-DEVON ENERGY PRODUCTION COMPANY, LP

-DEVON ENERGY PRODUCTION COMPANY, LP; -MEWBOURNE OIL CO

-MEWBOURNE OIL CO

-NO ACTIVE WELLS

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

62

285

EDDY

LEA

Map Extent

NEW MEXICO

TEXAS

CULBERSON

REEVES

LOVING

Pluto 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
24155	AMOCO DB FEDERAL #001	G	A	DEVON ENERGY PRODUCTION COMPANY, LP	14750	32.11400990000	-103.76376340000	6/26/1983	[96433] WILDCAT BIG SINK, WOLFCAMP (ABOLISH; [98220] PURPLE SAGE, WOLFCAMP (GAS)
32021	BIG SINKS 26 FEDERAL COM #001	G	C	CHEVRON U S A INC	0	32.09937109050	-103.75515872600	12/31/9999	-
32022	BIG SINKS 27 FEDERAL COM #001	G	C	CHEVRON U S A INC	0	32.1053551279	-103.762002359	12/31/9999	-
39727	SOFTSHELL 22 FEDERAL #001	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	9089	32.1222076000	-103.762710600	1/8/2012	[96654] WILDCAT BIG SINK, BONE SPRING
40746	COTTON DRAW 15 FED COM #001H	O	C	DEVON ENERGY PRODUCTION COMPANY, LP	9	32.1367493000	-103.763641400	12/31/9999	[96641] PADUCA, BONE SPRING (O); [96757] COTTON DRAW, DELAWARE SOUTH
40747	COTTON DRAW 15 FED COM #003H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1367493000	-103.763481100	12/31/9999	[96641] PADUCA, BONE SPRING (O); [96757] COTTON DRAW, DELAWARE SOUTH
42091	COTTON DRAW 14 FED COM #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1367226000	-103.753524800	7/17/2014	[96641] PADUCA, BONE SPRING (O)
42092	COTTON DRAW 14 FED COM #002H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1367073000	-103.750846900	8/21/2014	[96641] PADUCA, BONE SPRING (O)
43187	BELGIAN 15 FEDERAL COM #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	10342	32.1231380000	-103.762524000	10/2/2015	[96641] PADUCA, BONE SPRING (O)
43222	SHIRE 22 FEDERAL #001H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	10408	32.1231375000	-103.762685500	10/24/2015	[96641] PADUCA, BONE SPRING (O)
43627	BELGIAN 15 FEDERAL #002H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1231179000	-103.752324700	12/31/9999	[96641] PADUCA, BONE SPRING (O)
43641	SHIRE 22 FEDERAL #004H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1085597000	-103.757343800	12/31/9999	[96641] PADUCA, BONE SPRING (O)
43750	ARMSTRONG 26 35 WOLM FEDERAL COM #001H	O	A	MEWBOURNE OIL CO	11696	32.1008869000	-103.756167200	7/27/2018	[97860] JENNINGS, BONE SPRING, WEST; [98220] PURPLE SAGE, WOLFCAMP (GAS)
43753	ARMSTRONG 26 35 W1IP FEDERAL COM #001	O	A	MEWBOURNE OIL CO	12090	32.1013144500	-103.741421800	10/31/2017	[97860] JENNINGS, BONE SPRING, WEST; [98220] PURPLE SAGE, WOLFCAMP (GAS)
43798	ARMSTRONG 26 35 W1LM FEDERAL COM #002H	G	A	MEWBOURNE OIL CO	12068	32.1008871800	-103.756328500	9/4/2018	[84335] ROSS RANCH, WOLFCAMP (G)(ABOLISH); [98220] PURPLE SAGE, WOLFCAMP (GAS)
44107	COTTON DRAW 14 23 FEDERAL COM #421H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1368699000	-103.755758200	12/31/9999	[96757] COTTON DRAW, DELAWARE SOUTH
44146	COTTON DRAW 14 23 FEDERAL COM #423H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1368379000	-103.748608500	12/31/9999	[96757] COTTON DRAW, DELAWARE SOUTH
44155	COTTON DRAW 14 23 FEDERAL COM #422H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1368386000	-103.748707300	12/31/9999	[96757] COTTON DRAW, DELAWARE SOUTH
44423	LUSITANO 27 15 FEDERAL COM #234H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079132000	-103.758300600	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
44424	LUSITANO 27 34 FEDERAL COM #235H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	10292	32.10736350000	-103.75830420000	10/2/2017	[97860] JENNINGS, BONE SPRING, WEST
44425	LUSITANO 27 34 FEDERAL COM #336H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	11513	32.1079131000	-103.758397400	9/28/2017	[97860] JENNINGS, BONE SPRING, WEST
44426	LUSITANO 27 34 FEDERAL COM #528H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	8750	32.10736330000	-103.75849820000	10/7/2017	[97860] JENNINGS, BONE SPRING, WEST
44427	LUSITANO 27 34 FEDERAL COM #536H	O	A	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1073633000	-103.758401200	10/4/2017	[97860] JENNINGS, BONE SPRING, WEST
44428	LUSITANO 27 34 FEDERAL COM #626H	G	A	DEVON ENERGY PRODUCTION COMPANY, LP	11737	32.1079125000	-103.758591000	9/24/2017	[98220] PURPLE SAGE, WOLFCAMP (GAS)
44429	LUSITANO 27 34 FEDERAL COM #718H	G	A	DEVON ENERGY PRODUCTION COMPANY, LP	11906	32.1079130000	-103.758494400	9/26/2017	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45631	LUSITANO 27 34 FEDERAL COM #535H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.10749650000	-103.76349890000	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45632	LUSITANO 27 34 FEDERAL COM #624H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079088000	-103.763593100	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45633	LUSITANO 27 34 FEDERAL COM #233H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1074927000	-103.768990700	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45634	LUSITANO 27 34 FEDERAL COM #733H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079049000	-103.769083700	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45635	LUSITANO 27 34 FEDERAL COM #525H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1074968000	-103.763402100	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45636	LUSITANO 27 34 FEDERAL COM #734H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079089000	-103.763496200	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45638	LUSITANO 27 34 FEDERAL COM #533H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1074928000	-103.768893800	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45651	LUSITANO 27 34 FEDERAL COM #232H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1074966000	-103.763595800	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45652	LUSITANO 27 34 FEDERAL COM #333H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079050000	-103.768889900	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45654	LUSITANO 27 34 FEDERAL COM #335H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079106000	-103.761429600	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45655	LUSITANO 27 34 FEDERAL COM #523H	O	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1074929000	-103.768797000	12/31/9999	[97860] JENNINGS, BONE SPRING, WEST
45656	LUSITANO 27 34 FEDERAL COM #622H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079050000	-103.768986800	3/16/2019	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45657	LUSITANO 27 34 FEDERAL COM #716H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079106000	-103.761332800	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45658	LUSITANO 27 34 FEDERAL COM #713H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079052000	-103.768793000	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45659	LUSITANO 27 34 FEDERAL COM #736H	G	N	DEVON ENERGY PRODUCTION COMPANY, LP	0	32.1079108000	-103.761255200	12/31/9999	[98220] PURPLE SAGE, WOLFCAMP (GAS)

Pluto 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
14/T25S/R31E	M,N,O	DEVON ENERGY PRODUCTION COMPANY, LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
15/T25S/R31E	O,P	DEVON ENERGY PRODUCTION COMPANY, LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
	N	-	CHEVRON USA INC	-	-	6301 DEAUVILLE	MIDLAND TX 797062964
	N	-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
	N	-	XTO HOLDINGS LLC	-	-	22777 SPRINGWOODS VILLAGE PKWY	SPRING TX 773891425
21/T25S/R31E	H,I,P	-	THRU LINE OG NM LLC	-	-	201 MAIN ST #2700	FORT WORTH TX 76102
	H,I,P	-	CHEVRON USA INC	-	-	6301 DEAUVILLE	MIDLAND TX 797062964
	H,I,P	-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
22/T25S/R31E	A,B,G,H,I,J,O,P	DEVON ENERGY PRODUCTION COMPANY, LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
	A,B,C,E,F,G,H,I,J,K,L,N,O,P	-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
	D,M	-	THRU LINE OG NM LLC	-	-	201 MAIN ST #2700	FORT WORTH TX 76102
23/T25S/R31E	A,B,C,D,E,F,G,H	DEVON ENERGY PRODUCTION COMPANY, LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
	A,B,G,H,I,J,O,P	MEWBOURNE OIL CO	-	-	-	P.O. BOX 5270	HOBBS, NM 88241
	I,J,K,L,M,N,O,P	-	OCCIDENTAL PERMIAN LP	-	-	5 E GREENWAY PLAZA #110	HOUSTON TX 770460521
		-	V-F PETROLEUM INC	-	-	PO BOX 1889	MIDLAND TX 79702
		-	ADVANCE ENERGY PARTNERS LLC	-	-	11490 WESTHEIMER RD STE 950	HOUSTON TX 770776841
		-	HAYES PARTNERS I	-	-	PO BOX 3700	MIDLAND TX 79702
		-	M BRAD BENNETT INC	-	-	PO BOX 2062	MIDLAND TX 797022062
		-	BIG SINKS JOINT VENTURE	-	-	10501 N CENTRAL EXPY #303	DALLAS TX 75231
		-	LONGHORN PARTNERS	-	-	BOX 1973	MIDLAND TX 79702
		-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
		-	HAYES LAND CORP	-	-	3300 N A ST BLDG 1 #220	MIDLAND TX 79705
		-	HAYES PROPERTIES INC	-	-	PO BOX 3700	MIDLAND TX 79702
		-	REYNOLDS JOE J	-	-	2333 50TH ST #4	LUBBOCK TX 79421
26/T25S/R31E	A,B,G,H,K,L,M,N	MEWBOURNE OIL CO	-	-	-	P.O. BOX 5270	HOBBS, NM 88241
	A,B,C,D,E,F,G,H	-	OCCIDENTAL PERMIAN LP	-	-	5 E GREENWAY PLAZA #110	HOUSTON TX 770460521
		-	V-F PETROLEUM INC	-	-	PO BOX 1889	MIDLAND TX 79702
		-	ADVANCE ENERGY PARTNERS LLC	-	-	11490 WESTHEIMER RD STE 950	HOUSTON TX 770776841
		-	HAYES PARTNERS I	-	-	PO BOX 3700	MIDLAND TX 79702
		-	M BRAD BENNETT INC	-	-	PO BOX 2062	MIDLAND TX 797022062
		-	BIG SINKS JOINT VENTURE	-	-	10501 N CENTRAL EXPY #303	DALLAS TX 75231
		-	LONGHORN PARTNERS	-	-	BOX 1973	MIDLAND TX 79702
		-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
		-	HAYES LAND CORP	-	-	3300 N A ST BLDG 1 #220	MIDLAND TX 79705
		-	HAYES PROPERTIES INC	-	-	PO BOX 3700	MIDLAND TX 79702
		-	REYNOLDS JOE J	-	-	2333 50TH ST #4	LUBBOCK TX 79421
	L,K,M,N	-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
		-	HAYES LAND & PRODUCTION LP	-	-	PO BOX 51407	MIDLAND TX 797101407
		-	ADVANCE ENERGY PARTNERS LLC	-	-	11490 WESTHEIMER RD STE 950	HOUSTON TX 770776841
		-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
		-	LONGHORN PARTNERS	-	-	BOX 1973	MIDLAND TX 79702
	J	-	4-BR RESOURCES INVESTMENTS II LLC	-	-	44A E BROAD OAKS	HOUSTON TX 77056
		-	MEWBOURNE OIL CO	-	-	PO BOX 7698	TYLER TX 757117698
		-	YATES JOHN A JR	-	-	105 S 4TH ST	ARTESIA NM 88210
		-	OXY Y-1 COMPANY	-	-	PO BOX 27570	HOUSTON TX 772277570
		-	V-F PETROLEUM INC	-	-	PO BOX 1889	MIDLAND TX 79702
		-	VLADIN LLC	-	-	PO BOX 100	ROSWELL NM 882020100
		-	ADVANCE ENERGY PARTNERS LLC	-	-	11490 WESTHEIMER RD STE 950	HOUSTON TX 77077684
		-	4-BR RESOURCES INVESTMENTS II LLC	-	-	44A E BROAD OAKS	HOUSTON TX 77056
		-	TULIPAN LLC	-	-	428 SANDOVAL ST STE 200	SANTA FE NM 875017312
		-	MARTIN YATES III ESTATE	-	-	105 S 4TH ST	ARTESIA NM 88210
		-	M BRAD BENNETT INC	-	-	PO BOX 2062	MIDLAND TX 797022062
		-	LILLIE M YATES EST	-	-	105 S 4TH ST	ARTESIA NM 88210
		-	YATES S P	-	-	105 S 4TH ST	ARTESIA NM 88210
		-	SANTO LEGADO LLC	-	-	PO BOX 1020	ARTESIA NM 882111020
		-	MARIGOLD LLLP	-	-	PO BOX 1290	ARTESIA NM 882111290
		-	SHARBRO ENERGY LLC	-	-	PO BOX 840	ARTESIA NM 882110840
		-	YATES INDUSTRIES LLC	-	-	PO BOX 1091	ARTESIA NM 882111091
		-	YATES RICHARD M	-	-	428 SANDOVAL ST STE 200	SANTA FE NM 875017312
		-	PETRO QUATRO LLC	-	-	428 SANDOVAL ST STE 200	SANTA FE NM 875017312
		-	BIG SINKS JOINT VENTURE	-	-	10501 N CENTRAL EXPY #303	DALLAS TX 75231
		-	LONGHORN PARTNERS	-	-	BOX 1973	MIDLAND TX 79702

Pluto SWD No. 1
1 Mile Offset Operators and Lessees List

		-	REYNOLDS JOE J	-	-	2124 BROADWAY	LUBBOCK TX 79401
		-	YATES RICHARD	-	-	105 S 4TH ST	ARTESIA NM 88210
		-	EOG RESOURCES INC	-	-	PO BOX 4362	HOUSTON TX 772104362
		-	DEVON ENERGY PROD CO LP	-	-	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010
		-	HAYES LAND CORP	-	-	3300 N A ST BLDG 1 #220	MIDLAND TX 79705
		-	RESOURCE DEVELOPMENT TECHNOLOGY LLC	-	-	PO BOX 1020	MORRISON CO 804655020
		-	SHARBRO OIL LTD CO	-	-	PO BOX 840	ARTESIA NM 88210
		-	MULBERRY PTNRS II LLP A NM LLP	-	-	105 S FOUTH ST	ARTESIA NM 882102177
27/T25S/R31E	ENTIRE SECTION	DEVON ENERGY PRODUCTION COMPANY, LP	-	-	-	333 WEST SHERIDAN AVE	OKLAHOMA CITY, OK 73102
28/T25S/R31E	A	-	THRU LINE OG NM LLC	-	-	201 MAIN ST #2700	FORT WORTH TX 76102
	A	-	THRU LINE OG NM LLC	-	-	201 MAIN ST #2700	FORT WORTH TX 76102
	A	-	CHEVRON USA INC	-	-	6301 DEAUVILLE	MIDLAND TX 797062964
22/T25S/R31E	ENTIRE SECTION	-	-	BUREAU OF LAND MANAGEMENT	BUREAU OF LAND MANAGEMENT	620 E GREENE ST	CARLSBAD, NM 88220

Pluto Federal 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				
USA #001	3001504776	20	26S	30E	E	EDDY		DELAWARE		159967						97900	137	1100					
E D WHITE FEDERAL NCT 1 #003	3001505886	26	26S	31E	D	EDDY	MASON NORTH	DELAWARE		21212						132100	195	425					
NORTH EL MAR UNIT #022	3002508278	25	26S	32E	J	LEA	EL MAR	DELAWARE		244815						153500	88	220					
HOPI FEDERAL #001	3001529367	1	25S	28E	F	EDDY	WILLOW LAKE	DELAWARE	6.2	301207	109024	25348.9	34.713	2749.51	221998	74.4534	84.987						
HOPI FEDERAL #002	3001530754	1	25S	28E	C	EDDY		DELAWARE	5.9	289700	104602	23783.6	45.334	2914.5	212544	49.5095	508.218						
NORTH EL MAR UNIT #028	3002508296	26	26S	32E	L	LEA	EL MAR	DELAWARE		249479						156000	976	373					
NORTH EL MAR UNIT #045	3002508308	35	26S	32E	A	LEA	EL MAR	DELAWARE		255115						160000	85	310					
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	D	EDDY	CORRAL CANYON SOUTH	DELAWARE	6	103300	53495	3120	10	3080		97000	100						
HOPP FED #001	3001504738	4	25S	30E	M	EDDY		DELAWARE		180137						110500	232	1199					
R AND B FEDERAL #001Y	3001504753	17	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE		146130						89700	24	346					
CONTINENTAL FEDERAL #001	3001510048	20	25S	30E	D	EDDY	CORRAL CANYON	DELAWARE		193989						119700	82	1446					
SUPERIOR STATE #002	3001510181	8	25S	30E	J	EDDY	CORRAL CANYON	DELAWARE		150830													
COTTON DRAW UNIT #161H	3001538433	2	25S	31E	D	EDDY		DELAWARE-BRUSHY CANYON	6.5	257515.5	74122.9	16699.4	79.5	2736.1		160663.2		359.4	400				
COTTON DRAW 13 FEDERAL #001H	3001540385	13	25S	31E	M	EDDY		DELAWARE-BRUSHY CANYON	6.7	239818.3	72792.6	12750.4	110.8	2141.6		149091.1		595.6	400				
COTTON DRAW UNIT #172H	3001542426	1	25S	31E	D	EDDY		DELAWARE-BRUSHY CANYON	6.3	245565.5	71987.8	15105.6	76.4	2475.6		153168.3		545.1	400				
COTTON DRAW UNIT #173H	3001542515	1	25S	31E	P	EDDY		DELAWARE-BRUSHY CANYON	6.5	240893.6	69999.9	13540.5	54	2248.5		152475.6		600.8	300				
COTTON DRAW 10 FEDERAL.COM #002H	3001539230	10	25S	31E	A	EDDY		DELAWARE-BRUSHY CANYON	7.4	254959.9	79764.6	13961	35	2265	2.5	156140	48.8	351	20				
COTTON DRAW UNIT #153H	3001538535	3	25S	31E	B	EDDY		DELAWARE-BRUSHY CANYON	6.7	271580.1	82640	18493	103	3404	5	163110	219.6	286	30				
COTTON DRAW 11 FEDERAL #002H	3001539375	11	25S	31E	C	EDDY		DELAWARE-BRUSHY CANYON	6.3	249141.5	73945	14492	45	2514	2.5	155100	122	0	250				
COTTON DRAW UNIT #162H	3001539730	11	25S	31E	M	EDDY		DELAWARE-BRUSHY CANYON	6.2	247108.5	74025	13425	76	2423	4.5	154200	122	0	300				
SNAPPING 2 STATE #013H	3001542113	2	26S	31E	N	EDDY		BONE SPRING 3RD SAND	6.8	91289.1	28721.3	3440.7	16.3	437.4		56957.4		327.9	150				
SNAPPING 10 FEDERAL #005H	3001540994	10	26S	31E	P	EDDY		BONE SPRING 2ND SAND	6.6	138376	44458.5	6280.8	29.7	781.3	0	84470	122	618	20				
SNAPPING 10 FEDERAL #003H	3001539866	10	26S	31E	N	EDDY		BONE SPRING 2ND SAND	6.5	152439.2	48495.7	6731.3	29.1	801.4	1.06	94055	244	0	100				
ODIE 4 STATE #001H	3001541311	4	25S	28E	M	EDDY		BONE SPRING 2ND SAND	6.2	190675.4	57102	10650	45	1414	1.3	119078	93.1	17	252				
NERMAL 4 STATE #001H	3001541239	4	25S	28E	C	EDDY		BONE SPRING 2ND SAND	7.4	208311.9	67903	12598	31	1592	1.5	123723	61	1.7	260				
POOKY 4 STATE #001H	3001541241	4	25S	28E	A	EDDY		BONE SPRING 2ND SAND	7	204576.5	63037.2	12091.9	28.2	1510.7	1.6	125493	48.8	0	0				
COTTON DRAW UNIT #219H	3001541363	2	25S	31E	P	EDDY		BONE SPRING 2ND SAND	6.4	154900.7	46690.1	7728.7	132	945.5	1.78	97130.8	183	0	200				
COTTON DRAW UNIT #220H	3001541364	2	25S	31E	P	EDDY		BONE SPRING 2ND SAND	6.2	151722	47168.6	7450	48.1	989.6	1.1	93392.1	122	1116.7	200				
COTTON DRAW 10 FEDERAL.COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.2	166762.2	50511.3	8741.5	34.9	1113.3	1.09	104123.2	122	0	150				
COTTON DRAW 10 FEDERAL.COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.2	166972	50511.3	8741.5	34.9	1113.3	1.1	104123.2	122	698.3	150				
COTTON DRAW 10 FEDERAL.COM #004H	3001542127	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6	157444	48594.2	8080.1	33.4	1039.4	1	97266	122	767.5	150				
COTTON DRAW 15 FED.COM #002H	3001540748	15	25S	31E	B	EDDY		BONE SPRING 2ND SAND	6.9	158206.7	48491.4	7898.9	47.9	982.5	1.19	98665.6	122	0	200				
COTTON DRAW UNIT #202H	3001541437	2	25S	31E	M	EDDY		BONE SPRING 2ND SAND	6.9	149970.4	47221.1	7739.3	48.6	945.9	1.39	91736.6	188	0	200				
COTTON DRAW 14 FED.COM #001H	3001542091	14	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.4	155557.8	47632.8	7833.6	31.4	950.8	0	96870.5	122	0	200				
COTTON DRAW 14 FED.COM #002H	3001542092	14	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.2	154868.7	48183	8015.7	36	979.9	1.07	95447.5	122	0	200				
COTTON DRAW 10 FEDERAL.COM #003H	3001542126	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	156876.4	47995.3	8167.1	46.9	1037.2	1.26	97409	152	0	200				
COTTON DRAW 10 FEDERAL.COM #004H	3001542127	10	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.5	158125.7	48703.1	8121.1	37.1	1022.8	1.06	98100	122	0	200				
COTTON DRAW UNIT #216H	3001542317	3	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.5	151149.4	46958.4	7753.9	38.7	968.6	0	93214.4	122	0	200				
COTTON DRAW UNIT #217H	3001542318	3	25S	31E	D	EDDY		BONE SPRING 2ND SAND	6.5	150344.4	46535.7	7533.5	36	943.7	0	93134.6	122	0	200				
COTTON DRAW 14 FEDERAL #003H	3001542504	14	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	149342.5	46864.9	7735.5	34.3	953.9	1.08	91392.5	244	0	200				
COTTON DRAW 14 FEDERAL #004H	3001542505	14	25S	31E	A	EDDY		BONE SPRING 2ND SAND	6.8	148867.1	46832	7781.8	31.8	940.8	1.03	91091.9	144	0	200				
COTTON DRAW UNIT #222H	3001542513	1	25S	31E	N	EDDY		BONE SPRING 2ND SAND	7.1	145420.8	45961.8	7771.4	35	973.4	1.29	88433.1	144	0	200				
COTTON DRAW UNIT #221H	3001542514	1	25S	31E	N	EDDY		BONE SPRING 2ND SAND	7.1	145160.9	44866.9	7892.4	36	972.6	1.25	89011.8	244	0	200				
SNAPPING 2 STATE #014H	3001542688	2	26S	31E	P	EDDY		WOLF CAMP	7.3	81366.4	26319.4	2687.4	26.1	326.7		50281.2		399.7	100				
SIGNAL ST #002	3001502520	28	25S	28E	N	EDDY		MORROW		102849													
GOVERNMENT 134 #001	3001500076	12	26S	24E	H	EDDY	WASHINGTON RANCH	MORROW		2009						40	73	1320					
SNAPPING 10 FEDERAL #001H	3001537899	10	26S	31E	B	EDDY		AVALON UPPER	6.5	199638.8	68948.2	7560.4	111.2	1522.8	2.19	118195	732	0	500				
SNAPPING 11 FEDERAL #001H	3001538193	11	26S	31E	N	EDDY		AVALON UPPER	6.1	225189.8	77010.7	8743.8	636.1	1649.2	6.75	134075	366	0	300				
SNAPPING 2 STATE #003H	3001539036	2	26S	31E	M	EDDY		AVALON UPPER	6.1	223019	76001.7	10437.8	209.9	1922.4	4.5	131072	366	632	1100				
SNAPPING 2 STATE #006H	3001539162	2	26S	31E	D	EDDY		AVALON UPPER	6.5	179788.5	71575.7	617.4	21.8	109.6	0	101374	3660	0	500				
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	D	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	D	EDDY		AVALON UPPER	7	193732.3	74027.8	513	104	118	1	113441	1830	2665	700				
COTTON DRAW UNIT #135H	3001538533	2	25S	31E	N	EDDY		AVALON MIDDLE	7.1	204607.1	68549.6	7663	25	1369	1.5	123033	976	1434	60				
COTTON DRAW UNIT #136H	3001538534	2	25S	31E	N	EDDY		AVALON LOWER	7.1	176370.9	63443.9	3351	36	615	0.8	104946	1537.2	1188	40				
COTTON DRAW UNIT #137H	3001538556	2	25S	31E	N	EDDY		AVALON MIDDLE	7.3	230564.8	73317.3	11591	44	1987	2.5	140233	610	781	40				
COTTON DRAW UNIT #135H	3001538533	2	25S	31E	N	EDDY		AVALON MIDDLE	6.5	221504.1	71676	11845	49	2039	2.5	131876	707.6	1106	50				
SOFTSHELL 22 FEDERAL #001	3001539727	22	25S	31E	B	EDDY		AVALON UPPER	6.8	160733	52106	1481	68	289	0.9	102300	2342.4	1012	60				
COTTON DRAW UNIT #134H	300153829																						

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001292327

LONQUIST & CO
1001 MCKINNEY, SUITE 1650
HOUSTON TX 77002

Legal Notice

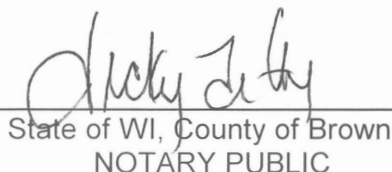
Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Pluto Federal SWD No. 1. The proposed well will be located 1,184' FSL & 313' FEL in Section 22, Township 25S, Range 31E 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 16,583 feet to a maximum depth of 18,383 feet. The maximum surface injection pressure will not exceed 3,317 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.

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:

07/26/19


Legal Clerk

Subscribed and sworn before me this
30th of July 2019.


State of WI, County of Brown
NOTARY PUBLIC


My Commission Expires



DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

Notices were sent for the Pluto Federal SWD No. 1 application by mailing them a copy of Form C-108 on 7/31/2019. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.



Tyler Moehlman
Petroleum Engineer

Project: Solaris Water Midstream, LLC
Pluto Federal SWD No. 1

July 31, 2019

4-BR RESOURCES INVESTMENTS II LLC
44A E BROAD OAKS
HOUSTON, TX 77056

Subject: Pluto Fed 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 Pluto Fed 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
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

ADVANCED ENERGY PARTNERS LLC
11490 WESTHEIMER RD STE 950
HOUSTON, TX 770776841

Subject: Pluto Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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

(512) 600-1777
ramona@lonquist.com

July 31, 2019

BIG SINKS JOINT VENTURE
10501 N CENTRAL EXPY #303
DALLAS, TX 75231

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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Regards,



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

(512) 600-1777
ramona@lonquist.com

July 31, 2019

BUREAU OF LAND MANAGEMENT
620 E GREENE ST
CARLSBAD, NM 88220

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 31, 2019

CHEVRON USA INC
6301 DEAUVILLE
MIDLAND, TX 797062964

Subject: Pluto Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
HOUSTON

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

WICHITA
CALGARY

www.lonquist.com

July 31, 2019

DEVON ENERGY PROD CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 731025010

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

DEVON ENERGY PRODUCTION COMPANY, LP
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

Subject: Pluto Fed 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 Pluto Fed 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.

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

Regards,



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

(512) 600-1777
ramona@lonquist.com

LONQUIST & CO. LLC

AUSTIN
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ENGINEERS

ENERGY
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WICHITA
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July 31, 2019

EOG RESOURCES INC
PO BOX 4362
HOUSTON, TX 772104362

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

HAYES LAND & PRODUCTION LP
PO BOX 51407
MIDLAND, TX 797101407

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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Sr. Petroleum Engineer
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(512) 600-1777
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July 31, 2019

HAYES LAND CORP
3300 N A ST BLDG 1 #220
MIDLAND, TX 79705

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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July 31, 2019

HAYES PARTNERS I
PO BOX 3700
MIDLAND, TX 79702

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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Regards,



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

(512) 600-1777
ramona@lonquist.com

July 31, 2019

HAYES PROPERTIES INC
PO BOX 3700
MIDLAND, TX 79702

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

JOE J REYNOLDS
2333 50TH ST #4
LUBBOCK, NM 79421

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

JOHN A YATES JR
105 S 4TH ST
ARTESIA, NM 88210

Subject: Pluto Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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July 31, 2019

LILLIE M YATES EST
105 S 4TH ST
ARTESIA, NM 88210

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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July 31, 2019

LONGHORN PARTNERS
BOX 1973
MIDLAND, TX 79702

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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July 31, 2019

M BRAD BENNETT INC
PO BOX 2062
MIDLAND, TX 797022062

Subject: Pluto Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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July 31, 2019

MARIGOLD LLLP
PO BOX 1290
ARTESIA NM 882111290

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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Regards,



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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

MARTIN YATES III ESTATE
105 S 4TH ST
ARTESIA, NM 88210

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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

(512) 600-1777
ramona@lonquist.com

July 31, 2019

MEWBOURNE OIL CO
P.O. BOX 5270
HOBBS, NM 88241

Subject: Pluto Fed SWD No. 1 Authorization to Inject


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July 31, 2019

MULBERRY PTNERS II LLP A NM LLP
105 S FOUTH ST
ARTESIA, NM 882102177

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July 31, 2019

OCCIDENTAL PERMIAN LP
5 E GREENWAY PLAZA #110
HOUSTON, TX 770460521

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ramona@lonquist.com

July 31, 2019

OIL CONSERVATION DIVISION DISTRICT II
811 S. FIRST ST
ARTESIA, NM 88210

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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AUSTIN
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July 31, 2019

OXY Y-1 COMPANY
PO BOX 27570
HOUSTON, TX 772277570

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ramona@lonquist.com

July 31, 2019

PETRO QUATRO LLC
428 SANDOVAL ST STE 200
SANTA FE, NM 875017312

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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July 31, 2019

RESOURCE DEVELOPMENT TECHNOLOGY LLC
PO BOX 1020
MORRISON, CO 804655020

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July 31, 2019

RICHARD YATES
105 S 4TH ST
ARTESIA, NM 88210

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July 31, 2019

RICHARD M YATES
428 SANDOVAL ST STE 200
SANTA FE, NM 875017312

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July 31, 2019

SANTO LEGADO LLC
PO BOX 1020
ARTESIA, NM 882111020

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ramona@lonquist.com

July 31, 2019

SHARBRO ENERGY LLC
PO BOX 840
ARTESIA, NM 882110840

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July 31, 2019

SHARBRO OIL LTD CO
PO BOX 840
ARTESIA, NM 88210

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July 31, 2019

THRU LINE OG NM LLC
201 MAIN ST #2700
FORT WORTH, TX 76102

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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July 31, 2019

TULIPAN LLC
428 SANDOVAL ST STE 200
SANTA FE, NM 875017312

Subject: Pluto Fed 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 Pluto Fed 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
Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

V-F PETROLEUM INC
PO BOX 1889
MIDLAND, TX 79702

Subject: Pluto Fed 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 Pluto Fed 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.

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Sr. Petroleum Engineer
Lonquist & Co., LLC

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ramona@lonquist.com

July 31, 2019

VLADIN LLC
PO BOX 100
ROSWELL, NM 882020100

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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Regards,



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Sr. Petroleum Engineer
Lonquist & Co., LLC

(512) 600-1777
ramona@lonquist.com

July 31, 2019

XTO HOLDINGS LLC
22777 SPRINGWOODS VILLAGE PKWY
SPRING, TX 773891425

Subject: Pluto Fed SWD No. 1 Authorization to Inject

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Regards,



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ramona@lonquist.com

July 31, 2019

YATES INDUSTRIES LLC
PO BOX 1091
ARTESIA, NM 88210

Subject: Pluto Fed SWD No. 1 Authorization to Inject

To Whom It May Concern:

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Regards,



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

(512) 600-1777
ramona@lonquist.com

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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4-BR RESOURCES INVESTMENTS II LLC
44A E BROAD OAKS
HOUSTON , TX 77056

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Chris Weyand
Longquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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Lorquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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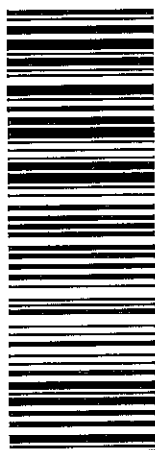


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10501 N CENTRAL EXPY #303
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Houston, TX 77002



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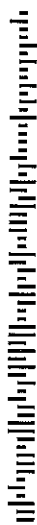
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6301 DEAUVILLE
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Houston, TX 77002



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DEVON ENERGY PROD CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5010

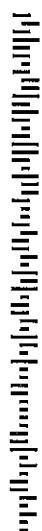
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Houston, TX 77002



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DEVON ENERGY PRODUCTION COMPANY, LP
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

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Lonquist & CO LLC
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Lonquist & CO LLC
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Ste 1650
Houston, TX 77002



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HAYES LAND & PRODUCTION LP
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Houston, TX 77002



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1801 McKinney Street
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HAYES PROPERTIES INC
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Houston, TX 77002



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LILLIE M YATES EST
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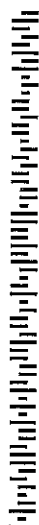
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Houston, TX 77002



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LONGHORN PARTNERS
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MARIGOLD LLP
PO BOX 1290
ARTESIA, NM 88211-1290

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Lonquist & CO LLC
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MARTIN YATES III ESTATE
105 S 4TH ST
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Ste 1650
Houston, TX 77002



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MEWBOURNE OIL CO
P.O. BOX 5270
HOBBBS, NM 88241

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Lonquist & CO LLC
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Ste 1650
Houston, TX 77002



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MULBERRY PTNRS II LLP A NM LLP
105 S FOUTH ST
ARTESIA, NM 88210-2177

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Longquist & CO LLC
1001 McKinney Street
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Houston, TX 77002



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OCCIDENTAL PERMANIP
5 E GREENWAY PLAZA #110
HOUSTON, TX 77046-0521

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OXY Y-1 COMPANY
PO BOX 27570
HOUSTON, TX 77227-7570

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Ste 1650
Houston, TX 77002



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PETRO QUATRO LLC
428 SANDOVAL ST STE 200
SANTA FE, NM 87501-7312

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Lounquist & CO LLC
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Ste 1650
Houston, TX 77002



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RESOURCE DEVELOPMENT
TECHNOLOGY LLC
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MORRISON, CO 80465-5020

Reference Number: 2126-PLUTO FED SWD #1

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Longquist & CO LLC
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Ste 1650
Houston, TX 77002



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REYNOLDS JOE J
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LUBBOCK, TX 79421

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Lougust & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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SANTO LEGADO LLC
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ARTESIA, NM 88221-1020

Reference Number: 2126-PLUTO FED SWD #1

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Longquist & CO LLC
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Houston, TX 77002



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SHARBRO ENERGY LLC
SHARBRO OIL LTD
PO BOX 840
ARTESIA, NM 88211-0840

Reference Number: 2126-PLUTO FPD SWD #1

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Lonquist & CO LLC
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Houston, TX 77002



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THRU LINE OG NM LLC
201 MAIN ST #2700
FORT WORTH, TX 76102

Reference Number: 2126-PLUTO FED SWD #1

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Longquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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TULIPAN LLC
RICHARD M YATES
428 SANDOVAL ST STE 200
SANTA FE, NM 87501-7312

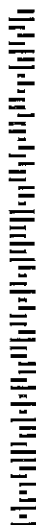
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Longquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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V-F PETROLEUM INC
PO BOX 1889
MIDLAND, TX 79702

Reference Number: 2126-PLUTO FED SWD #1

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Lorquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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VLADIN LLC
PO BOX 100
ROSWEEL, NM 88202-0100

Reference Number: 2126-PLUTO FED SWD #1

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Lougus & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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XTO HOLDINGS LLC
22777 SPRINGWOODS VILLAGE PKWY
SPRING, TX 77289-1425

Reference Number: 2126-PLUTO FED SWD #1

Chris Weyand
Longquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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YATES INDUSTRIES LLC
PO BOX 1091
ARTESIA, NM 88211-1091

Reference Number: 2126-PLUTO FED SWD #1

Chris Weyand
Lomquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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JOHN A JR, RICHARD & S P YATES
105 S 4TH ST
ARTESIA, NM 88210

Reference Number: 2126-PLUTO FED SWD #1

Chris Weyand
Lonquist & CO LLC
1001 McKinney Street
Ste 1650
Houston, TX 77002



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OIL CONSERVATION DISTRICT II
811 S FIRST STREET
ARTESIA, NM 88210

Reference Number: 2126-PLUTO FED SWD #1

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:  DATE: 7/31/2019
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: _____

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLCWELL NAME & NUMBER: Pluto Federal SWD No. 1WELL LOCATION: 1,184' FSL 313' FEL
FOOTAGE LOCATIONP
UNIT LETTER22
SECTION25S
TOWNSHIP31E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 18.125"Casing Size: 16.00"Cemented with: 875 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationIntermediate CasingHole Size: 14.750"Casing Size: 13.375"Cemented with: 1,040 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationProduction CasingHole Size: 12.250"Casing Size: 9.625"Cemented with: 2,735 sx.**or** _____ ft³Top of Cement: surfaceMethod Determined: circulationLinerHole Size: 8.500"Casing Size: 7.625"Cemented with: 555 sx.**or** _____ ft³Top of Cement: 11,337'Method Determined: calculationTotal Depth: 18,383'Injection Interval16,583 feet to 18,383 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' - 11,137' and 5", 18 lb/ft, HCL-80, LTC from 11,137'-16,533'

Lining Material: Duoline

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

Packer Setting Depth: 16,533'

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: 4,124'

Morrow: 14,588'

Cherry Canyon: 5,055'

Bone Spring: 8,018'

Wolfcamp: 11,437'

Strawn: 13,770'

Atoka: 13,952'

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 97869	Pool Name SWD; DEVONIAN-SILURIAN
Property Code	Property Name PLUTO FEDERAL SWD	Well Number 1
OGRID No. 371643	Operator Name SOLARIS WATER MIDSTREAM	Elevation 3339'

Surface Location

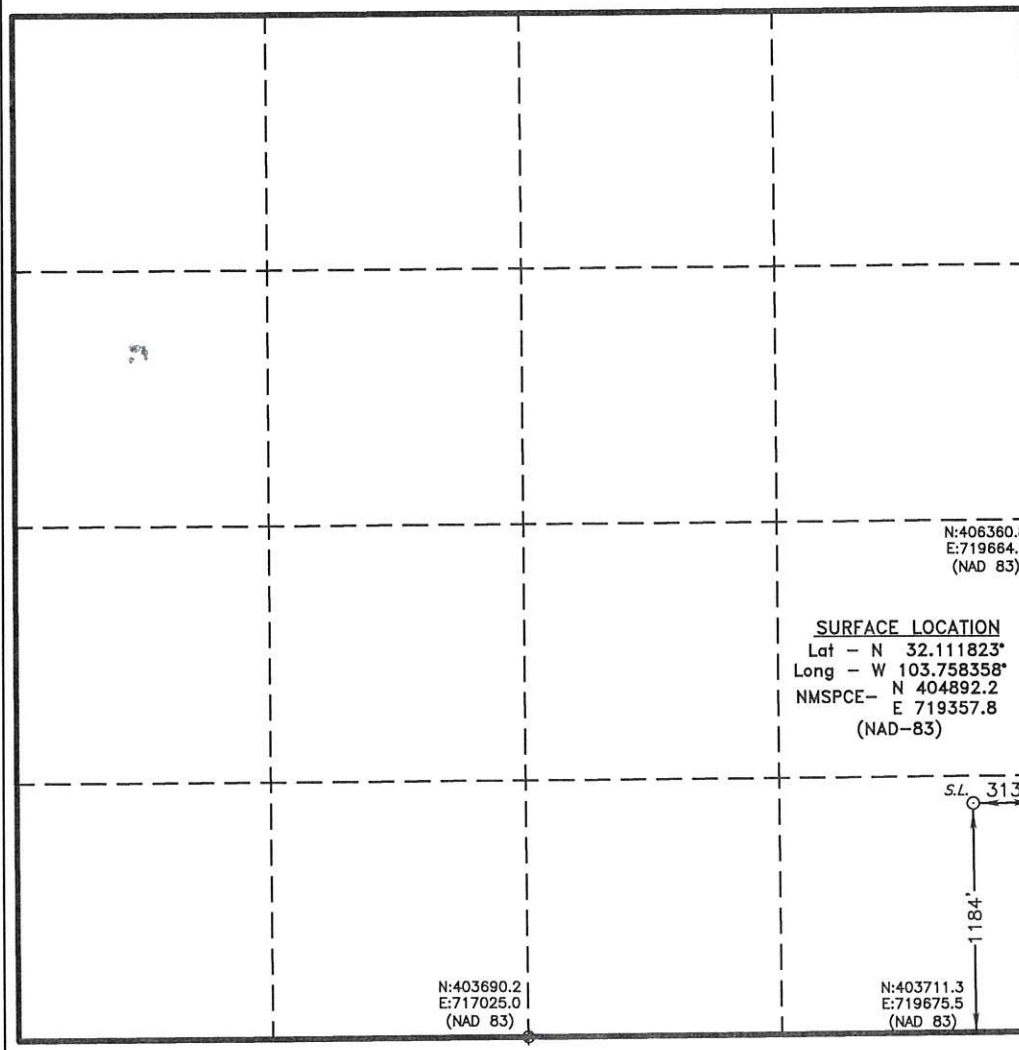
UL or lot No. P	Section 22	Township 25 S	Range 31 E	Lot Idn	Feet from the 1184	North/South line SOUTH	Feet from the 313	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

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

Dedicated Acres 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 7/31/19
Signature Date
Ramona K. Hovey
Printed Name
ramona@longquist.com
Email Address

SURVEYOR CERTIFICATION

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

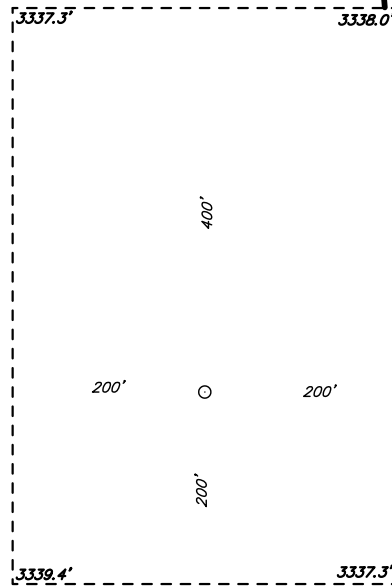
APRIL 17, 2019
Date Surveyed
GARY L. JONES
Signature & Seal of Professional Surveyor
Certificate No. 7977
Base Survey

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34502

**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**

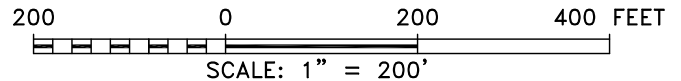
**PLUTO FEDERAL SWD #1
ELEV. - 3339'**

Lat - N 32.111823°
Long - W 103.758358°
NMSPCE- N 404892.2
E 719357.8
(NAD-83)



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF ORLA HWY AND BATTLE AXE ROAD, GO NORTHEAST ON ORLA HWY 2.5 MILES TO ROSS ROAD, THEN WEST ON ROSS ROAD TO LEASE ROAD FOR 4.8 MILES, THEN NORTH ON LEASE ROAD FOR 3.4 MILES, THEN WEST ON LEASE ROAD FOR 177 FEET TO PROPOSED LEASE ROAD.



SOLARIS WATER MIDSTREAM

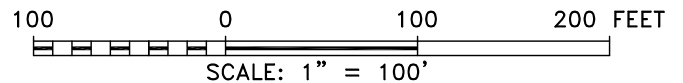
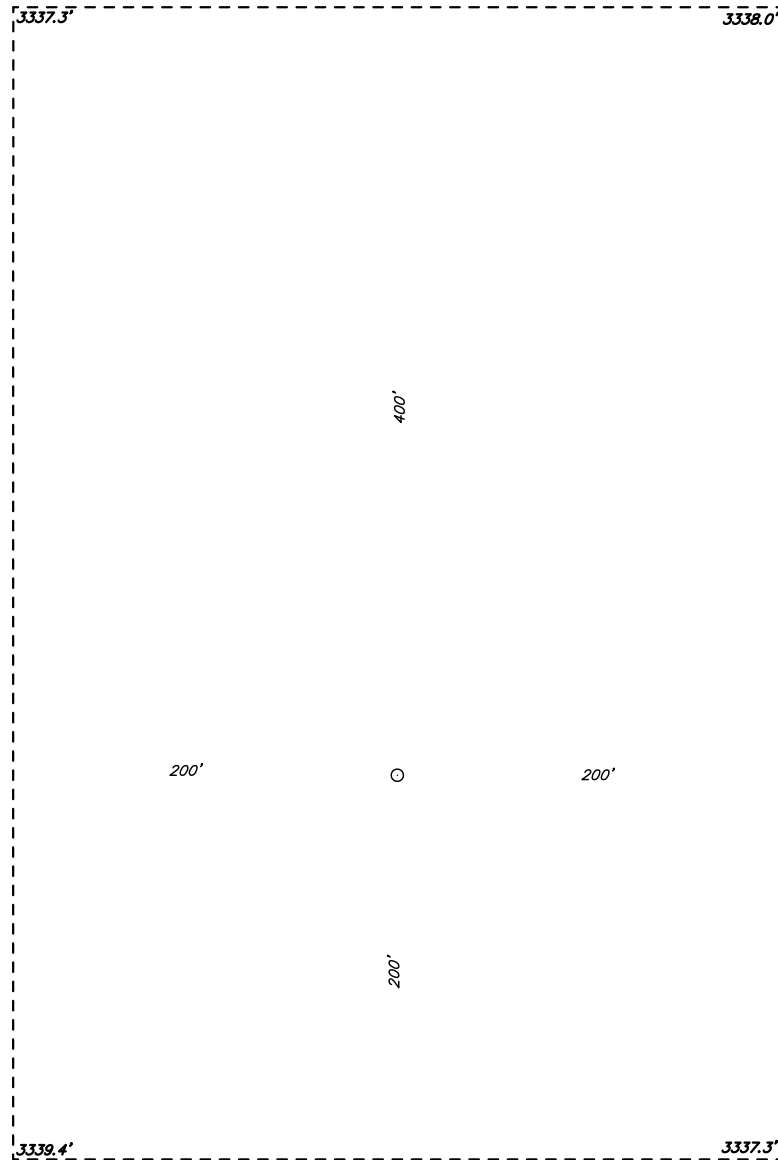
REF: PLUTO FEDERAL SWD #1 / WELL PAD TOPO

THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
THE SOUTH LINE AND 313' FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



SOLARIS WATER MIDSTREAM

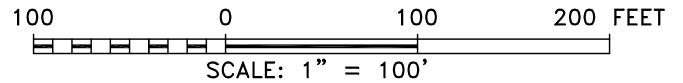
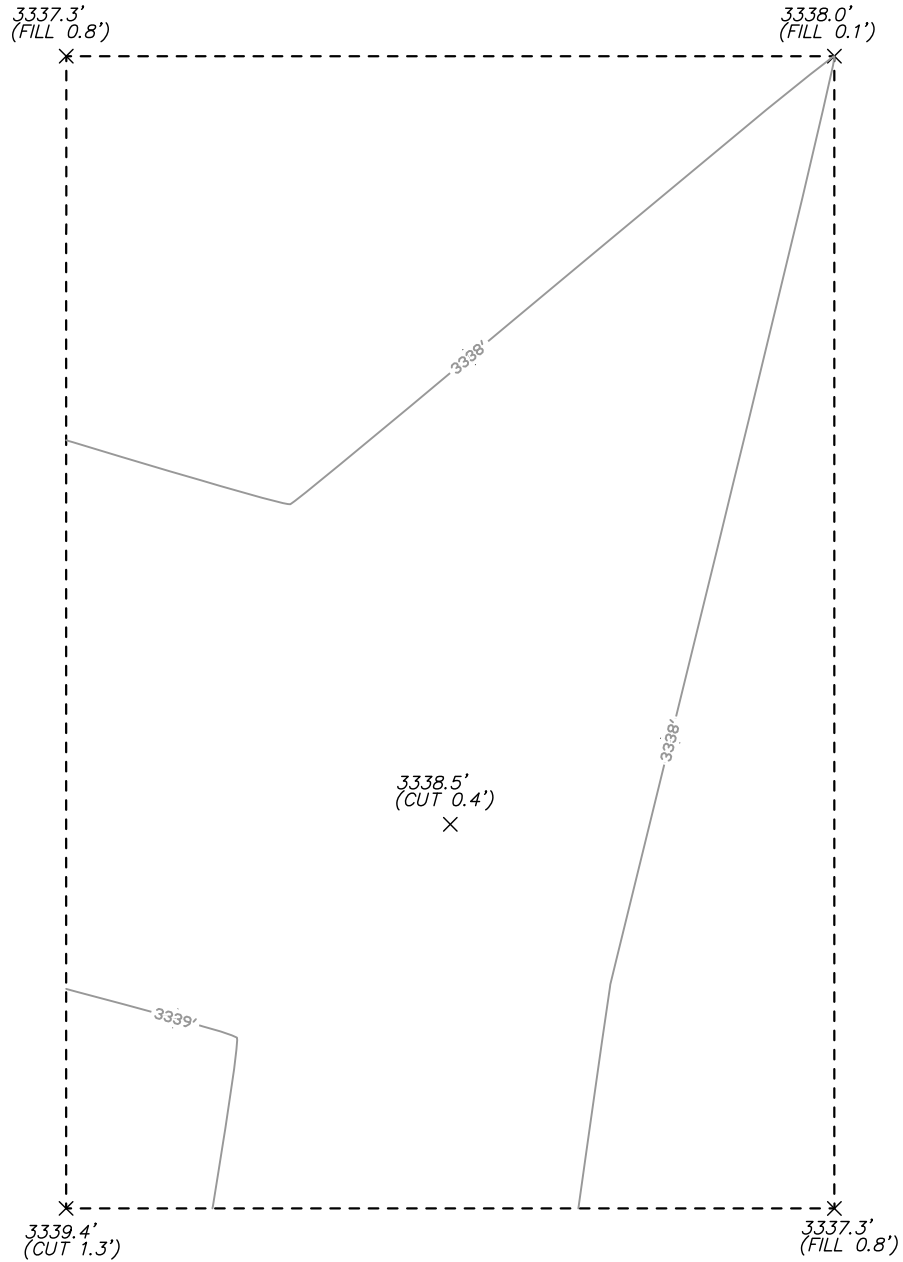
REF: PLUTO FEDERAL SWD #1 / WELL PAD TOPO

*THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
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**SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



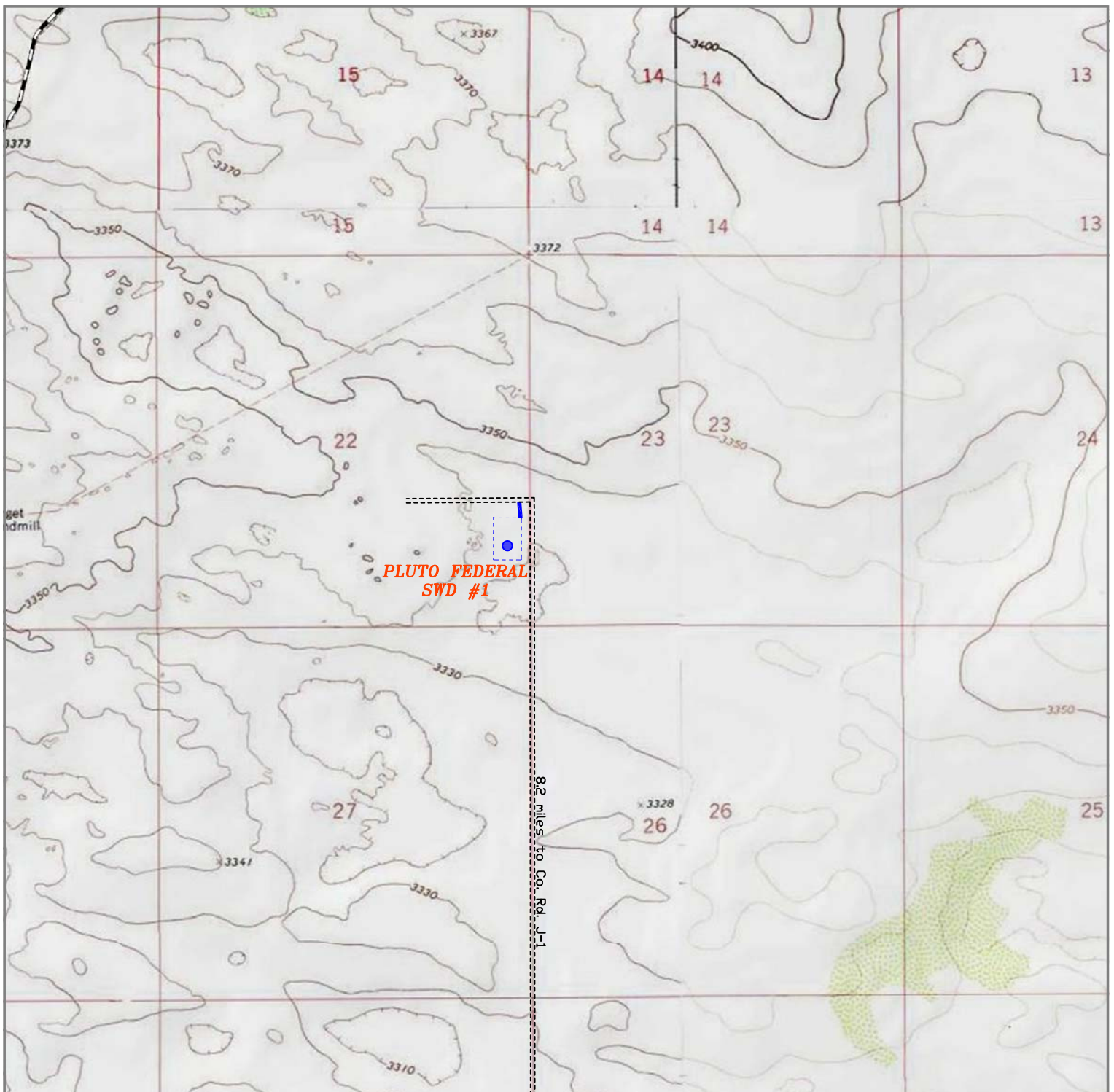
SOLARIS WATER MIDSTREAM

REF: PLUTO FEDERAL SWD #1 / CUT & FILL

THE PLUTO FEDERAL SWD #1 LOCATED 1184' FROM
THE SOUTH LINE AND 313' FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 25 SOUTH, RANGE 31 EAST
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
Section 22, Township 25 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



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1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

0' 1000' 2000' 3000' 4000'

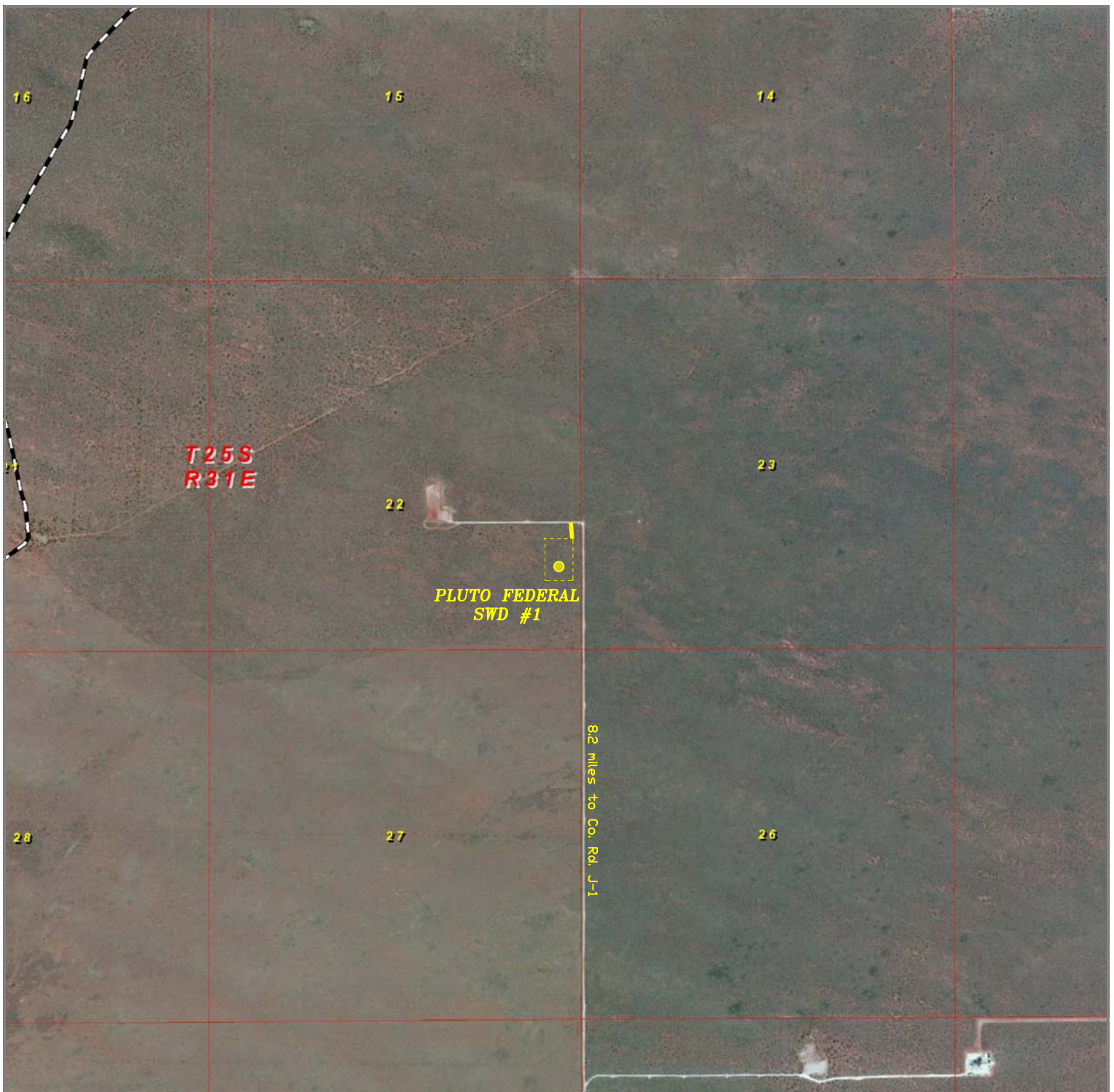
SCALE: 1" = 2000'

W.O. Number: KJG - 34502

Survey Date: 09-11-2018

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





PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
Section 22, Township 25 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
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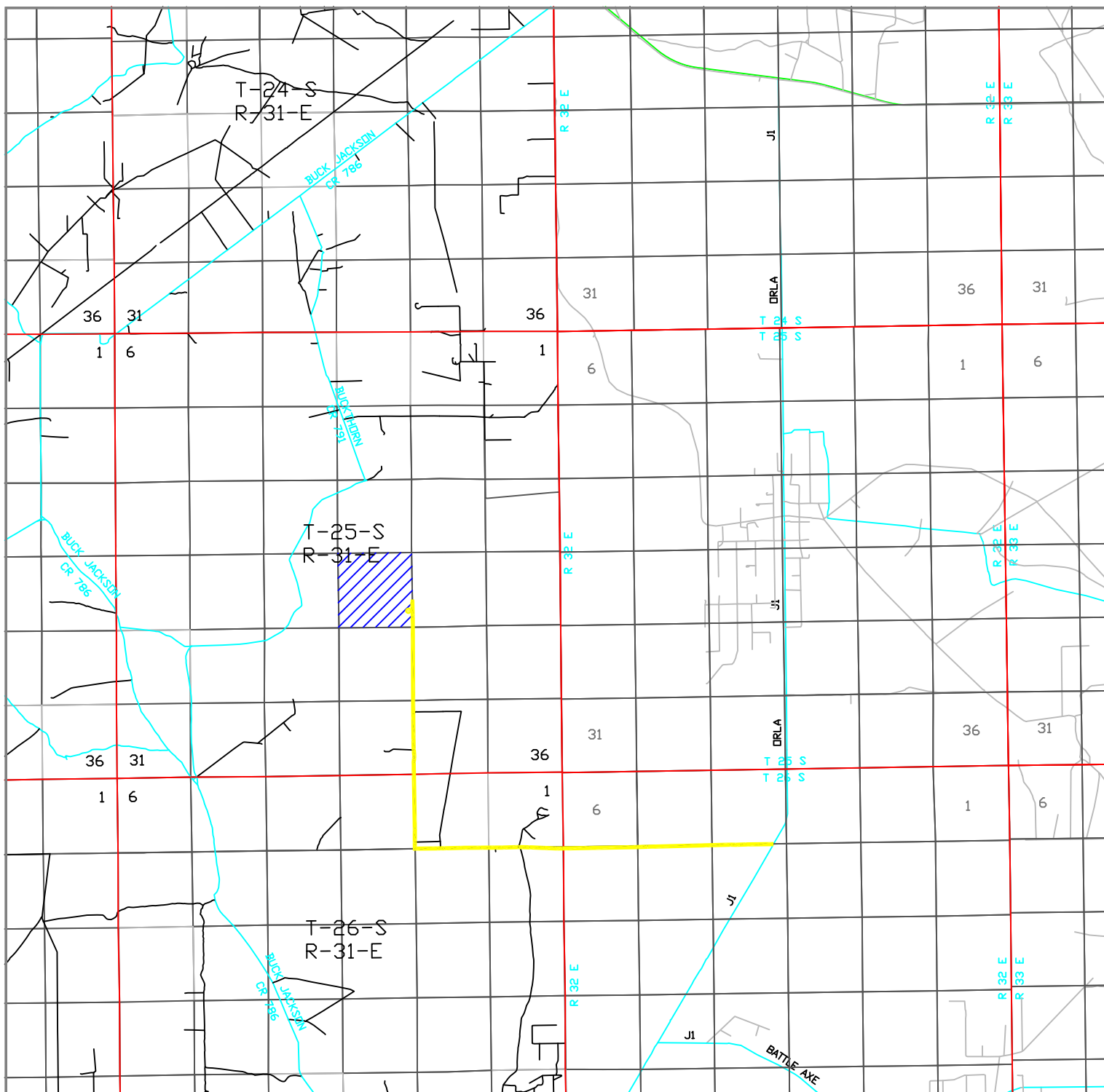
0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'

W.O. Number: KJG - 34502

Survey Date: 09-11-2018

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





PLUTO FEDERAL SWD #1

Located 1184' FSL & 313' FEL
 Section 22, Township 25 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.



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 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

W.O. Number: KJG 34502

Survey Date: 09-11-2018

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



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 SOLARIS WATER MIDSTREAM, LLC 701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706		² OGRID Number 371643 ³ API Number TBD
⁴ Property Code	⁵ Property Name PLUTO FEDERAL SWD	⁶ Well No. 1

7. Surface Location

UL - Lot P	Section 22	Township 25 S	Range 31 E	Lot Idn	Feet from 1,184	N/S Line S	Feet From 313	E/W Line E	County EDDY
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8. Proposed Bottom Hole Location

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

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

Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Federal	¹⁵ Ground Level Elevation 3339'
¹⁶ Multiple N	¹⁷ Proposed Depth 18,383'	¹⁸ Formation Devonian-Silurian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 300'		Distance from nearest fresh water well >1 mile		Distance to nearest surface water >1 mile

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

21. Proposed Casing and Cement Program

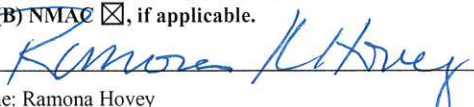
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	18.125"	16"	84 lb/ft	1,087'	875	Surface
Intermediate	14.75"	13.375"	68 lb/ft	4,123'	1,040	Surface
Production	12.25"	9.625"	53.5 lb/ft	11,537'	2,735	Surface
Liner	8.5"	7.625"	39 lb/ft	11,337' - 16,583'	555	11,337'
Tubing		5.5" & 5"	20 lb/ft & 18 lb/ft	0' - 11,137' & 11,137' - 16,583'	N/A	

Casing/Cement Program: Additional Comments

See attached schematic.

22. Proposed Blowout Prevention Program

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

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.
 Signature: 

Printed name: Ramona Hovey

Title: Consulting Engineer

E-mail Address: ramona@lonquist.com

Date: August 1, 2019

Phone: 512-600-1777

OIL CONSERVATION DIVISION

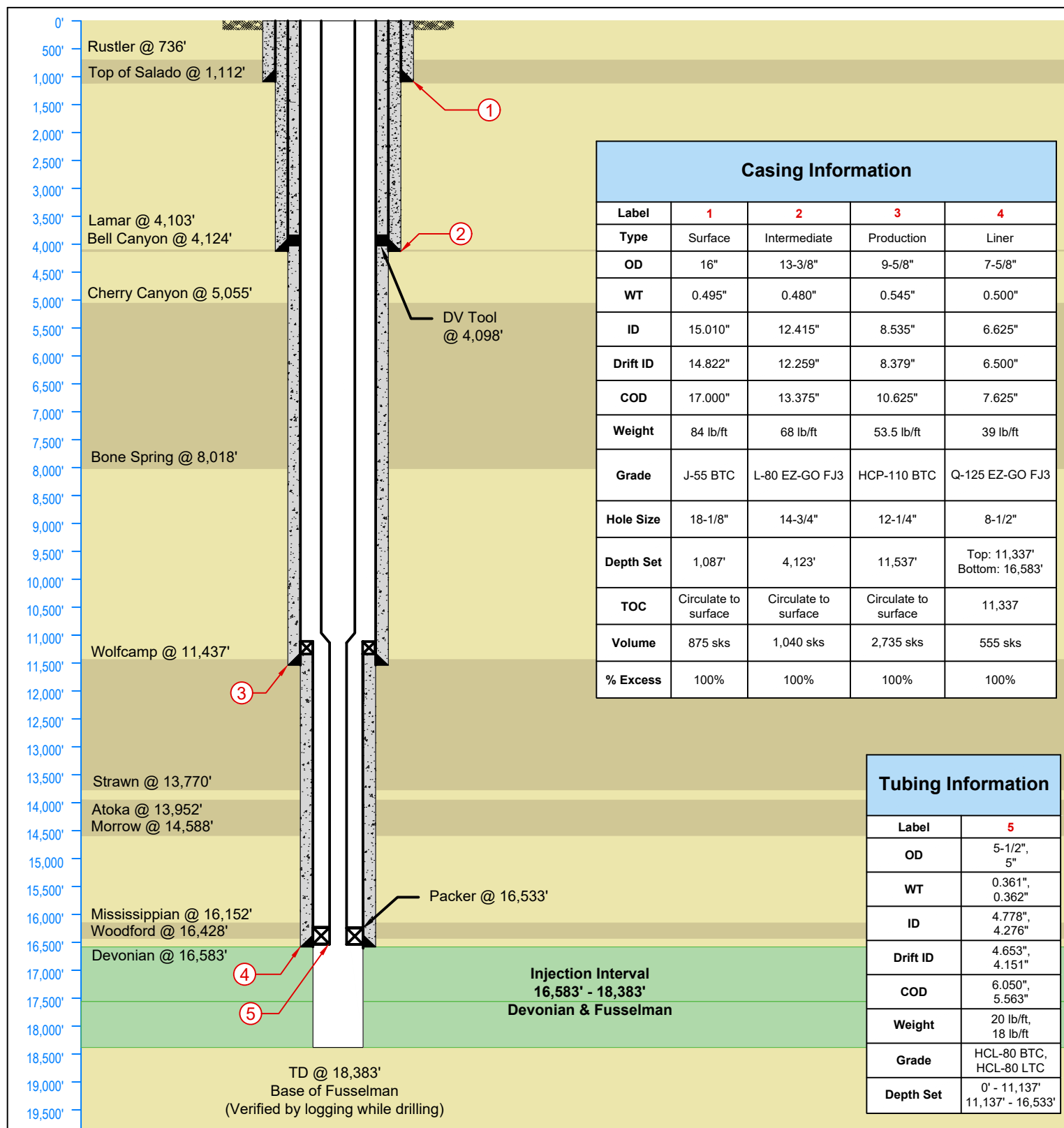
Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached



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		Pluto Federal SWD No. 1	
	Country: USA		State/Province: New Mexico	County/Parish: Eddy
	Location:		Site: 1,184' FSL & 313' FEL	Survey: S22-T25S-R31E
	API No: NA		Field: Devonian-Silurian (Code: 97869)	Well Type/Status: SWD
	NMOCD District No: 2		Project No: 2126	Date: 7/30/2019
	Drawn: TFM		Reviewed:	Approved:
	Rev No: 1		Notes:	

DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

Notices were sent for the Pluto Federal SWD No. 1 application by mailing them a copy of Form C-108 on 7/31/2019. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.

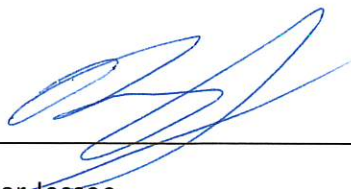


Tyler Moehlman
Petroleum Engineer

Project: Solaris Water Midstream, LLC
Pluto Federal SWD No. 1

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.



Parker Jessee
Geologist

Project: Solaris Water Midstream, LLC
Pluto Federal SWD No. 1



Solaris Water Midstream, LLC

Pluto Federal SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information	
Lease Name	Pluto Federal SWD
Well No.	1
Location	S-22 T-25S R-31E
Footage Location	1,184' FSL & 313' FEL

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	1,087'	4,123'	11,537'	11,337' – 16,583'

b. Cementing Program

Casing String	Surface	Intermediate	Production	Liner
Lead Cement	HALCEM™	HALCEM™	NEOCEM™	NEOCEM™
Lead Cement Volume (sacks)	562	726	Stage 1: 1,473 Stage 2: 380	-
Lead Cement Density (ft3/sack)	1.664	1.664	Stage 1: 2.731 Stage 2: 2.732	-
Tail Cement	HALCEM™	HALCEM™	NEOCEM™/HALCEM™	VERSACEM™
Tail Cement Volume (sacks)	313	314	Stage 1: 623 Stage 2: 259	555
Tail Cement Density (ft3/sack)	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	1.223
Cement Excess	100%	50%	200%, 100%	10%
Total Sacks	875	1,040	2,735	555
TOC	Surface	Surface	Surface	11,337'
Method	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' – 11,137' 11,137' – 16,583'

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: 16,583' – 18,383'

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	4,124'
Cherry Canyon	5,055'
Bone Spring	8,018'
Wolfcamp	11,437'
Strawn	13,770'
Atoka	13,952'
Morrow	14,588'

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: 2,487 PSI (surface pressure)
Maximum Injection Pressure: 3,317 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, and Delaware formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Avalon, Bone Spring, Delaware, Morrow, and Wolfcamp.
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 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	736'
Salado	1,112'
Lamar	4,103'
Bell Canyon	4,124'
Cherry Canyon	5,055'
Bone Spring	8,018'
Wolfcamp	11,437'
Strawn	13,770'
Atoka	13,952'
Morrow	14,588'
Mississippian_Lime	16,152'
Woodford	16,428'
Devonian	16,583'

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 600 feet and an average water depth of 300 feet generally producing from the Carlsbad Basin. The upper Rustler may also be another USDW and will be protected by isolating the Salado with surface casing at 1,087'.

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.