

AE Order Number Banner

Application Number: pEG2527242772

Initial Application Part I

SWD-2667

SOLARIS WATER MIDSTREAM, LLC [371643]

Received: 9/27/2025



September 26, 2025

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

Subject: Solaris Water Midstream, LLC
Application for Authorization to Inject
MD NM L2 S28 SWD #1

OCD Director,

Solaris Water Midstream, LLC (Solaris) is applying for administrative approval of the attached Application for Authorization to Inject (Form C-108) for their proposed MD NM L2 S28 SWD #1. The application is requesting authorization to dispose of saltwater from oil and gas production in the area via commercial disposal into the San Andres & Glorieta Formation in Lea County, NM.

Questions regarding this application or the included materials can be directed to Nate Alleman (Solaris Regulator Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

A handwritten signature in black ink that reads "Nathan Alleman".

Nate Alleman
Chief Regulatory Advisor
Ace Energy Advisors

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: Solaris Water Midstream **OGRID Number:** 371643
Well Name: MD NM L2 S28 SWD #1 **API:** 30-015-xxxxx
Pool: SWD; San Andres-Glorieta **Pool Code:** 96127

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

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

A. Location – Spacing Unit – Simultaneous Dedication

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

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

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

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

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

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

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

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

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

Nathan Alleman

Print or Type Name

09/26/2025

Date

918-237-0559

Phone Number

nate.alleman@aceadvisors.com

e-mail Address


Signature

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance ☒ _____ Disposal _____ Storage
Application qualifies for administrative approval? ☒ Yes _____ No
- II. OPERATOR: Solaris Water Midstream, LLC
ADDRESS: 907 Tradewinds Blvd, Midland, TX 79706
CONTACT PARTY: Ace Energy Advisors - Nate Alleman PHONE: (918) 237-0559
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes ☒ _____ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
NAME: Nate Alleman TITLE: Regulatory Consultant
SIGNATURE:  DATE: 09/26/2025
E-MAIL ADDRESS: nate.alleman@aceadvisors.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

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.**

Operator: Solaris Water Midstream, LLC (OGRID# 371643)

Lease/Well Name & Number: MD NM L2 S28 SWD #1

Legal Location: 355' FNL & 474' FEL - Unit A – Section 28 T19S R38E – Lea County

Coordinates: 32.63750164, -103.14646434

- (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.**

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	17-1/2	13-3/8	1,616	1,465	0	Circulation
Production	12-1/4	9-5/8	5,874	1,650	0	Circulation

A wellbore diagram is included in **Attachment 1**.

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

7" fiberglass-coated tubing set at 4,174'

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

Arrowset AS-1X Retrievable Packer (or equivalent) set at 4,174'

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.**

Injection Formation Name - San Andres & Glorietta

Pool Name - SWD; San Andres-Glorieta

Pool Code – 96127

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

Cased-hole injection between 4,274' - 5,874'

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

New drill for injection

- (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.**

None

- (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.**

- **Overlying**
 - Yates (2,881')
 - Seven Rivers (3,120')
- **Underlying**
 - Yeso/Paddock (6,076')
 - Abo (7,272')

V. AOR Maps

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.

The following figures are included in **Attachment 2**:

- 0.5-Mile and 2.0-Mile Well Map
- 0.5-Mile Well List
- 0.5-Mile and 2-Mile Lease Map
- 0.5-Mile Surface Ownership Map
- 0.5-Mile Mineral Ownership Map

VI. AOR List

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.

Details of the wells within the 0.5-mle AOR are included in **Attachment 2**. One well within the 0.5-mle AOR penetrates the top of the proposed injection zone.

VII. Operational Information

Attach data on the proposed operation, including:

- (1) Proposed average and maximum daily rate and volume of fluids to be injected;**

Maximum: 25,000 bpd
Average: 15,000 bpd

- (2) Whether the system is open or closed;**

The system will be closed.

- (3) Proposed average and maximum injection pressure;**

Maximum: 854 psi (surface)
Average: approx. 600 psi (surface)

- (4) Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water;**

It is anticipated that produced water from Bone Spring & Wolfcamp production wells in the area will be injected into the proposed SWD. Therefore, water analysis from these formations was obtained and is included in **Attachment 3**.

- (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.).**

The proposed injection interval for this SWD is the San Andres & Glorieta formation, which is a non-productive zone known to be compatible with formation water from the Bone Spring & Wolfcamp formations. Water analyses of samples collected from the proposed injection formation in the area were obtained and are included in **Attachment 4**.

VIII. Geologic Description

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.

The proposed injection interval between depths of 4,274 and 5,874 feet below ground level will span the San Andres Formation and the Glorieta Member of the Yeso Formation. The San Andres consists of cyclically interbedded carbonates (limestone and dolomite), with variable minor proportions of anhydrite. The Glorieta consists of siliciclastics (sandstone and siltstone) intercalated with carbonates. Locally, near the subject well, the carbonates are dolomitic based on density porosity and photoelectric log responses.

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, has been determined to occur at the top of the Rustler Formation, at a depth of 1,591 feet below ground level. The total thickness separating the lowermost USDW and the upper injection interval is anticipated to be approximately 2,683 feet.

Upper confinement is provided by the overlying Artesia Group. At the subject well, the Artesia Group is expected to be 1,542 feet thick. In the project area, the Queen Formation will be a strong barrier to flow as it is approximately 578 feet thick with overall low (<2%) neutron porosity. Examination of local logs indicates the Queen Formation is a dolomite with anhydrite, based on the suppressed density porosity (negative DPHI on a limestone matrix), elevated bulk density (2.6 to 2.98 g/cc), and elevated photoelectric response (>4 b/e).

The injection interval is further isolated from the overlying USDW by the Ochoan evaporite formations of the Salado and Rustler. In aggregate, the Ochoan evaporites, composed primarily of halite and anhydrite, are expected to be approximately 1,142 feet thick.

Lower confinement will be ensured by multiple 50- to 100-foot-thick packages of low-porosity and high-resistivity dolomite in the upper portion of the Yeso Formation (underlying the Glorieta and overlying the Tubb Sand).

All stated depths and thicknesses are estimates, derived from mapping, utilizing offset logs that have penetrated the San Andres and Glorieta. If conditions allow a full set of open-hole wireline logs will be collected from the subject well, including, but not limited to, gamma-ray, resistivity, and neutron-density porosity.

The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,591'. Water wells in the area for domestic/livestock use are drilled to a depth of approximately 42' - 136'.

IX. Proposed Stimulation Program

Describe the proposed stimulation program, if any.

A minor acid job utilizing 15-20% hydrochloric acid may be used to cleanup the wellbore.

X. Logging and Test Data

Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

Logs will be run and submitted to the Division once the well is completed.

XI. Groundwater Wells

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.

Based on data obtained from the New Mexico Office of the State Engineer (OSE), a total of 92 groundwater wells are located within 1 mile of the proposed SWD location. Two wells were sampled and the resulting analyses are attached.

Attachment 5 includes a table with details of the water wells within 1-mile, a water well map and the results of the analyses.

XII. No Hydrologic Connection Statement

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.

A geologic review conducted on offset wireline log data and published regional studies did not identify any faulting in the vicinity of the proposed locations that would allow for the hydraulic communication between the injection interval and overlying USDWs. The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, was determined to occur at the top of the Rustler formation at a depth of 1,591'.

Attachment 6 includes a signed statement.

XIII. Proof of Notice

Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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.

A copy of the application was mailed to the Affected Persons, including the OCD District Office, surface owner, leasehold operators within the AOR, and BLM/SLO if they own minerals within the AOR. **Attachment 7** includes a list of the Affected Persons receiving notice of the application and the associated certified mailing receipts (green sheets).

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.

A Public Notice was published in the Hobbs NewsSun, a newspaper of general circulation in the area, and the associated affidavit is included in **Attachment 7**.

Attachment 1

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		C-102	
			Revised July 9, 2024 Submit Electronically via OCD Permitting	
			Submittal Type:	<input type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	96127	Pool Name	SWD; San Andres-Glorieta		
Property Code	Property Name	MD NM L2 S28 SWD		Well Number	#1	
OGRID No.	371643	Operator Name	SOLARIS WATER MIDSTREAM, LLC.		Ground Level Elevation	3586'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal			Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal			

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	19-S	38-E		355 FNL	474 FEL	32.63750164 ° N	103.14646434 ° W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)


UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.


Signature Date 02-10-2025


Nathan Alleman

Printed Name
nate.alleman@aceadvisors.com

Email Address

SURVEYOR CERTIFICATIONS

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.


Signature and Seal of Professional Surveyor

Certificate Number

29786

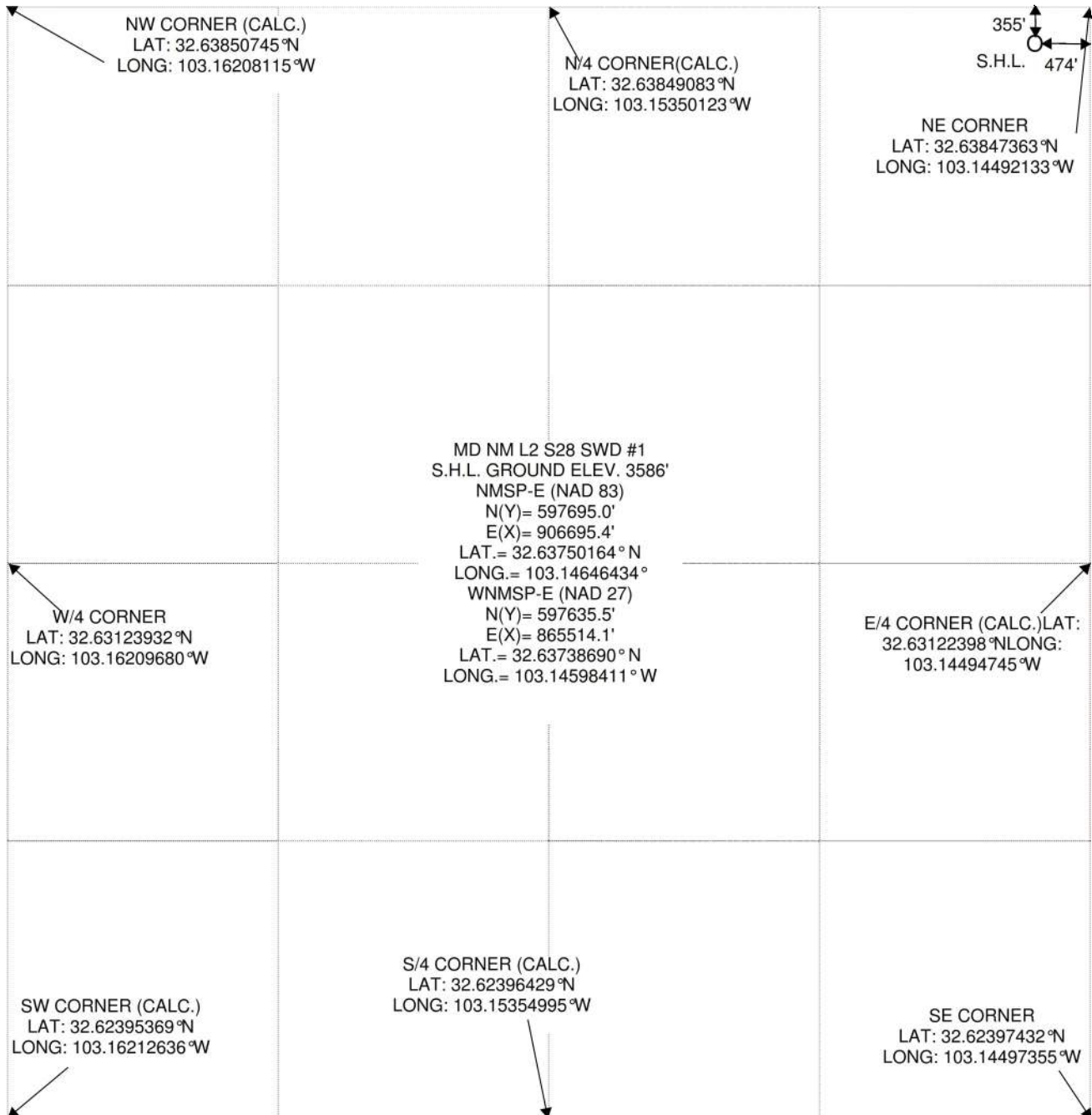
Date of Survey

6-27-2024, Revised 8-20-2024

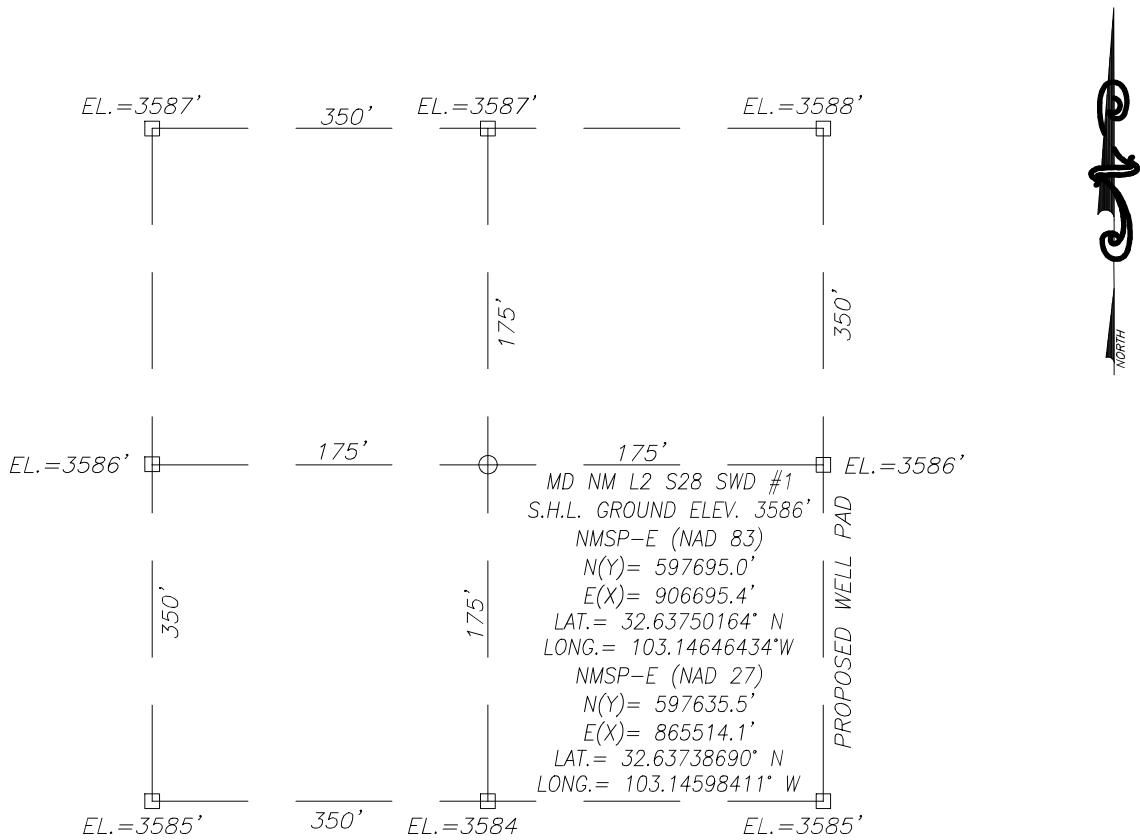
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



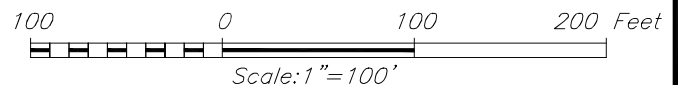
SECTION 28, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION:

BEGINNING IN HOBBS, NEW MEXICO AT THE INTERSECTION OF HWY. 62/180 AND STATE HWY. 18, HEAD SOUTH ON STATE HWY. 18 ±4.0 MILES. TURN RIGHT AND HEAD WEST ON COUNTY ROAD 42 ±1.1 MILES. THE WELL STAKED LOCATION FLAG IS SOUTH ±370 FEET.

ELEVATIONS SHOWN WERE DERIVED FROM STATIC GPS AND ARE IN N.A.V.D. 1988 DATUM.



DOWNTOWN DESIGN SERVICES, INC.
16 EAST 16th STREET, SUITE 400
TULSA, OK 74119
Tel: 918-592-3374 Fax: 918-221-3940
www.ddsiglobal.com

SOLARIS WATER MIDSTREAM, LLC.

MD NM L2 S28 SWD #1
LOCATED 355 FEET FROM THE NORTH LINE
AND 474 FEET FROM THE EAST LINE OF SECTION 28,
TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

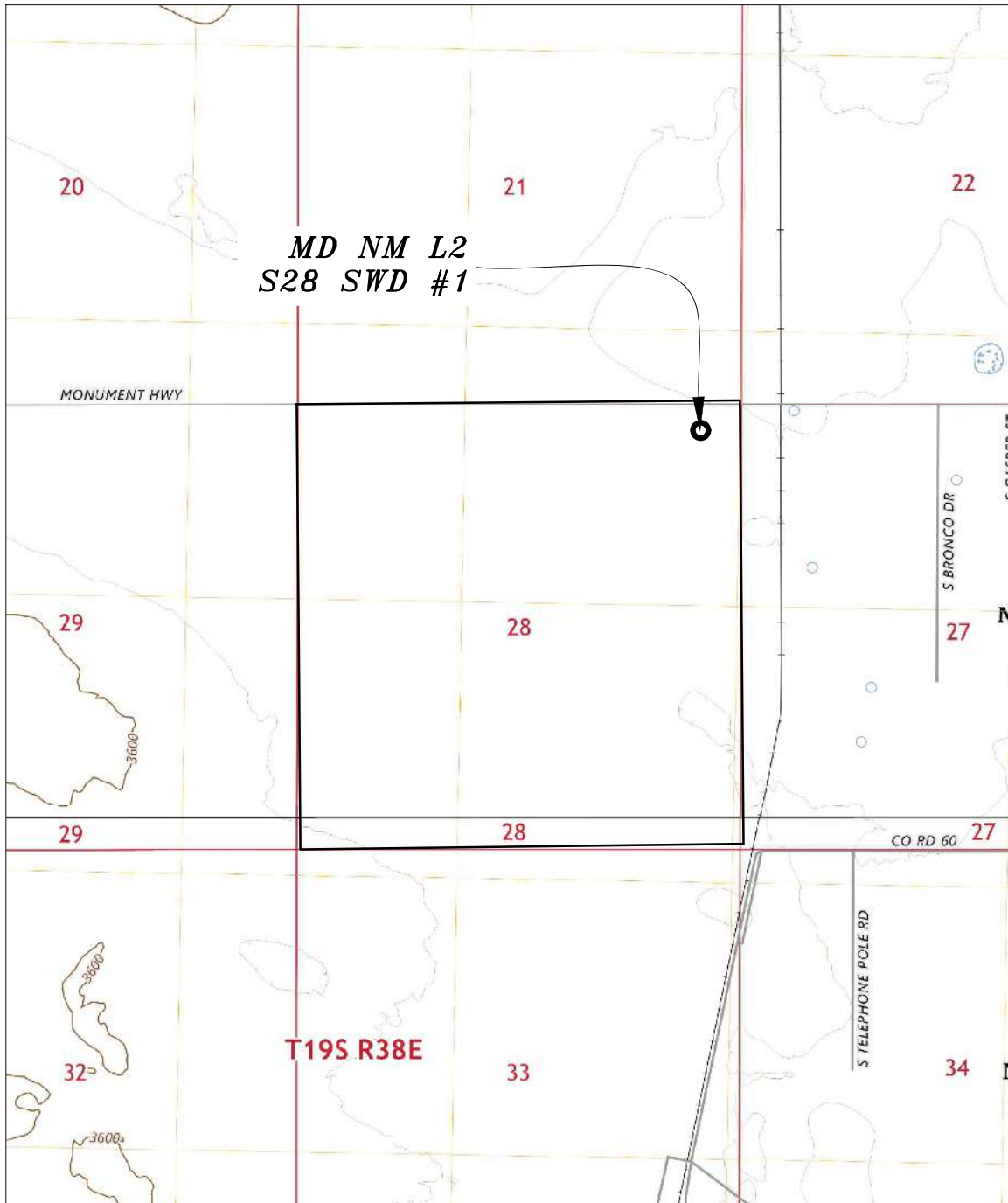
SURVEY DATE: JUNE 27, 2024 PAGE: 1 OF 1

DRAFTING DATE: JUNE 28, 2024

APPROVED BY: CEC DRAWN BY: LDT

FILE: MD NM L2 S28 SWD #1

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 28 TWP. 19-S RGE. 38-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 355' F.N.L. & 474' F.E.L.
 N.A.V.D. 88 ELEVATION 3586'
 OPERATOR SOLARIS WATER MIDSTREAM, LLC.
 LEASE MD NM L2 S28 SWD #1
 U.S.G.S. TOPOGRAPHIC MAP
 LEA, N.M.

ELEVATIONS SHOWN WERE DERIVED FROM
 STATIC GPS AND ARE IN N.A.V.D 1988 DATUM.

SOLARIS WATER MIDSTREAM, LLC.

SURVEY DATE: JUNE 27, 2024	PAGE: 1 OF 1
DRAFTING DATE: JUNE 28, 2024	
APPROVED BY: CEC	DRAWN BY: LDT
FILE: MD NM L2 S28 SWD#1	

VICINITY MAP



SEC. 28 TWP. 19-S RGE. 38-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 355' F.N.L. & 474' F.E.L.
 N.A.V.D. 88 ELEVATION 3,586'
 OPERATOR SOLARIS WATER MIDSTREAM, LLC.
 LEASE MD NM L2 S28 SWD #1
 U.S.G.S. TOPOGRAPHIC MAP
LEA, N.M.

SCALE: 1" = 2000'

ELEVATIONS SHOWN WERE DERIVED FROM
 STATIC GPS AND ARE IN N.A.V.D 1988 DATUM.

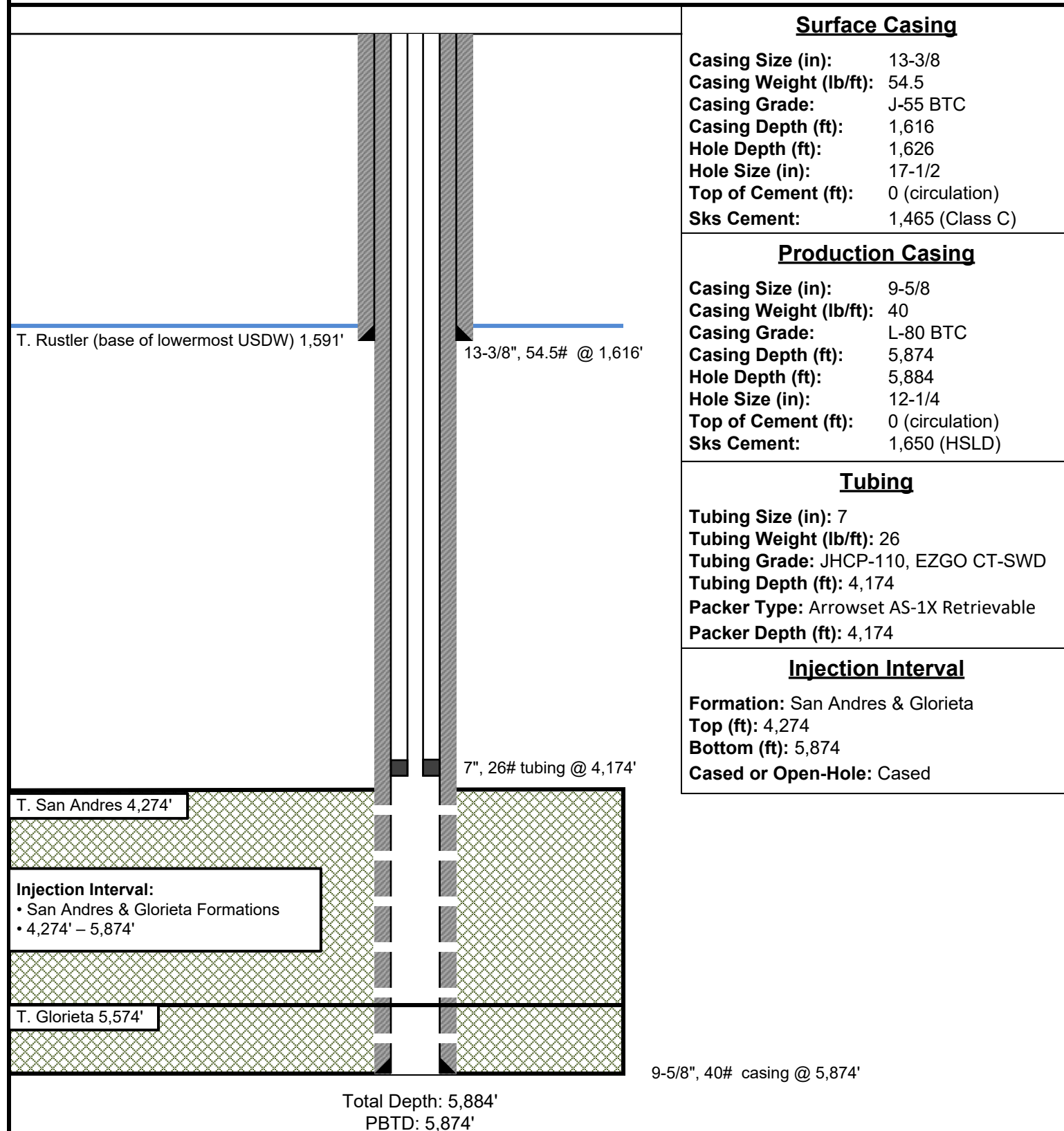
SOLARIS WATER MIDSTREAM, LLC.

SURVEY DATE: JUNE 27, 2024	PAGE: 1 OF 1
DRAFTING DATE: JUNE 28, 2024	
APPROVED BY: CEC	DRAWN BY: LDT
FILE: MD NM L2 S28 SWD#1	

Solaris Water Midstream, LLC

MD NM L2 S28 SWD #1

Wellbore Diagram



Note: Listed depths and cement volumes are approximates based on available information.

NOT TO SCALE

**Weatherford®**

Packer Systems

Arrowset I-X, I-X 10K, and I-X HP Mechanical Packers

Weatherford's Arrowset I-X, I-X 10K, and I-X HP mechanical packers are versatile, field-proven retrievable double-grip packers for most production, stimulation, and injection. The packers can be set with tension or compression.

A large internal bypass reduces the swabbing effect during run-in and retrieval and closes securely when the packer is set. During release, the bypass is opened to equalize the pressure before the upper slips are released. A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips.

The I-X 10K packer has all the features of the I-X packer and can withstand 10,000 psi (69 MPa) of differential pressure above or below. The I-X HP packer can withstand 7,500 psi (52 MPa) of differential pressure above or below.

Applications

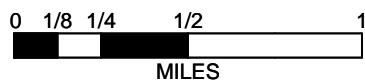
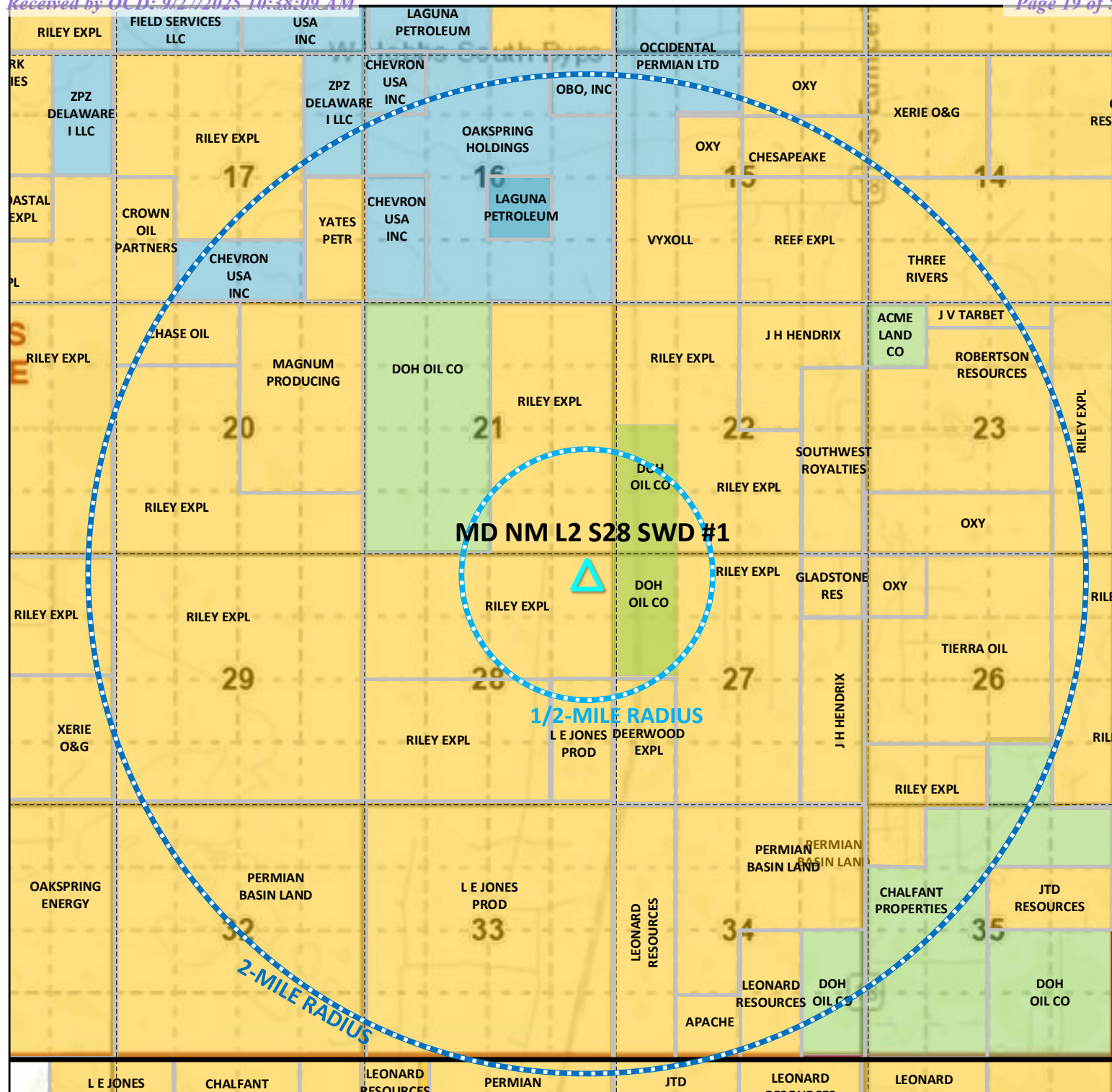
- Production
- Pumping
- Injection
- Fiberglass tubing
- Zonal isolation

Features, Advantages and Benefits

- The design holds high differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression, tension, or wireline, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The full opening enables unrestricted flow and the passage of wireline tools and other packer systems.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.



Attachment 2








PREPARED BY:

ACE 
Energy Advisors

NATE.ALLEMAN@ACEADVISORS.COM
918.237.0559

DATA SOURCES: NMOCD, BLM, SLO, ENVERUS

LEGEND

-  PRIVATE MINERAL LEASE
-  FEDERAL (BLM) MINERAL LEASE
-  STATE (SLO) MINERAL LEASE
-  2-MILE RADIUS
-  1/2-MILE RADIUS
-  PROPOSED SWD

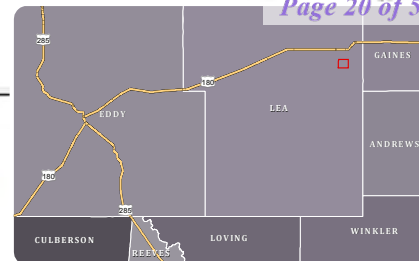
LEASEHOLDER MAP**MD NM L2 S28 SWD #1**






SECTION 28 T19S R38E

PREPARED FOR:
SOLARIS WATER MIDSTREAM, LLC



SECTION 28, TOWNSHIP 19 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO



-  Proposed SWD
-  1/2 Mile Buffer
-  Subsurface minerals (NMSLO)
-  All minerals are owned by U.S. (BLM)
-  Private minerals

OPERATOR:
SOLARIS WATER MIDSTREAM, LLC.



Map Prepared By:



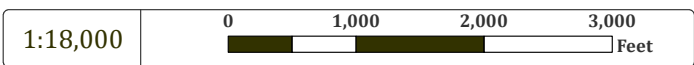
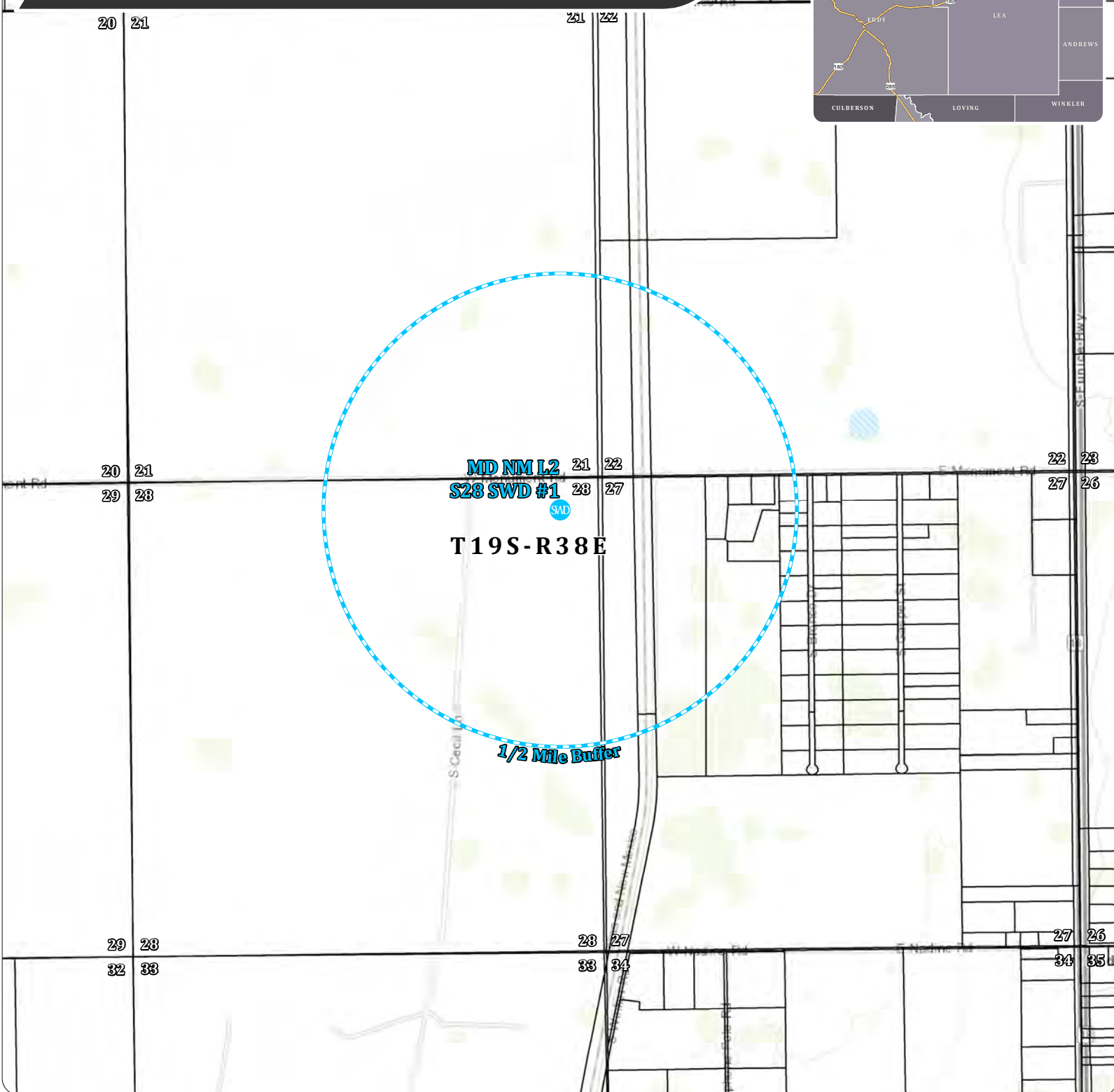
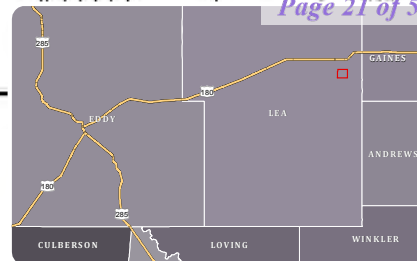
(432) 631-4738
info@coosaconsulting.com

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US



SURFACE OWNERSHIP MAP

SECTION 28, TOWNSHIP 19 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO



Project Managed By:

(918) 237-0559
nate.alleman@aceadvisors.com

Map Prepared By:

(432) 631-4738
info@coosaconsulting.com

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Projection: Transverse Mercator
Datum: North American 1983
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False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
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Units: Foot US

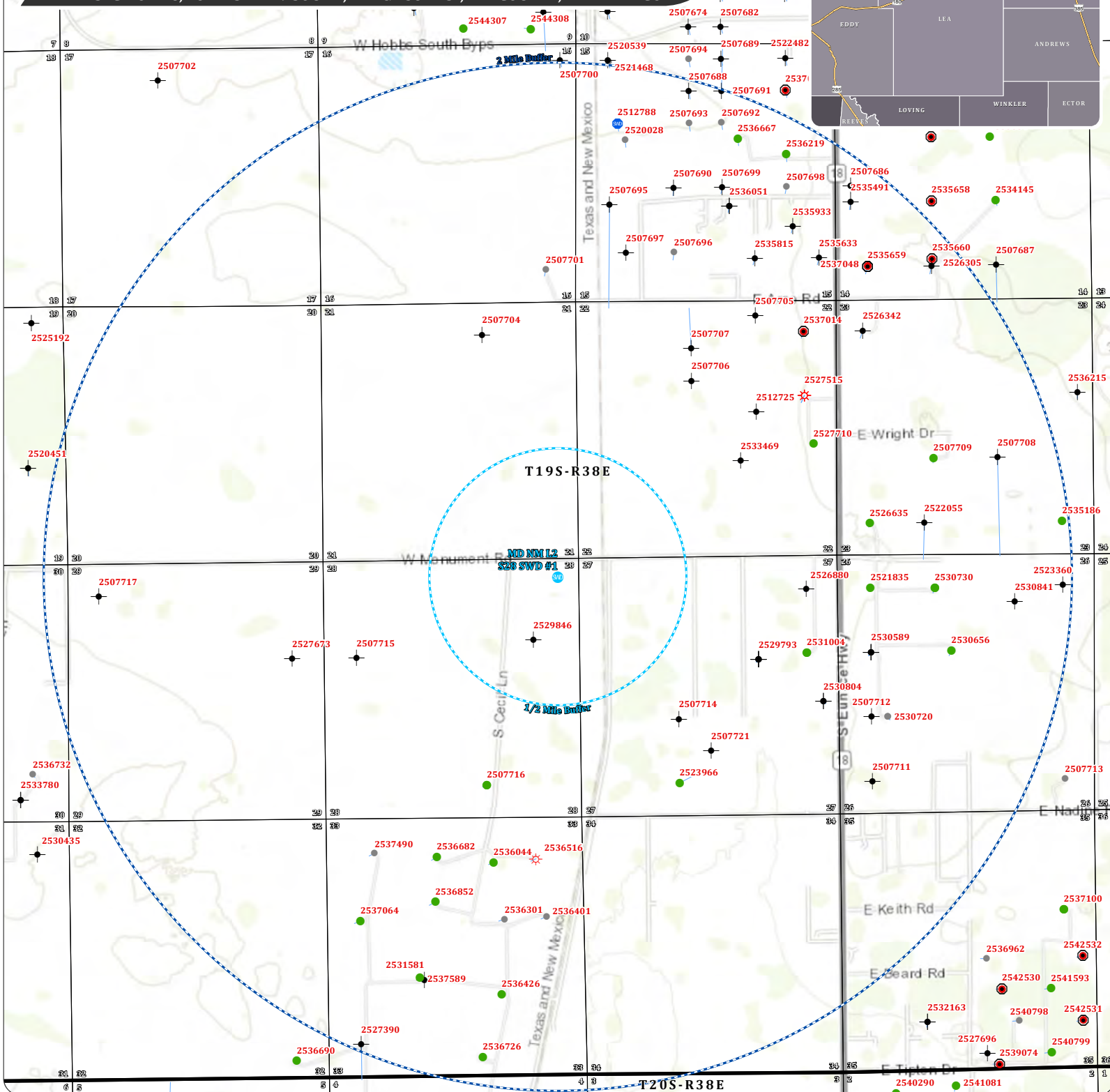
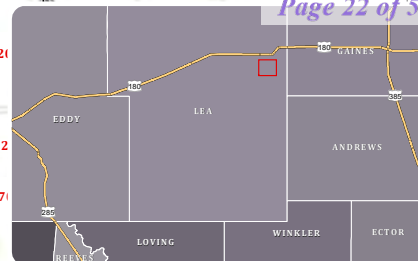
Legend

- Proposed SWD
- 1/2 Mile Buffer
- Federal Land
- State of NM Land
- Private Land

MD NM L2 S28 SWD #1

OPERATOR:
SOLARIS WATER MIDSTREAM, LLC.

SECTION 28, TOWNSHIP 19 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO



Proposed SWD
1/2 Well Buffer
2 Mile Buffer

MD NM L2 S28 SWD #1

OPERATOR:
SOLARIS WATER MIDSTREAM, LLC.



Map Prepared By:

 **COOSA**
CONSULTING

(432) 631-4738
info@coosaconsulting.com

Coordinate System:
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Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US



0.5-mile Well List (Top of Injection Interval: 4,274')

Well Name	API#	Well Type	Operator	Status	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
PRE-ONGARD WELL #001	30-025-29846	Oil	PRE-ONGARD WELL OPERATOR	Plugged	2/13/1987	H-28-19S-38E	7,600	Yes

Notes:

- One plugged well penetrates the injection interval within the AOR.
- ** Operator of active, drilled well within AOR and will receive notification of this application.

Horizontal Well w/ Surface Location Outside the 0.5-mile AOR

Well Name	API#	Well Type	Operator	Field	Status	Depth
N/A						

Notes:

- No drilled, active horizontal wellbores intersect the AOR radius.
- ** Operator of active, drilled well within AOR and will receive notification of this application.

Penetrating Well Casing and Cement Details

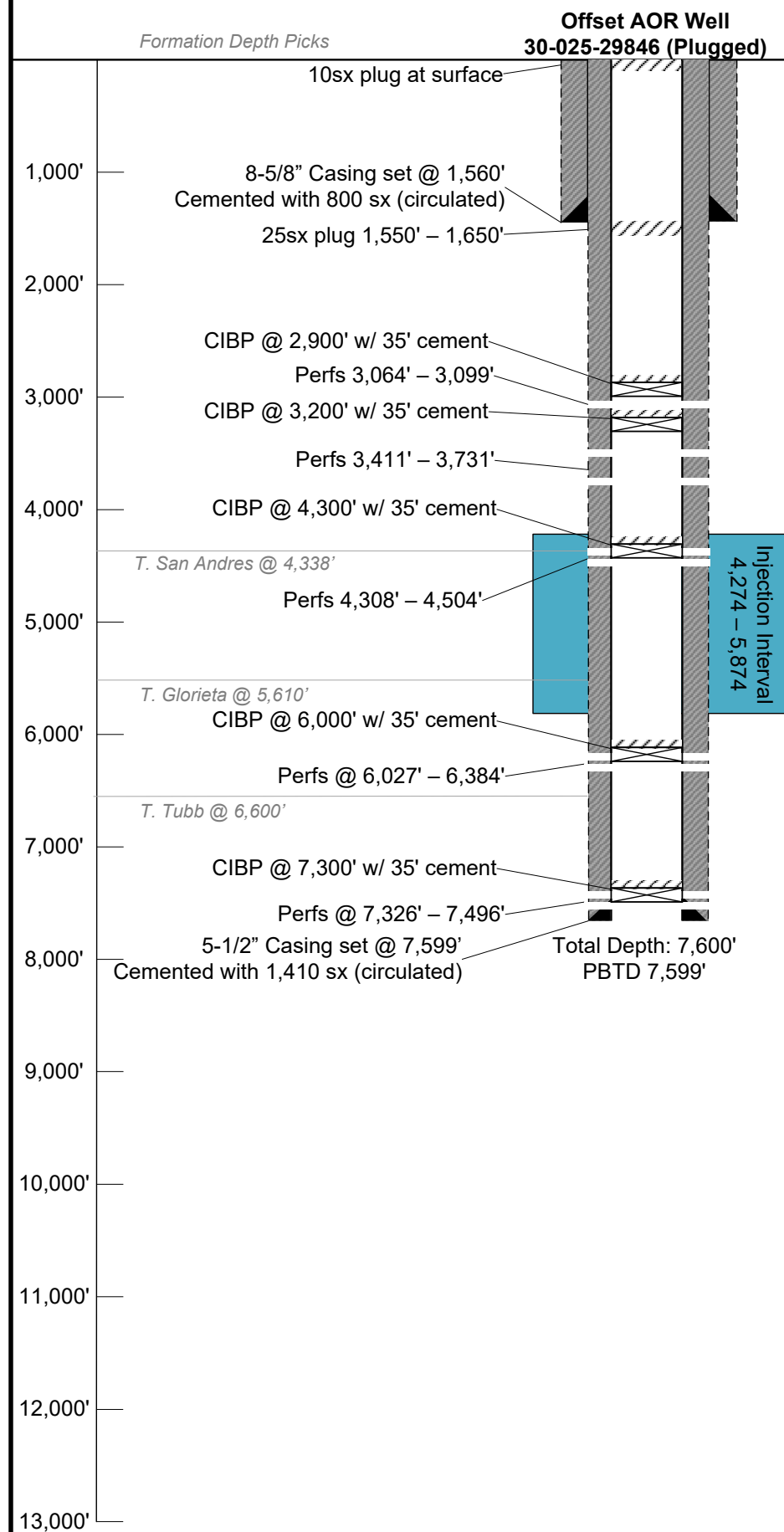
API#	Type	Hole	Size	Depth	Sacks	TOC	Method	Problem
30-025-29846	Surface	12-1/2"	8-5/8"	1,560'	800	Surface	Circulation	No
	Production	7-7/8"	5-1/2"	7,599'	1,410	Surface	Circulation	

Plugged Penetrating Wells

API#	Perfs	Casing Pulled	Plugs
30-025-29846	3064' - 3099' 3411' - 3731' 4308' - 4504' 6027' - 6384' 7326' - 7496'	None	CIBP @ 7300'. Cap w/ 35' cement
			CIBP @ 6000'. Cap w/ 35' cement
			CIBP @ 4300'. Cap w/ 35' cement
			CIBP @ 3200'. Cap w/ 35' cement
			CIBP @ 2900'. Cap w/ 35' cement
			25 sx plug 1550' - 1650'
			10 sx plug at surface

AOR Wellbore Diagram (30-025-29846)

Injection Interval: San Andres & Glorieta @ 4,274' – 5,874'



Note: Listed depths and cement volumes are
approximates based on available information.

NOT TO SCALE

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NEW MEXICO OIL CONSERVATION COMMISSION

30-025-29846Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Crown Central Petroleum Corporation	8. Farm or Lease Name Oriole
3. Address of Operator 4000 N. Big Spring, Suite 213, Midland, TX 79705	9. Well No. 1
4. Location of Well UNIT LETTER <u>H</u> , <u>1650</u> FEET FROM THE <u>North</u> LINE AND <u>990'</u> FEET FROM THE <u>East</u> LINE, SECTION <u>28</u> TOWNSHIP <u>19-S</u> RANGE <u>38-E</u> NMPM.	10. Field and Pool, or Wildcat Nadine (Drinkard-Abo)
15. Elevation (Show whether DF, RT, GR, etc.) 3583.7 GR	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☒
CASING TEST AND CEMENT JOB ☒
OTHER ☐
ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-13-87 Spud well at 11:30 P.M. - 2-13-87

2-16-87 T.D. 1560'. Run 8-5/8" csg. to 1560'. Cement with 600 sacks Western Lite with 3% salt. Tail in with 200 sack Class "C". Circ. 280 sks. to surface. Bump plug with 900 psig.

2-17-87 Drill out float collar and test casing to 1000# for 15 min.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED L.R. Belden L.R. Belden TITLE Petroleum Engineer DATE 2-17-87

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE FEB 20 1987

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NEW MEXICO OIL CONSERVATION COMMISSION

30-025-29846

Form C-103
Supersedes Old
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5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

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USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

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2. Name of Operator Crown Central Petroleum Corporation	8. Farm or Lease Name Oriole
3. Address of Operator 4000 N. Big Spring, Suite 213, Midland, TX 79705	9. Well No. 1
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15. Elevation (Show whether DF, RT, GR, etc.) 3583.7 GR	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING TEST AND CEMENT JOB ☒OTHER ☐ALTERING CASING ☐PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

3-6-87 Drill to TD 7600'. Run logs.

3-7-87 Run 7600' 5-1/2" casing 17# and 15.50# set at 7599'. Cement with 990 sacks
Pacesetter Lite tail in with 420 sacks 50:50 Poz mix. Circ. 13 sacks cement
to surface. Bump plug with 3000#. Check plug. Plug held. Released pressure.

3-8-87 Released rig at 6:00 AM 3-8-87. SI W.O. completion.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED L.R. Belden TITLE Petroleum EngineerDATE 3-11-87APPROVED BY Jerry Sept TITLE DISTRICT 1 SUPERVISORDATE MAR 13 1987

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NEW MEXICO OIL CONSERVATION COMMISSION

30-025-29846

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Crown Central Petroleum Corporation		8. Farm or Lease Name Oriole
3. Address of Operator 4000 N. Big Spring, Suite 213, Midland, Texas 79705		9. Well No. 1
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15. Elevation (Show whether DF, RT, GR, etc.) 3583.7 (GR)		12. County Lea

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOBS ☐
OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 3-17-87 Abo Perfs: 7496'-7326' (Perfs), Acid 2000 gals 15% NEFE, Frac 9000 gals, swab tst 1.5 bbls/hr. Total fluid cut 5% oil after load.
- 3-25-87 Blincy: 6269'-6384' (13 Perfs), Acidized with 2000 gals 15% NEFE, swab dry.
- 3-26-87 6237'-6027' (10 Perfs), Acidized with 2000 gals 15% NEFE, Frac with 18,250 gals X-Link with 18,000# 20/40 sd. Swab load back. Influx of 300' fluid per hr. Cut 5% oil.
- 4-7-87 San Andres: 4490'-4504' (28 Perfs), Acidized with 100 gals 15% NEFE. Swab 8 BWPH.
- 4-8-87 Perfs 4422'-32' (20 Perfs), 4378'-84' (12), Acid 100 gals 15% NEFE, Swab 6 BWPH.
- 4-9-87 Perfs 4308-14 (12 Perfs), 4319'-21' (4), Acid 100 gals 15% NEFE, Swab 8 BWPH with trace oil.
- 4-15-87 Queen: Perf 3411', 12', 13', 33', 35', 37', 68', 70', 3506', 08', 10', 34', 36', 3720', 22, 29', 31' (17 Perfs), Acidize with 2000 gals 15% NEFE. Frac with 9000 gals 65 Quality form and 12,000# 20/40 sand. Swab tested rec load. Good gas with 3 BPH cut 5-10% oil.
- 4-27-87 Yates: Perf 3099', 87', 75', 3064'-70' (18 Perfs), Acidized with 500 gals 7 1/2% MSR, Frac 5-7-87 with 10,000 gals 30# X-Link with 14,700# 20/40 sand. Swab and flowed back load. R.U. Pumping Unit test. 1 BOPD, 18 BWPD, Gas Rate 20 MCFPD.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Petroleum Engineer

7-7-87

SIGNED Jerry Sexton TITLE _____ DATE _____

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT I SUPERVISOR

TITLE _____

DATE

JUL 10 1987

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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

30-025-29846

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER _____						7. Unit Agreement Name	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						8. Farm or Lease Name Oriole	
2. Name of Operator Crown Central Petroleum Corporation						9. Well No. 1	
3. Address of Operator 4000 N. Big Spring, Suite 213, Midland, Texas 79705						10. Field and Pool, or Wildcat Nadine (Drinkard-Abol)	
4. Location of Well UNIT LETTER H LOCATED 1650 FEET FROM THE North LINE AND 990 FEET FROM THE East LINE OF SEC. 28 TWP. 19S RGE. 38E NMPM						12. County Lea	
15. Date Spudded 2-13-87		16. Date T.D. Reached 3-6-87		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.) 3595.4 KB	
19. Elev. Casinghead 3583.7		20. Total Depth 7600'		21. Plug Back T.D. 7599'		22. If Multiple Compl., How Many --	
23. Intervals Drilled By Rotary Tools 0-7600 Cable Tools --						24. Producing Interval(s), of this completion - Top, Bottom, Name	
25. Was Directional Survey Made Yes						26. Type Electric and Other Logs Run CNL-FDC-GR-Caliper, DLL-MSFL-BHC	
27. Was Well Cored Yes (Sidewall)						28. CASING RECORD (Report all strings set in well)	
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE	
8 5/8"		24		1560'		12 1/2"	
5 1/2"		15.50 & 17		7600'		7 7/8"	
						CEMENTING RECORD	
						600 sks "Lite", 200 sx "C" -0-	
						990 sks Pacesetter Lite, -0-	
						420 sks 50:50 Poz.	
29. LINER RECORD		30. TUBING RECORD		SIZE		DEPTH SET	
SIZE		TOP		BOTTOM		SACKS CEMENT	
						SCREEN	
						PACKER SET	
31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
33. PRODUCTION				Date First Production			
Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)			
Date of Test		Hours Tested		Choke Size		Prod'n. For Test Period	
						Oil - Bbl.	
						Gas - MCF	
						Water - Bbl.	
						Gas - Oil Ratio	
Flow Tubing Press.		Casing Pressure		Calculated 24-Hour Rate		Oil Gravity - API (Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
35. List of Attachments							
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.							
SIGNED 				TITLE Petroleum Engineer		DATE 7-2-87	

30-025-29846

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1670</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2900</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers <u>3139</u>	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3217</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>4202</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>4338</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta <u>5610</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock <u>5950</u>	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry <u>6056</u>	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>6600</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard <u>6869</u>	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>7307</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1670	2900	1230	Salt, Anhydrite				
2900	4338	1438	Sand, Anhydrite				
4338	5610	1272	Dolomite, Sand				
7600	5610	1990	Dolomite, Sand, Lime				

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NEW MEXICO OIL CONSERVATION COMMISSION

30-025-29846

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name Oriole
9. Well No. 1
10. Field and Pool, or Wildcat Nadine (Drinkard/Abo)
12. County Lea

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>
2. Name of Operator Crown Central Petroleum Corporation
3. Address of Operator 4000 N. Big Spring, Suite 213, Midland, Texas 79705
4. Location of Well UNIT LETTER <u>H</u> <u>1650</u> FEET FROM THE <u>North</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE, SECTION <u>28</u> TOWNSHIP <u>19-S</u> RANGE <u>38-E</u> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.). 3583.7 (GR)

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER ☐

ALTERING CASING ☐
PLUG AND ABANDONMENT ☒
OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

6-26-87 Load hole with 10 ppg plug mud. Set CIBP @ 7300' with 35' cement, CIBP @ 6000' with 35' cement on top, CIBP @ 4300' with 35' cement, CIBP @ 3200' with 35' cement, CIBP @ 2900' with 35' cement, 25 sk plug @ 1650'-1550", 10 sks to surface. C.O. well head, weld on Dry Hole Marker. P&A

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Petroleum Engineer DATE 7-7-87
APPROVED BY [Signature] TITLE OIL & GAS INSPECTOR DATE JAN - 4 1988

CONDITIONS OF APPROVAL, IF ANY:

Attachment 3

Source Formation Water Analysis																							
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgw	County	State	Formation	Sampled	PH	TDS (Mg/L)	Sodium (Mg/L)	Calcium (MG/L)	Iron (MG/L)	Magnesium (MG/L)	Manganese (MG/L)	Chloride (MG/L)	Bicarbonate (MG/L)	Sulfate (MG/L)
STATE NPA #001	30-025-03156	32.6879654	-103.5031815	6	19S	35E	L	1980S	660W	LEA	NM	BONE SPRING	1960	7.7	25800						14100	830	1120
SHOOTING STAR STATE SWD #001	30-025-29805	32.7594261	-103.4270935	11	18S	35E	J	1650S	2310E	LEA	NM	BONE SPRING	2001	6.2			15600	3	982		148248	244	650
SINCLAIR STATE #002	30-025-03123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	WOLFCAMP	1960	7.1	60950						33568	1087	3049
IRONHOUSE 19 STATE COM #001H	30-025-40676	32.7266121	-103.499527	19	18S	35E	N	200S	1800W	Lea	NM	BONE SPRING 2ND SAND	2014	6.4	182864	58171	4944	49	1893	1	113954	195	0
IRONHOUSE 19 STATE COM #004H	30-025-41245	32.7264938	-103.5014343	19	18S	35E	M	150S	1215W	Lea	NM	BONE SPRING 2ND SAND	2014	6.2	189029	64016	5319	39	2044	2	113566	159	0
IRONHOUSE 19 STATE COM #002H	30-025-41094	32.7271118	-103.4903336	19	18S	35E	P	410S	630E	Lea	NM	BONE SPRING 2ND SAND	2014	6.0	205332	72646	4828	39	2316	2	130450	488	1503
IRONHOUSE 20 STATE COM #001	30-025-40611	32.7265129	-103.4774857	20	18S	35E	O	200S	1980E	Lea	NM	BONE SPRING 2ND SAND	2014	6.1	186865	65638	4698	16	1700	1	116510	1098	1804
IRONHOUSE 20 STATE #002H	30-025-40748	32.7265129	-103.4731903	20	18S	35E	P	200S	660E	Lea	NM	BONE SPRING 2ND SAND	2014	6.6	196865	66738	4631	23	1790	1	116580	1298	1894
IRONHOUSE 19 STATE COM #003H	30-025-41050	32.7264977	-103.4941711	19	18S	35E	O	175S	1810E	Lea	NM	BONE SPRING 2ND SAND	2014	6.2	178457	56874	6125	22	1457	1	125412	845	849
HAMON STATE #001	30-025-03140	32.7175827	-103.4464035	27	18S	35E	K	2310S	2310W	LEA	NM	BONE SPRING			154510						96360	430	1210
LEA 403 STATE #001	30-025-03126	32.7386093	-103.4518051	22	18S	35E	D	660N	660W	LEA	NM	BONE SPRING	1958	6.7	255451						156699	327	779
LEA 403 STATE #001	30-025-03126	32.7386093	-103.4518051	22	18S	35E	D	660N	660W	LEA	NM	BONE SPRING			255451						156699	327	779
HAMON STATE #001	30-025-03140	32.7175827	-103.4464035	27	18S	35E	K	2310S	2310W	LEA	NM	BONE SPRING			154510						96360	430	1210
SHOOTING STAR STATE SWD #001	30-025-29805	32.7594261	-103.4270935	11	18S	35E	J	1650S	2310E	LEA	NM	BONE SPRING									148248	244	650
STATE NPA #001	30-025-03156	32.6879654	-103.5031815	6	19S	35E	L	1980S	660W	LEA	NM	BONE SPRING			195200						118000	220	1030
APPLESEED FEDERAL COM #001	30-025-20377	32.5750008	-103.4730377	17	20S	35E	H	1980N	660E	LEA	NM	BONE SPRING			173141						93660	5174	7916
ALPHABET AQR STATE #001	30-025-21342	32.4806519	-103.4940796	17	21S	34E	F	1980N	1980W	LEA	NM	BONE SPRING									95978	391	400
HUNT APO STATE #001	30-025-27135	32.5070038	-103.4812317	4	21S	34E	T	2310S	660W	LEA	NM	BONE SPRING									154965	146	350
BERRY APN STATE #001	30-025-27250	32.5060349	-103.4983444	5	21S	34E	L	1980S	660W	LEA	NM	BONE SPRING			128117						82351	567	1723
H L VINSON #001	30-025-03587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM	WOLFCAMP									66400	187	690
PHILLIPS STATE #001	30-025-03659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	WOLFCAMP			78885						47400	354	875
STATE CA #001	30-025-03743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	WOLFCAMP			167968						102800	61	623
SINCLAIR STATE #002	30-025-03123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	WOLFCAMP			60950						33568	1087	3049

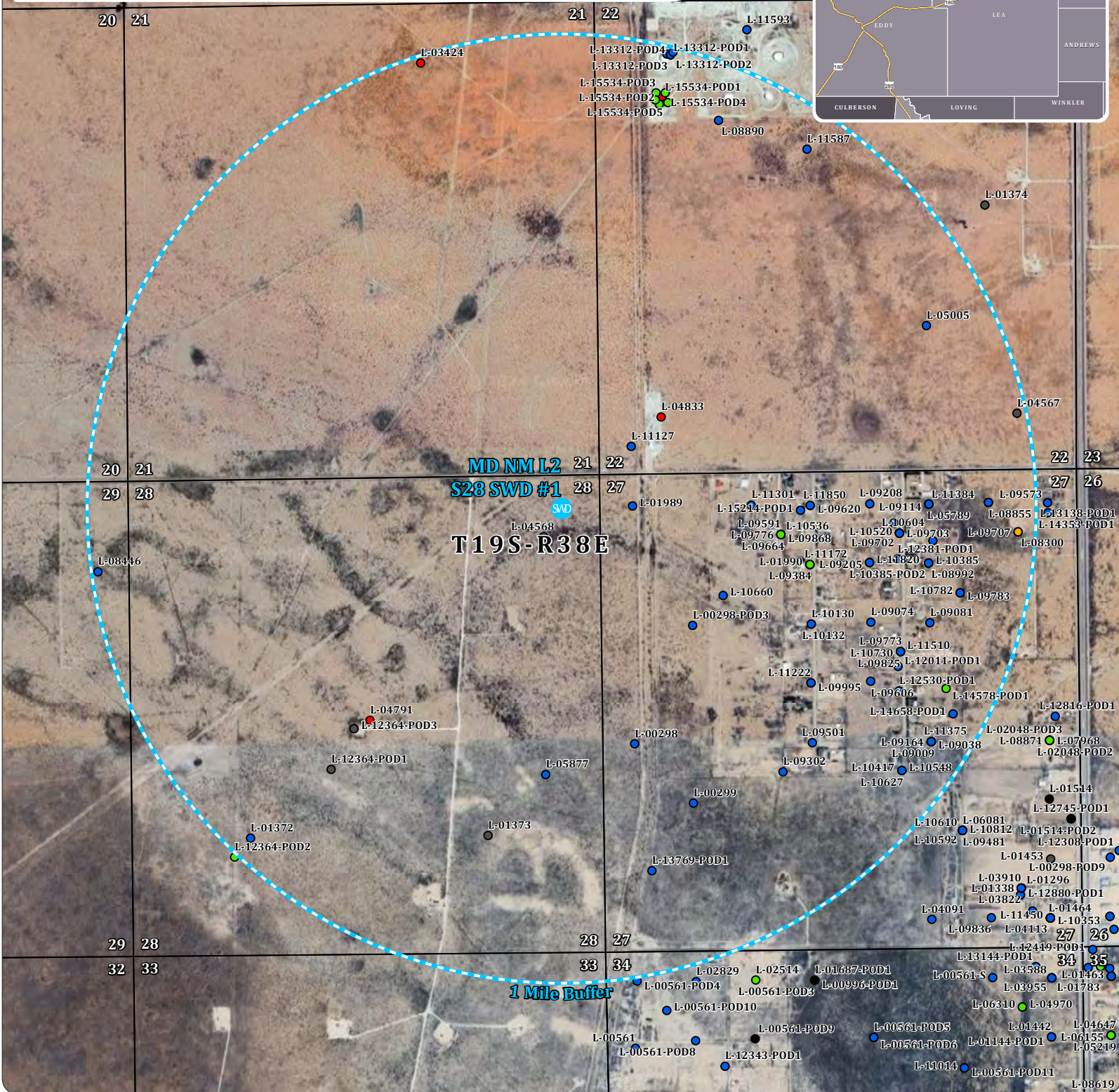
Attachment 4

Injection Formation Water Analysis															
Well Name	API	TVD ft)	Latitude	Longitude	Section	Township	Range	Unit	Formation	Date Sampled	PH	TDS (Mg/L)	Chloride (MG/L)	Bicarbonate (MG/L)	Sulfate (MG/L)
BORDAGES #001	30-025-07707	8,268	32.6503105	-103.1374054	22	19S	38E	C	GRAYBURG/SAN ANDRES	Unknown	Unknown	36,794	19,180	641	3,283
BORDAGES #001	30-025-07707	8,268	32.6503105	-103.1374054	22	19S	38E	C	GRAYBURG/SAN ANDRES	Unknown	Unknown	135,439	84,420	746	1,436
BORDAGES #001	30-025-07707	8,268	32.6503105	-103.1374054	22	19S	38E	C	GRAYBURG/SAN ANDRES	Unknown	Unknown	139,766	83,600	396	5,280
BORDAGES #001	30-025-07707	8,268	32.6503105	-103.1374054	22	19S	38E	C	GRAYBURG/SAN ANDRES	Unknown	Unknown	142,865	89,070	546	2,022

Source: New Mexico Tech; Go-Tech Produced Water Quality Data Search (<https://gotech.nmt.edu/gotech/Water/producedwater.aspx>)

Attachment 5

SECTION 28, TOWNSHIP 19 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO



Item	Feet
Dark Blue	500
Light Blue	1,500
Green	2,500

Legend



Proposed SWD

1 Mile Buffer

NMOSE Points of Diversion

- Active
- Pending
- Changed Location of Well
- Inactive
- Capped
- Plugged
- Unknown

MD NM L2 S28 SWD #1

OPERATOR:
SOLARIS WATER MIDSTREAM, LLC.



Water Well Sampling Table							
Water Well ID	OSE Status	Owner	Available Contact Information	Use	Latitude	Longitude	Notes
L 00298	Active	Patricia T. Hoopes	P.o. Box 571 Jal, NM 88252	Irrigation	32.63028	-103.143906	
L 00298 POD3	Active	J.W. Neal	P.o. Box 278 Hobbs, NM 88240	Irrigation	32.633882	-103.141763	
L 00298 POD4	Active	Lloyd J. Murphy	P.o. Box 2404 Hobbs, NM 88240	Irrigation	32.635735	-103.135351	
L 00299	Active	Dale L. Hoopes	P.o. Box 571 Jal, NM 88252	Irrigation	32.628445	-103.141812	
L 01372	Active	Chris Furneaux	301 Rainbow Drive Hobbs, NM	Livestock Watering	32.627526	-103.157828	Sample collected 12-05-2024
L 01373	N/A	Chris Furneaux	301 Rainbow Drive Hobbs, NM	Livestock Watering	32.627526	-103.149249	Not suitable for sampling based on status
L 01989	Active	Marcia J. Schubert	Po Box 6056 Hobbs, NM 88240	Irrigation	32.637549	-103.143894	
L 01990	Active	C.W. Jobe	320 So. Turner St. Hobbs, NM	Irrigation	32.635704	-103.137505	
L 03424	Plugged	S P Yates Drilling Company	Carper Building Artesia, NM	Prospecting	32.651169	-103.151374	Not suitable for sampling based on status
L 04567	N/A	Ruth T. Furneaux	101 West Tycksen Farmington, NM	Irrigation	32.640255	-103.12996	Not suitable for sampling based on status
L 04568	N/A	Ruth T. Furneaux	101 West Tycksen Farmington, NM	Irrigation	32.63664	-103.147121	Not suitable for sampling based on status
L 04791	Plugged	Noble Drilling Corp	Drawer 550 Midland, TX 79705	Prospecting	32.631088	-103.153471	Not suitable for sampling based on status
L 04833	Plugged	Cactus Drilling Corp Of Texas	Po Box 32 Midland, TX 79705	Prospecting	32.640266	-103.142825	Not suitable for sampling based on status
L 05005	Active	Beatrice W Kingsley	Box 1601 Hobbs, NM 88240	Domestic	32.642964	-103.133197	
L 05789	Active	C W Jobe	1700 N Jefferson Street Hobbs, NM	Livestock Watering	32.637507	-103.133182	
L 05877	Active	Johnny Brice	1128 Princess Jeanne Hobbs, NM 88240	Domestic	32.629371	-103.147132	
L 08300	Capped	Kenai Drilling Oil & Gas Inc.	1001 Petroleum Bldg. Midland, TX 79701	Prospecting	32.636629	-103.129971	Not suitable for sampling based on use & status
L 08446	Active	Jerry L Brothers	506 W Copper Hobbs, NM 88240	Domestic	32.635723	-103.163235	Sample collected 12-05-2024
L 08855	Active	Jessie Johncox	Star Rt B, Box 1500 Hobbs, NM 88240	Domestic	32.637538	-103.131029	
L 08855 POD2	Active	Jessie Johncox	Star Rt B, Box 1500 Hobbs, NM 88240	Domestic	32.637538	-103.131029	
L 08890	Active	Arco Pipe Line Company	Po Box 1190 Midland, TX 79702	Domestic	32.649315	-103.140623	
L 08992	Active	Lloyd Murphy	Po Box 4627 Hobbs, NM 88240	Domestic	32.635704	-103.13322	
L 09009	Active	Terry King	Po Box 5853 Hobbs, NM 88240	Domestic	32.630247	-103.133195	
L 09038	Plugged	Terry Asel	Star Rt. Space 36 2500 E. Senger Hobbs, NM 88240	Domestic	32.630247	-103.133195	Not suitable for sampling based on status
L 09038 POD2	Active	Terry Asel	Star Rt. Space 36 2500 E. Senger Hobbs, NM 88240	Domestic	32.630247	-103.133195	
L 09074	Active	Jerry Vann	200 W. Midwest Hobbs, NM 88240	Domestic	32.633913	-103.135325	
L 09081	Active	Georgia Martin	408 E. Lea Hobbs, NM 88240	Domestic	32.633882	-103.133194	
L 09114	Active	Darrell Caperton	1618 Starling Dr Hobbs, NM 88240	Domestic	32.637507	-103.133182	
L 09164	Active	Carl Stegemoeller	615 N. Morland Hobbs, NM 88240	Domestic	32.630247	-103.133195	
L 09205	Active	Marlene L. Blesch	6001 Gaspar Hobbs, NM 88240	Domestic	32.635735	-103.135351	
L 09208	Active	Billy Gilbert	3004 N. Montgomery Hobbs, NM 88240	Domestic	32.637539	-103.135314	
L 09302	Active	Ginger Stewart	Star Rt B, Box 15 Hobbs, NM 88240	Domestic	32.629371	-103.138563	
L 09384	Pending	James Overton Stanford	920 East Michigan Hobbs, NM 88240	Domestic	32.635704	-103.137505	
L 09501	Active	Ray Carr	Box 5094 Hobbs, NM 88241	Domestic	32.630248	-103.13749	
L 09591	Pending	Billy Haynes	1208 S. Linam Hobbs, NM 88240	Domestic	32.636631	-103.138541	
L 09606	Active	Mariann Vann	5801 Gaspar Hobbs, NM 88240	Domestic	32.63211	-103.135362	
L 09620	Active	Jessie Johncox	Star Rt B, Box 1500 Hobbs, NM 88240	Exploration	32.637508	-103.137467	Not suitable for sampling based on use
L 09664	Active	Greg Chadwick	Po Box 5937 Hobbs, NM 88241	Domestic	32.636631	-103.138541	
L 09702	Active	Wayne Epperson	6410 Bronco Dr. Hobbs, NM 88240	Domestic	32.63663	-103.134256	
L 09703	Active	Claudia A Saxe	5706 Bronco Hobbs, NM 88240	Domestic	32.63663	-103.134256	
L 09707	Active	Burke Bigbie	1507 Catherine Dr. Hobbs, NM 88240	Domestic	32.636629	-103.129971	
L 09773	Active	Gene Horn	Star Rt B, Box 1500 Hobbs, NM 88240	Domestic	32.633005	-103.134267	
L 09776	Active	J. D. Norby	3909 N. Fowler Hobbs, NM 88240	Domestic	32.636631	-103.138541	
L 09783	Active	Ted Harshbarger	Box 87 Oil Center, NM 88266	Domestic and Livestock Watering	32.634785	-103.132088	
L 09825	Active	Ben Fisher	517 N. Coleman Hobbs, NM 88240	Domestic	32.633005	-103.134267	
L 09868	Active	Melvin Henry	709 E. Dunnam Hobbs, NM 88240	Domestic	32.636631	-103.138541	
L 09995	Active	Gerald Mace	Po Box 1515 Hobbs, NM 88240	Domestic	32.632079	-103.137516	
L 10130	Active	Dewayne Spears	6020 S. Bronco Dr. Hobbs, NM 88240	Domestic	32.633882	-103.137479	
L 10132	Active	David Cowger	1020 Everglade Hobbs, NM 88240	Domestic	32.633882	-103.137479	
L 10385	Active	William M. Patton	5910 Gaspar Hobbs, NM 88240	Domestic	32.635704	-103.13322	
L 10385 POD2	Active	William M. Patton	5910 Gaspar Hobbs, NM 88240	Domestic	32.635704	-103.13322	
L 10417	Active	Ken Whicker	6405 Broncho Drive Hobbs, NM 88240	Domestic	32.62937	-103.134268	
L 10520	Active	Robert Cline	5917 Gaspar Hobbs, NM 88240	Domestic	32.63663	-103.134256	
L 10536	Active	Billy Hull	6021 S. Broncho Drive Hobbs, NM 88240	Domestic	32.636631	-103.138541	
L 10548	Active	Shannon Stephens	5711 E. Gaspar Hobbs, NM 88240	Domestic	32.62937	-103.134268	
L 10604	Active	Valerie J. Slate	5727 Broncho Hobbs, NM 88240	Domestic	32.63663	-103.134256	
L 10627	Active	Thomas Case	6203 S. Bronco Hobbs, NM 88240	Domestic	32.62937	-103.134268	
L 10660	Active	Dorothy Province	Po Box 663 Hobbs, NM 88241	Domestic	32.634786	-103.140657	
L 10730	Pending	Efrain Torres	6020 S. Gaspar Hobbs, NM 88240	Domestic	32.633005	-103.134267	
L 10782	Active	Brian Henry	5910 S. Bronco Hobbs, NM 88242	Domestic	32.634785	-103.132088	
L 11127	Active	Reagent Chemical	Po Box 1253 Stanton, TX 79782	Sanitation	32.639371	-103.14392	Not suitable for sampling based on use
L 11172	Active	Carolins Gracia	5818 Bronco Hobbs, NM 88240	Domestic	32.635704	-103.137505	
L 11222	Active	David Smith	5726 Bronco Hobbs, NM 88240	Domestic	32.632079	-103.137516	
L 11301	Active	Katherine Mills	401 W. Monument Rd. Hobbs, NM 88240	Domestic	32.637539	-103.139599	
L 11375	Pending	Domingo Marquez	6419 Eunice Hwy Hobbs, NM 88240	Domestic	32.630247	-103.133195	
L 11384	Active	Denise Stelly	411 W. Monument Hwy Hobbs, NM 88240	Domestic	32.637507	-103.133182	
L 11510	Active	Leo V. Sims, II	Po Box 2630 Hobbs, NM 88240	Livestock Watering	32.633005	-103.134267	
L 11587	Active	Cindy Yearout	3929 S. Dalmont Hobbs, NM 88240	Domestic	32.648402	-103.137444	
L 11820	Active	Pete Rodriguez	5818 S. Bronco Dr. Hobbs, NM 88240	Livestock Watering	32.635735	-103.135351	
L 11850	Active	Israel Saenz	301 W. Monument Rd. Hobbs, NM 88240	Domestic	32.637508	-103.137467	
L 12011 POD1	Active	Viola Fisher	6201 Gaspar Hobbs, NM 88240	Domestic	32.632556	-103.134361	
L 12364 POD1	N/A	Mcneill Ranch	P.o. Box 1092 Hobbs, NM 88241	Domestic	32.629597	-103.154889	Not suitable for sampling based on status
L 12364 POD3	N/A	Mcneill Ranch	P.o. Box 1092 Hobbs, NM 88241	Domestic	32.630833	-103.15405	Not suitable for sampling based on status
L 12381 POD1	Active	Edgar Corpus	5821 S. Gaspar Hobbs, NM 88240	Domestic	32.635833	-103.134333	
L 12530 POD1	Active	Asel	P.o. Box Ss Carlsbad, NM 88221	Domestic	32.631805	-103.134334	
L 13312 POD1	Active	Conestoga Rovers And Assoc.	14998 W. 6Th Ave. Suite 800 Golden, CO 80401	Monitoring	32.651361	-103.142472	Not suitable for sampling based on use
L 13312 POD2	Active	Holly Energy Partners	Po Box 1260 1602 W. Main Artesia, NM 88211	Monitoring	32.651333	-103.142333	Not suitable for sampling based on use
L 13312 POD3	Active	Conestoga Rovers And Assoc.	14998 W. 6Th Ave. Suite 800 Golden, CO 80401	Monitoring	32.651333	-103.142333	Not suitable for sampling based on use
L 13312 POD4	Active	Conestoga Rovers And Assoc.	14998 W. 6Th Ave. Suite 800 Golden, CO 80401	Monitoring	32.651417	-103.14225	Not suitable for sampling based on use
L 13769 POD1	Active	Manuel Mata	Po Box 1263 Hobbs, NM 882411263	Domestic	32.626389	-103.143334	
L 13975 POD1	Active	Edelberto Rodriguez	5830 Gaspar Hobbs, NM 88240	Domestic	32.636389	-103.133055	
L 14246 POD1	Active	Gilberto Pinon	5809 South Gaspar Hobbs, NM 88240	Domestic	32.636944	-103.134444	
L 14578 POD1	Pending	Eleuterio A Jurado Camacho	6232 S Gaspar Street Hobbs, NM 88240	Domestic and Livestock Watering	32.631864	-103.132636	
L 14658 POD1	Active	Estate Of Mary Lou Welms	Po Box 393 Hobbs, NM 88241	Domestic	32.631084	-103.132389	
L 15214 POD1	Active	Michael Boehm	5727 S Bronco Dr Hobbs, NM 88240	Domestic	32.637359	-103.137825	
L 15534 POD1	Plugged	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.650041	-103.142655	Not suitable for sampling based on status
L 15534 POD2	Plugged	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.650053	-103.142656	Not suitable for sampling based on status
L 15534 POD3	Pending	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.65017	-103.142872	Not suitable for sampling based on use
L 15534 POD4	Pending	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.650172	-103.142545	Not suitable for sampling based on use
L 15534 POD5	Pending	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.649872	-103.142447	Not suitable for sampling based on use
L 15534 POD6	Pending	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.649827	-103.142767	Not suitable for sampling based on use
L 15534 POD7	Pending	Holly Energy Partners-op Lic	1602 W. Main Artesia, NM 88210	Monitoring	32.649961	-103.142894	Not suitable for sampling based on use



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 17, 2024

CHAD GALLAGHER

ARIS WATER SOLUTIONS

9811 KATY FWY

HOUSTON, TX 77024

RE: MC NEIL SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/05/24 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NAReported:
17-Dec-24 12:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L - 01372	H247409-01	Water	05-Dec-24 00:00	05-Dec-24 14:41
L - 10466	H247409-02	Water	05-Dec-24 00:00	05-Dec-24 14:41
L - 08446	H247409-03	Water	05-Dec-24 00:00	05-Dec-24 14:41

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

L - 01372**H247409-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	244		5.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Chloride*	64.0		4.00	mg/L	1	4120519	CT	05-Dec-24	4500-Cl-B	
Conductivity*	784		1.00	umhos/cm @ 25°C	1	4120521	AC	05-Dec-24	120.1	
pH*	6.64		0.100	pH Units	1	4120510	AC	05-Dec-24	150.1	
Temperature °C	19.6			pH Units	1	4120510	AC	05-Dec-24	150.1	
Resistivity	12.8			Ohms/m	1	4120521	AC	05-Dec-24	120.1	
Sulfate*	107		25.0	mg/L	2.5	4120614	HM	06-Dec-24	375.4	
TDS*	520		5.00	mg/L	1	4120515	HM	06-Dec-24	160.1	
Alkalinity, Total*	200		4.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
TSS*	<2.00		2.00	mg/L	1	4120522	AC	06-Dec-24	160.2	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.046	0.008	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	J
Calcium*	79.6	0.115	0.200	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Hardness as CaCO3	256		0.911	mg/L	1	[CALC]	AWG	12-Dec-24	2340 B	
Iron*	0.037	0.026	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	J
Magnesium*	14.0	0.038	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Potassium*	2.98	0.106	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Sodium*	63.8	0.254	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Strontium*	0.809	0.014	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

L - 10466
H247409-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	210		5.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Chloride*	56.0		4.00	mg/L	1	4120519	CT	05-Dec-24	4500-Cl-B	
Conductivity*	627		1.00	umhos/cm @ 25°C	1	4120521	AC	05-Dec-24	120.1	
pH*	6.82		0.100	pH Units	1	4120510	AC	05-Dec-24	150.1	
Temperature °C	19.4			pH Units	1	4120510	AC	05-Dec-24	150.1	
Resistivity	15.9			Ohms/m	1	4120521	AC	05-Dec-24	120.1	
Sulfate*	95.8		25.0	mg/L	2.5	4120614	HM	06-Dec-24	375.4	
TDS*	430		5.00	mg/L	1	4120515	HM	06-Dec-24	160.1	
Alkalinity, Total*	172		4.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
TSS*	<2.00		2.00	mg/L	1	4120522	AC	06-Dec-24	160.2	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.035	0.008	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	J
Calcium*	56.0	0.115	0.200	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Hardness as CaCO3	200		0.911	mg/L	1	[CALC]	AWG	12-Dec-24	2340 B	
Iron*	0.046	0.026	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	J
Magnesium*	14.7	0.038	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Potassium*	2.48	0.106	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Sodium*	51.9	0.254	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Strontium*	0.711	0.014	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

L - 08446**H247409-03 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	234		5.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
Chloride*	60.0		4.00	mg/L	1	4120519	CT	05-Dec-24	4500-Cl-B	
Conductivity*	707		1.00	umhos/cm @ 25°C	1	4120521	AC	05-Dec-24	120.1	
pH*	6.70		0.100	pH Units	1	4120510	AC	05-Dec-24	150.1	
Temperature °C	19.4			pH Units	1	4120510	AC	05-Dec-24	150.1	
Resistivity	14.1			Ohms/m	1	4120521	AC	05-Dec-24	120.1	
Sulfate*	84.8		25.0	mg/L	2.5	4120614	HM	06-Dec-24	375.4	
TDS*	482		5.00	mg/L	1	4120515	HM	09-Dec-24	160.1	
Alkalinity, Total*	192		4.00	mg/L	1	4120601	AC	06-Dec-24	310.1	
TSS*	<2.00		2.00	mg/L	1	4120522	AC	06-Dec-24	160.2	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	0.041	0.008	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	J
Calcium*	64.8	0.115	0.200	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Hardness as CaCO3	213		0.911	mg/L	1	[CALC]	AWG	12-Dec-24	2340 B	
Iron*	<0.026	0.026	0.050	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Magnesium*	12.4	0.038	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Potassium*	2.04	0.106	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Sodium*	63.2	0.254	1.00	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	
Strontium*	0.652	0.014	0.100	mg/L	1	B243628	AWG	12-Dec-24	EPA 200.7	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4120510 - General Prep - Wet Chem**LCS (4120510-BS1)**

Prepared & Analyzed: 05-Dec-24

pH	6.88		pH Units	7.00	98.3	90-110			
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Duplicate (4120510-DUP1)

Source: H247397-01

Prepared & Analyzed: 05-Dec-24

pH	7.19	0.100	pH Units	7.15			0.558	20	
Temperature °C	20.4		pH Units	20.4			0.00	200	

Batch 4120515 - Filtration**Blank (4120515-BLK1)**

Prepared: 10-Dec-24 Analyzed: 11-Dec-24

TDS	ND	5.00	mg/L						
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LCS (4120515-BS1)

Prepared: 05-Dec-24 Analyzed: 06-Dec-24

TDS	804		mg/L	1000	80.4	80-120			
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Duplicate (4120515-DUP1)

Source: H247395-01

Prepared: 06-Dec-24 Analyzed: 09-Dec-24

TDS	1280	5.00	mg/L	1250			2.76	20	
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Batch 4120519 - General Prep - Wet Chem**Blank (4120519-BLK1)**

Prepared & Analyzed: 05-Dec-24

Chloride	ND	4.00	mg/L						
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LCS (4120519-BS1)

Prepared & Analyzed: 05-Dec-24

Chloride	116	4.00	mg/L	100	116	80-120			
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LCS Dup (4120519-BSD1)

Prepared & Analyzed: 05-Dec-24

Chloride	112	4.00	mg/L	100	112	80-120	3.51	20	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4120521 - General Prep - Wet Chem**LCS (4120521-BS1)**

Prepared & Analyzed: 05-Dec-24

Conductivity	473		uS/cm	500		94.6	80-120			
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Duplicate (4120521-DUP1)

Source: H247409-01

Prepared & Analyzed: 05-Dec-24

Conductivity	788	1.00	umhos/cm @ 25°C		784			0.509	20	
Resistivity	12.7		Ohms/m		12.8			0.509	20	

Batch 4120522 - Filtration**Blank (4120522-BLK1)**

Prepared: 05-Dec-24 Analyzed: 06-Dec-24

TSS	ND	2.00	mg/L							
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LCS (4120522-BS1)

Prepared: 05-Dec-24 Analyzed: 06-Dec-24

TSS	96.0		mg/L	100		96.0	80-120			
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Duplicate (4120522-DUP1)

Source: H247340-04

Prepared: 05-Dec-24 Analyzed: 06-Dec-24

TSS	5.00	2.00	mg/L		5.40			7.69	52.7	
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Batch 4120601 - General Prep - Wet Chem**Blank (4120601-BLK1)**

Prepared & Analyzed: 06-Dec-24

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (4120601-BS1)

Prepared & Analyzed: 06-Dec-24

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4120601 - General Prep - Wet Chem**LCS Dup (4120601-BSD1)**

Prepared & Analyzed: 06-Dec-24

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	3.86	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	3.77	20	

Batch 4120614 - General Prep - Wet Chem**Blank (4120614-BLK1)**

Prepared & Analyzed: 06-Dec-24

Sulfate	ND	10.0	mg/L							
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LCS (4120614-BS1)

Prepared & Analyzed: 06-Dec-24

Sulfate	16.1	10.0	mg/L	20.0		80.4	80-120			
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LCS Dup (4120614-BSD1)

Prepared & Analyzed: 06-Dec-24

Sulfate	16.5	10.0	mg/L	20.0		82.6	80-120	2.76	20	
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Analytical Results For:

ARIS WATER SOLUTIONS
9811 KATY FWY
HOUSTON TX, 77024

Project: MC NEIL SWD
Project Number: NONE GIVEN
Project Manager: CHAD GALLAGHER
Fax To: NA

Reported:
17-Dec-24 12:13

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B243628 - Total Recoverable by ICP**Blank (B243628-BLK1)**

Prepared: 11-Dec-24 Analyzed: 12-Dec-24

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.200	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

LCS (B243628-BS1)

Prepared: 11-Dec-24 Analyzed: 12-Dec-24

Strontium	1.95	0.100	mg/L	2.00		97.6	85-115			
Sodium	1.60	1.00	mg/L	1.62		99.1	85-115			
Potassium	3.95	1.00	mg/L	4.00		98.9	85-115			
Magnesium	10.0	0.100	mg/L	10.0		100	85-115			
Iron	2.00	0.050	mg/L	2.00		100	85-115			
Calcium	1.97	0.200	mg/L	2.00		98.6	85-115			
Barium	0.972	0.050	mg/L	1.00		97.2	85-115			

LCS Dup (B243628-BSD1)

Prepared: 11-Dec-24 Analyzed: 12-Dec-24

Magnesium	10.1	0.100	mg/L	10.0		101	85-115	1.10	20	
Strontium	1.95	0.100	mg/L	2.00		97.5	85-115	0.0861	20	
Potassium	3.98	1.00	mg/L	4.00		99.6	85-115	0.722	20	
Calcium	1.98	0.200	mg/L	2.00		99.0	85-115	0.389	20	
Sodium	1.61	1.00	mg/L	1.62		99.2	85-115	0.151	20	
Barium	0.976	0.050	mg/L	1.00		97.6	85-115	0.376	20	
Iron	2.01	0.050	mg/L	2.00		100	85-115	0.193	20	

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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Attachment 6



NM Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Re: Geology Statement
Solaris Water Midstream, LLC
MD NM L2 S28 SWD #1
Section 28, T. 19S, R. 38E
Lea County, New Mexico

To whom it may concern:

Publicly available geologic and engineering data related to the proposed well have been thoroughly reviewed, and no evidence for open faults or any other hydrologic connection between the proposed Delaware Mountain Group injection zone and any underground sources of drinking water have been found.

Sincerely,

A handwritten signature in black ink that reads "Patrick Ryan". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Patrick Ryan
Sr. Geologist

Attachment 7

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
October 30, 2024
and ending with the issue dated
October 30, 2024.


Publisher

Sworn and subscribed to before me this
30th day of October 2024.


Business Manager

My commission expires
January 29, 2027
(Seal)

STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL	LEGAL
<p align="center">LEGAL NOTICE October 30, 2024</p> <p>Solaris Water Midstream, LLC, 907 Tradewinds Blvd, Midland, TX 79706, (OGRID# 331374), is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for commercial saltwater injection into its MD NM L2 S28 SWD #1. This will be a new well located 355' FNL & 474' FEL in Section 28 Township 19S Range 38E in Lea County, NM, which is approximately 4.4 miles South of Hobbs, NM. The purpose of the well is to inject produced water from permitted oil and gas wells in the area for commercial disposal into the San Andres & Glorieta formations at depths of 4,274' – 5,874' at a maximum surface injection pressure of 854 psi and a maximum injection rate of 25,000 barrels of water per day.</p> <p>Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr. Additional information may be obtained by contacting the operator contact, Nate Alleman, at (918) 237-0559 or info@aceadvisors.com. #00295584</p>	

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00295584

NATE ALLEMAN
ACE ENERGY ADVISORS
501 E. FRANK PHILLIPS BLVD.
SUITE 201
BARTLESVILLE, OK 74006

Statement of Affected Person Notification

A copy of the C-108 application has been provided to the following Affected Persons as notification of the subject Application for Authorization to Inject (C-108).

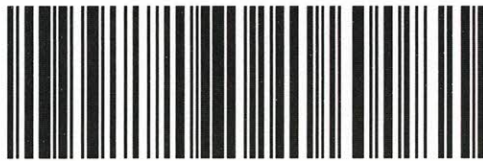
Entity Name	Entity Address	Mailing Date
Site Surface Owner		
Solaris Water Midstream LLC	9651 Katy Fwy Ste 400 Houston, TX 77024-1590	09/26/2025
Applicable Mineral Owners		
Bureau of Land Management	Oil and Gas Division 620 E Greene St. Carlsbad, NM 88220	09/26/2025
OCD District Office		
OCD – District 1	1625 N. French Drive Hobbs, NM 88240	09/26/2025
Leaseholders within 0.5-mile AOR		
DOH LLC	1209 Mountain Road PI NE, Ste N, Albuquerque, NM 87110	09/26/2025
Deerwood Exploration, LLC	106 East Porr Drive, Ruidoso, NM 88345-6932	09/26/2025
Riley Exploration Oper. Co., LLC	2008 N Council Blanchard, OK 73010	09/26/2025
L E Jones Operating, Inc	P.O. Box 1185 Duncan, OK 73534	09/26/2025
Well Operators within AOR		
None	N/A	N/A

Nathan Alleman
 Ace Energy Advisors
 501 Se Fph Blvd Ste 201
 BARTLESVILLE OK 74003-3931



Place label at top of the center of the envelope and fold at dotted line.

CERTIFIED MAIL®



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Solaris Water Midstream LLC
 9651 Katy Fwy Ste 400
 Houston TX 77024-1590

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Bureau of Land Management
 Oil and Gas Division
 620 E Greene St
 Carlsbad NM 88220-6292

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OCD – District 1
 1625 N French Dr
 Hobbs NM 88240-9273

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 501 Se Fph Blvd Ste 201
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DOH LLC
 1209 Mountain Road Pl Ne Ste N
 Albuquerque NM 87110-7845

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501 Se Fph Blvd Ste 201
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Deerwood Exploration, LLC
106 E Porr Dr
Ruidoso NM 88345-6932

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Riley Exploration Oper. Co., LLC
2008 N Council Ave
Blanchard OK 73010-8038

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Ace Energy Advisors
501 Se Fph Blvd Ste 201
BARTLESVILLE OK 74003-3931



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L E Jones Operating, Inc
Po Box 1185
Duncan OK 73534-1185

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 509840

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 509840
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
erica.gordan	None	9/29/2025