

AE Order Number Banner

Application Number: pMSG2325247925

SWD-2567

WaterBridge Stateline LLC [330129]



August 24, 2023

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

Subject: WaterBridge Stateline LLC – Bandolier SWD #1
Application for Authorization to Inject

To Whom It May Concern,

On behalf of WaterBridge Stateline LLC (WaterBridge), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Bandolier SWD #1, a proposed saltwater disposal well, in Eddy County, NM.

Should you have any questions regarding the enclosed application, please contact Oliver Seekins at (918) 382-7581 or oseekins@all-llc.com.

Sincerely,
ALL Consulting

Oliver Seekins

Oliver Seekins
Consultant

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: _____ **OGRID Number:** _____
Well Name: _____ **API:** _____
Pool: _____ **Pool Code:** _____

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

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	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.

Print or Type Name

8/24/2023

Date

Oliver Seekins

Signature

Phone Number

e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: WaterBridge Stateline LLC

ADDRESS: 5555 San Felipe, Ste. 1200 Houston, TX 77056

CONTACT PARTY: Oliver Seekins PHONE: 918.382.7581

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: Oliver Seekins TITLE: Consultant

SIGNATURE: Oliver Seekins DATE: 8/24/2023

E-MAIL ADDRESS: oseekins@all-llc.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

Application for Authorization to Inject
Well Name: Bandolier SWD #1

III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

(1) General Well Information:

Operator: WaterBridge Stateline LLC (OGRID No. 330129)
Lease Name & Well Number: Bandolier SWD #1
Location Footage Calls: 2,060 FNL & 622 FWL
Legal Location: Lot 2, S18 T20S R27E
Ground Elevation: 3,314'
Proposed Injection Interval: 8,065' - 8,900'
County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	24"	20"	94.0 lb/ft	425'	410	Surface	Circulation
Intermediate 1	17-1/2"	13-3/8"	54.5 lb/ft	2,500'	1,645	Surface	Circulation
Production Casing	12-1/4"	9-5/8"	53.5 lb/ft	9,000'	2,225	2,300'	CBL
Tubing	N/A	5-1/2"	26.0 lb/ft	8,035'	N/A	N/A	N/A

DV Tool set at: 5,800'

(3) Tubing Information:

5-1/2" (26.0 lb/ft) ceramic-coated tubing with setting depth of 8,035'

(4) Packer Information: Baker Hughes Hornet or equivalent packer set at 8,035'

B.

(1) Injection Formation Name: Cisco

Pool Name: SWD; Cisco
Pool Code: 96099

(2) Injection Interval: Perforated injection between 8,065' - 8,900'

(3) Drilling Purpose: New drill for saltwater disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Queen (555')
- Bone Spring (5,230')
- Wolfcamp (7,705')

Underlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Strawn (8,960')

V – Well and Lease Maps

The following maps and documents are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-Mile Lease Map
- 2-Mile Mineral Ownership Map
- 2-Mile Surface Ownership Map
- Potash Lease Map

VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are eight (8) wells within the 1/2-mile AOR and four (4) wells penetrate the injection zone, all four (4) wells have been properly cased and cemented to isolate the injection zone. Wellbore diagrams and casing information for these wells are also included in **Attachment 2**.

VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 30,000 bpd
Proposed Average Injection Rate: 17,500 bpd
- (2) A **closed-loop system** will be used.
- (3) **Proposed Maximum Injection Pressure:** 1,613 psi (surface)
Proposed Average Injection Pressure: approximately 1,048 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp, Delaware and Bone Spring formations. Analysis of water from these formations is included as **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Cisco formation which is a non-productive zone known to be compatible with formation water from the Wolfcamp, Delaware and Bone Spring formations. Water analyses from the Cisco formation in the area are included as **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Cisco formation from 8,065' - 8,900' feet. This formation consists of interbedded carbonate rocks including dolomites and limestones. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The base of the USDW is the Yates Formation at a depth of approximately 400 feet. Water well depths in the area range from approximately 130-200 feet below the ground surface.

Additional geologic information can be found in karst analysis included as **Attachment 6**.

IX – Proposed Stimulation Program

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

X – Logging and Test Data

Logs will be submitted to the Division upon completion of the well.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, five (5) groundwater wells are located within 1-mile of the proposed SWD location. Three (3) of these water wells were sampled on April 27th, 2022.

A water well map, details of the water well within 1-mile, and the associated water analyses are included in **Attachment 5**.

XII – No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed No Hydrologic Connection Statement is included as **Attachment 7**.

XIII – Proof of Notice

A Public Notice was filed with the Carlsbad Current-Argus newspaper and an affidavit is included in **Attachment 8**.

A copy of the application was mailed to the OCD district office, landowner, and all identified affected parties within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 8**.

Karst Analysis

In addition to the information formally requested as part of the C-108 application, ALL Consulting has included a Karst analysis as **Attachment 6** to address the identified concerns of permitting an SWD in a high-risk Karst area.

Attachments

Attachment 1:

- C-102
- Wellbore Diagram

Attachment 2: Area of Review Information:

- 2-Mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-Mile Lease Map
- 2-Mile Mineral Ownership Map
- 2-Mile Surface Ownership Map
- Potash Lease Map

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

- Water Well Map
- Well Data
- Water Sampling results

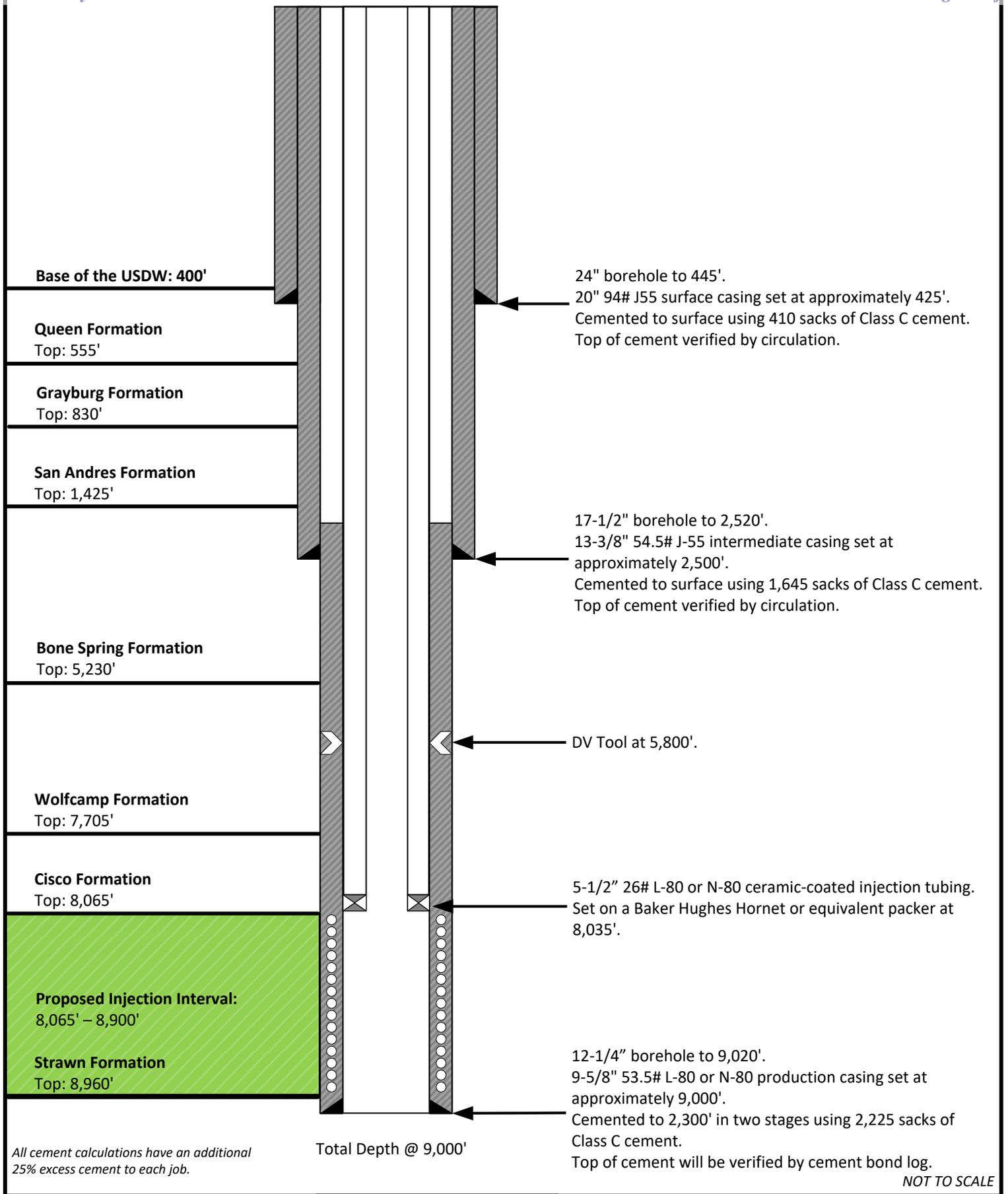
Attachment 6: Karst Analysis

Attachment 7: No Hydrologic Connection Statement

Attachment 8: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

- C-102
- Wellbore Diagram



All cement calculations have an additional 25% excess cement to each job.

Prepared by:

 Prepared for:


Drawn by: Daniel Arthur
Project Manager: Oliver Seekins
Date: 07/30/2023

Bandolier SWD #1
WaterBridge Stateline LLC
Sec. 18 Town. 20S Rng. 27E
Lat: 32.575243° Long: -104.327024° (NAD 83)

HORNET Packer

Product Family No. H64682

HORNET EL Packer

Product Family No. H64683

APPLICATION

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

Advantages

Upper Slip Assembly:

- Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
- Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
- Staged-release action eliminates high-overpull requirement
- Minimal set-down weight required to anchor slips

Internal Bypass Seal:

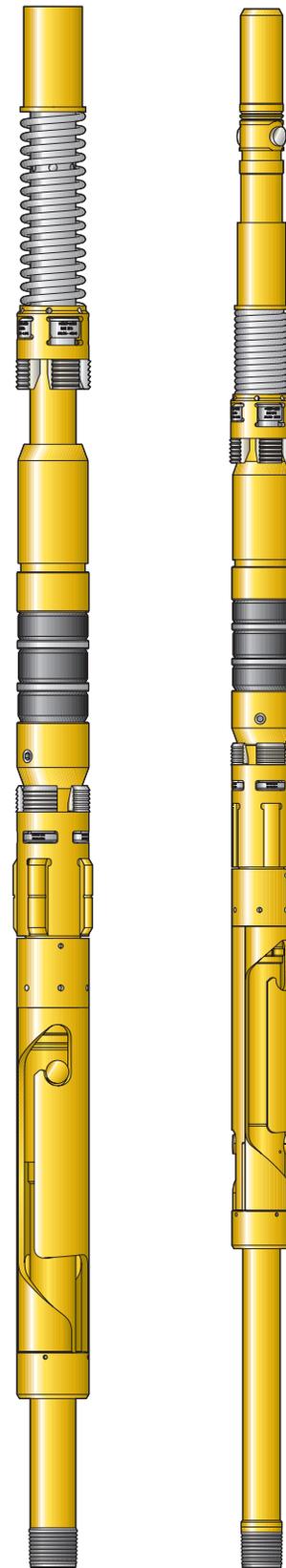
- Durable bypass seal design provides sealing after unloading, under differential pressures
- No O-ring sealing system

Packing Element System:

- Fully tested to combined ratings at the API's maximum ID tolerance
- Patented enhancements to control overboost
- High-performance, three-piece element system

Lower Slip and Jay Assembly:

- Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
- One-quarter-turn right setting and releasing action
- Packoff of packing elements with applied tension or compression
- Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
- Automatically returns to running position



HORNET Packer
Product Family
No. H64682

HORNET EL Packer
Product Family
No. H64683

Attachment 2

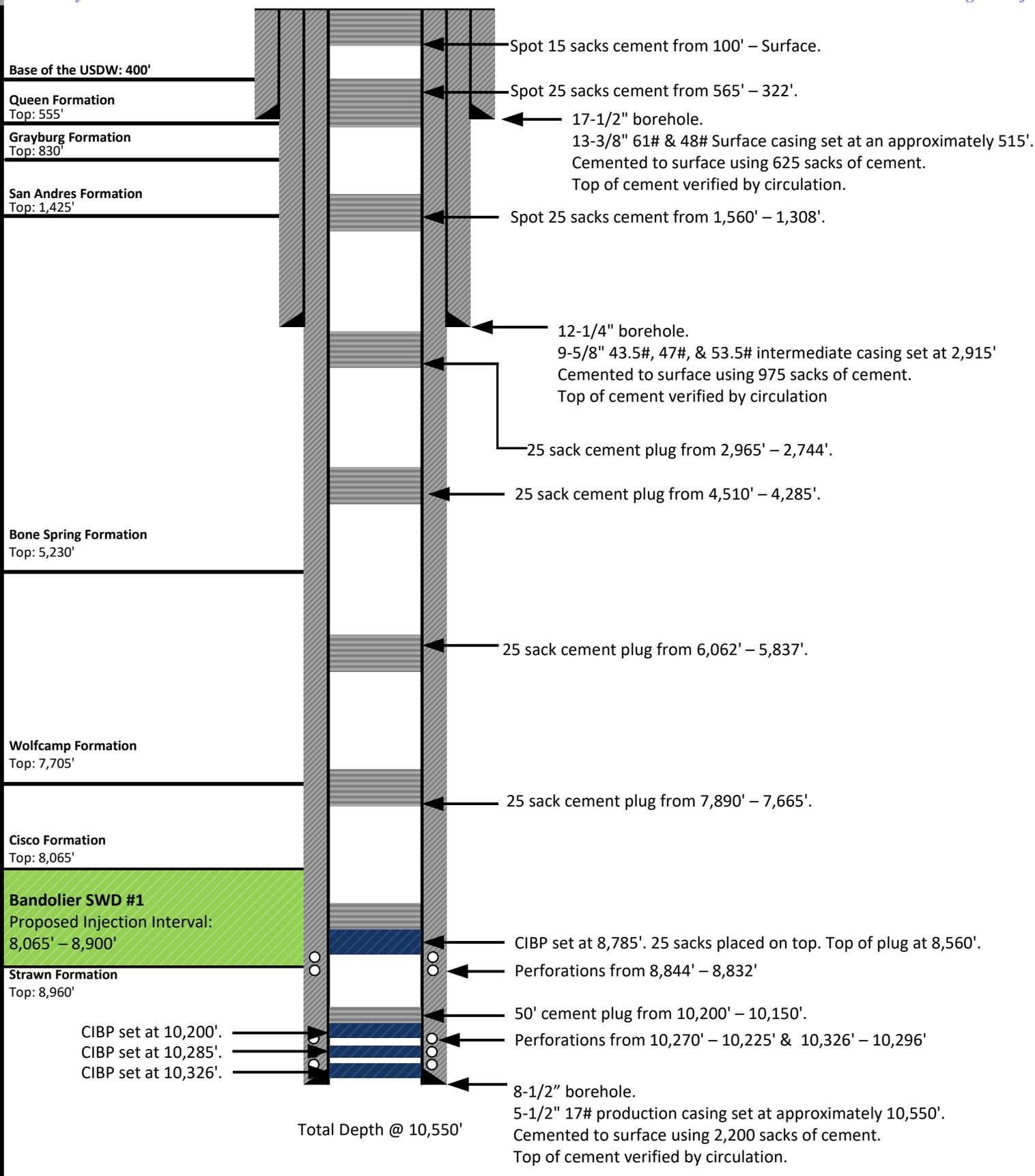
Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

AOR Tabulation for Bandolier SWD #1 (Top of Injection Interval: 8,065' - 8,900')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
KEYSTONE #001	30-015-01042	Plugged	MORRIS R. AN	9/9/1959	L-18-20S-27E	735	No
PECOS RIVER DEEP UNIT GAS COM #003	30-015-10432	Plugged	YATES DRILLING CO	11/8/1964	H-13-20S-26E	1976	No
HONDO SINGER C #001	30-015-10300	Plugged	OXY USA INC	7/9/1964	F-18-20S-27E	10399	Yes
DAVIS 18 #001	30-015-31365	Plugged	OXY USA INC	10/6/2000	D-18-20S-27E	10550	Yes
DAVIS 18 #002	30-015-31610	Plugged	OXY USA INC	2/15/2001	L-18-20S-27E	10550	Yes
COMMERCE #001	30-015-01043	Plugged	DOOLEY - DIXON	Unknown*	D-18-20S-27E	968	No
PECOS RIVER DEEP UNIT GAS COM #008	30-015-32510	Gas	OXY USA INC	2/10/2003	I-13-20S-26E	10588	Yes
GALVIN #001	30-015-05922	Plugged	YATES DRILLING CO	11/6/1950	A-13-20S-26E	2118	No

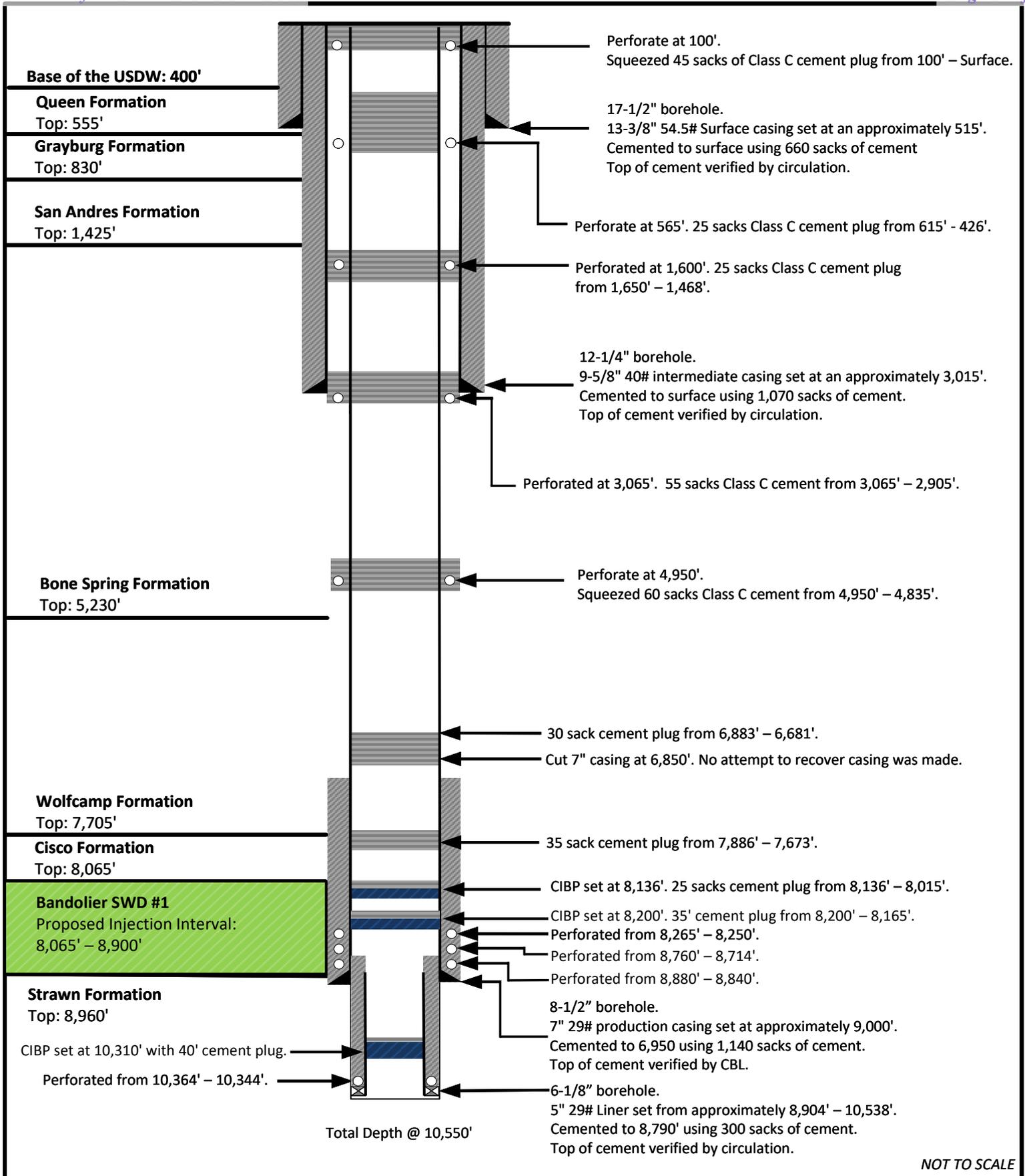
Notes: * Data not available from the NMOCD database (Well records or Well details).

Casing / Plugging Information for Wells Penetrating the Bandolier SWD #1 Injection Zone							
Well Name	Type	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
DAVIS 18 #001	Surface	515'	13.375"	Surface	Circulation	625	17.5"
	Intermediate	2915'	9.625"	Surface	Circulation	975	12.25"
	Production	10550'	5.5"	Surface	Circulation	2200	8.5"
	Plugging Details: CIBP @10,326', 10,285', & 10,200'. Plug set @10,200' - 10,150'. CIBP @8,785' with 25 sx on top (TOC @8,560'). Plugs set @7,890' - 7,665' with 25 sx, @6,062' - 5,837' with 25 sx, @4,510' - 4,285' with 25 sx, @2,965' - 2,744' with 25 sx, @1,560' - 1,308' with 25 sx, and @565' - 322' with 25 sx. Circulated 15 sx from 100' - surface.						
DAVIS 18 #002	Surface	515'	13.375"	Surface	Circulation	660	17.5"
	Intermediate	3015'	9.625"	Surface	Circulation	1070	12.25"
	Production	9000'	7"	6950'	CBL	1140	8.5"
	Liner	8904'-10538'	5"	8790'	Circulation	300	6.125"
Plugging Details: CIBP @ 10,310' with 40' plug on top (TOC @10,270'). CIBP @8,200' with 35' plug on top (TOC @8,165'). CIBP @8,136' with 25 sx on top (TOC @8,015'). Plug set @ 7,886' - 7,673' with 35 sx. Cut 7" casing @6,850'. Plug set @ 6,883' - 6,681' with 30 sx. Perfed and squeezed @4,950' - 4,835' with 60 sx, @3,065' - 2,905' with 55 sx, and 1,650' - 1,468' with 25 sx. Perf @565'. Plug set @615' - 426' with 25 sx. Perf and circulate @100' - surface with 45 sx.							
HONDO SINGER C #001	Surface	355'	13.375"	Surface	Circulation	370	17.5"
	Intermediate	2970'	9.625"	Surface	Circulation	816	12.25"
	Production	8889'	7"	7,908'	Calculated	125	8.75"
	Liner	8774'-10246'	4.5"	8774'	Calculated	50	6.25"
Plugging Details: CIBP @10,130' with 35' plug on top (TOC @10,095'). CIBP @8,935' with 35' plug on top (TOC @8,900'). CIBP @8,575' with 35 sx on top (TOC @8,354'). Plugs set @8,142' - 7,895' with 45 sx, @6,904' - 6,702' with 35 sx, @6,416' - 6,269' with 35 sx, @4,010' - 3,840' with 35 sx, @3,020' - 2,870' with 35 sx, @1,882' - 1,690' with 35 sx. Perfed and squeezed @405' - surface with 120 sx.							
PECOS RIVER DEEP UNIT GAS COM #008	Surface	420'	13.375"	Surface	Circulation	470	17.5"
	Intermediate	2915'	9.625"	Surface	Circulation	970	12.25"
	Intermediate II	9616'	7"	4000'	Temp Survey	1030	8.75"
	Production	10582'	4.5"	9,079'	Calculated	120	6.125"



Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>Davis 18 #001 Oxy USA Inc. API#: 30-015-31365 Sec. 18 Town. 20S Rng. 27E Lat: 32.5790° Long: -104.327° (NAD 83)</p>
	<p>Project Manager: Oliver Seekins</p>	
	<p>Date: 08/17/2023</p>	



NOT TO SCALE

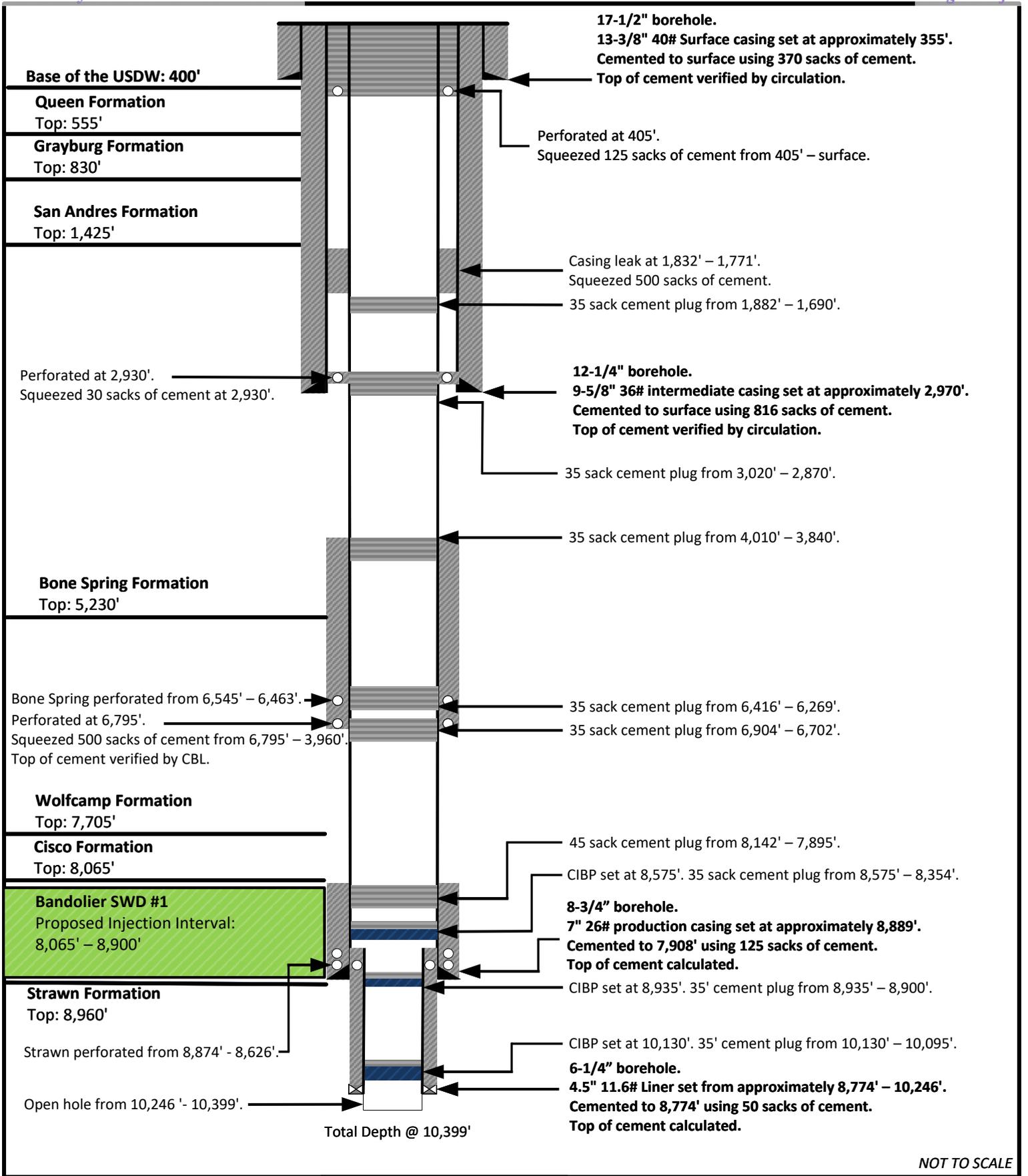
Prepared by:
ALLCONSULTING
Prepared for:
WATERBRIDGE

Drawn by: Daniel Arthur

Project Manager: Oliver Seekins

Date: 08/21/2023

Davis 18 #002
Oxy USA Inc.
API#: 30-015-31610
Sec. 18 Town. 20S Rng. 27E
Lat: 32.5713° Long: -104.3267° (NAD 83)

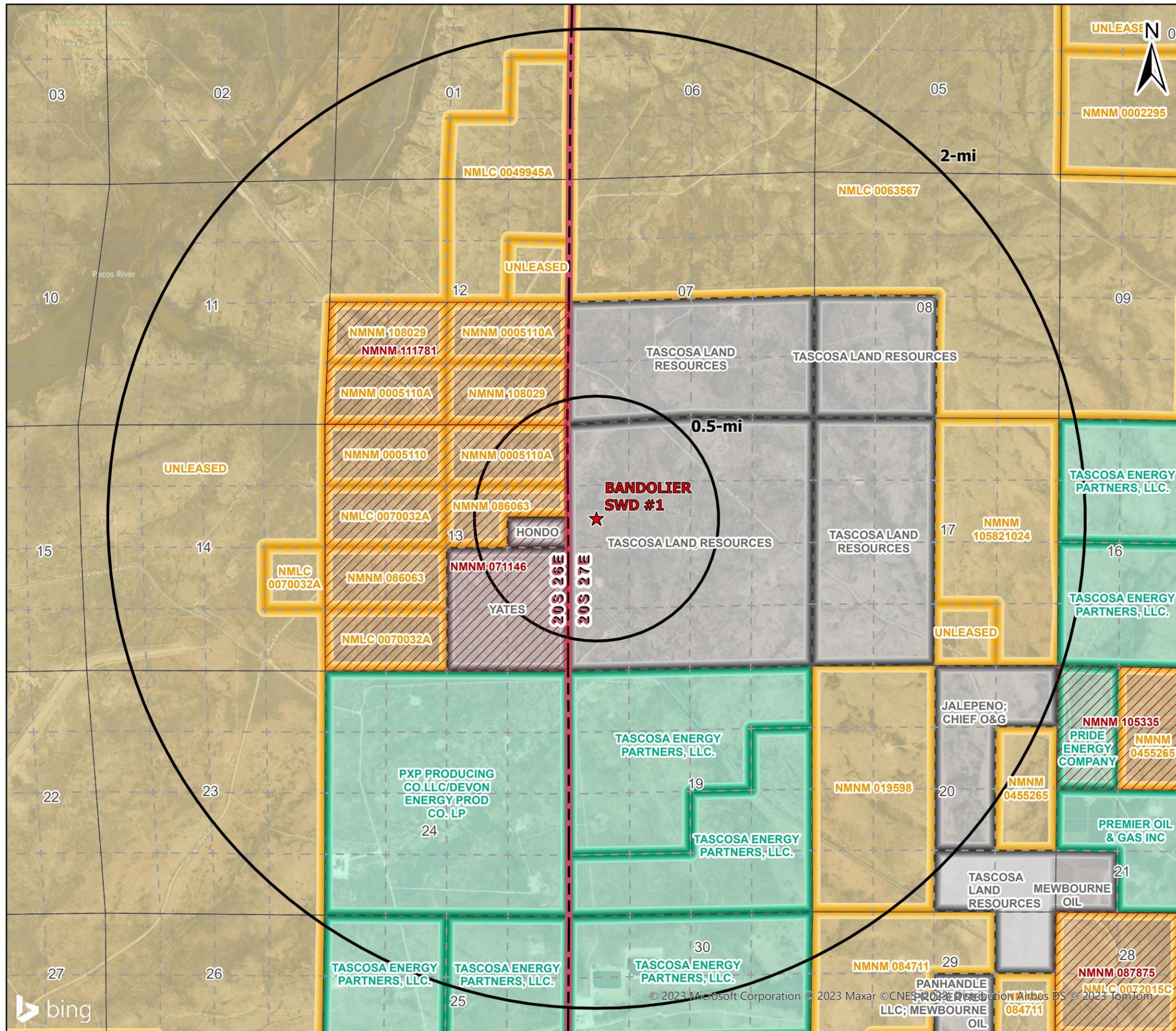


NOT TO SCALE

Prepared by:
ALLCONSULTING
Prepared for:
WATERBRIDGE

Drawn by: Reed Davis
Project Manager: Oliver Seekins
Date: 08/22/2023

Hondo Singer C #001
Oxy USA Inc.
API#: 30-015-10300
Sec. 18 Town. 20S Rng. 27E
Lat: 32.5755° Long: -104.3227° (NAD 83)



Legend

- ★ Proposed SWD
- BLM Communitization Units
- NMSLO Mineral Leases
- Private Mineral Leases
- BLM Mineral Leases

1/2-mile AOR Lessees/Unit Operators:

- Armstrong Energy Corp (BLM Lessee)
- Capstone Oil & Gas Co LP (BLM Lessee)
- COG Operating LLC (BLM Lessee)
- David H Essex (BLM Lessee)
- Gunsight LP (BLM Lessee)
- Hondo (Private Lessee)
- Javelina Partners (BLM Lessee)
- JC & JC Jr Thompson Ptnrshp (BLM Lessee)
- JKTS Corp (BLM Lessee)
- Oxy USA Inc (BLM Lessee/Unit Operator)
- Oxy Y-1 Co (BLM Lessee/Unit Operator)
- Penroc Oil Corp (BLM Lessee)
- Roca Expl Ltd (BLM Lessee)
- Sharbro Energy LLC (BLM Lessee)
- Sparco Producing Inc (BLM Lessee)
- Stelaron Inc (BLM Lessee)
- Tascosa Land Resources (Private Lessee)
- Westwood Lake Village Inc (BLM Lessee)
- Yates Industries LLC (BLM Lessee)
- Yates (Private Lessee)

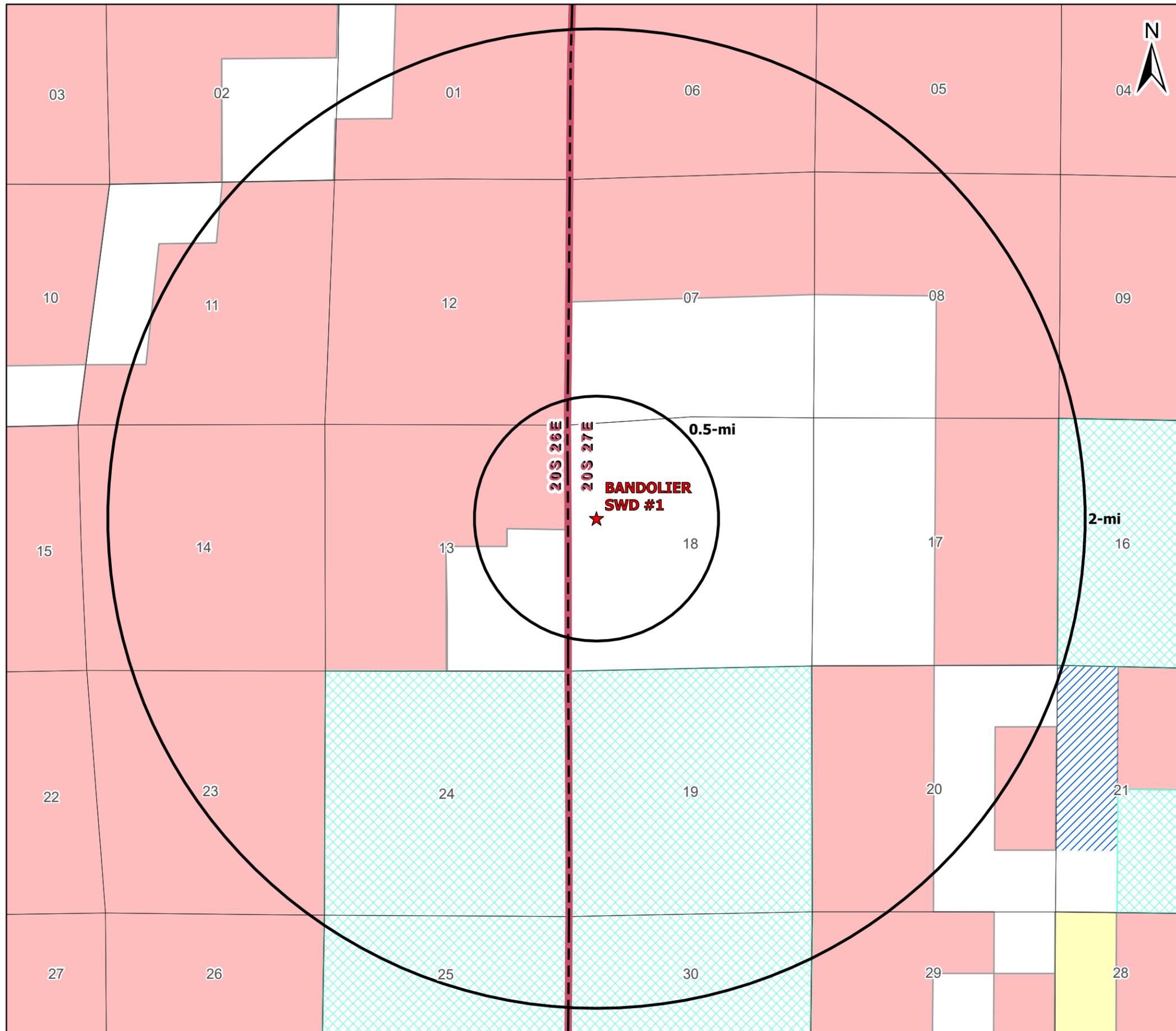
Source Info: BLM Mineral Leases (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>). NMSLO Mineral Leases (<http://www.nmstatelands.org/maps-gis/gis-data-download/>). Where applicable, Private Mineral Leases were identified utilizing Enverus, Midland Maps, or operator identified lease data.

Mineral Leases AOR

BANDOLIER SWD #1

Eddy County, New Mexico

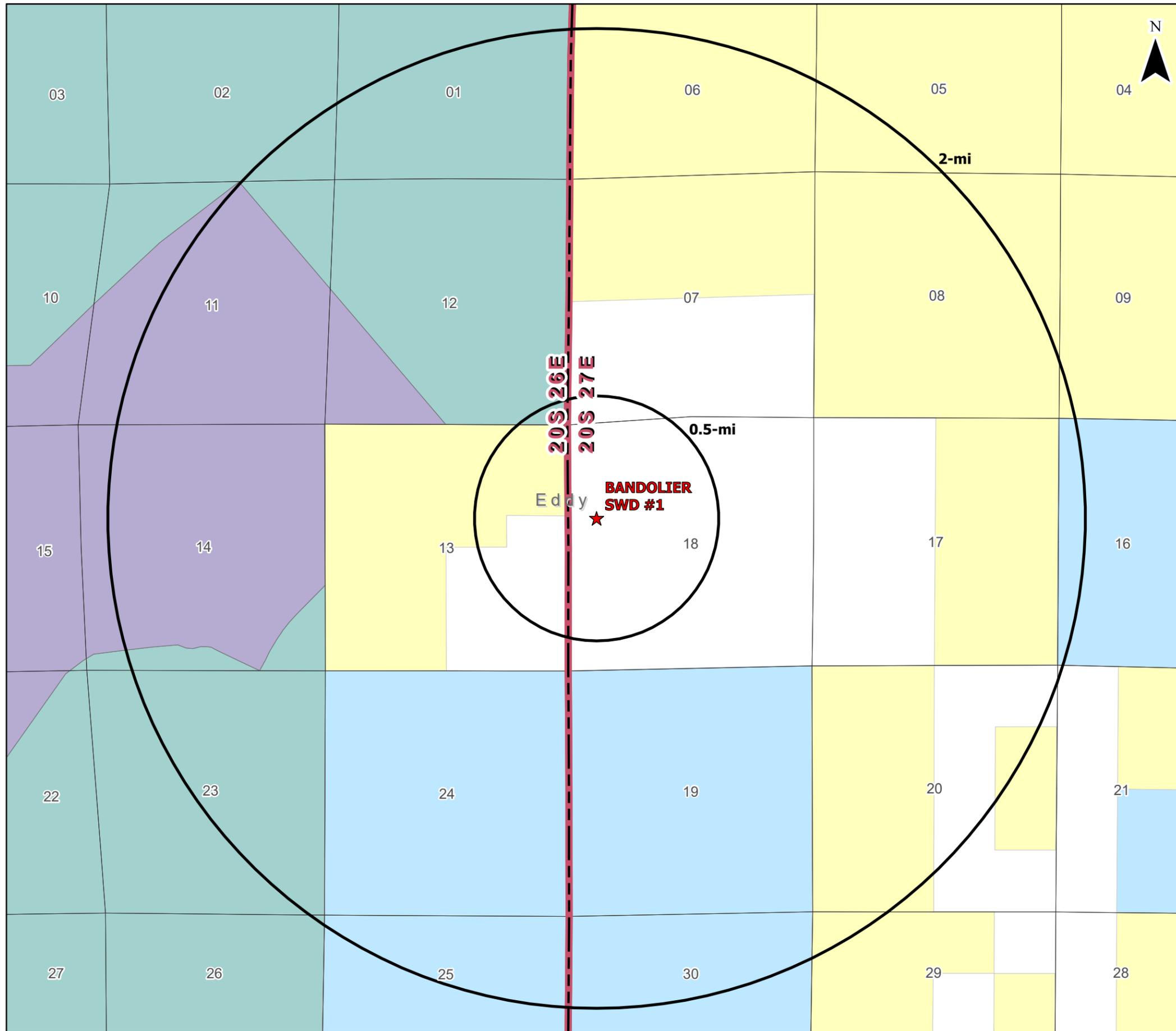
Proj Mgr: Oliver Seekins	August 15, 2023	Mapped by: Ben Bockelmann
Prepared by: WATERBRIDGE		Prepared by: ALLCONSULTING



Legend

- ★ Proposed SWD
- Private minerals
- ▨ Subsurface minerals (NMSLO)
- ▩ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)
- Only oil and gas are owned by the U.S. (BLM)

Mineral Ownership Area of Review		
BANDOLIER SWD #1 Eddy County, New Mexico		
Proj Mgr: Oliver Seekins	August 16, 2023	Mapped by: Ben Bockelmann
Prepared for: WATERBRIDGE	Prepared by: ALLCONSULTING	



Legend

★ Proposed SWD

Surface Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Private
- State
- State Park

**Surface Ownership
Area of Review**

BANDOLIER SWD #1

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

August 16, 2023

Mapped by:
Ben Bockelmann



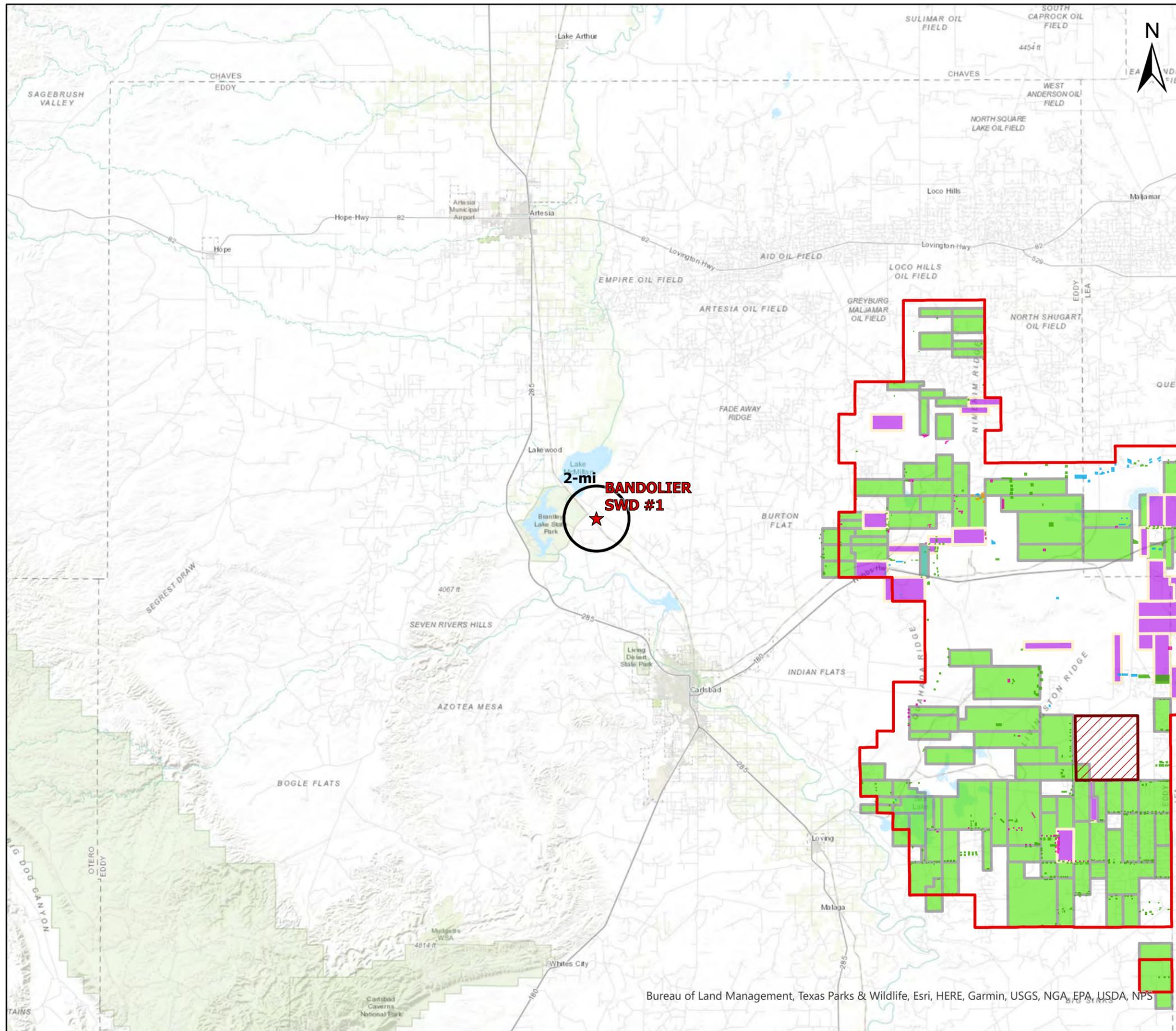
Prepared for:
WATERBRIDGE



Prepared by:

0 0.5 1 2 Miles

Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



Legend

★ Proposed SWD

□ SOPA 1986

▨ WIPP Facility

Drill Islands

Status, Depth Buffer

■ Approved, Half Mile

■ Approved, Quarter Mile

■ Nominated, Half Mile

■ Nominated, Quarter Mile

Development Areas

Status

■ Approved

■ Pending

■ Pending NMOCD Order

Potash Leases Area of Review		
BANDOLIER SWD #1 Eddy County, New Mexico		
Proj Mgr: Oliver Seekins	July 21, 2023	Mapped by: Ben Bockelmann
Prepared for: WATERBRIDGE		Prepared by: ALLCONSULTING

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

Source Info: BLM CFO Potash (https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

Attachment 3

Source Water Analysis

Source Water Analysis

WaterBridge Stateline LLC

Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
CHAPARRAL ST #002	3001503612	32.6227493	-104.1034851	32	19S	29E	D	660N	660W	EDDY	NM	BURTON NORTH	BONE SPRING	33,760	15,600	290	5,500
STONEWALL DS FEDERAL COM #002	3001521640	32.5426216	-104.1979904	29	20S	28E	J	1980S	1980E	EDDY	NM	AVALON	BONE SPRING	131,898	85,954	635	2,419
AGATE PWU 21 #008H	3001540512	32.63937	-104.088295	21	19S	29E	M	130S	50W	EDDY	NM		BONE SPRING 1ST SAND	-	162,925	549	290
JASPER 32 STATE COM #007H	3001540584	32.6235924	-104.0945587	32	19S	29E	B	340N	1875E	EDDY	NM		BONE SPRING 1ST SAND	213,293	134,925	-	603
DIAMOND PWU 22 #005H	3001540822	32.6514969	-104.0702057	22	19S	29E	D	725N	330W	EDDY	NM		BONE SPRING 1ST SAND	208,209	129,492	-	622
BURTON FLAT DEEP STATE FEDERAL COM #048H	3001540518	32.5435829	-104.1755981	28	20S	28E	I	2310S	400E	EDDY	NM		BONE SPRING 1ST SAND	187,017	109,200	695	-
CERF 10 FEDERAL #003H	3001541058	32.498394	-104.1872559	9	21S	27E	A	1275N	300E	EDDY	NM		BONE SPRING 1ST SAND	195,011	115,854	2,318	-
LONE TREE DRAW 13 STATE #011H	3001542084	32.4871941	-104.1449509	13	21S	27E	C	150N	2130W	EDDY	NM		BONE SPRING 1ST SAND	195,134	113,705	2,403	-
EMERALD PWU 20 #001H	3001538338	32.6525154	-104.1045456	20	19S	29E	D	400N	330W	EDDY	NM		BONE SPRING 2ND SAND	214,079	129,500	110	-
ONYX PWU 29 #003H	3001539373	32.6304665	-104.1045609	29	19S	29E	L	2145S	330W	EDDY	NM		BONE SPRING 2ND SAND	204,175	122,800	98	-
LONE TREE DRAW 13 STATE #007H	3001541650	32.4871902	-104.1454391	13	21S	27E	C	150N	1980W	EDDY	NM		BONE SPRING 2ND SAND	210,720	125,168	183	-
BURTON FLAT DEEP UNIT #054H	3001540503	32.5063286	-104.1687851	2	21S	27E	L	1570S	50W	EDDY	NM		BONE SPRING 2ND SAND	209,153	125,000	769	-
LONGBOARD PWU 20 #001H	3001540025	32.6494904	-104.1044693	20	19S	29E	E	1500N	355W	EDDY	NM		BONE SPRING 3RD SAND	76,582	45,756	-	930
TURQUOISE PWU 27 #010H	3001543321	32.63249412	-104.0721759	28	19S	29E	H	2382N	274E	EDDY	NM		BONE SPRING 3RD SAND	105,001	62,695	-	685
DIAMOND PWU 22 #011H	3001542809	32.64525903	-104.0718382	21	19S	29E	I	2295S	170E	EDDY	NM		BONE SPRING 3RD SAND	117,585	71,782	-	550
CONNIE C STATE #002	3001502301	32.6337662	-104.1241302	25	19S	28E	H	1980N	660E	EDDY	NM	OUTPOST	DELAWARE	55,498	32,420	601	984
SPIKE FEDERAL #001	3001527070	32.561882	-104.1288605	24	20S	28E	G	1650N	1980E	EDDY	NM	RUSSELL	DELAWARE	7,792	4,767	93	31
AVALON DELAWARE UNIT #262	3001524414	32.5386696	-104.2152328	30	20S	28E	O	560S	1980E	EDDY	NM	AVALON	DELAWARE	110,018	105,500	1,320	1,368
INDIAN FLATS BASS FEDERAL #005	3001522671	32.4303894	-104.0584564	35	21S	28E	N	330S	2310W	EDDY	NM	INDIAN FLATS	DELAWARE	144,959	95,968	200	1,883
INDIAN FLATS BASS FEDERAL #006	3001522673	32.4303932	-104.0561905	35	21S	28E	O	330S	2310E	EDDY	NM	INDIAN FLATS	DELAWARE	163,756	110,195	135	1,662
GOLDEN D FEDERAL #002	3001527060	32.488533	-104.004631	8	21S	29E	O	660S	1980E	EDDY	NM	GOLDEN LANE SOUTH	DELAWARE	242,051	173,806	282	782
ZINNIA BKC FEDERAL #001	3001527939	32.5462379	-104.0686035	27	20S	29E	E	1980N	910W	EDDY	NM	BURTON FLAT	DELAWARE/WOLFCAMP	189,739	116,724	427	750
LONE TREE DRAW 13 STATE COM #002H	3001540372	32.4871712	-104.1494293	13	21S	27E	D	150N	750W	EDDY	NM		DELAWARE-BRUSHY CANYON	207,014	127,509	183	1,724
BH MATLOCK #001	3001500109	32.6845169	-104.440567	1	19S	25E	N	660S	1980W	EDDY	NM		WOLFCAMP	20,306	10,360	1,829	940
ANGELL ST #004	3001502280	32.6479454	-104.1791229	21	19S	28E	G	1980N	1980E	EDDY	NM	MILLMAN EAST	WOLFCAMP	118,720	70,200	2,700	1,080
STATE AC COM #001	3001522299	32.5572166	-104.1806107	21	20S	28E	J	1980S	1980E	EDDY	NM	BURTON FLAT NORTH	WOLFCAMP	43,441	26,100	446	100
FED UNION #001	3001502416	32.5527229	-104.1623917	22	20S	28E	O	330S	1650E	EDDY	NM		WOLFCAMP	55,965	32,400	252	2,260

Attachment 4

Injection Formation Water Analysis

Injection Formation Water Analysis

WaterBridge Stateline LLC - Cisco Formation

Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
JENNY COM #001	3001526469	32.6635513	-104.5134354	17	19S	25E	E	1750N	660W	EDDY	NM	DAGGER DRAW	CISCO	-	46,850	183	13
DAGGER DRAW #002	3001500116	32.6299515	-104.5175476	30	19S	25E	I	1969S	629E	EDDY	NM	DAGGER DRAW	CISCO	7,858	-	-	-
JOHN AGU #002	3001526468	32.5792274	-104.5523987	14	20S	24E	A	660N	660E	EDDY	NM	DAGGER DRAW	CISCO	216,236	53,321	72,619	952
SPRING SWD #001	3001500129	32.5206604	-104.3944092	4	21S	25E	A	660N	830E	EDDY	NM	SEVEN RIVERS HILLS	CISCO	31,485	17,000	635	2,500
INDIAN BASIN #001	3001510093	32.4758987	-104.5762329	14	21S	23E	K	1650S	1650W	EDDY	NM	INDIAN BASIN	CISCO	8,531	3,238	846	1,700
MARATHON FEDERAL #001	3001510373	32.4613838	-104.5590591	24	21S	23E	K	1650S	1650W	EDDY	NM	INDIAN BASIN	CISCO	162,225	99,300	32	750

Attachment 5

- Water Well Map
- Well Data
- Water Sampling results



Legend

★ Proposed SWD

NMOSE PODs

Status

- Active (2)
- Pending (3)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

Water Wells Area of Review

BANDOLIER SWD #1

Eddy County, New Mexico

Proj Mgr:
Oliver Seekins

July 21, 2023

Mapped by:
Ben Bockelmann



Prepared for:
WATERBRIDGE



Prepared by:

Water Well Sampling Rationale

WaterBridge Stateline LLC - Bandolier SWD #1

Water Wells	Owner	Available Contact Information	Use	Location	Sampling Required	Notes
RA-05056	YATES DRILLING COMPANY (Now EOG Resources)	309 CARPER BLDG ARTESIA, NM 88210 505-748-1471 (Main)	PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE	13-20S-26E 32.578957, -104.331149	No	Permit only allowed use of well as permitted for one (1) year (1964-1965)
RA-10603	DAGGER DRAW RANCH, INC.	Michelle or Steve McCutcheon (505) 234-3690 or (505) 234-3798 P.O. BOX 1061 CARLSBAD, NM 88220	PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE	18-20S-27E 32.579851, -104.327956	Yes	Sampled on 4/27/22
RA-06478	YUCCA DRILLING CO.	P.O. BOX 798 ARTESIA, NM 88210 (No contact info in permit docs.)	PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE	18-20S-27E 32.572715, -104.319380	No	Expired permit (4/30/1980)
RA-10441	DBR LAND LLC	Dustin Droll (432) 218-5856 or (325) 656-3054 5555 SAN FELIPE ST, SUITE 1200 HOUSTON, TX 77056	DOMESTIC AND LIVESTOCK WATERING	07-20S-27E 32.583961, -104.317175	Yes	Sampled on 4/27/22
RA-08073	DBR LAND LLC	Dustin Droll (432) 218-5856 or (325) 656-3054 5555 SAN FELIPE ST, SUITE 1200 HOUSTON, TX 77056	LIVESTOCK WATERING	07-20S-27E 32.587472, -104.319301	Yes	Sampled on 4/27/22



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

May 13, 2022

OLIVER SEEKINS
ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA, OK 74119

RE: DAGGER DRAW SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/28/22 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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,

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RA - 08073	H221744-01	Water	27-Apr-22 00:00	28-Apr-22 08:25
RA - 10441	H221744-02	Water	27-Apr-22 00:00	28-Apr-22 08:25
RA - 10603	H221744-03	Water	27-Apr-22 00:00	28-Apr-22 08:25

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
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RA - 08073
H221744-01 (Water)

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

Inorganic Compounds

Alkalinity, Bicarbonate	415		5.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Chloride*	184		4.00	mg/L	1	2042824	AC	28-Apr-22	4500-Cl-B	
Conductivity*	3630		1.00	umhos/cm @ 25°C	1	2042828	GM	29-Apr-22	120.1	
pH*	7.06		0.100	pH Units	1	2042828	GM	29-Apr-22	150.1	
Temperature °C	20.0			pH Units	1	2042828	GM	29-Apr-22	150.1	
Resistivity	2.75			Ohms/m	1	2042828	GM	29-Apr-22	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	2042831	GM	02-May-22	SM 2710F	
Sulfate*	1850		500	mg/L	50	2042816	AC	28-Apr-22	375.4	
TDS*	3480		5.00	mg/L	1	2042907	AC	03-May-22	160.1	
Alkalinity, Total*	340		4.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
TSS*	<2.00		2.00	mg/L	1	2050209	AC	03-May-22	160.2	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Calcium*	620		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Hardness as CaCO3	1990		3.31	mg/L	5	[CALC]	AES	10-May-22	2340 B	
Iron*	<0.250		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Magnesium*	106		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Potassium*	18.9		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Sodium*	219		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Strontium*	10.5		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	

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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
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**RA - 10441
H221744-02 (Water)**

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

Inorganic Compounds

Alkalinity, Bicarbonate	205		5.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Chloride*	470		4.00	mg/L	1	2042824	AC	28-Apr-22	4500-Cl-B	
Conductivity*	4310		1.00	umhos/cm @ 25°C	1	2042828	GM	29-Apr-22	120.1	
pH*	7.33		0.100	pH Units	1	2042828	GM	29-Apr-22	150.1	
Temperature °C	19.7			pH Units	1	2042828	GM	29-Apr-22	150.1	
Resistivity	2.32			Ohms/m	1	2042828	GM	29-Apr-22	120.1	
Specific Gravity @ 60° F	1.003		0.000	[blank]	1	2042831	GM	02-May-22	SM 2710F	
Sulfate*	1970		500	mg/L	50	2042816	AC	28-Apr-22	375.4	
TDS*	3750		5.00	mg/L	1	2042907	AC	03-May-22	160.1	
Alkalinity, Total*	168		4.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
TSS*	<2.00		2.00	mg/L	1	2050209	AC	03-May-22	160.2	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Calcium*	732		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Hardness as CaCO3	2590		3.31	mg/L	5	[CALC]	AES	10-May-22	2340 B	
Iron*	0.289		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Magnesium*	186		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Potassium*	5.94		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Sodium*	296		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Strontium*	10.4		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	

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Analytical Results For:

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**RA - 10603
H221744-03 (Water)**

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

Inorganic Compounds

Alkalinity, Bicarbonate	20.0		5.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
Chloride*	140		4.00	mg/L	1	2042824	AC	28-Apr-22	4500-Cl-B	
Conductivity*	2980		1.00	umhos/cm @ 25°C	1	2042828	GM	29-Apr-22	120.1	
pH*	5.64		0.100	pH Units	1	2042828	GM	29-Apr-22	150.1	
Temperature °C	19.7			pH Units	1	2042828	GM	29-Apr-22	150.1	
Resistivity	3.36			Ohms/m	1	2042828	GM	29-Apr-22	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	2042831	GM	02-May-22	SM 2710F	
Sulfate*	1660		500	mg/L	50	2042816	AC	28-Apr-22	375.4	
TDS*	2730		5.00	mg/L	1	2042907	GM	02-May-22	160.1	
Alkalinity, Total*	16.0		4.00	mg/L	1	2040415	AC	29-Apr-22	310.1	
TSS*	10.0		2.00	mg/L	1	2050209	AC	03-May-22	160.2	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Calcium*	379		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Hardness as CaCO3	1490		3.31	mg/L	5	[CALC]	AES	10-May-22	2340 B	
Iron*	21.9		0.250	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Magnesium*	131		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Potassium*	14.0		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Sodium*	161		5.00	mg/L	5	B221186	AES	10-May-22	EPA200.7	
Strontium*	6.38		0.500	mg/L	5	B221186	AES	10-May-22	EPA200.7	

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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
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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 2040415 - General Prep - Wet Chem

Blank (2040415-BLK1)			Prepared & Analyzed: 04-Apr-22							
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (2040415-BS1)			Prepared & Analyzed: 04-Apr-22							
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	280	12.5	mg/L				80-120			
Alkalinity, Total	230	10.0	mg/L	250		92.0	80-120			

LCS Dup (2040415-BSD1)			Prepared & Analyzed: 04-Apr-22							
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120	4.37	20	
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120	4.26	20	

Batch 2042816 - General Prep - Wet Chem

Blank (2042816-BLK1)			Prepared & Analyzed: 28-Apr-22							
Sulfate	ND	10.0	mg/L							

LCS (2042816-BS1)			Prepared & Analyzed: 28-Apr-22							
Sulfate	20.0	10.0	mg/L	20.0		99.8	80-120			

LCS Dup (2042816-BSD1)			Prepared & Analyzed: 28-Apr-22							
Sulfate	20.1	10.0	mg/L	20.0		100	80-120	0.599	20	

Batch 2042824 - General Prep - Wet Chem

Blank (2042824-BLK1)			Prepared & Analyzed: 28-Apr-22							
Chloride	ND	4.00	mg/L							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
---	--	------------------------------

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 2042824 - General Prep - Wet Chem

LCS (2042824-BS1) Prepared & Analyzed: 28-Apr-22

Chloride	100	4.00	mg/L	100		100	80-120			
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LCS Dup (2042824-BSD1) Prepared & Analyzed: 28-Apr-22

Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
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Batch 2042828 - General Prep - Wet Chem

LCS (2042828-BS1) Prepared: 28-Apr-22 Analyzed: 29-Apr-22

Conductivity	104000		uS/cm	100000		104	80-120			
--------------	--------	--	-------	--------	--	-----	--------	--	--	--

pH	7.11		pH Units	7.00		102	90-110			
----	------	--	----------	------	--	-----	--------	--	--	--

Duplicate (2042828-DUP1) Source: H221744-01 Prepared: 28-Apr-22 Analyzed: 29-Apr-22

Conductivity	3650	1.00	umhos/cm @ 25°C		3630			0.549	20	
--------------	------	------	-----------------	--	------	--	--	-------	----	--

pH	7.12	0.100	pH Units		7.06			0.846	20	
----	------	-------	----------	--	------	--	--	-------	----	--

Resistivity	2.74		Ohms/m		2.75			0.549	20	
-------------	------	--	--------	--	------	--	--	-------	----	--

Temperature °C	19.8		pH Units		20.0			1.01	200	
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Batch 2042831 - General Prep - Wet Chem

Duplicate (2042831-DUP1) Source: H221744-01 Prepared: 28-Apr-22 Analyzed: 02-May-22

Specific Gravity @ 60° F	1.003	0.000	[blank]		1.004			0.131	20	
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Batch 2042907 - Filtration

Blank (2042907-BLK1) Prepared: 29-Apr-22 Analyzed: 02-May-22

TDS	ND	5.00	mg/L							
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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
---	--	------------------------------

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 2042907 - Filtration

LCS (2042907-BS1) Prepared: 29-Apr-22 Analyzed: 02-May-22

TDS	528		mg/L	500		106	80-120			
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Duplicate (2042907-DUP1) Source: H221744-01 Prepared: 29-Apr-22 Analyzed: 02-May-22

TDS	3410	5.00	mg/L		3480			2.23	20	
-----	------	------	------	--	------	--	--	------	----	--

Batch 2050209 - Filtration

Blank (2050209-BLK1) Prepared: 02-May-22 Analyzed: 03-May-22

TSS	ND	2.00	mg/L							
-----	----	------	------	--	--	--	--	--	--	--

Duplicate (2050209-DUP1) Source: H221744-01 Prepared: 02-May-22 Analyzed: 03-May-22

TSS	ND	2.00	mg/L		ND				52.7	
-----	----	------	------	--	----	--	--	--	------	--

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Analytical Results For:

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DAGGER DRAW SWD Project Number: NOT GIVEN Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 13-May-22 09:07
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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B221186 - Total Recoverable by ICP

Blank (B221186-BLK1)

Prepared: 06-May-22 Analyzed: 10-May-22

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

LCS (B221186-BS1)

Prepared: 06-May-22 Analyzed: 10-May-22

Strontium	2.07	0.100	mg/L	2.00		103	85-115			
Sodium	1.66	1.00	mg/L	1.62		103	85-115			
Potassium	4.10	1.00	mg/L	4.00		103	85-115			
Barium	1.03	0.050	mg/L	1.00		103	85-115			
Magnesium	10.4	0.100	mg/L	10.0		104	85-115			
Iron	2.07	0.050	mg/L	2.00		103	85-115			
Calcium	2.03	0.100	mg/L	2.00		101	85-115			

LCS Dup (B221186-BSD1)

Prepared: 06-May-22 Analyzed: 10-May-22

Iron	2.09	0.050	mg/L	2.00		105	85-115	1.35	20	
Potassium	4.11	1.00	mg/L	4.00		103	85-115	0.134	20	
Calcium	2.08	0.100	mg/L	2.00		104	85-115	2.63	20	
Sodium	1.66	1.00	mg/L	1.62		103	85-115	0.0281	20	
Barium	1.04	0.050	mg/L	1.00		104	85-115	0.868	20	
Strontium	2.09	0.100	mg/L	2.00		104	85-115	0.940	20	
Magnesium	10.6	0.100	mg/L	10.0		106	85-115	1.30	20	

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Notes and Definitions

- 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

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

Company Name: <u>All Consulting</u> Project Manager: <u>Oliver Seekins</u>		P.O. #: _____ Company: _____	
Address: <u>1718 S Cheyenne Ave</u> City: <u>Tulsa</u> State: <u>OK</u> Zip: <u>74119</u>		Attn: _____ Address: _____ City: _____ State: _____ Zip: _____	
Phone #: <u>918-382-7581</u> Fax #: _____ Project #: _____ Project Owner: _____		Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: <u>Dagger Draw SUD</u> Project Location: _____ Sampler Name: _____		PRESERV: _____ SAMPLING: _____	
FOR LAB USE ONLY			
Lab I.D. _____ Sample I.D. _____	(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	DATE _____ TIME _____	ANALYSIS REQUEST Cation/Anions ✓ Spec Gravity ✓ TSS ✓ T. Metals-Sr, Ba, Fe ✓ T. Hardness ✓ Resistivity ✓
HA01744 1 RA-08073 2 RA-10441 3 RA-10603	92 ✓ 111 ✓ 111 ✓	42723 1	✓ ✓ ✓ ✓ ✓ ✓
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Relinquished By: _____ Date: _____ Time: _____	Received By: _____ Date: <u>0825</u> Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Reinstated By: <u>Caeden Pitt</u> Date: _____ Time: _____	Received By: <u>Shock Riquint</u> Date: _____ Time: _____	REMARKS: <u>oseekins@all-llc.com</u> <u>nallenma@all-llc.com</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Observed Temp. °C: <u>-1.8°C</u> Corrected Temp. °C: <u>-2.3°C</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>SR</u> Turnaround Time: _____ Standard <input checked="" type="checkbox"/> <u>RUSH</u> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: _____

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Attachment 6

Karst Analysis



WATERBRIDGE STATELINE LLC – BANDOLIER SWD #1 RESPONSES TO HIGH-RISK KARST AREAS

Introduction

ALL Consulting (ALL) has been informed by the New Mexico Oil Conservation Division (OCD) that the proposed locations of Waterbridge Stateline LLC's (Waterbridge) Bandolier SWD #1 Class II saltwater disposal (SWD) well application are within the area OCD has designated as high-risk karst. **Figure 1** is the location of the proposed SWD. OCD has requested that ALL include additional information within these applications to address OCD's concerns with the high-risk karst area. This additional information needs to include:

1. An explanation on how ALL determined the deepest underground sources of drinking water (USDW);
2. An evaluation of the geology to determine that there was no direct evidence of karst features in the immediate area;
3. Provide an affirmative statement that the proposed well designs and confining zones will protect the USDW; and
4. Provide a detailed description of both the upper and lower confining zones above and below the proposed injection interval in the Cisco Formation.

Karst in Southeastern New Mexico

ALL has reviewed more recently published geologic publications on the Capitan Reef Complex and karst areas in southeastern New Mexico and then also examined the well completion records and the closest open hole geophysical logs to the proposed Bandolier SWD #1 well location. Anthropogenic sinkholes in the Permian salt beds of southeastern New Mexico are often associated with historic oilfield development due to improperly cased oil and water supply wells and salt-solution mining activity (Land 2013). Manmade sinkholes are caused by the dissolution of the salt beds in the Upper Permian Salado Formation by introduction of freshwater or groundwater into the salt beds. **Figure 2** shows the location of these sinkholes in southeastern New Mexico. Naturally occurring sinkholes are often associated with upward migration of groundwater flow from karstic aquifers of regional extent that underlie the Permian evaporite deposits (Land 2013). In the area of Dagger Draw, naturally occurring sinkholes in the Seven Rivers Formation are exposed along the eastern shore of Lake McMillan and are probably confined to a narrow band along the base of the McMillan Escarpment (Cox 1967).



Figure 1. Map Showing the Proposed Location of the Bandolier SWD #1

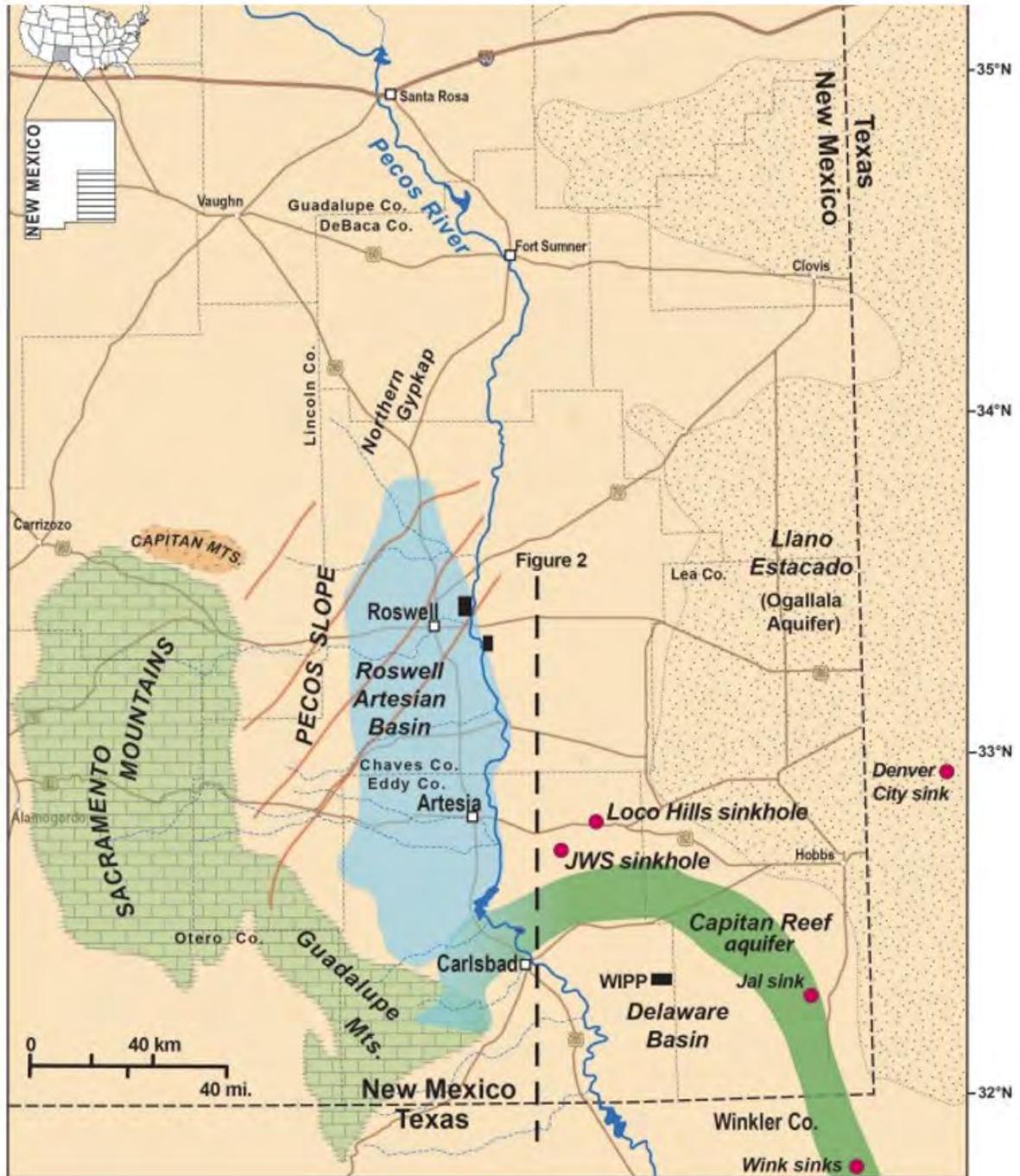


Figure 2. Regional Map of the Lower Pecos Region of Southeastern New Mexico Showing Location of Sinkholes (Land 2013)

Geology of the Dagger Draw Area

The surficial and shallow geology in the Dagger Draw area consists of the Yates Formation, Seven Rivers Formation, and Queen Formation of the Upper Permian Artesia Group. According to the snip of the surficial geologic map of Cox (1967), the surface geology of the area of the proposed Bandolier SWD #1 well location is the Yates Formation. **Figure 3** is a snip of this surficial geologic map showing the proposed SWD location in relation to the Yates Formation surface geology.

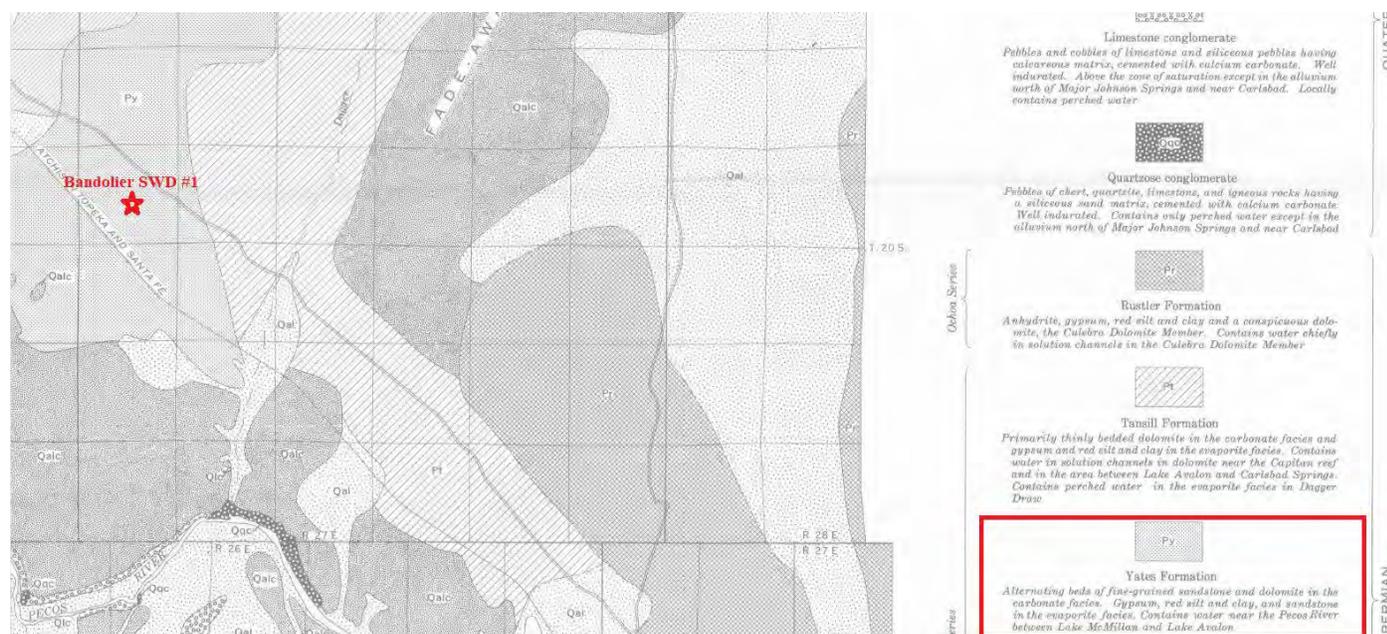


Figure 3. Map Showing the Surficial Geology of the Proposed SWD Location (Cox 1967)

Additionally, ALL evaluated and assessed the shallow geology in the area by reviewing open hole geophysical logs. Well API No. 015-10298, which is located just to the north of the Bandolier SWD #1 location, has a shallow gamma ray log section and ALL has identified the shallow geologic formations on this log snip in **Figure 4**.

The Yates Formation consists of about 300 feet of alternating beds of sandstone and dolomite in the carbonate facies and about the same thickness of gypsum, red clay, silt, and sandstone in the evaporite facies (Cox 1967). The Yates Formation yields water to stock wells near the Pecos River between Lake McMillan and Lake Avalon (Cox 1967). Most of these stock wells are in the evaporite facies of the Yates Formation near Rocky Arroyo west of the river and near Dagger Draw east of the Pecos River (Cox 1967). Underlying the Yates Formation is the Seven Rivers Formation. The Seven Rivers Formation consists of about 300 feet of dolomite with a few sandy beds in the carbonate facies and anhydrite, gypsum, red silt, and clay in the evaporite facies between the uppermost sandstone in the Queen Formation and the basal sandstone of the Yates Formation (Cox 1967). Groundwater moves through solution channels in the Yates Formation east of the Pecos River between Major Johnson Springs and Lake Avalon (Cox 1967).

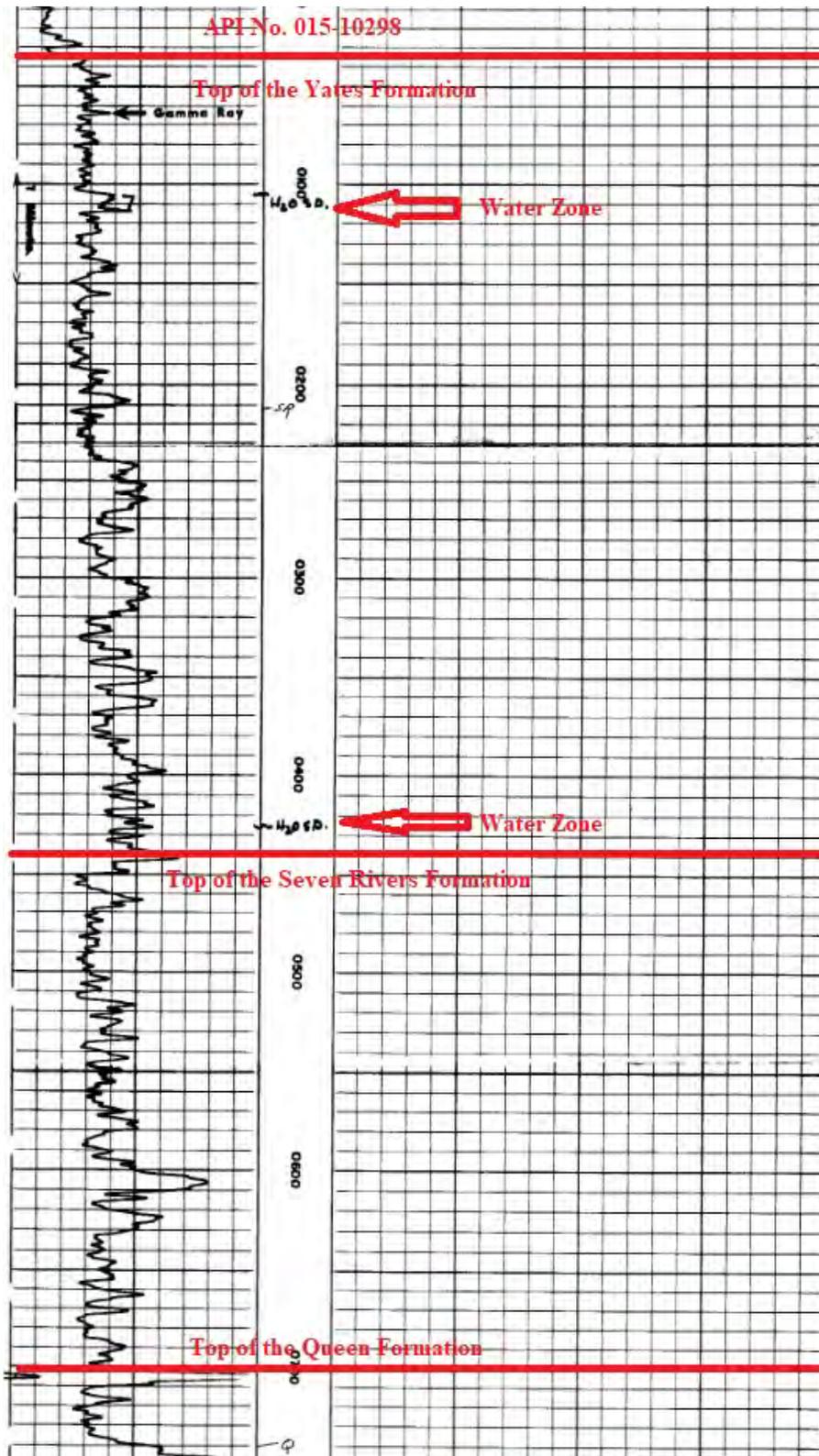


Figure 4. Gamma Ray Geophysical Log from Well API No. 015-10298 Showing the Tops of the Shallow Formations and Occurrence of Water Zones in the Well

Addressing OCD's High-Risk Karst Area Concerns

Based on ALL's extensive geologic and hydrogeologic evaluation of the Dagger Draw area and Bandolier SWD #1 proposed well location, below are ALL's responses to these OCD concerns.

1. An explanation on how ALL determined the deepest underground sources of drinking water (USDW).
 - a. **ALL determined the base of the USDW after geological and hydrogeological analysis and evaluation of several open hole geophysical logs and publications within the vicinity of the proposed SWD. Figure 4 shows locations of water zones within the Yates Formation. Figure 5 is a map showing the different groundwater zones and the location of the proposed SWD. Based on ALL's analysis, the base of the USDW will be the bottom of the Yates Formation and using the ground elevations of the proposed SWD the base of the USDW will be approximately 375 to 400 feet below the surface. ALL is proposing that Waterbridge set 20" surface casing to a depth of 425 feet and cement back to the surface to ensure isolation of the base of the USDW.**
2. An evaluation of the geology to determine that there was no direct evidence of karst features in the immediate area.
 - a. **ALL performed an extensive geologic and hydrogeologic assessment of potential high-risk karst in the immediate area of the proposed SWDs in the Dagger Draw. Based on the evaluation of published geologic and hydrogeologic reports and maps, the immediate area of the proposed SWDs does not look to be an area of risk for karst development. Additionally, ALL assessed Google Earth and scanned the immediate area for any evidence of active or inactive surface sinkholes and none were detected. Based on ALL's research on the published reports on the karst, the naturally occurring sinkholes were located farther to the west in the area of Lake McMillan. If during the drilling into the Seven River Formation, circulation is lost due to dissolution of evaporites or solution channels, a drilling mud program may be implemented along with the utilization of lost circulation material (LCM) as needed.**
3. Provide an affirmative statement that the proposed well designs and confining zones will protect the USDW.
 - a. **ALL's proposed well construction and cementing plans will provide multiple layers of protection of the USDW. The surface casing will be set 25 feet below the base of the USDW and cemented back to the surface. An intermediate casing string set into the top of the San Andres Formation and cemented back to the surface and then the production casing will be set through the proposed injection interval in the Cisco Formation and cemented back in two stages up into the intermediate casing string for approximately 200 feet. The well construction and cementing plan provide for three layers of isolation and protection of the USDW from any possible migration of injection fluids**

out of the proposed injection interval. There are multiple confining zones in both shale and in low porosity and low permeable carbonate rocks which will prevent upward migration of injected fluids. Additionally, there is at least 7,665 feet of vertical separation between the top of the Cisco Formation and the base of the USDW. There is no hydrologic connection between the Cisco injection interval and the USDW.

4. Provide a detailed description of both the upper and lower confining zones above and below the proposed injection interval in the Cisco Formation.
 - a. There are multiple shale beds that will serve as upper confinement above the top of the proposed injection interval in the Cisco Formation (Figure 6). Additional confining zones can be located farther above these zones on this open hole geophysical log for API No. 015-10298. There is lower confinement with shale beds at the base of the Cisco Formation (Figure 7) and with the low porosity and low permeability carbonate rocks directly below the Cisco Formation in the upper part of the Strawn Formation, which is also labeled on Figure 7. Both upper and lower confining zones will act as barriers to fluid flow out of the permitted Cisco Formation injection zone.

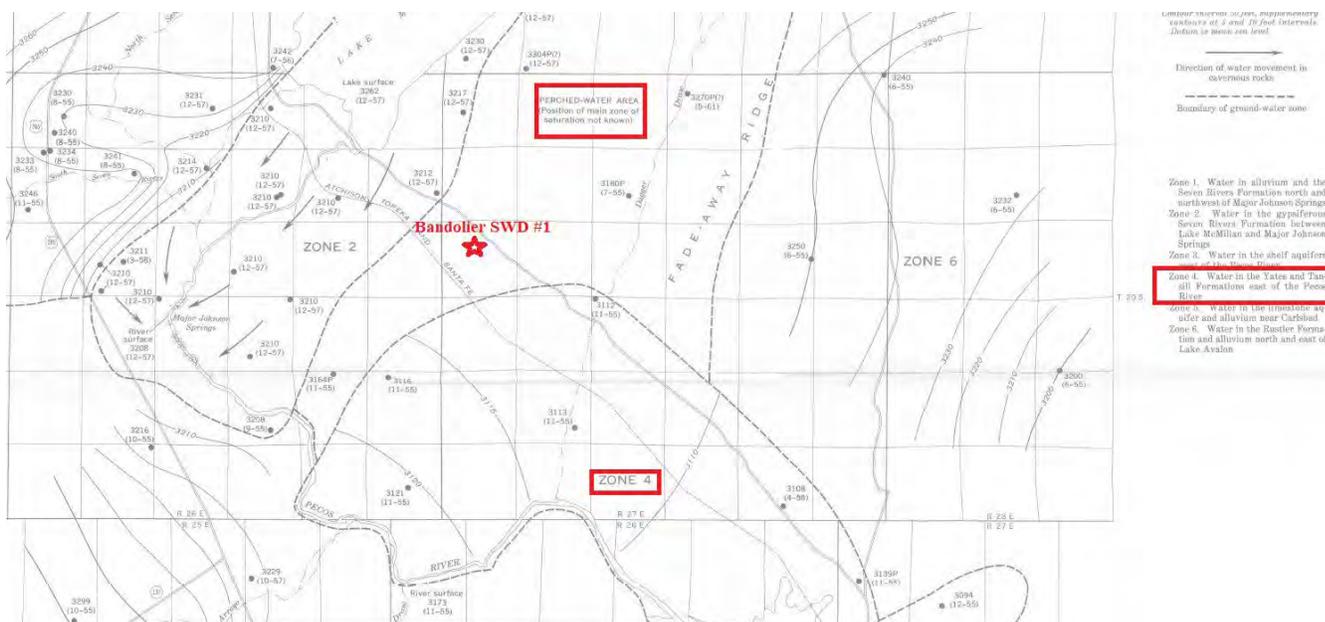


Figure 5. Map Showing the Location of the Proposed SWD in Relation to the Groundwater in the Permian Formations in the Immediate Area (Cox 1967)

References

Cox, E.R. 1967. "Geology and Hydrology Between Lake McMillan and Carlsbad Springs Eddy County, New Mexico." U.S. Geological Survey Water Supply Paper 1828, <https://pubs.usgs.gov/wsp/1828/report.pdf> (accessed June 9, 2022).;

Land, Lewis. 2013. "Evaporite Karst in the Permian Basin Region of West Texas and Southeastern New Mexico: The Human Impact." 13th Sinkhole Conference, NCKRI Symposium 2, www.researchgate.net/publication/313021019 (accessed June 9, 2022).

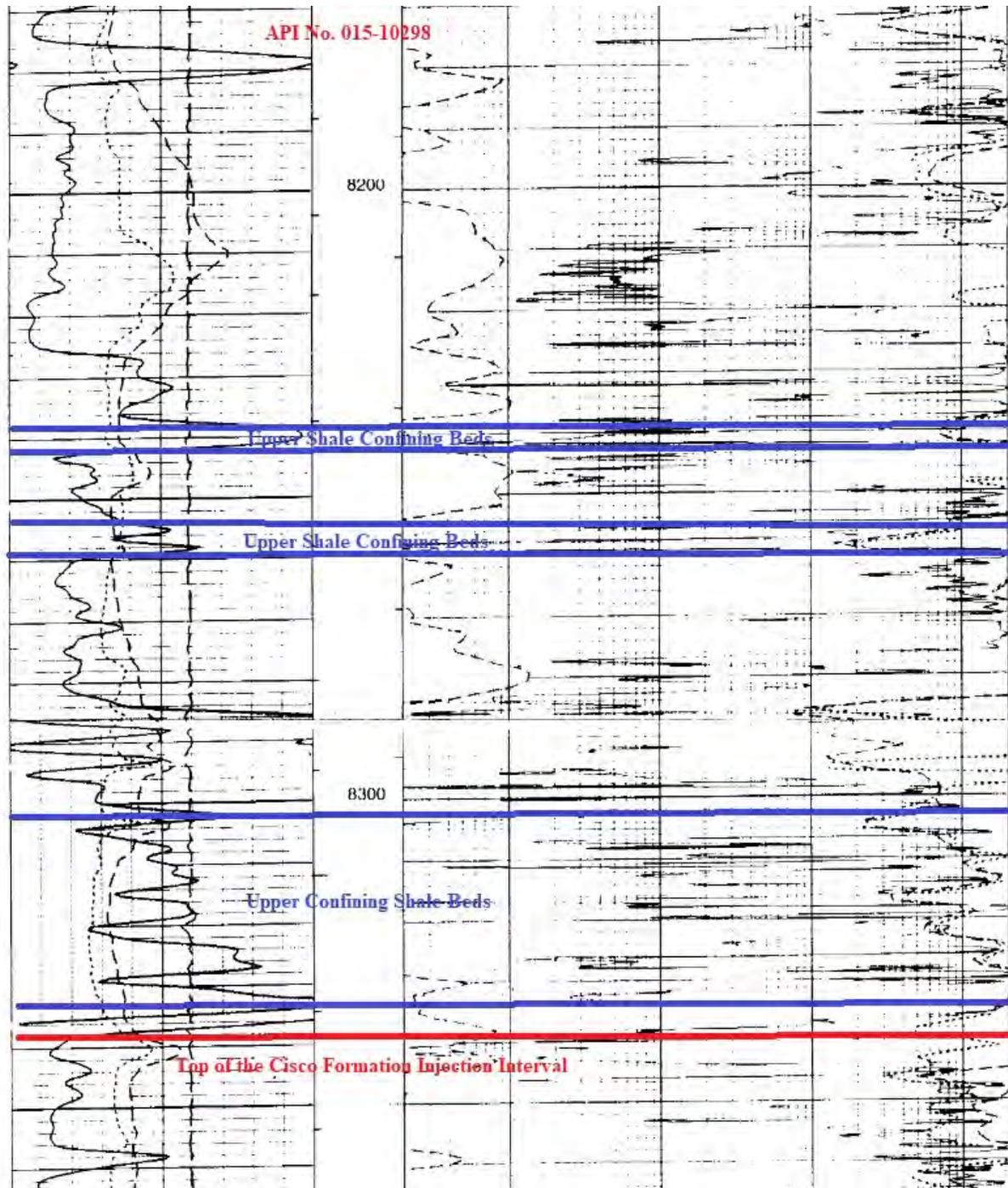


Figure 6. Open Hole Geophysical Log of API No. 015-10298 Showing the Upper Confining Zones for the Proposed Cisco Formation SWDs

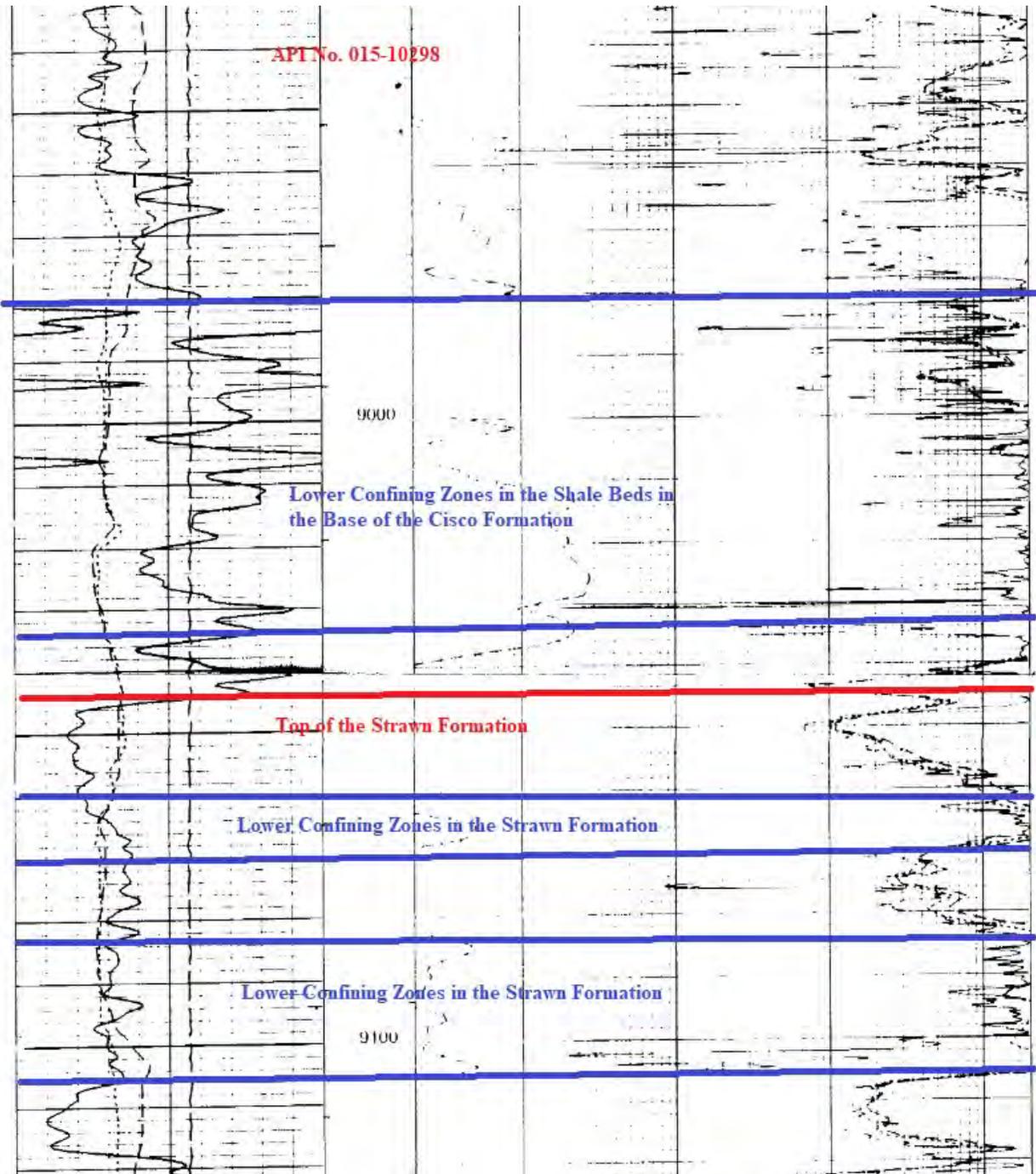


Figure 7. Lower Confining Zones at the Base of the Cisco Formation and Upper Strawn Formation in the Open Hole Geophysical Log for API No. 015-10298

Tom Tomastik

August 15, 2023

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

Certified Petroleum Geologist #6354

ALL Consulting, LLC



Attachment 7

No Hydrologic Connection Statement



RE: Waterbridge Operating LLC – Bandolier SWD #1 application, Eddy County, New Mexico

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the saltwater disposal well (SWD) listed above. The investigation was conducted to determine if there were any existing or potential connections between the proposed injection intervals in the Cisco Formation and the deepest underground source of drinking water (USDW).

ALL performed an assessment and analysis of the subsurface geophysical log data along with published documents on the groundwater in this vicinity of Eddy County, New Mexico. Based on ALL’s assessment and analysis there is containment through multiple confining zones above the Cisco Formation and the USDW and over 7,665 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of extensive faulting that would allow for communication between the USDW and the Cisco Formation.

Tom Tomastik

8/14/2023

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 8

Public Notice Affidavit and Notice of Application Confirmations

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That WaterBridge Stateline LLC, 5555 San Felipe, Suite 1200, Houston, TX 77056, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Bandolier SWD #1
Located 12.12 miles northwest of Carlsbad, NM
SW ¼ NW ¼ (LOT 2) Section 18, Township 20S, Range 27E
2,060 FNL & 622 FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Cisco (8,065' – 8,900')

EXPECTED MAXIMUM INJECTION RATE: 30,000 bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 1,613 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within 15 days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Oliver Seekins at 918-382-7581.

Carlsbad Current Argus.

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Affidavit of Publication

Ad # 0005791537

This is not an invoice

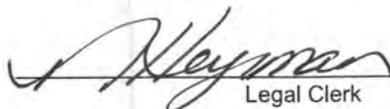
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1718 SOUTH CHEYENNE AVE

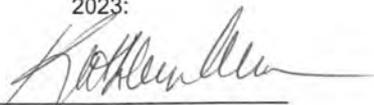
TULSA, OK 74119

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 in editions dated as follows:

08/10/2023


Legal Clerk

Subscribed and sworn before me this August 10, 2023:


State of WI, County of Brown
NOTARY PUBLIC

1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That WaterBridge Stateline LLC, 5555 San Felipe, Suite 1200, Houston, TX 77056, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Bandolier SWD #1
Located 12.12 miles northwest of Carlsbad, NM
SW ¼ NW ¼ (LOT 2) Section 18, Township 20S, Range 27E
2,060 FNL & 622 FWL
Eddy County, NM
Cisco (8,065' - 8,900')

EXPECTED MAXIMUM INJECTION RATE: 30,000 bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 1,613 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within 15 days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Oliver Seekins at 918-382-7581.
#0005791537, Current Argus, August 10, 2023

Ad # 0005791537
PO #: • PN:1703.SWD.01 – WaterBridge –
Bandolier SWD #1

Bandolier SWD #1 - Notice of Application Recipients						
Affected Party Classification	Entity - Proof of Notice	Entity - As Mapped/Exhibited	Address	City	State	Zip Code
Surface Owner / Mineral Owner	DBR Land, Limited Liability Company	DBR Land, LLC	840 Gessner RD, Suite 100	Houston	TX	77024
NMOC District Office	New Mexico Oil Conservation District 2	N/A	506 W Texas	Artesia	NM	88210
Unit Operator	Oxy Y-1 Company	Oxy Y-1 Co	5 Greenway Plz Ste 110	Houston	TX	77046
Unit Operator / Well Operator	Oxy USA Incorporated	Oxy USA Inc	P.O. Box 4294	Houston	TX	77210
BLM - Lessee	Armstrong Energy Corporation	Armstrong Energy Corp	P.O. Box 1973	Roswell	NM	88202
BLM - Lessee	Capstone Oil & Gas Company Limited Partnership	Capstone Oil & Gas Co LP	P.O. Box 10187	Midland	TX	79702
BLM - Lessee	COG Operating Limited Liability Company	COG Operating LLC	600 W Illinois Ave	Midland	TX	79701
BLM - Lessee	David H Essex	David H Essex	P.O. Box 50577	Midland	TX	79710
BLM - Lessee	Gunsight Limited Partnership	Gunsight LP	P.O. Box 1973	Roswell	NM	88202
BLM - Lessee	Javelina Partners	Javelina Partners	616 Texas St	Fort Worth	TX	76102
BLM - Lessee	JC & JC Jr Thompson Partnership	JC & JC Jr Thompson Ptnrshp	325 N St Paul #4500	Dallas	TX	75201
BLM - Lessee	JKTS Corporation	JKTS Corp	800 N Marienfeld #100	Midland	TX	79701
BLM - Lessee	Penroc Oil Corporation	Penroc Oil Corp	P.O. Box 2769	Hobbs	NM	88241
BLM - Lessee	Roca Exploration Limited	Roca Expl Ltd	P.O. Box 1981	Midland	TX	79702
BLM - Lessee	Sharbro Energy Limited Liability Company	Sharbro Energy LLC	P.O. Box 840	Artesia	NM	88211
BLM - Lessee	Sparco Producing Incorporated	Sparco Producing Inc	800 N Marienfeld #100	Midland	TX	79701
BLM - Lessee	Stelaron Incorporated	Stelaron Inc	P.O. Box 7787	Amarillo	TX	79114
BLM - Lessee	Westwood Lake Village Incorporated	Westwood Lake Village Inc	P.O. Box 7792	Waco	TX	76714
BLM - Lessee / Fee - Lessee	Yates Industries LLC	Yates Industries LLC, Yates	403 W San Fransisco Street	Santa Fe	NM	87501
Fee - Lessee	Hondo	Hondo	P.O. Box 2208	Roswell	NM	88201
Fee - Lessee	Tascosa Land Resources	Tascosa Land Resources	901 W Missouri Ave	Midland	TX	79701
BLM - Lessee / Fee - Lessee**	EOG Resources Incorporated	N/A	105 S 4th St	Artesia	NM	88210

Notes: The affected parties above received notification of this C-108 application.
****** EOG Resources Inc was notified because of its 2016 acquisition of Yates Petroleum Corporation

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HOUSTON TX 77046-0521

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MIDLAND TX 79701-4882

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JC & JC Jr. Thompson Partnership
325 N SAINT PAUL ST STE 4500
DALLAS TX 75201-3827

Penroc Oil Corporation
PO BOX 2769
HOBBS NM 88241-2769

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Sharbro Energy Limited Liability Co
PO BOX 840
ARTESIA NM 88211-0840

Stelaron Incorporated
PO BOX 7787
AMARILLO TX 79114-7787

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EOG Resources Incorporated
105 S 4TH ST
ARTESIA NM 88210-2177

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901 W MISSOURI AVE
MIDLAND TX 79701-6629

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Hondo
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ROSWELL NM 88202-2208

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WACO TX 76714-7795

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Sparco Producing Incorporated
800 N MARIENFELD ST STE 100
MIDLAND TX 79701-3382

Roca Exploration Limited
PO BOX 1981
MIDLAND TX 79702-1981

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JKTS Corporation
800 N MARIENFELD ST STE 100
MIDLAND TX 79701-3382

Javelina Partners
616 TEXAS ST
FORT WORTH TX 76102-4696

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David H. Essex
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MIDLAND TX 79710-0577

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Capstone Oil & Gas Company
Limited Partnership
PO BOX 10187
MIDLAND TX 79702-7187

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Oxy USA Incorporated
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HOUSTON TX 77210-4294

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New Mexico Oil Conservation
District 2
506 W TEXAS AVE
ARTESIA NM 88210-2041

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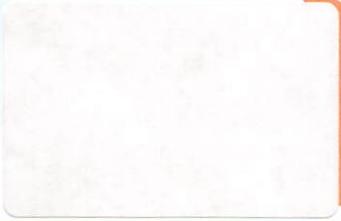
DBR Land
Limited Liability Company
840 GESSNER RD STE 100
HOUSTON TX 77024-4143

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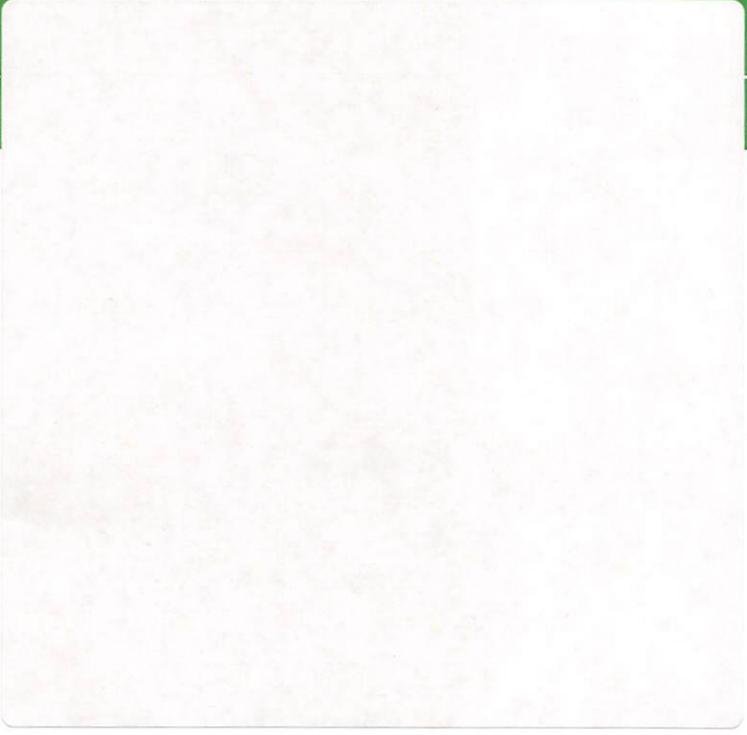
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Yates Industries, LLC
403 W SAN FRANCISCO ST
SANTA FE NM 87501-1836

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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) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 263489

CONDITIONS

Operator: WaterBridge Stateline LLC 5555 San Felipe Houston, TX 77056	OGRID: 330129
	Action Number: 263489
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	9/9/2023