AE Order Number Banner

Application Number: pAZS2302642212

SWD-2524

WaterBridge Stateline LLC [330129]

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

January 23, 2023

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

Subject: WaterBridge Stateline LLC – York Fed 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 York Fed SWD #1, a proposed saltwater disposal well, in Eddy County, NM.

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

Sincerely,
ALL Consulting

Nate Alleman
Sr. Regulatory Specialist

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

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: WaterBridge Stateline LLC **OGRID Number:** 330129
Well Name: York Fed SWD #1 **API:** Pending
Pool: SWD; Cisco **Pool Code:** 96099

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

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

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

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

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

Nathan Alleman
Print or Type Name

Nathan Alleman
Signature

01-23-2023
Date

918-382-7581
Phone Number

Nalleman@all-llc.com
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, Suite 1200, Houston, TX 77056**

CONTACT PARTY: **Nathan Alleman** 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: Nathan Alleman TITLE: Regulatory Specialist - Consultant

XV. SIGNATURE:  DATE: 01/23/2023

E-MAIL ADDRESS: Nalleman@all-ll.com

XVI. 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: York Fed 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: York Fed SWD #1
Location Footage Calls: 1,096' FNL & 1,800' FWL
Legal Location: Unit Letter C, S10 T20S R27E
Ground Elevation: 3,348'
Proposed Injection Interval: 8,515'- 9,500'
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	550'	560	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	9,600'	2,320	2,300'	CBL
Tubing	N/A	5-1/2"	26.0 lb/ft	8,495'	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 8,495'

(4) Packer Information: Baker Hughes Hornet or equivalent packer set at 8,495'

B.

(1) Injection Formation Name: Cisco
Pool Name: SWD; Cisco
Pool Code: 96099
(2) Injection Interval: Perforated injection between 8,515'- 9,500'
(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 (1,285')
- Bone Spring (5,810')
- Wolfcamp (8,175')

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

- Strawn (9,525')

V – Well and Lease Maps

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

- 2-mile Oil & Gas Well Map (With 2-mile and 0.5-mile AOR buffers)
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

VI – AOR Well List

There are no wells located within the 1/2-mile AOR, as shown by the 2-mile Oil & Gas Well Map 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**: 1,703 psi (surface)
Proposed Average Injection Pressure: approximately 1,277 psi (surface)
(4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Bone Spring, Delaware, and Wolfcamp 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 Bone Spring, Delaware, and Wolfcamp, 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 8,515'-9,500' 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 freshwater aquifer is the Yates formation at a depth of approximately 525 feet. Water well depths in the area range from approximately 145-160 feet below ground surface. The base of the USDW is approximately 525 feet.

Additional geologic information can be found in the Karst Analysis 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, one (1) groundwater well is located within 1-mile of the proposed SWD location. However, conversations with the water well owners, and an in-person investigation, have revealed that water well RA-08646 was permitted but never constructed. As such, no water well samples were collected.

A water well map, details of the water well within 1-mile, and any 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 leasehold operators 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 With (2-mile and 0.5-mile AOR buffers)
- 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

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	96099	SWD; Cisco

Property Code	Property Name	Well Number
	YORK FED SWD	1

OGRID No.	Operator Name	Elevation
330129	WATERBRIDGE STATELINE LLC	3348'

Surface Location

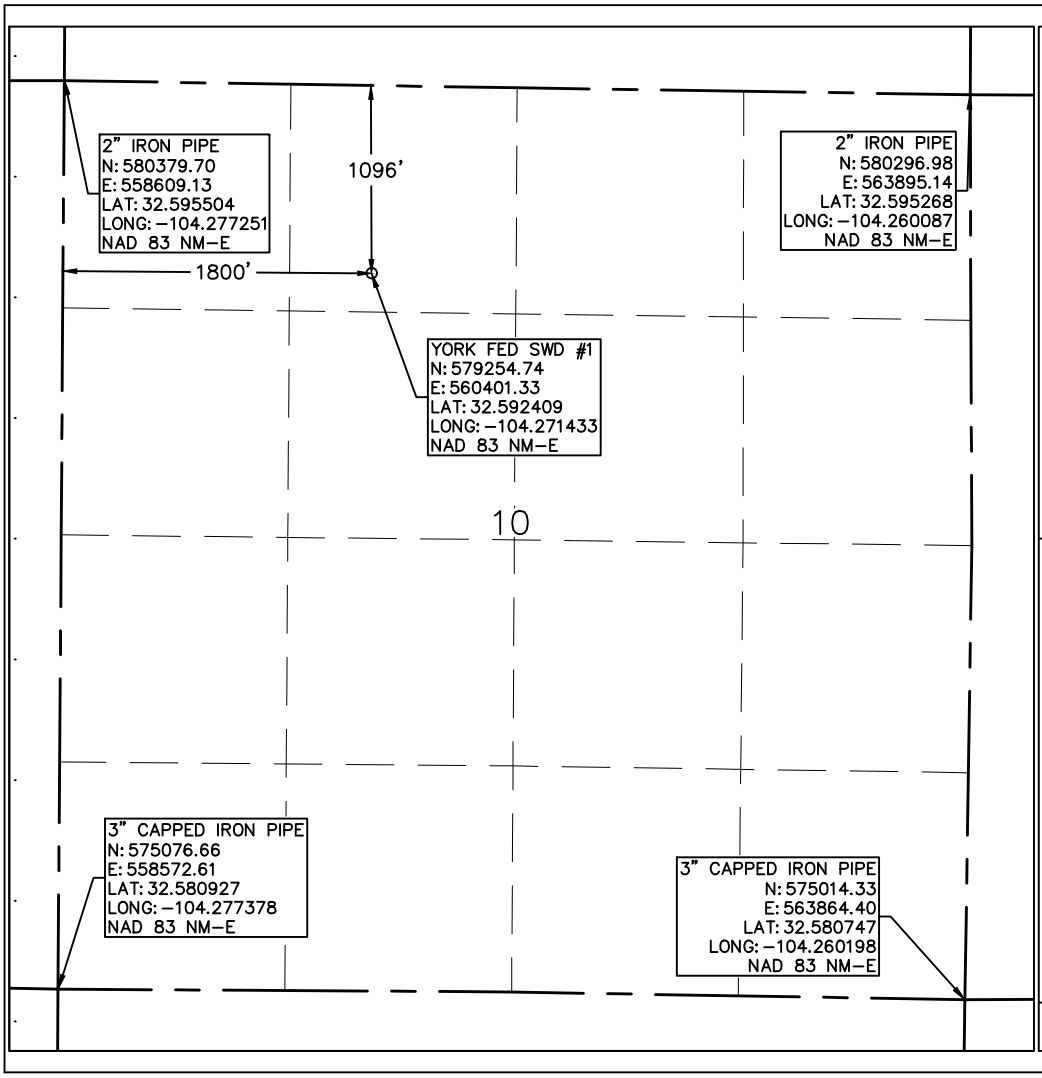
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	20 S	27 E		1096'	NORTH	1800'	WEST	EDDY

Bottom Hole Location If Different From Surface

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
5.739			

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Nathan Alleman — 11/10/2022
Signature — Date

Nathan Alleman
Printed Name

nalleman@all-llc.com
E-mail Address

SURVEYOR CERTIFICATION

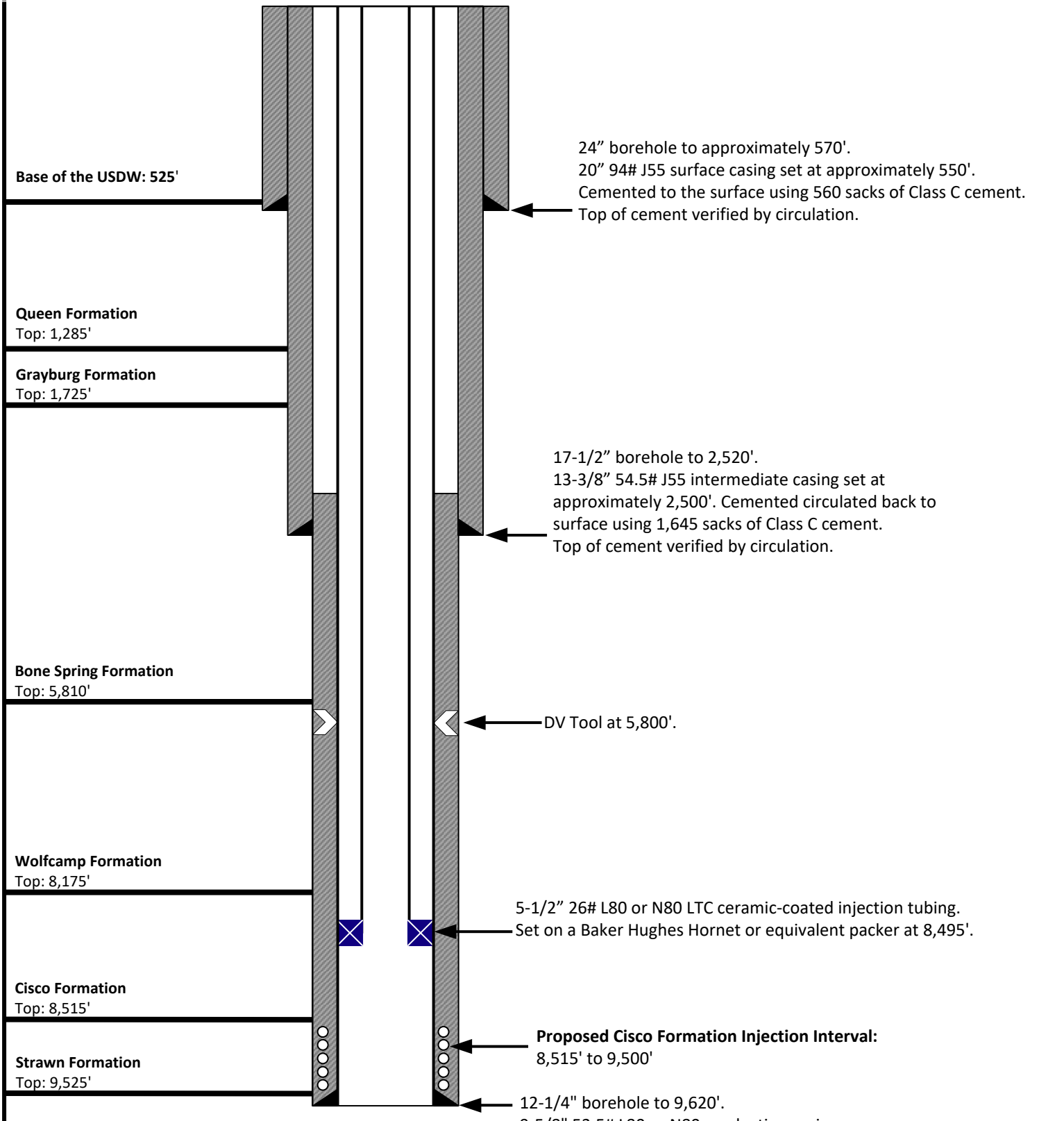
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

11/04/2022
Date of Survey

Signature and Seal of Professional Surveyor:

MATTHEW B. TOMERLIN
NEW MEXICO
23203
PROFESSIONAL SURVEYOR

Certificate Number
23203
MATTHEW TOMERLIN



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

Not to Scale

Prepared by:
ALL CONSULTING
Prepared for:
WATERBRIDGE

Drawn by: Joshua Ticknor

Project Manager:
Nathan Alleman

Date: 10/20/2022

York FED SWD #1
Proposed Wellbore Diagram
1,096' FNL 1,800' FWL
Sec. 10 T20S R27E
Eddy County, New Mexico
Lat: 32.592409°, Long: -104.271433°

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:

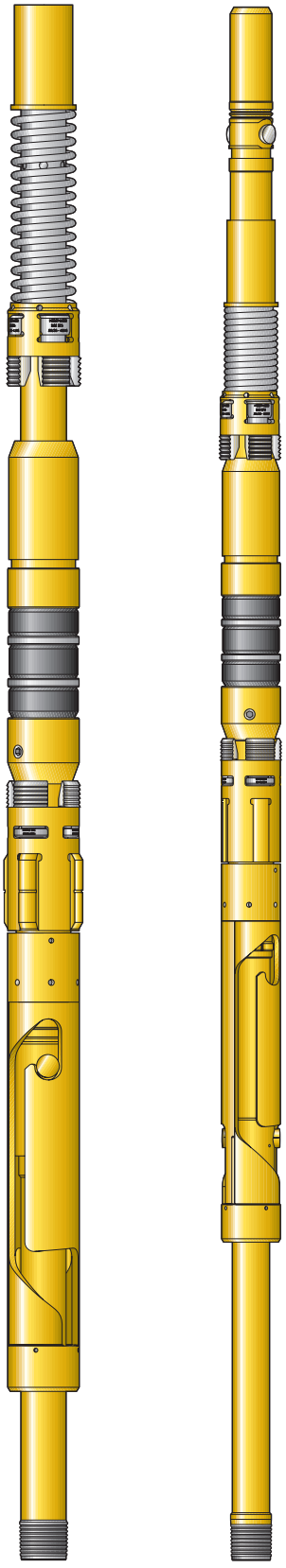
- Durable bypass seal design provides sealing after unloading, under differential pressures
- No O-ring sealing system

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



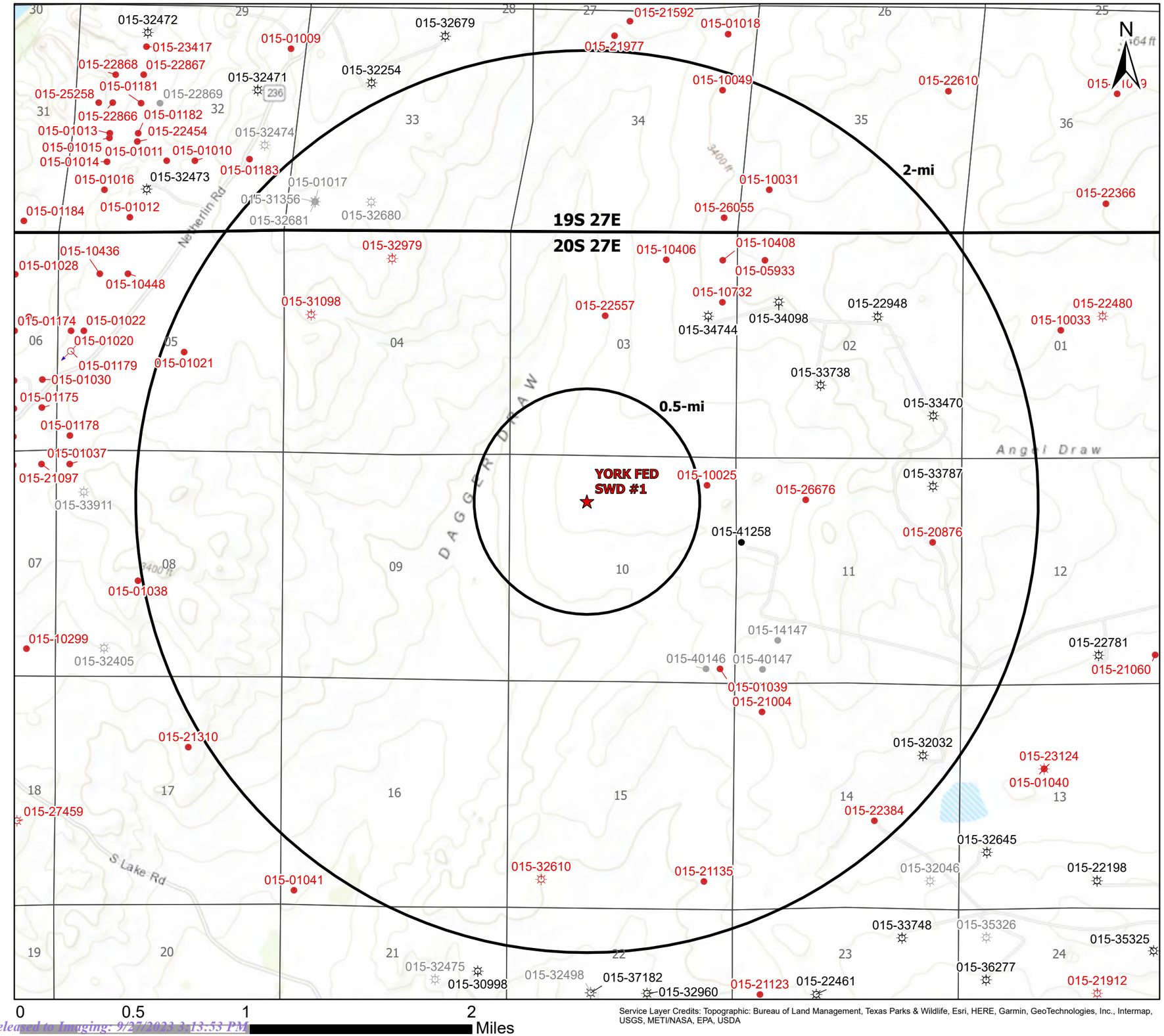
HORNET Packer
Product Family No. H64682

HORNET EL Packer
Product Family No. H64683

Attachment 2

Area of Review Information:

- 2-mile Oil & Gas Well Map (With 2-mile and 0.5-mile AOR buffers)
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



Legend

- Proposed SWD (1)
- Gas, Active (23)
- Gas, Cancelled (10)
- Gas, Plugged (7)
- Injection, Plugged (1)
- Oil, Active (1)
- Oil, Cancelled (5)
- Oil, Plugged (64)

Service Layer Credits: Topographic: Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, METI/NASA, EPA, USDA

Source Info: NMOCD O&G Wells updated 7/25/2022 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/l)

O&G Wells Area of Review

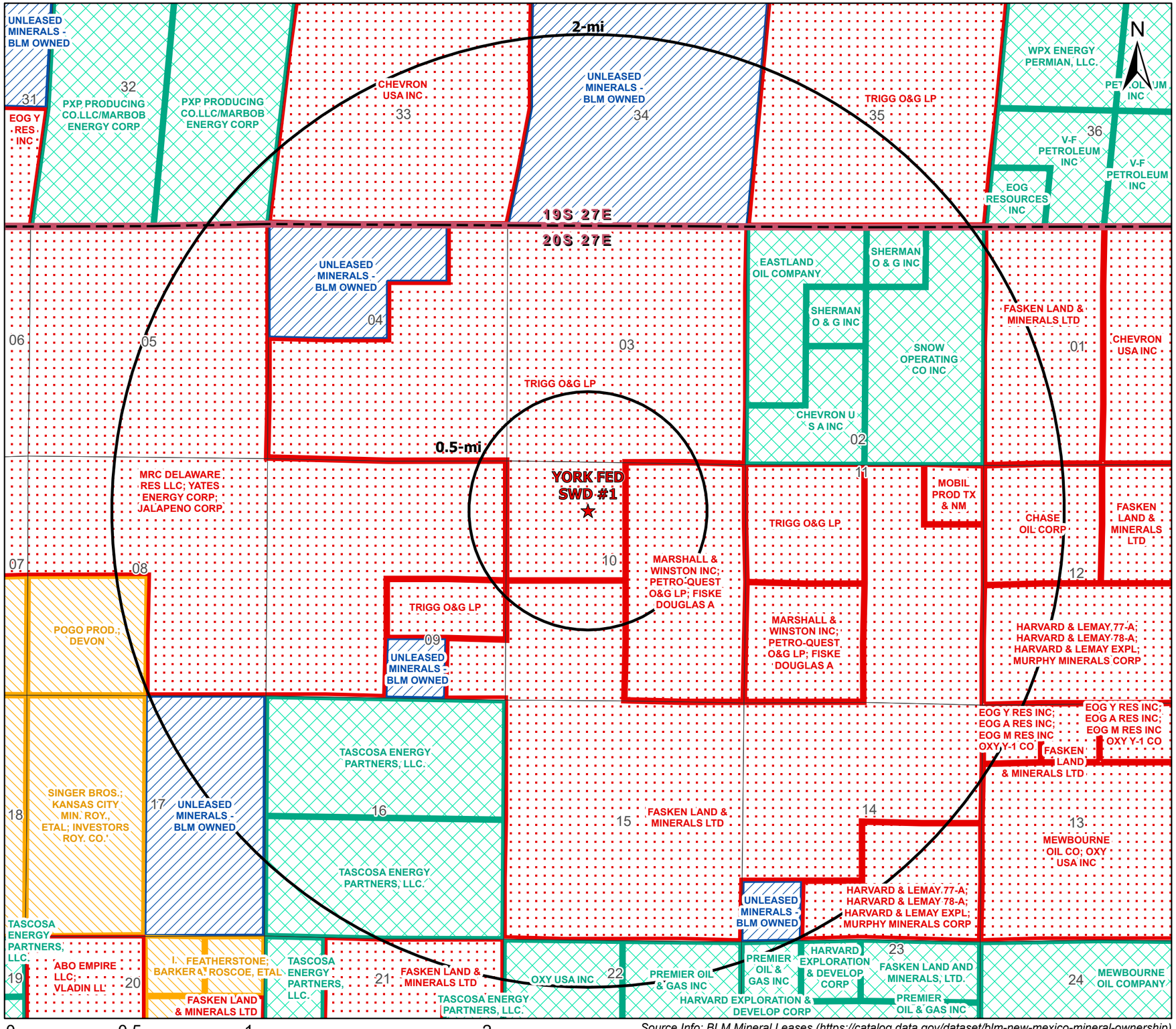
YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING



Legend

- Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases
- Unleased Minerals/Unknown - Private Owned
- Unleased Minerals - BLM Owned

Source Info: BLM Mineral Leases (https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership) & NMSLO O&G Leases (http://www.nmstatelands.org/maps-gis/gis-data-download/)

Mineral Lease Area of Review

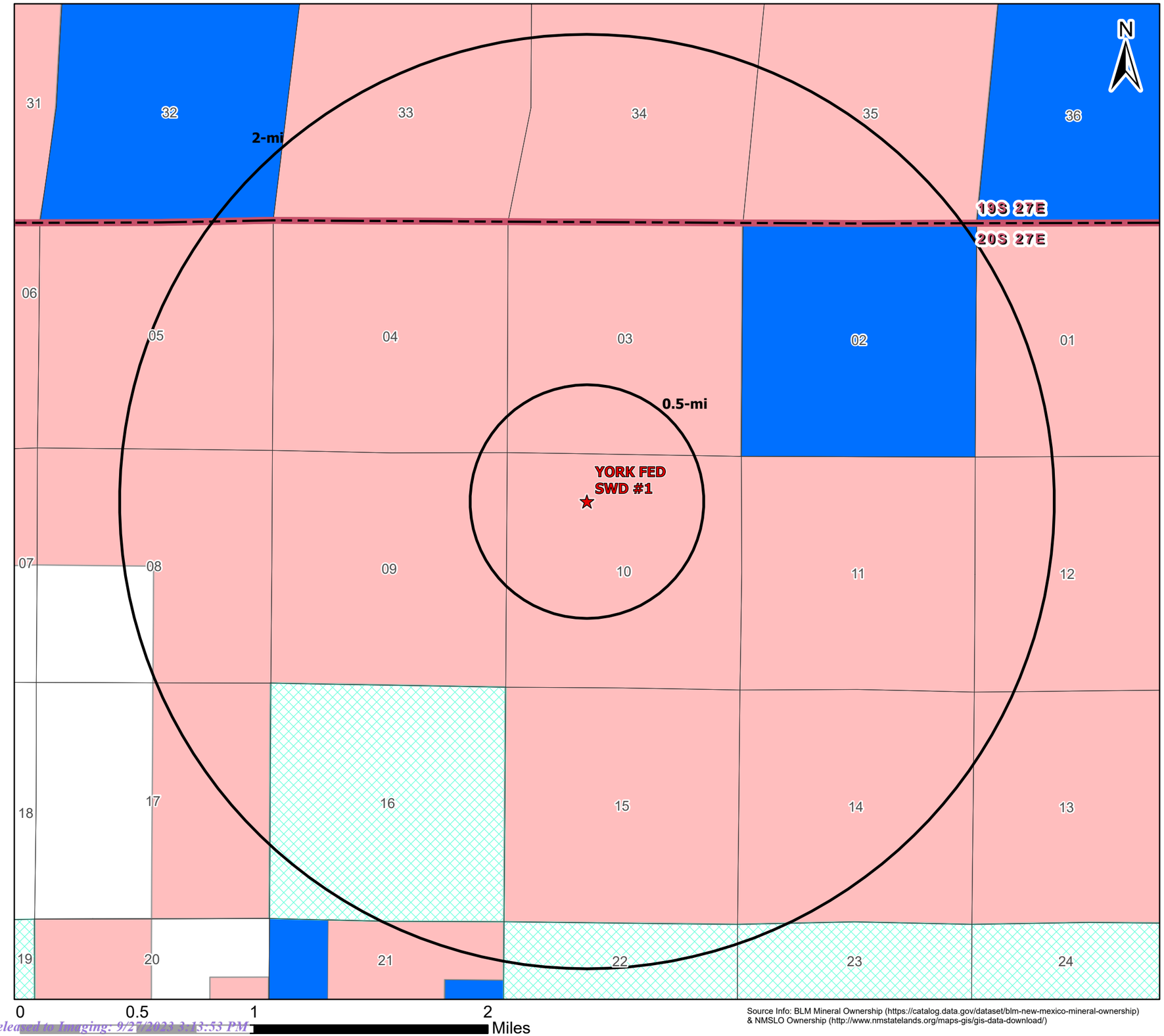
YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING



Legend

- Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

Source Info: BLM Mineral Ownership (https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership) & NMSLO Ownership (http://www.nmstatelands.org/maps-gis/gis-data-download/)

Mineral Ownership
Area of Review

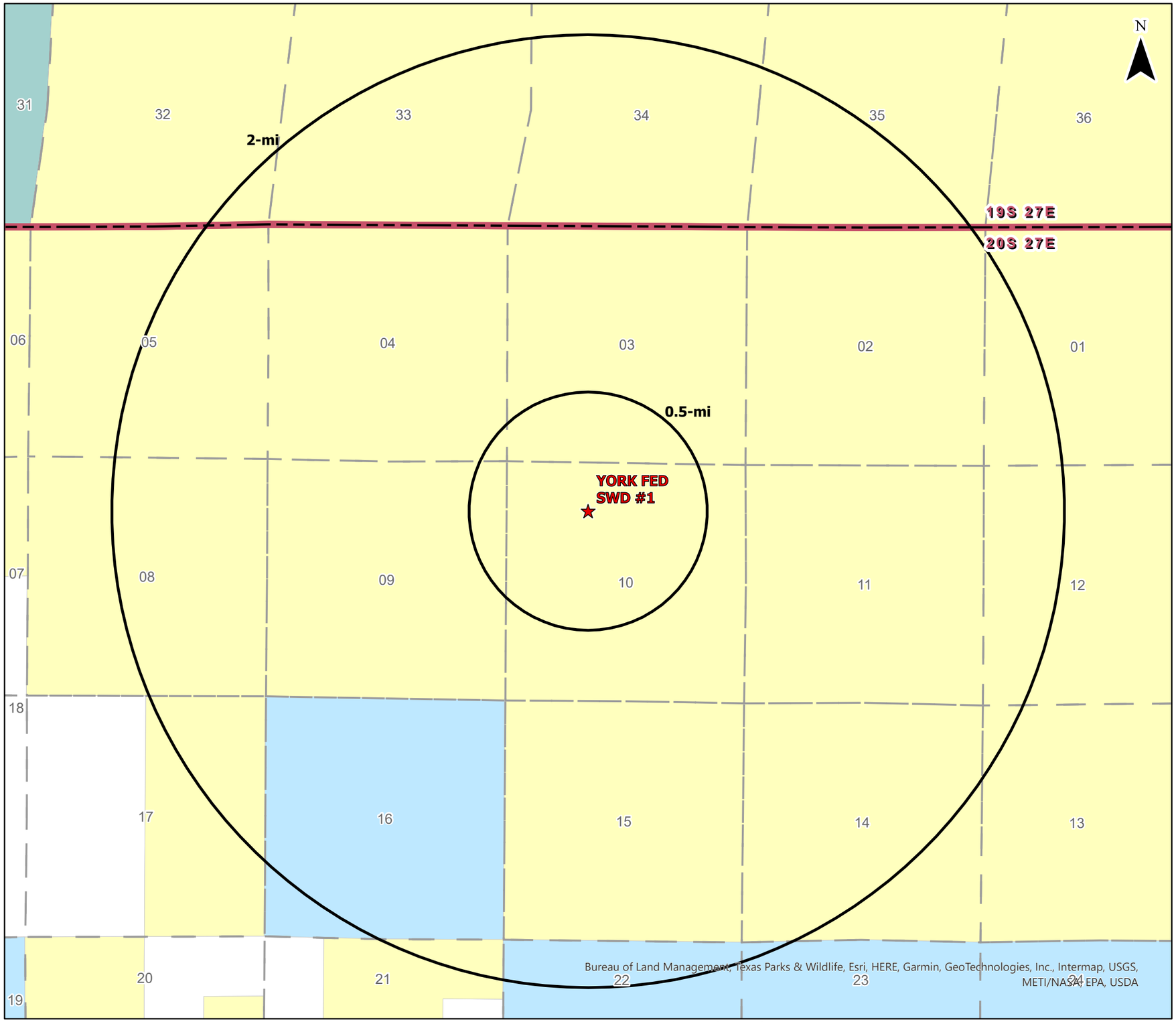
YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING



Legend

- Proposed SWD

Surface Ownership

- BLM (4)
- BOR (1)
- Private (3)
- State (3)

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

Surface Ownership
Area of Review

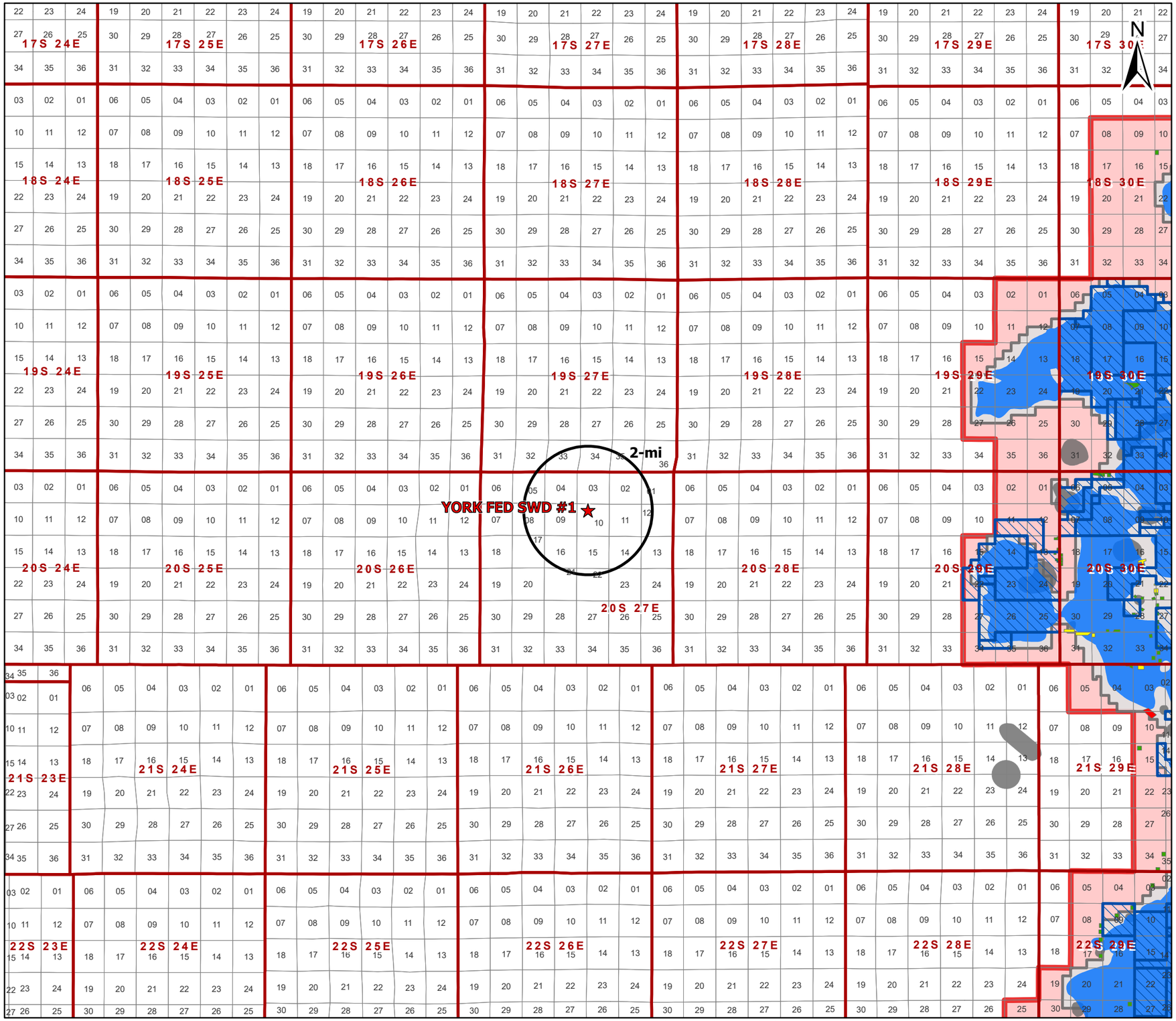
YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING



Legend

- Proposed SWD
- Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- KPLA
- SOPA

Drill Islands

Status

- Approved
- Denied
- Nominated

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

Potash Leases
Area of Review

YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING

Attachment 3

Source Water Analyses

Source Water Formation Analysis

WaterBridge Stateline LLC - Bone Spring, Delaware, & Wolfcamp Formations

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Company	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
RUTH C. MCPHERSON #001	3001500870	32.7601814	-104.2471237	11	18S	27E	J	1980S	1980E	EDDY	NM		WILDCAT	WOLFCAMP	30625	14468	1668	3756
RUTH C. MCPHERSON #001	3001500870	32.7601814	-104.2471237	11	18S	27E	J	1980S	1980E	EDDY	NM		WILDCAT	WOLFCAMP	12585	3952	1198	3266
STATE #001	3001510431	32.743351	-104.3815308	16	18S	26E	P	990S	990E	EDDY	NM		ATOKA	WOLFCAMP	14843	3434	862	5454
BH MATLOCK #001	3001500109	32.6845169	-104.440567	1	19S	25E	N	660S	1980W	EDDY	NM			WOLFCAMP	20306	10360	1829	940
CONNIE C STATE #002	3001502301	32.6337662	-104.1241302	25	19S	28E	H	1980N	660E	EDDY	NM		OUTPOST	DELAWARE	55498	32420	601	984
ANGELL ST #004	3001502280	32.6479454	-104.1791229	21	19S	28E	G	1980N	1980E	EDDY	NM		MILLMAN EAST	WOLFCAMP	118720	70200	2700	1080
JASPER 32 STATE COM #007H	3001540584	32.6235924	-104.0945587	32	19S	29E	B	340N	1875E	EDDY	NM			BONE SPRING 1ST SAND	214765.9	129950.2		680.2
EMERALD PWU 20 #007H	3001540587	32.6436882	-104.088623	20	19S	29E	I	1700S	50E	EDDY	NM			BONE SPRING 1ST SAND	220040.8	131022.8		708.9
PERIDOT 13 STATE #007H	3001540781	32.6777267	-104.0235901	12	19S	29E	H	1650N	1195E	EDDY	NM			BONE SPRING 1ST SAND	213636	127088.7		480.7
EMERALD PWU 20 #001H	3001538338	32.6525154	-104.1045456	20	19S	29E	D	400N	330W	EDDY	NM			BONE SPRING 2ND SAND	214078.6	129500	109.8	0
ONYX PWU 29 #003H	3001539373	32.6304665	-104.1045609	29	19S	29E	L	2145S	330W	EDDY	NM			BONE SPRING 2ND SAND	204175.3	122800	97.6	0
BERYL 33 FEDERAL #001H	3001539790	32.6101418	-104.0871735	33	19S	29E	M	50S	400W	EDDY	NM			BONE SPRING 2ND SAND	194361.8	116600	134.2	0
LONGBOARD PWU 20 #001H	3001540025	32.6494904	-104.1044693	20	19S	29E	E	1500N	355W	EDDY	NM			BONE SPRING 3RD SAND	103835.3	62300	280.6	0
TURQUOISE PWU 27 #010H	3001543321	32.63249412	-104.0721759	28	19S	29E	H	2382N	274E	EDDY	NM			BONE SPRING 3RD SAND	105001	62695.3		684.5
DIAMOND PWU 22 #011H	3001542809	32.64525903	-104.0718382	21	19S	29E	I	2295S	170E	EDDY	NM			BONE SPRING 3RD SAND	117584.8	71782.3		549.7
BURTON FLAT DEEP UNIT #052H	3001540693	32.5116844	-104.1690369	3	21S	27E	H	4000N	50E	EDDY	NM			BONE SPRING 1ST SAND	155191.3	97600	658.8	725
BURTON FLAT DEEP UNIT #052H	3001540693	32.5116844	-104.1690369	3	21S	27E	H	4000N	50E	EDDY	NM			BONE SPRING 1ST SAND	173977.9	108457	793	667
INDIAN FLATS BASS FEDERAL #002	3001521715	32.438549	-104.0594788	35	21S	28E	F	1980N	1980W	EDDY	NM	BASS ENTERPRISES	INDIAN FLATS	DELAWARE	149252	99299	267.18	2081.59
INDIAN FLATS BASS FEDERAL #003	3001521853	32.4340134	-104.0648575	35	21S	28E	L	1650S	330W	EDDY	NM	BASS ENTERPRISES	INDIAN FLATS	DELAWARE	146197	96176.8	400.404	1763.53
BURTON FLAT DEEP UNIT #054H	3001540503	32.5063286	-104.1687851	2	21S	27E	L	1570S	50W	EDDY	NM			BONE SPRING 2ND SAND	214072.7	129855.2	671	0
BURTON FLAT DEEP UNIT #054H	3001540503	32.5063286	-104.1687851	2	21S	27E	L	1570S	50W	EDDY	NM			BONE SPRING 2ND SAND	209152.7	125000	768.6	0
MILLER RANCH UNIT #001	3001520179	32.3890839	-104.4327316	18	22S	25E	J	1680S	1980E	EDDY	NM		REVELATION	DELAWARE	57992	28510	5558	3078
MILLER RANCH UNIT #001	3001520179	32.3890839	-104.4327316	18	22S	25E	J	1680S	1980E	EDDY	NM		REVELATION	DELAWARE	51585	25910	3475	4000
ROOKIE STATE #001	3001510060	32.4132729	-104.3302536	7	22S	26E	B	150N	2056E	EDDY	NM		HAPPY VALLEY SOUTH	BONE SPRING	67985	39150	61	1148
TRACY #001	3001520204	32.412735	-104.1798248	10	22S	27E	C	660N	1980W	EDDY	NM		ESPERANZA	DELAWARE	158000	96200	572	1400
TRACY #001	3001520204	32.412735	-104.1798248	10	22S	27E	C	660N	1980W	EDDY	NM		ESPERANZA	DELAWARE	157000	95000	574	1400

Attachment 4

Injection Formation Water Analyses

Injection Formation Water Analysis

WaterBridge Stateline LLC - Cisco Formation

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Company	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
DAGGER DRAW #002	3001500116	32.62995	-104.517548	30	19S	25E	I	1969S	629E	EDDY	NM		DAGGER DRAW	CISCO	7858			
DAGGER DRAW #002	3001500116	32.62995	-104.517548	30	19S	25E	I	1969S	629E	EDDY	NM		DAGGER DRAW	CISCO	7622			
INDIAN BASIN #001	3001510093	32.4759	-104.576233	14	21S	23E	K	1650S	1650W	EDDY	NM		INDIAN BASIN	CISCO	8531	3238	846	1700
JENNY COM #001	3001526469	32.66355	-104.513435	17	19S	25E	E	1750N	660W	EDDY	NM		DAGGER DRAW	CISCO		46850	183	12.5
JOHN AGU #002	3001526468	32.57923	-104.552399	14	20S	24E	A	660N	660E	EDDY	NM		DAGGER DRAW	CISCO	216236	53321	72619	952
KIMBALL 6 FEDERAL #001	3001510746	32.42635	-104.44072	6	22S	25E	4	718N	801W	EDDY	NM		INDIAN BASIN	CISCO	5606	1350	476	1900
MARATHON FEDERAL #001	3001510373	32.46138	-104.559059	24	21S	23E	K	1650S	1650W	EDDY	NM		INDIAN BASIN	CISCO	162225	99300	32	750
MARATHON FEDERAL #001	3001510373	32.46138	-104.559059	24	21S	23E	K	1650S	1650W	EDDY	NM		INDIAN BASIN	CISCO	179962	110124	80	832
SPRING SWD #001	3001500129	32.52066	-104.394409	4	21S	25E	A	660N	830E	EDDY	NM		SEVEN RIVERS HILLS	CISCO	31485	17000	635	2500
SPRING SWD #001	3001500129	32.52066	-104.394409	4	21S	25E	A	660N	830E	EDDY	NM		SEVEN RIVERS HILLS	CISCO	31580	17370	502	2310

Attachment 5

- Water Well Map
- Well Data

SourceInfo: ttps://gis.ose.state.nm.us/arcgis/rest/services/WatersPod/OSE_PODs/MapServer/0

Legend

- Proposed SWD (1)

OSE PODs

- Active (1)
- Inactive (0)
- Pending (0)
- Changed Location of Well (0)
- Capped (0)
- Plugged (0)
- Unknown (1)

Water Wells Area of Review

YORK FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	August 25, 2022	Mapped by: Ben Bockelmann

Prepared for: WATERBRIDGE

Prepared by: ALL CONSULTING

Water Well Sampling Rationale

WaterBridge Stateline LLC - York Fed SWD #1

Water Wells	Owner	Available Contact Information	Use	Location	Sampling Required	Notes
RA 08646	DBR Land Holdings LLC	**Dustin Droll:** Work: 432-218-5856 Email: Dustin.Droll@dbranches.com	Stock Watering	32.591380, -104.284382; 9-20S-27E	No	DBR Land Holdings sent a ranch hand out to the permitted location and confirmed that no well was constructed in association with the NMOSE Water well RA-08646.

Notes:

Attachment 6

Karst Analysis

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

WATERBRIDGE STATELINE LLC – HATHCOCK FED SWD #1 AND YORK FED 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) Hathcock Fed SWD #1 and York Fed SWD #1 Class II saltwater disposal (SWD) well applications are within the area OCD has designated as high-risk karst. **Figure 1** is the location of the proposed SWDs. 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 Hathcock Fed SWD #1 and York Fed SWD #1 well locations. 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).

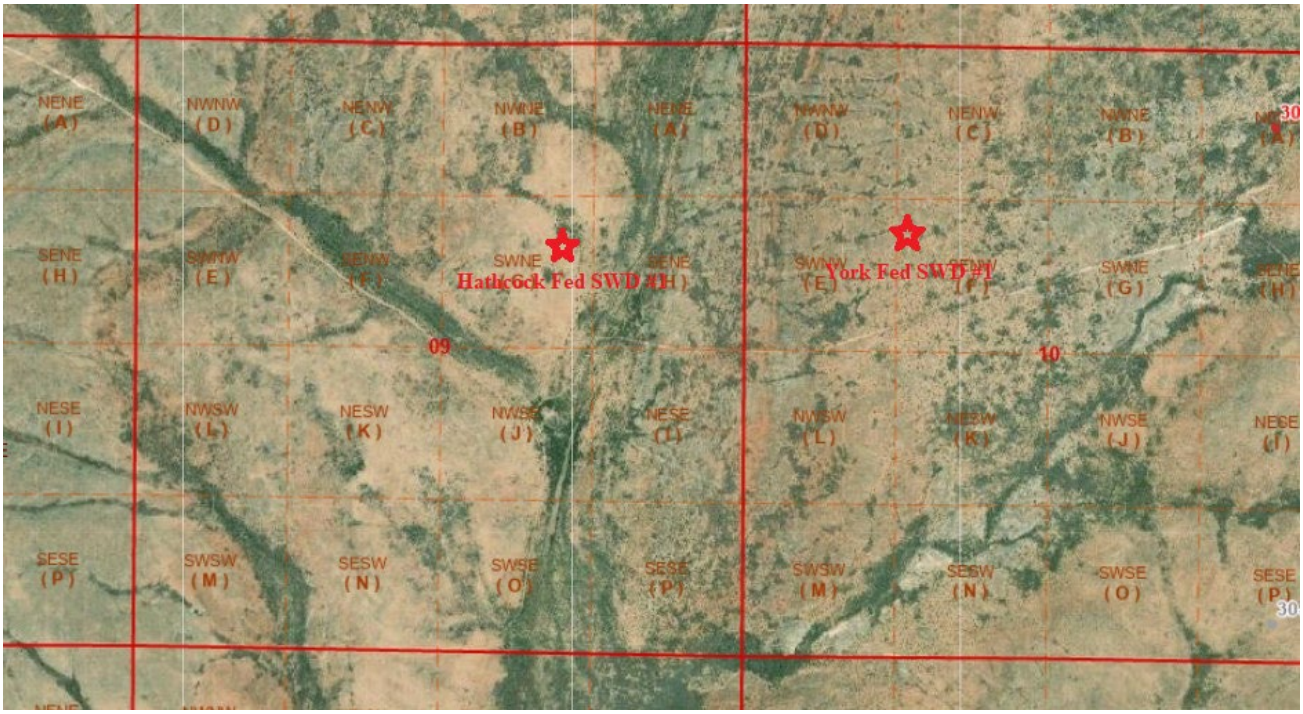


Figure 1. Proposed Locations of the York Fed SWD #1 and Hathcock Fed SWD #1

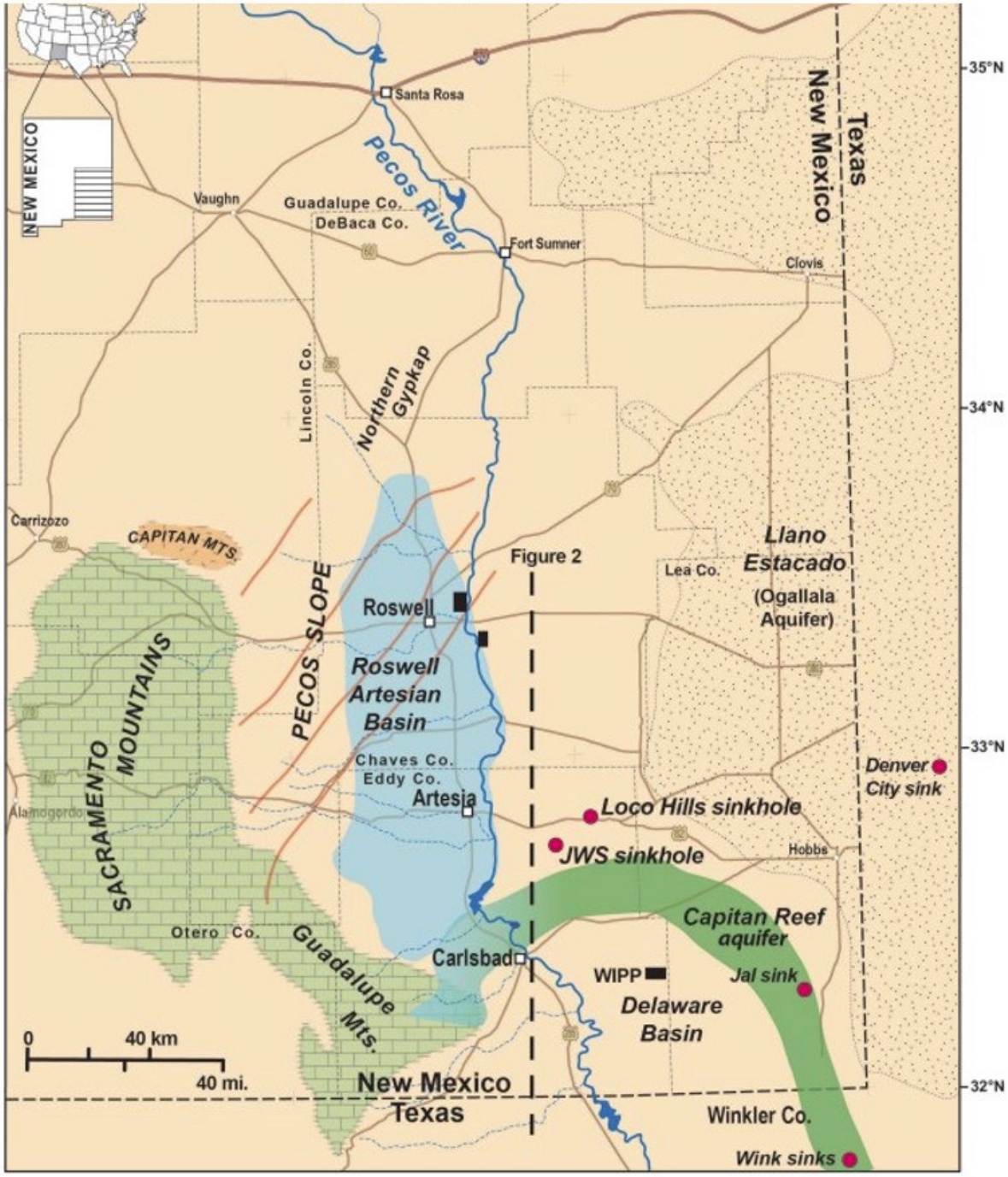


Figure 2. Regional Map of the Lower Pecos Region of Southeastern New Mexico Showing Location of Sinkholes (Land 2013)

Geology of the Dagger Draw Area

The surficial and shallow geology in the Dagger Draw area consists of the Quaternary alluvium and caliche, 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 Hathcock Fed SWD #1 and York Fed SWD #1 well locations is the Quaternary alluvium and caliche. **Figure 3** is a snip of this surficial geologic map showing the proposed SWD locations in relation to the Quaternary alluvium and caliche surficial geology.

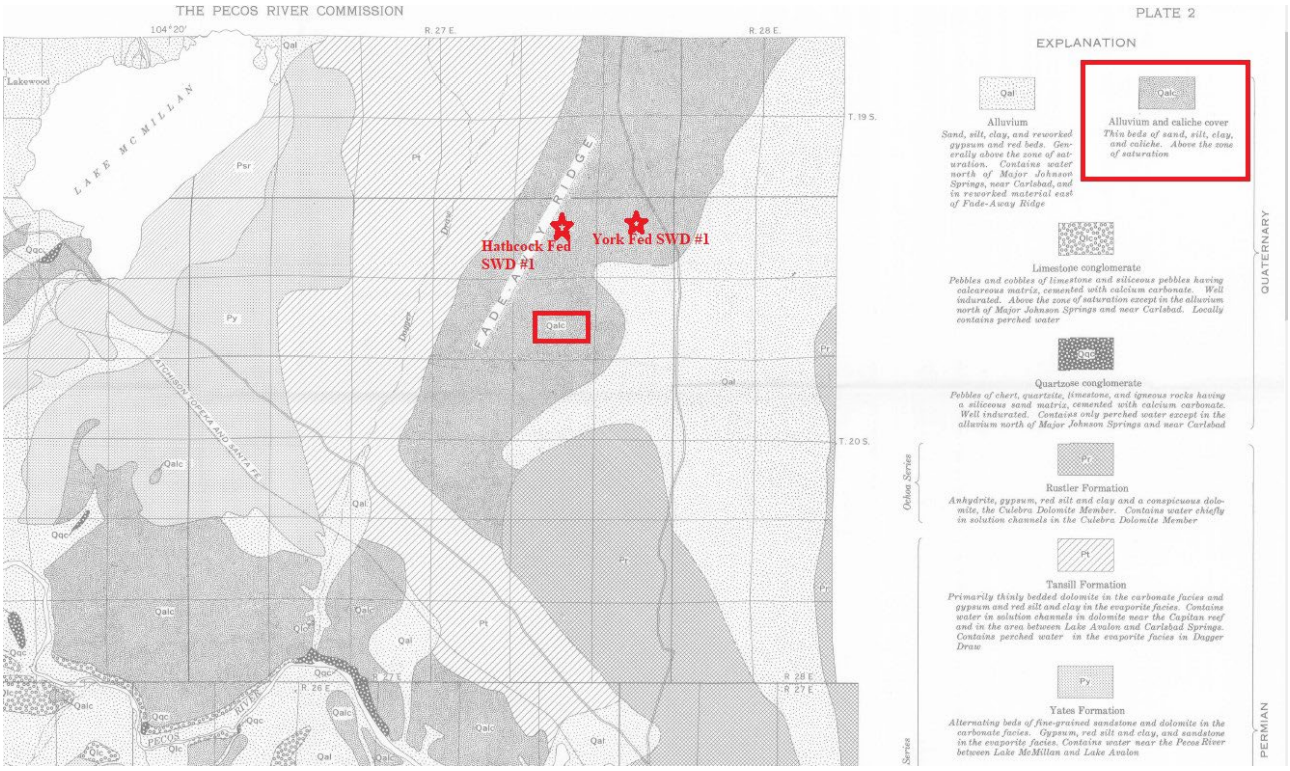


Figure 3. Map Showing the Surficial Geology of the Proposed SWD Locations (Cox 1967)

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 approximately two miles to the southwest of the Hathcock Fed 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).

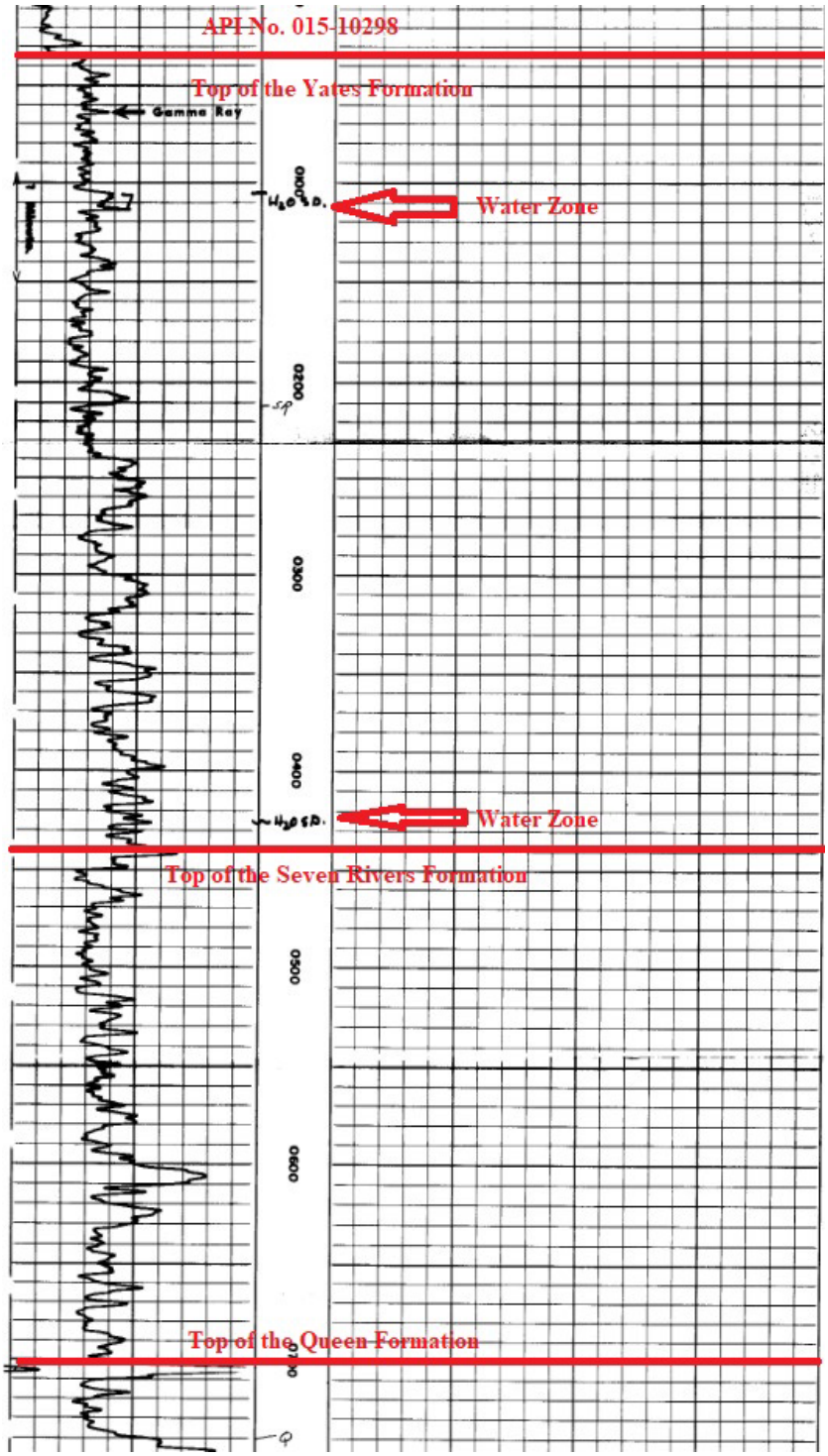


Figure 4. Gamma Ray Geophysical Log from Well API No. 015-10298 Showing the Tops of the Shallow Formations and Occurrence of Water Zones in the Well

Addressing OCD's High-Risk Karst Area Concerns

Based on ALL's extensive geologic and hydrogeologic evaluation of the Dagger Draw and Hathcock Fed SWD #1 and York Fed SWD #1 proposed well locations, 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 SWDs. 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 SWDs. 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 SWDs the base of the USDW will be approximately 475 to 500 feet below the surface. ALL is proposing that Waterbridge set 20" surface casing to a depth of 500 to 525 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 Bone Spring 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 7,990 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.**

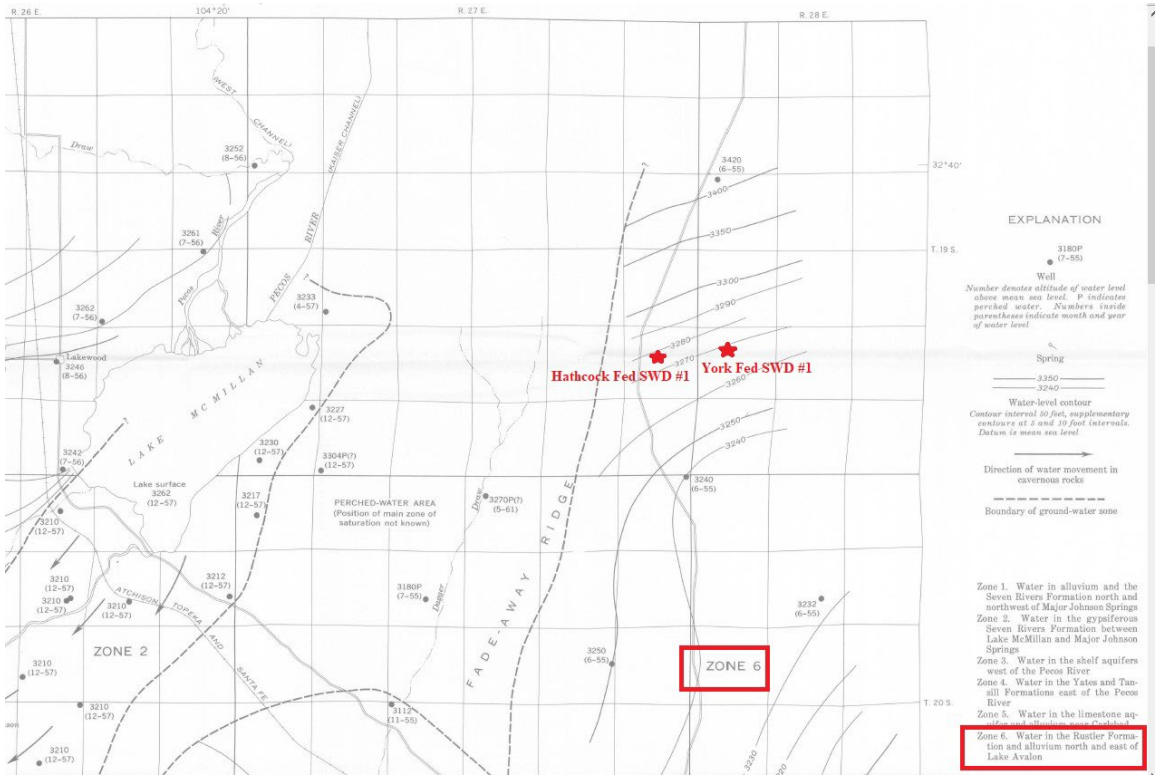


Figure 5. Map Showing the Location of the Proposed SWDs in Relation to the Groundwater in the Permian Formations in the Immediate Area (Cox 1967)

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).

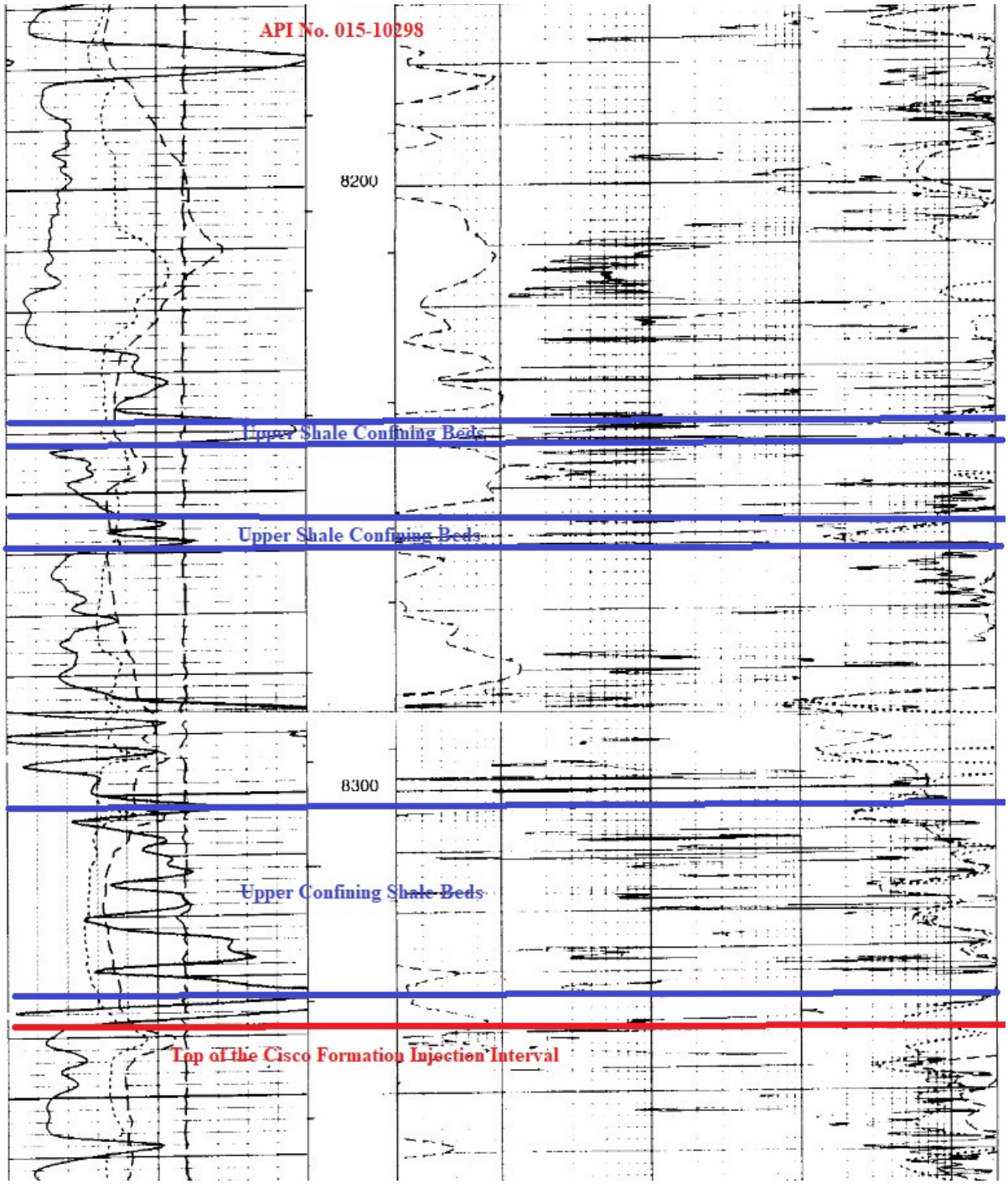


Figure 6. Open Hole Geophysical Log of API No. 015-10298 Showing the Upper Confining Zones for the Proposed Cisco Formation SWDs

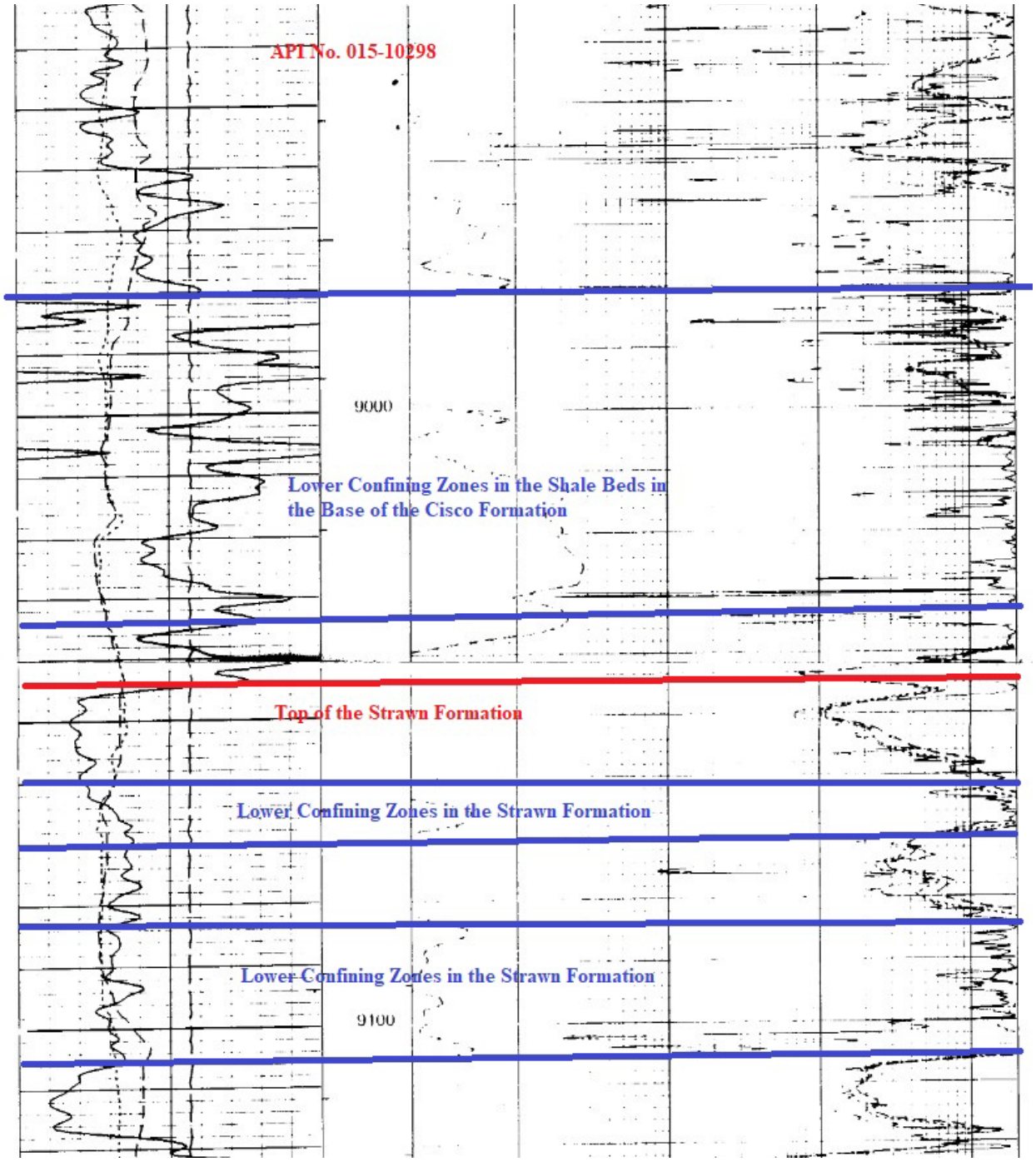


Figure 7. Lower Confining Zones at the Base of the Cisco Formation and Upper Strawn Formation in the Open Hole Geophysical Log for API No. 015-10298

Attachment 7

No Hydrologic Connection Statement

RE: WaterBridge Stateline LLC – Hathcock Fed SWD #1 and York Fed SWD #1 applications, Eddy County, New Mexico

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the two saltwater disposal wells (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).

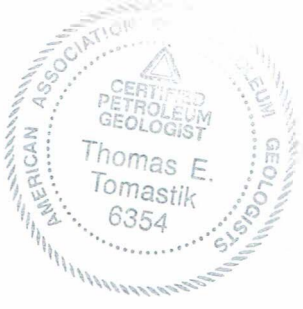
ALL performed an assessment and analysis of the subsurface geophysical log data along with published documents on the groundwater in this vicinity of Eddy County, New Mexico. Based on ALL's assessment and analysis there is containment through multiple confining zones above the Cisco Formation and the USDW and over 7,990 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 11/09/2022

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 Ste. 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: York Fed SWD #1
Located 8.75 miles east of Seven Rivers, NM
NE ¼ NW ¼, Section 10, Township 20S, Range 27E
1,096' FNL & 1,800' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Cisco (8,515'-9,500')
EXPECTED MAXIMUM INJECTION RATE: 30,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 1,703 psi (surface)

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., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

Carlsbad Current Argus.
PART OF THE USA TODAY NETWORK

Affidavit of Publication

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ALL CONSULTING
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:

11/11/2022

Legal Clerk

Subscribed and sworn before me this November 11, 2022:

State of WI, County of Brown
NOTARY PUBLIC

My commission expires

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That WaterBridge Stateline, LLC, 5555 San Felipe Ste. 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: York Fed SWD #1
Located 8.75 miles east of Seven Rivers, NM
NE ¼ NW ¼, Section 10, Township 20S, Range 27E
1,096' FNL & 1,800' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Cisco (8,515'-9,500')

EXPECTED MAXIMUM INJECTION RATE: 30,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 1,703 psi (surface)

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., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.
#5483710, Current Argus, November 11, 2022

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PO #: 0005483710
# of Affidavits1

This is not an invoice

KATHLEEN ALLEN
Notary Public
State of Wisconsin

York Fed SWD #1 - Notice of Application Recipients				
Entity	**Address**	**City**	**State**	**Zip Code**
Land & Mineral Owner				
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
OCD District				
NMOCD District 2	506 W. Texas	Artesia	NM	88210
Leasehold Operators				
Douglas A Fiske (FISKE DOUGLAS A)	1831 Dukes Dr	Midland	TX	79705
Fasken Land and Minerals, Ltd (FASKEN LAND & MINERALS LTD)	6101 Holiday Hill Rd.	Midland	TX	79707
Marshall & Winston Inc. (MARSHALL & WINSTON INC)	P.O. Box 50880	Midland	TX	79710
MRC Delaware Resources, LLC (MRD DELAWARE RES LLC)	P.O. Box 1936	Roswell	NM	88202
Petro - Quest Oil and Gas L.P. (Petro-Quest O&G LP)	265 Saint Marks Path	Kerrville	TX	78028
Trigg Oil & Gas, L.P. (TRIGG O&G LP)	P.O. Box 520	Roswell	NM	88202
Jalapeno Corporation (JAPAPENO CORP)	P.O. Box 1608	Albuquerque	NM	87103
Yates Energy Corporation (YATES ENERGY CORP)	P.O. Box 2323	Roswell	NM	88202

Notes: The table above shows the entities dentified as parties of interest requiring notification on the 2-mile Mineral Lease Map (***Attachment 2***). The names listed above in parenthesis are the abbreviated entity names used on the 2-mile Mineral Lease Map (***Attachment 2***).

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

CONDITIONS

Action 269795

CONDITIONS

Operator: WaterBridge Stateline LLC 5555 San Felipe Houston, TX 77056	OGRID: 330129
	Action Number: 269795
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	This is an acknowledgment of the receipt of the C-108 application. The application has been protested by Mewbourne Oil Company	9/27/2023