

### Closure Report with Variance Request

July 6, 2023

Re: Bronco SWD Case nAPP2307548956 nAPP2310828665

### Background:

On 3/12/2023 and on 4/3/2023 releases occurred due to a buried repair clamp corroded on transite line. The releases (GPS: 33.19820172, -103.06137989) is located east of Lovington, New Mexico in unit letter A section 14 township 13S range 38E. A groundwater survey was conducted utilizing NMOSE and TWDB wells of records. All the data in the area from 2009-2021 suggest that groundwater is greater than 109 feet.

On 3/28/2023 the first release was delineated vertically to 4 feet and a 5-point composite horizontal samples was collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 4/14/2023 a discrete sample was collected at 4 feet due to the second release occurred inside the open bell hole excavated to repair the pipeline from the first release. The sample collected was submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

All laboratory data was below table one standards for releases greater than 100 feet to groundwater therefore posing no risk to groundwater. Apache Corporation would like to ask for a variance to the reclamation standard of the rule due to a request from the surface owner.

Apache Corporation has determined that the release meets closure requirements and respectfully ask the agency to consider the variance request and close events nAPP2307548956 and nAPP2310828665.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Landowner Letter, Laboratory Results, and Photo.

Submitted by.

Environmental Technician SR. Staff

larry.baker@apachecorp.com

Office # 432-818-1654 Cell# 432-250-8384

Larry Baker

Ceii# 432-250-8384

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Application ID	

### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	110 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	✓ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> </ul>	s.

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

✓ Laboratory data including chain of custody

✓ Topographic/Aerial maps

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Larry Baker	Title: Environmental Tech Sr. Staff				
Signature: Larry Baker	Date: 7/6/2023				
email: larry.baker@apachecorp.com Telephone: 432-818-1654					
OCD Only					
Received by: Shelly Wells	Date: <u>7/7/2023</u>				

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A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in
Printed Name: Larry Baker	Title: Environmental Tech Sr. Staff
Printed Name: Larry Baker  Signature: Larry Baker  email: larry.baker@apachecorp.com	Date: 7/6/2023
email: larry.baker@apachecorp.com	Telephone:
OCD Only	
Received by: Shelly Wells	Date: 7/7/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Velson Velez  Printed Name: Nelson Velez	Date: 09/28/2023
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv
l <u>—</u>	

Variance request from landowner to forego the reclamation standards for the top 4 feet is approved. Closure report approved; release resolved.



### New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

L 00660 S2

3 3 2 11 13S 38E

680205 3675912

**Driller License:** 1607

Driller Company:

DURAN DRILLING

Driller Name:

**Drill Start Date:** 

DURAN, LUIS

04/23/2011 **Drill Finish Date:** 

04/26/2011 Plug Date:

Shallow

**Log File Date:** 

04/28/2011

PCW Rcv Date: 0

190

235

120

01/16/1964 **Source:** 

Shallow

Pump Type:

TURBIN

Pipe Discharge Size:

**Estimated Yield: 2** 

200 GPM

**Casing Size:** 

10.00

Depth Well:

270 feet

Depth Water:

110 feet

Water Bearing Stratifications:

Top Bottom Description

270

220 Sandstone/Gravel/Conglomerate265 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or

implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

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POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

### **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

L 00568

1622

1 3 14 13S 38E

679641 3674080\*

**Driller Company:** 

WEST TEX EXPLORATION

**Driller License: Driller Name:** 

MENDOZA, ERNESTO

**Drill Finish Date:** 

**Plug Date:** 

**Drill Start Date:** Log File Date:

12/01/2009

**PCW Rcv Date:** 02/03/2010 Source:

Shallow

Pump Type:

02/03/2010

6

12/01/2009

Estimated Yield: 650 GPM

**Casing Size:** 

**TURBIN** 12.00

Pipe Discharge Size: Depth Well:

292 feet

**Depth Water:** 

130 feet

Water Bearing Stratifications:

Top Bottom

152

Description

289 Other/Unknown

**Casing Perforations:** 

Top **Bottom** 

292 130

**Meter Number:** 

20318

Meter Make:

**MCCROMETER** 

**Meter Serial Number: Number of Dials:** 

GP13-2493MCC

**Meter Multiplier:** 

100.0000 Diversion

**Unit of Measure:** 

Gallons

**Meter Type: Return Flow Percent:** 

**Usage Multiplier:** 

**Reading Frequency:** 

Quarterly

Meter Readings (in Acre-Feet)

**Read Date** Year

Mtr Reading Flag

**Rdr Comment** 

Mtr Amount Online

01/06/2020

2020

661889 A

0

\*\*YTD Meter Amounts:

Year

Amount

2020

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

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POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help





### **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

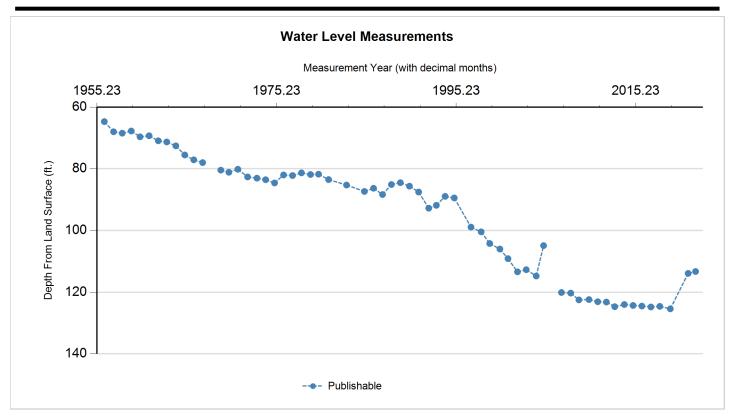
State Well Number	2556201
State Well Number	_555_5 .
County	Yoakum
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	Sandy Land UWCD
Latitude (decimal degrees)	33.219444
Latitude (degrees minutes seconds)	33° 13' 10" N
Longitude (decimal degrees)	-103.056667
Longitude (degrees minutes seconds)	103° 03' 24" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3791
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	136
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	9/0/1948
Drilling Method	
Borehole Completion	

Mall Type	Withdrawal of Water
Well Type	
Well Use	Irrigation
Water Level Observation	GCD Current Site Visit
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Natural-Gas Engine
Annular Seal Method	
Surface Completion	
Owner	H. Barnes
Driller	Garroway
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	331310103032401
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	1/24/1989
Last Update Date	8/23/2021

Remarks Casing Diameter (in.) **Casing Type Casing Material** Schedule Gauge Top Depth (ft.) Bottom Depth (ft.) 10 Blank Well Tests - No Data Lithology - No Data Annular Seal Range - No Data Borehole - No Data Plugged Back - No Data Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	1/19/1956		64.7		3726.3	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/31/1957		68	3.30	3723	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/18/1958		68.46	0.46	3722.54	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/20/1959		67.75	(0.71)	3723.25	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/12/1960		69.64	1.89	3721.36	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/16/1961		69.29	(0.35)	3721.71	1	Texas Water Development Board	Unknown		
Р	1/25/1962		70.93	1.64	3720.07	1	Texas Water Development Board	Steel Tape		
Р	1/3/1963		71.3	0.37	3719.7	1	Texas Water Development Board	Steel Tape		
Р	1/7/1964		72.57	1.27	3718.43	1	Texas Water Development Board	Steel Tape		
Р	1/5/1965		75.52	2.95	3715.48	1	Texas Water Development Board	Steel Tape		
Р	1/6/1966		77.1	1.58	3713.9	1	Texas Water Development Board	Steel Tape		
Р	1/3/1967		78	0.90	3713	1	Texas Water Development Board	Steel Tape		
Χ	1/21/1968					1	Texas Water Development Board		30	
Р	1/11/1969		80.45		3710.55	1	Texas Water Development Board	Steel Tape		
Р	12/8/1969		81.13	0.68	3709.87	1	Texas Water Development Board	Steel Tape		
Р	12/10/1970		80.15	(0.98)	3710.85	1	Texas Water Development Board	Steel Tape		
Р	1/6/1972		82.65	2.50	3708.35	1	Texas Water Development Board	Steel Tape		
Р	1/20/1973		83.04	0.39	3707.96	1	Texas Water Development Board	Steel Tape		





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	1/8/1974		83.54	0.50	3707.46	1	Texas Water Development Board	Steel Tape		
Р	1/7/1975		84.6	1.06	3706.4	1	Texas Water Development Board	Steel Tape		
Р	1/8/1976		82	(2.60)	3709	1	Texas Water Development Board	Steel Tape		
P	1/7/1977		82.19	0.19	3708.81	1	Texas Water Development Board	Steel Tape		
Р	1/5/1978		81.33	(0.86)	3709.67	1	Texas Water Development Board	Steel Tape		
Р	1/9/1979		81.85	0.52	3709.15	1	Texas Water Development Board	Steel Tape		
Р	12/4/1979		81.75	(0.10)	3709.25	1	Texas Water Development Board	Steel Tape		
Р	1/13/1981		83.5	1.75	3707.5	1	Texas Water Development Board	Steel Tape		
Р	1/13/1983		85.27	1.77	3705.73	1	Texas Water Development Board	Steel Tape		
Р	1/10/1985		87.35	2.08	3703.65	1	Texas Water Development Board	Steel Tape		
Р	1/16/1986		86.31	(1.04)	3704.69	1	Texas Water Development Board	Steel Tape		
Р	1/16/1987		88.35	2.04	3702.65	1	Texas Water Development Board	Steel Tape		
Р	1/12/1988		85.1	(3.25)	3705.9	1	Texas Water Development Board	Steel Tape		
Р	1/11/1989		84.51	(0.59)	3706.49	1	Texas Water Development Board	Steel Tape		
Р	1/15/1990		85.63	1.12	3705.37	1	Texas Water Development Board	Steel Tape		
Р	1/24/1991		87.53	1.90	3703.47	1	Groundwater Conservation District	Electric Line		
Р	3/9/1992		92.78	5.25	3698.22	1	Groundwater Conservation District	Electric Line		
Р	1/13/1993		91.85	(0.93)	3699.15	1	Groundwater Conservation District	Electric Line		
Р	1/6/1994		88.94	(2.91)	3702.06	1	Groundwater Conservation District	Electric Line		
P	1/13/1995		89.45	0.51	3701.55	1	Groundwater Conservation District	Electric Line		
P	11/27/1996		98.9	9.45	3692.1	1	Groundwater Conservation District	Electric Line		
P	1/10/1998		100.44	1.54	3690.56		Groundwater Conservation District	Electric Line		
P	12/29/1998		104.22	3.78	3686.78		Groundwater Conservation District	Electric Line		
P	2/12/2000		106.01	1.79		1	Groundwater Conservation District	Electric Line		
P	1/6/2001		109.13	_			Groundwater Conservation District	Electric Line		
P	1/28/2002		113.41	4.28			Groundwater Conservation District	Electric Line		
P	1/18/2003		112.71	(0.70)			Groundwater Conservation District	Electric Line		
P 	1/0/2004		114.76				Groundwater Conservation District	Electric Line		
P	12/29/2004		104.9	(9.86)	3686.1		Groundwater Conservation District	Steel Tape		
X 	12/29/2005						Groundwater Conservation District		31	
P	12/26/2006		120.1		3670.9		Groundwater Conservation District	Electric Line		
P	1/3/2008		120.3				Groundwater Conservation District	Electric Line		
Р	12/5/2008		122.5	2.20	3668.5	1	Groundwater Conservation District	Electric Line		

Thursday, July 6, 2023





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	1/14/2010		122.4	(0.10)	3668.6	1	Groundwater Conservation District	Steel Tape		
Р	1/6/2011		123.1	0.70	3667.9	1	Groundwater Conservation District	Steel Tape		
Р	12/27/2011		123.2	0.10	3667.8	1	Groundwater Conservation District	Electric Line		
Р	12/2/2012		124.7	1.50	3666.3	1	Groundwater Conservation District	Electric Line		
Р	12/26/2013		124	(0.70)	3667	1	Groundwater Conservation District	Electric Line		
Р	12/18/2014		124.3	0.30	3666.7	1	Groundwater Conservation District	Steel Tape		
Р	12/10/2015		124.5	0.20	3666.5	1	Groundwater Conservation District	Electric Line		
Р	12/13/2016		124.8	0.30	3666.2	1	Groundwater Conservation District	Electric Line		
Р	12/11/2017		124.6	(0.20)	3666.4	1	Groundwater Conservation District	Electric Line		
Р	2/5/2019		125.4	0.80	3665.6	1	Groundwater Conservation District	Electric Line		
Р	2/2/2021		113.9	(11.50)	3677.1	1	Groundwater Conservation District	Electric Line		
Р	12/3/2021		113.3	(0.60)	3677.7	1	Groundwater Conservation District	Electric Line		

### **Code Descriptions**

Status Code	Status Description					
Р	Publishable					
X	No Measurement					

Remark ID	Remark Description
1	Accurately reflects water level conditions
30	Well temporarily inaccessible due to impassable roads, locked gate, etc.
31	Well temporarily inaccessible due to vicious animals





### **Water Quality Analysis**

Sample Date: 7/27/1971 Sample Time: 0000 Sample Number: 1 Collection Entity: Texas Water Development Board

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		159	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		194.04	mg/L	
00910	CALCIUM (MG/L)		148	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		173	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		529	mg/L	
00920	MAGNESIUM (MG/L)		39	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.3	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		52	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.15		
00932	SODIUM, CALCULATED, PERCENT		31	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		114	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1755	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		354	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		19	С	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		982	mg/L	

<sup>\*</sup> Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





### **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

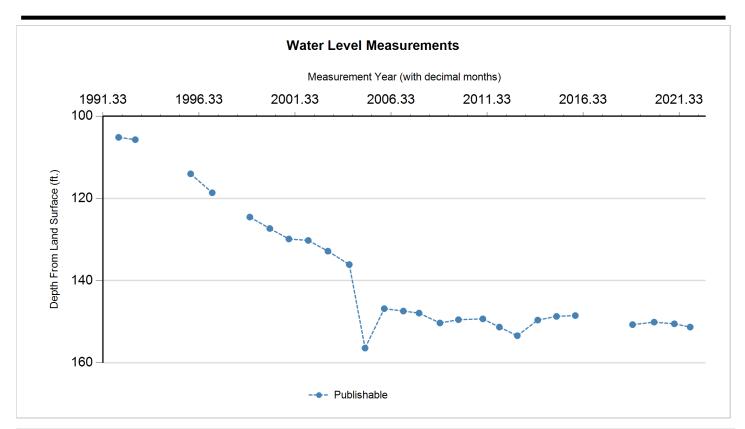
State Well Number	2556502
State Well Number	
County	Yoakum
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	Sandy Land UWCD
Latitude (decimal degrees)	33.182222
Latitude (degrees minutes seconds)	33° 10' 56" N
Longitude (decimal degrees)	-103.058889
Longitude (degrees minutes seconds)	103° 03' 32" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3797
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Screened

	lamin i care
Well Type	Withdrawal of Water
Well Use	Irrigation
Water Level Observation	GCD Current Site Visit
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Natural-Gas Engine
Annular Seal Method	
Surface Completion	
Owner	Loyd Hodges
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	331056103033202
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	4/24/1992
Last Update Date	8/23/2021

o Data		
F	Plugged Back - No Data	
	Packers - No Data	
•	lo Data	Plugged Back - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	2/25/1992		105.17		3691.83	1	Groundwater Conservation District	Electric Line		
Р	1/7/1993		105.74	0.57	3691.26	1	Groundwater Conservation District	Electric Line		
X	1/15/1994					1	Groundwater Conservation District		32	
X	1/13/1995					1	Groundwater Conservation District		32	
Р	11/29/1995		114.04		3682.96	1	Groundwater Conservation District	Electric Line		
Р	1/9/1997		118.64	4.60	3678.36	1	Groundwater Conservation District	Electric Line		
X	1/10/1998					1	Groundwater Conservation District		20	
Р	12/29/1998		124.55		3672.45	1	Groundwater Conservation District	Electric Line		
Р	1/8/2000		127.33	2.78	3669.67	1	Groundwater Conservation District	Electric Line		
Р	1/6/2001		129.88	2.55	3667.12	1	Groundwater Conservation District	Electric Line		
Р	1/9/2002		130.23	0.35	3666.77	1	Groundwater Conservation District	Electric Line		
Р	1/18/2003		132.84	2.61	3664.16	1	Groundwater Conservation District	Electric Line		
Р	1/0/2004		136.1	3.26	3660.9	1	Groundwater Conservation District	Electric Line		
Р	12/29/2004		156.4	20.30	3640.6	1	Groundwater Conservation District	Steel Tape		





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	12/29/2005		146.82	(9.58)	3650.18	1	Groundwater Conservation District	Steel Tape		
Р	12/27/2006		147.4	0.58	3649.6	1	Groundwater Conservation District	Electric Line		
Р	10/20/2007		147.9	0.50	3649.1	1	Groundwater Conservation District	Electric Line		
Р	11/22/2008		150.3	2.40	3646.7	1	Groundwater Conservation District	Electric Line		
Р	11/9/2009		149.5	(0.80)	3647.5	1	Groundwater Conservation District	Steel Tape		
Р	2/12/2011		149.3	(0.20)	3647.7	1	Groundwater Conservation District	Steel Tape		
Р	12/27/2011		151.3	2.00	3645.7	1	Groundwater Conservation District	Electric Line		
Р	12/2/2012		153.4	2.10	3643.6	1	Groundwater Conservation District	Electric Line		
Р	12/26/2013		149.6	(3.80)	3647.4	1	Groundwater Conservation District	Electric Line		
Р	12/18/2014		148.7	(0.90)	3648.3	1	Groundwater Conservation District	Steel Tape		
Р	12/10/2015		148.5	(0.20)	3648.5	1	Groundwater Conservation District	Electric Line		
X	12/5/2016					1	Groundwater Conservation District	Electric Line	28	
X	12/11/2017					1	Groundwater Conservation District	Electric Line	24	dry
Р	12/3/2018		150.7		3646.3	1	Groundwater Conservation District	Electric Line		
Р	1/13/2020		150.1	(0.60)	3646.9	1	Groundwater Conservation District	Electric Line		
Р	2/2/2021		150.5	0.40	3646.5	1	Groundwater Conservation District	Electric Line		
Р	12/3/2021		151.3	0.80	3645.7	1	Groundwater Conservation District	Electric Line		

### **Code Descriptions**

Status Code	Status Description
P	Publishable
Χ	No Measurement

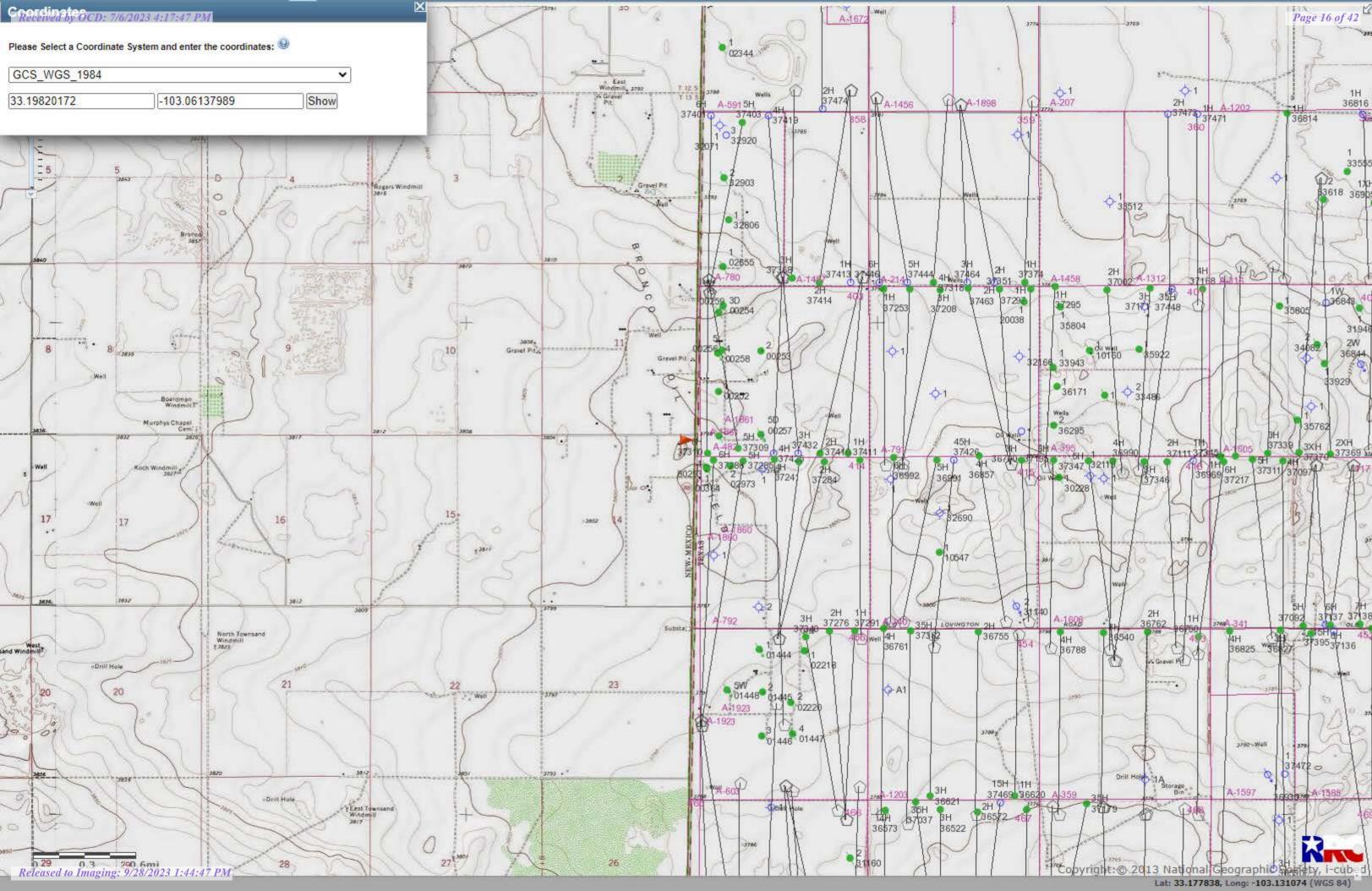
Remark ID	Remark Description
20	Unable to insert tape into well
24	Well apparently dry, well depth reached without water level
28	Uncertain of reason for no measurement
32	Well temporarily inaccessible due to winterization or debris

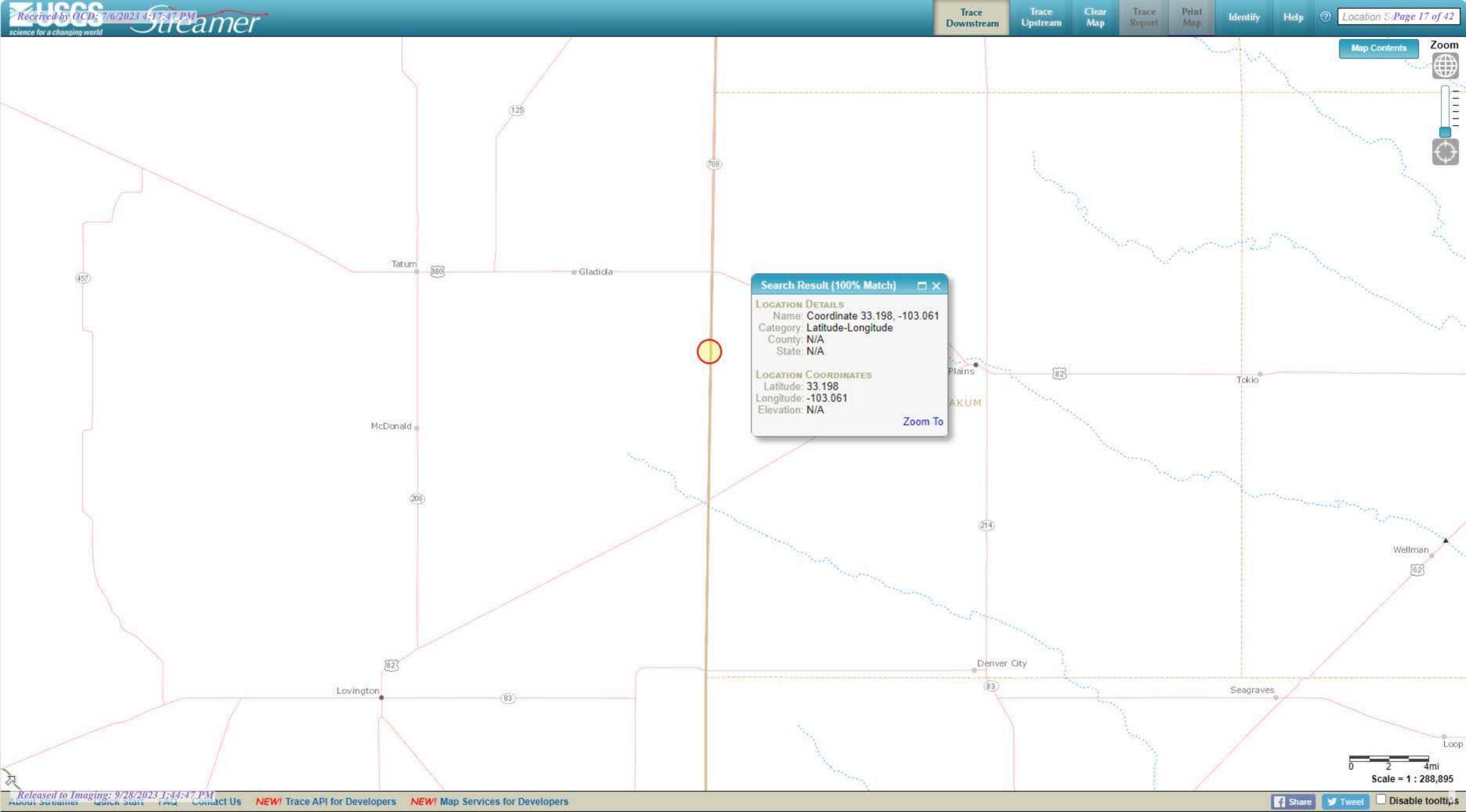


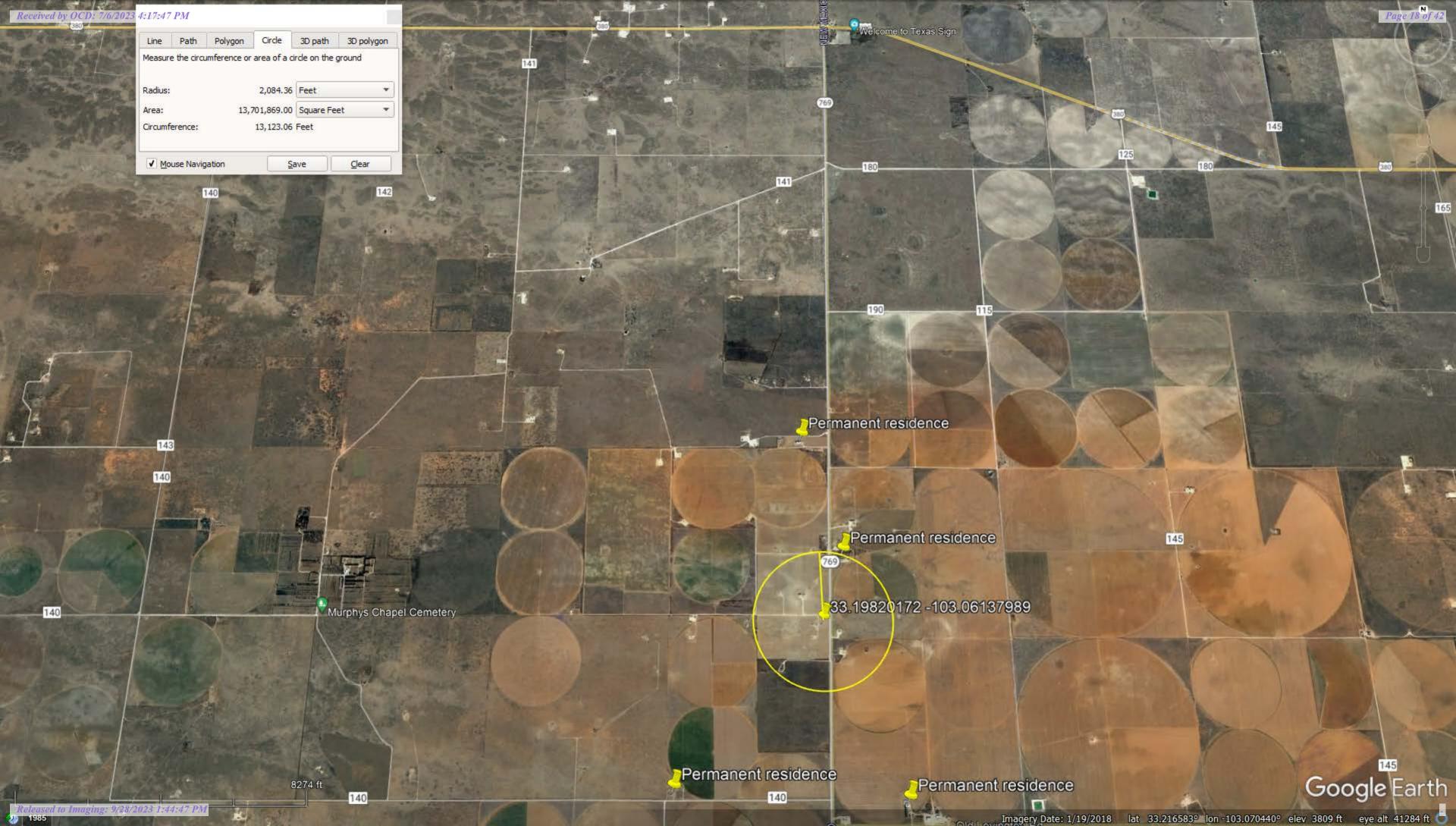


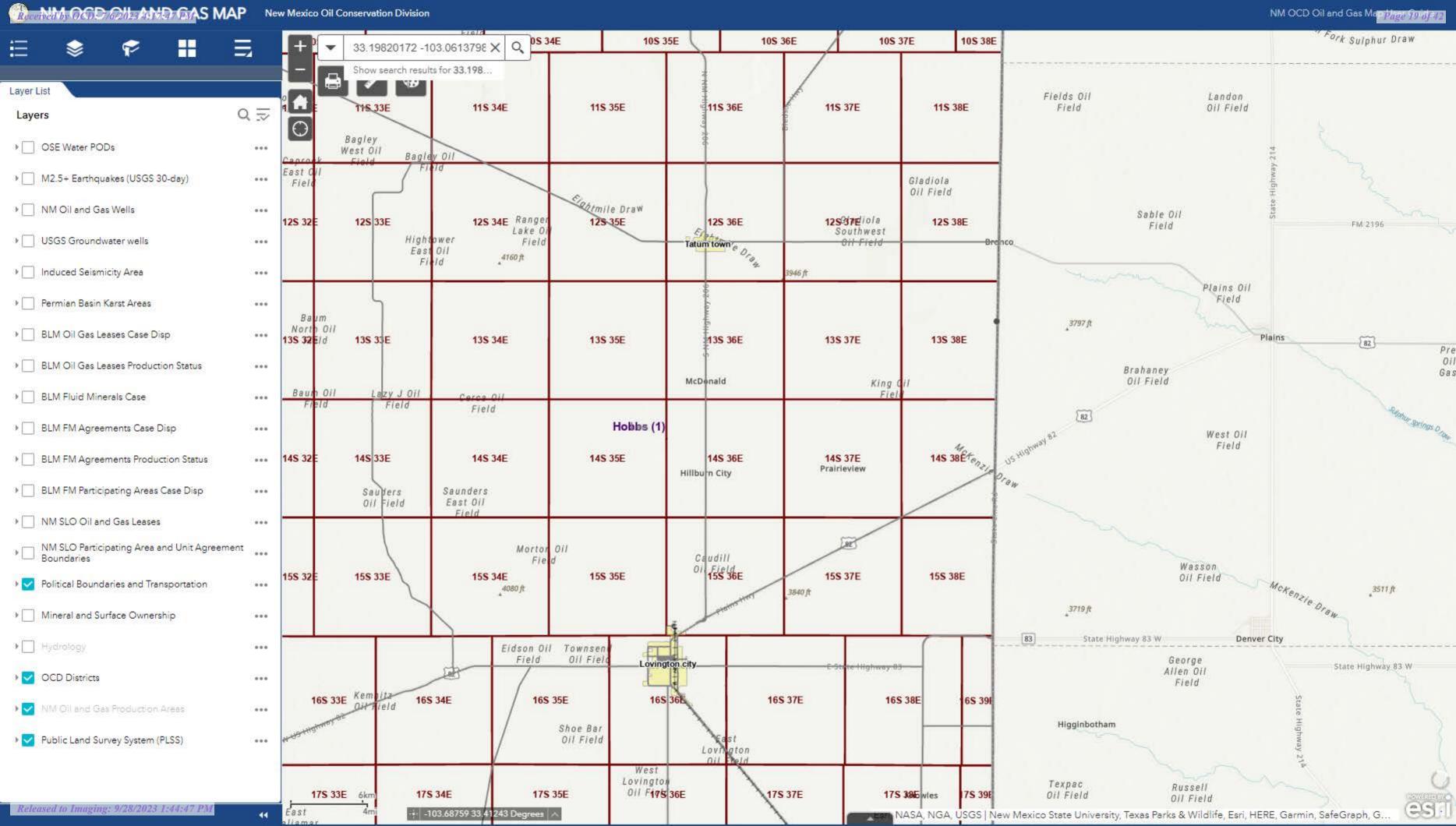
### Water Quality Analysis - No Data Available

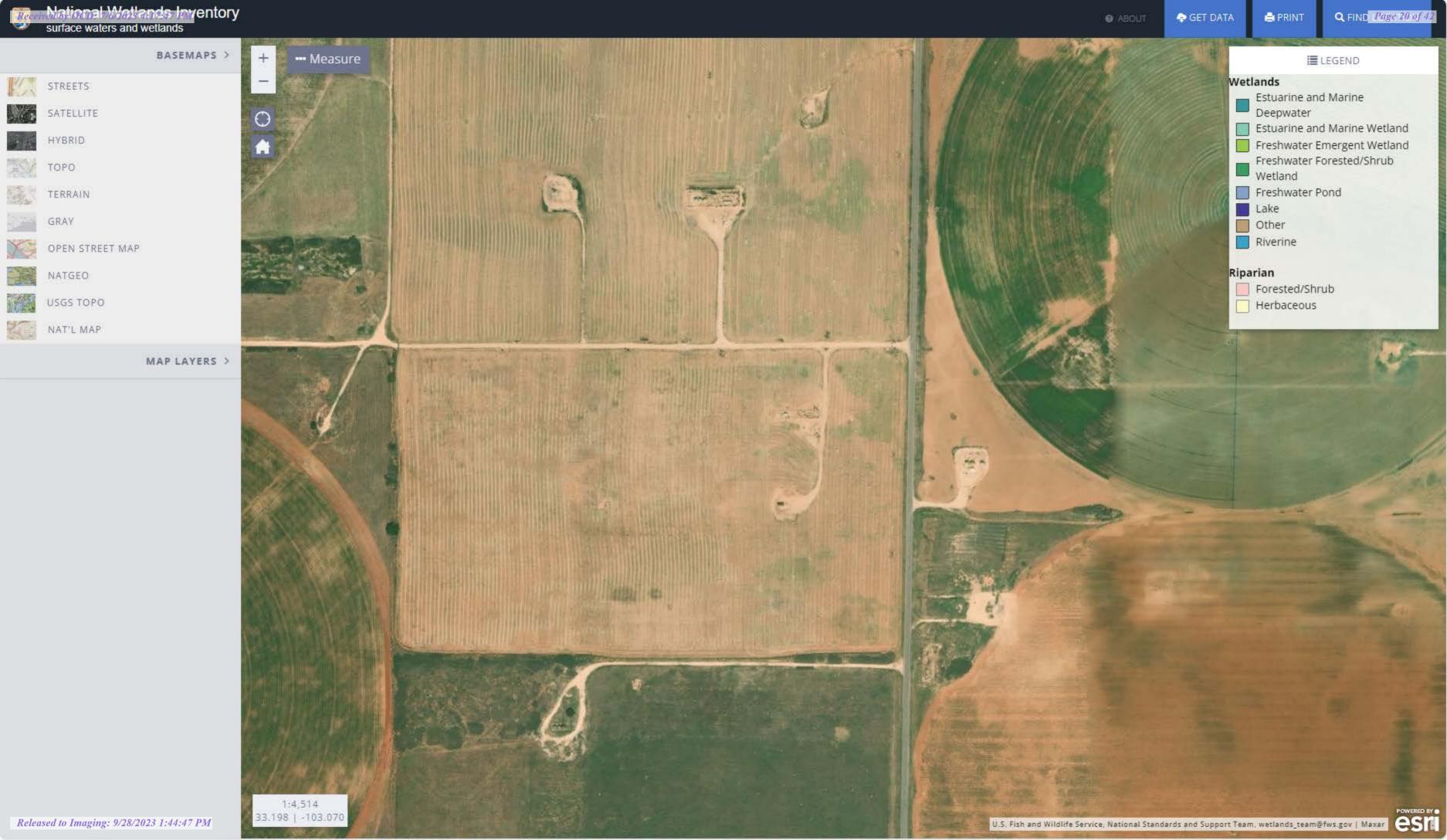
GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.



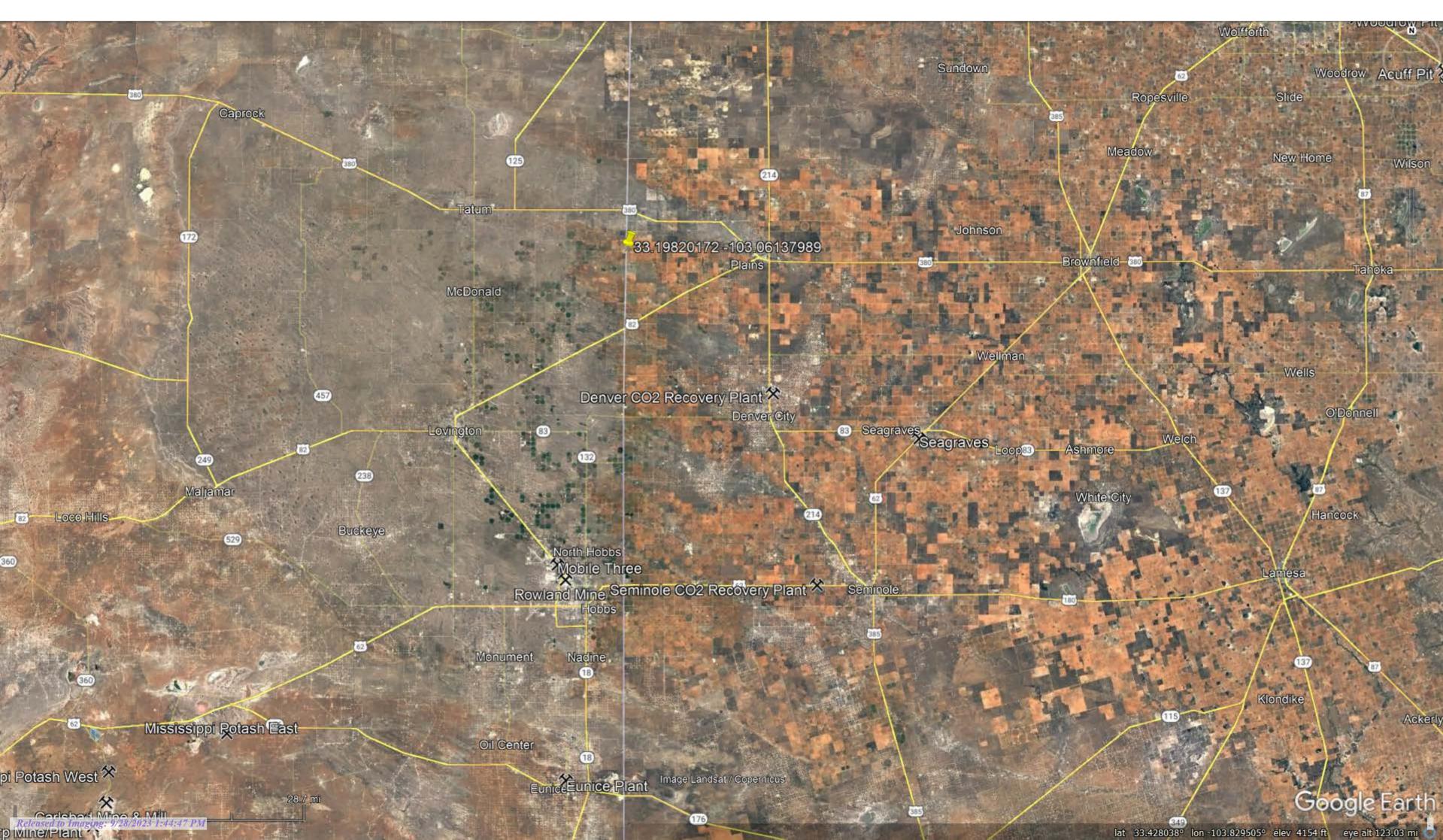




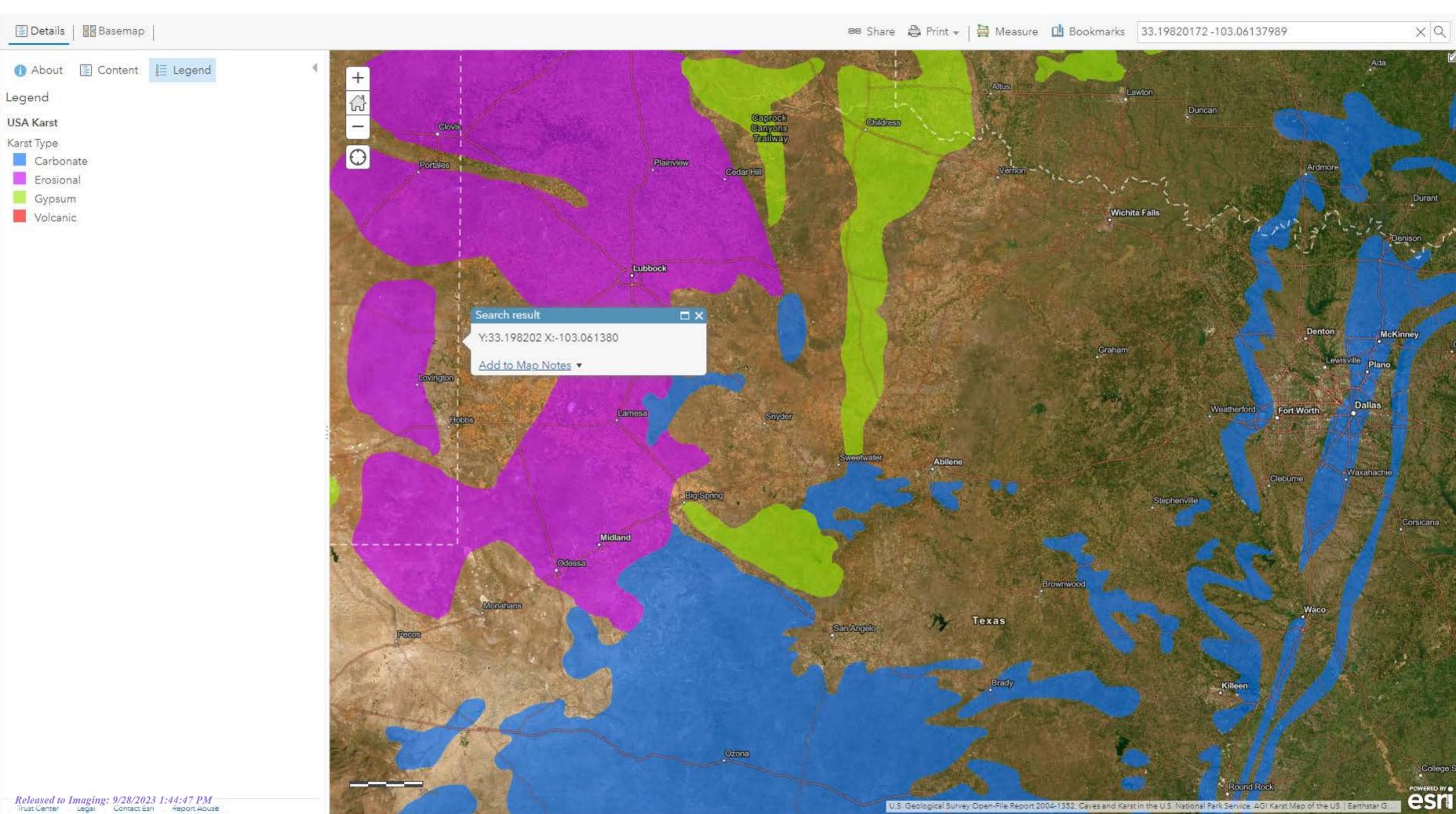


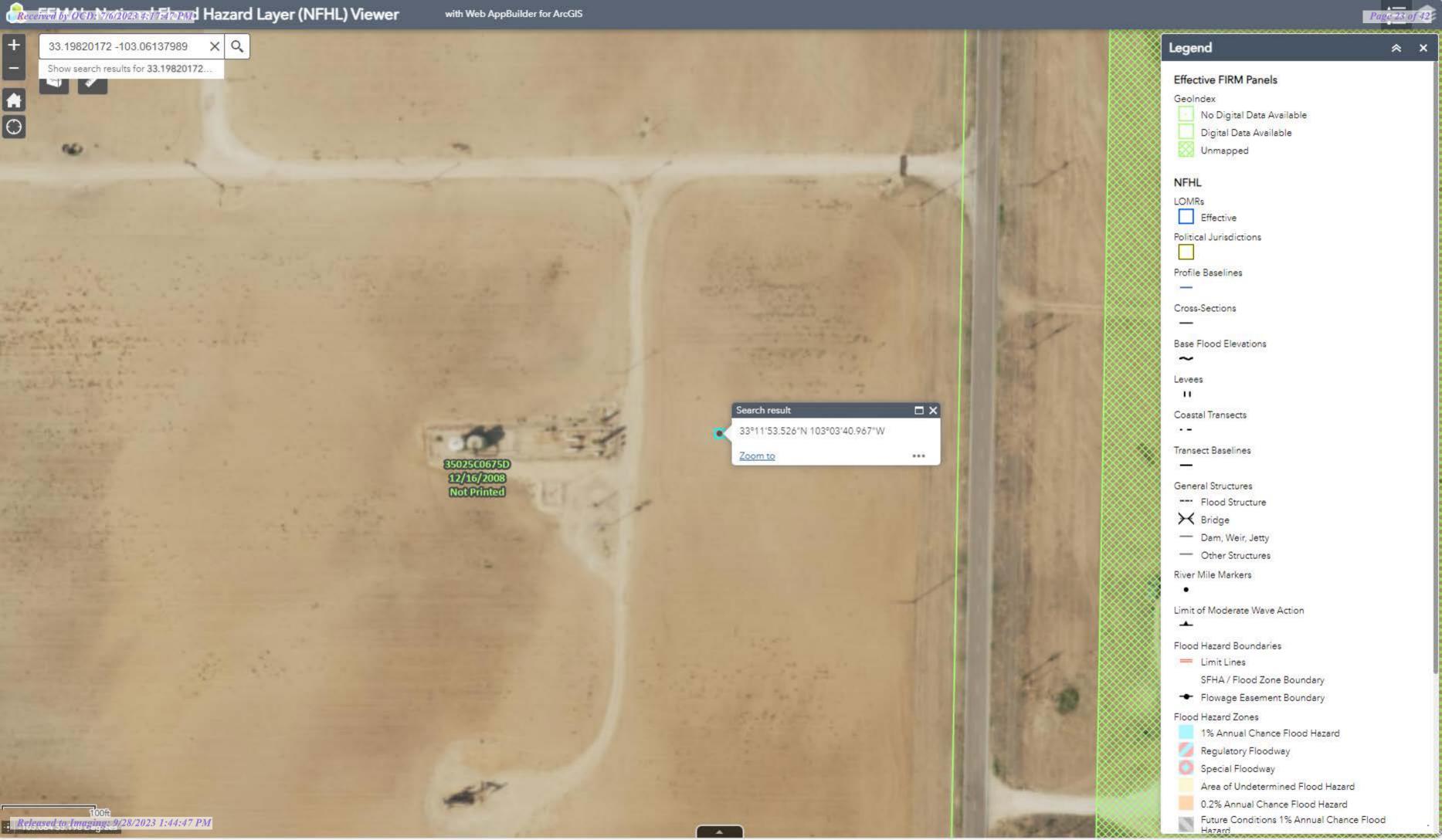


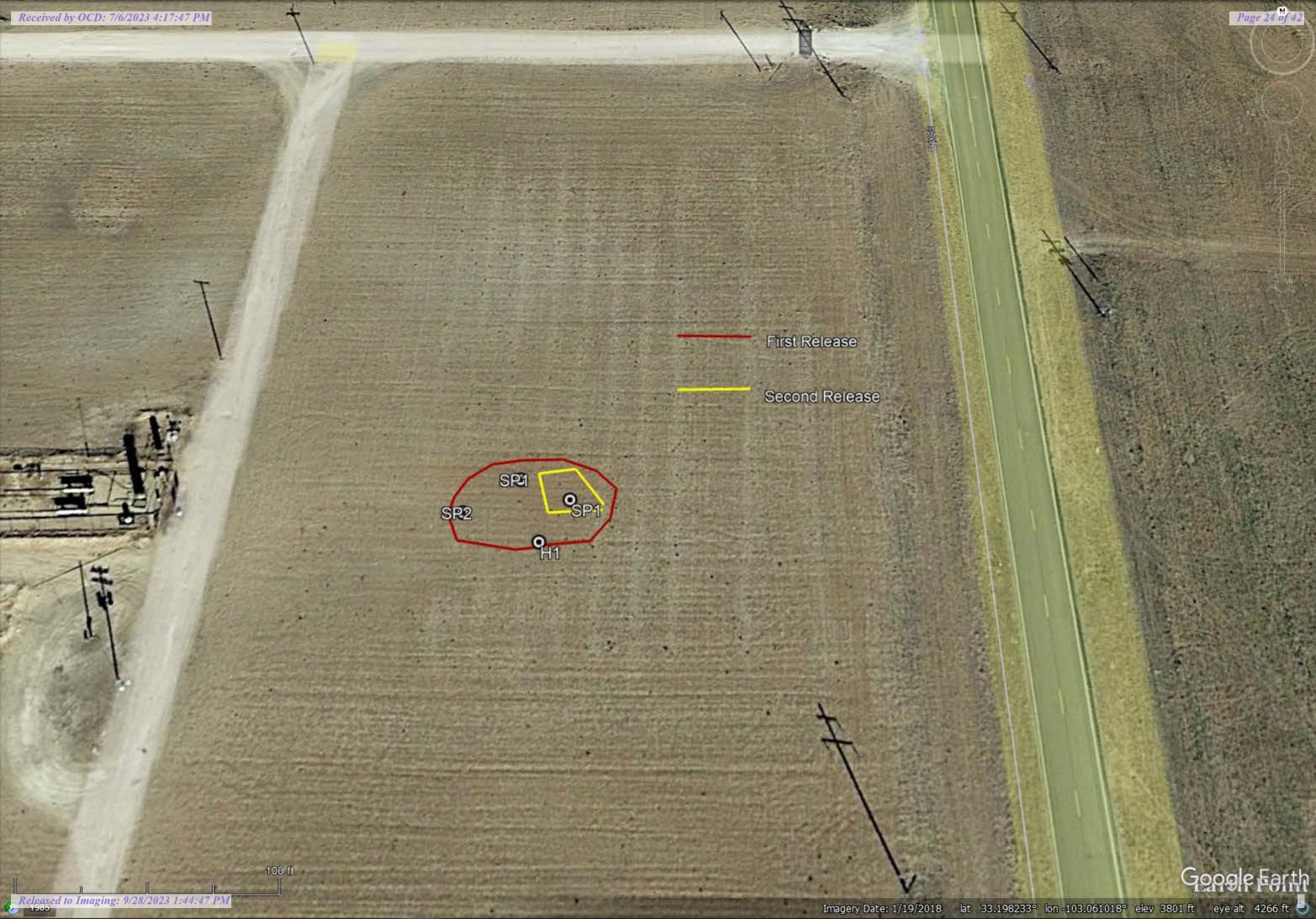
Page 21 of 42



A Received by OCD: 7/6/2023 4:17:47 PM







### Delineation Samples First Release

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
												33.1989627,
3/28/2023	SP1	Surface	5,600	<0.050	< 0.050	<0.050	0.27	< 0.300	<10.0	82.8	11.7	-103.0611563
		2'	4,320	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
		4'	3360	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
												33.1981239,
	SP2	Surface	14,100	<0.050	0.126	0.099	0.967	1.19	<10.0	31.3	<10.0	-103.0613363
		2'	5,200	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
		4'	2,960	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	
												33.1980681,
	H1	0-6"	48	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.0611492

### **Delineation Samples Second Release**

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz		Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
												33.1981764,
4/14/2023	SP1	4'	3680	<0.050	<0.050	<0.050	< 0.150	<0.300	<10.0	96.2	18.0	-103.0611526

### **Don Choya Young**

1241 FM 769 Plains, Texas 79355 (806) 592-1987

June 9, 2023

Re: Request to eliminate the remove & replacement of soil in Lea County, New Mexico

I, Don Choya Young, am requesting Operator, Apache Corporation, to not remove or replace the soil from my property due to a recent salt water disposal line leak. I have spoken with Apache Corporation and have made them aware of my request to not have the soil removed or replaced. It is my opinion through previous experiences that my crops are negatively impacted by the removal and replacement of the soil. I have had better results when the soil is left in place and treated.

### Location of line leak:

L1-14-13S-38E Lea County, NM Lat: 33019820172 Lng: 103.06137898 Approx: 3600 Sq. ft.

Name:

Don Choya Young (806) 592-1987



March 31, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BRONCO SWD LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 12:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Reported: 03/31/2023

Project Name: BRONCO SWD LINE Project Number: NONE GIVEN Project Location: NOT GIVEN

Sampling Condition: Sample Received By:

Sampling Date:

Sampling Type:

03/28/2023

Soil

Cool & Intact Tamara Oldaker

### Sample ID: SP 1 SURFACE (H231405-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	0.270	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	GC-NC1
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	82.8	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	11.7	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

A ... - I. ... - d D. ... 311 /

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Celey D. Keene



Tamara Oldaker

Sample Received By:

### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/31/2023 Sampling Type: Soil
Project Name: BRONCO SWD LINE Sampling Condition: Cool & Intact

Project Location: NOT GIVEN

NONE GIVEN

ma/ka

### Sample ID: SP 1 2' (H231405-02)

Project Number:

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	80.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

Analyzed By: 1H /

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Celey D. Keine



### Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023 Reported: 03/31/2023 Sampling Type: Soil

Project Name: **BRONCO SWD LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: SP 1 4' (H231405-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	80.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/31/2023 Sampling Type: Soil

Project Name: **BRONCO SWD LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

### **Sample ID: SP 2 SURFACE (H231405-04)**

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	0.126	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	0.099	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	0.967	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	GC-NC1
Total BTEX	1.19	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14100	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	31.3	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/31/2023 Sampling Type: Soil

Project Name: **BRONCO SWD LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

### Sample ID: SP 2 2' (H231405-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/31/2023 Sampling Type: Soil

Project Name: BRONCO SWD LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: NOT GIVEN

mg/kg

### Sample ID: SP 2 4' (H231405-06)

BTEX 8021B

	9/	9	7	<u>,,,</u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/31/2023 Sampling Type: Soil

Project Name: BRONCO SWD LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: NOT GIVEN

mg/kg

### Sample ID: H 1 (H231405-07)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/29/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	181	90.6	200	0.764	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

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. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	Apacho		BILL TO	ANA	ANALYSIS REQUEST
Project Manager:			P.O. #:		
Address:			Company:		
city: Habbs	State://2//	State: 1000 Zip: 89240	Attn:		
Phone #:	Fax #:		Address:		
Project #:	Project Owner:		City:		
Project Name:			State: Zip:		
Project Location:	Bronco Swo Line		Phone #:		
Sampler Name:	Juesach		Fax #:	1/	
FOR LAB USE ONLY	- 1	MATRIX	PRESERV. SAME	SAMPLING	
Lab I.D.	Sample I.D.		/BASE:	TEX XT TI	
Hasimos		GRO WAS SOIL SLU		- C	
7	op survey	2.5		10:53	
	100 4.	6 -	-	10,50	
4	Spa surface	5 -	-	10:54 [ 1 1 1	
5	502 2'	6 1	-	10:58 ( 1 1	
6		5 -	-	11:00 1 1 1	
7	HI.		-	11:02 1 1 1	•
PLEASE NOTE: Liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	y claim arising whether based in contract o	r tort, shall be limited to the amount paid	by the client for the	
inalyses. All claims including service. In no event shall Card iffiliates or successors arising	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal et liable for incidental or consequential amanges, including whore the state of successors arising out of or related to the performance of services because of whother such claims is based upon any of the above stated reasons or difficulties.	Siscover shall be deemed walved unless made in writing and received by Cardinal within 30 days atto amages, including whotout limitation, business interruptions, loss of use, or loss of profits incurred by the program of the deemed to the control of the program	received by Cardinal within 30 days after ss of use, or loss of profits incurred by compassed upon any of the above stated re-	r completion of the applicable lient, its subsidiaries, asons or office wiso.	
5	Date	Received By:	) )	Verbal Result: ☐ Yes ☐ No Add'! Phone #: All Results are emailed. Please provide Email address:	Add'I Phone #: ide Email address:
2050 Chilosofc	Woods Time: //:		7575		
B	9 28	/23 Received By:	MM 11	REMARKS:	
VEN	0105<0 Time: 24	Jamara &	1 das to	E-Ma:/ Kesu/45	
Delivered By: (Circle One)			n CHECKED BY: (Initials)	Turnaround Time: Standard []	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:		3.0 Dres Dres		Thermometer ID #113	☐ Yes ☐ Yes



April 20, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BRONCO SWD LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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



### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

(\* - / - - -

Received: 04/14/2023 Sampling Date: 04/14/2023

Reported: 04/20/2023 Sampling Type: Soil

Project Name: BRONCO SWD LINE Sampling Condition: Cool & Intact
Project Number: (#2) Sample Received By: Tamara Oldaker

A ... - b ... - d D. .. 711

Project Location: NOT GIVEN

### Sample ID: SP 1 @ 4' (H231815-01)

BTEX 8021B	mg,	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2023	ND	1.81	90.4	2.00	15.9	
Toluene*	<0.050	0.050	04/19/2023	ND	1.87	93.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	1.90	95.1	2.00	16.1	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	5.83	97.2	6.00	14.8	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	04/19/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2023	ND	179	89.6	200	2.79	
DRO >C10-C28*	96.2	10.0	04/19/2023	ND	175	87.4	200	2.11	
EXT DRO >C28-C36	18.0	10.0	04/19/2023	ND					
Surrogate: 1-Chlorooctane	103 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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### **Notes and Definitions**

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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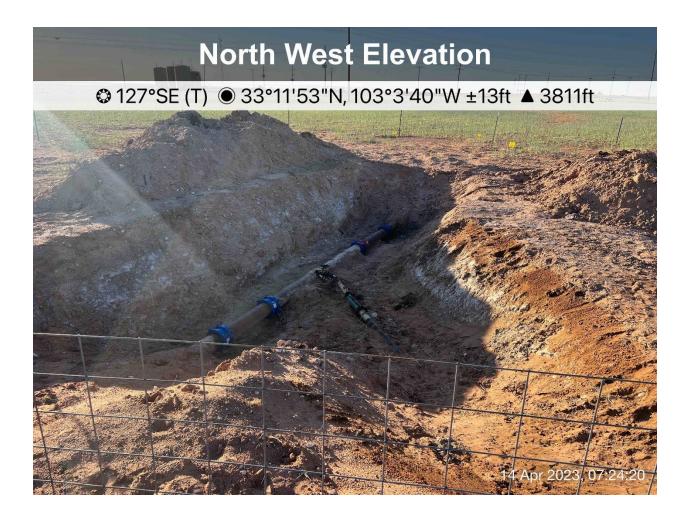
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Celeg D. Freene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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



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

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 236872

### **CONDITIONS**

	o o pup
Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	236872
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Variance request from landowner to forego the reclamation standards for the top 4 feet is approved. Closure report approved; release resolved.	9/28/2023