



303 Veterans Airpark Lane Midland, TX 79705

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.

Larry Baker

Environmental Technician SR. Staff

larry.baker@apachecorp.com

Office # 432-818-1654

Cell# 432-250-8384

Incident ID	
District RP	
Facility ID	
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?	<u>110</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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.

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

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: 7/7/2023

Incident ID	
District RP	
Facility ID	
Application ID	

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.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker

Title: Environmental Tech Sr. Staff

Signature: Larry Baker

Date: 7/6/2023

email: larry.baker@apachecorp.com

Telephone: _____

OCD Only

Received by: Shelly Wells

Date: 7/7/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez

Date: 09/28/2023

Printed Name: Nelson Velez

Title: Environmental Specialist - Adv

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 <input type="checkbox"/>

Driller License:	1607	Driller Company:	DURAN DRILLING
Driller Name:	DURAN, LUIS		
Drill Start Date:	04/23/2011	Drill Finish Date:	04/26/2011
Log File Date:	04/28/2011	PCW Rev Date:	01/16/1964
Pump Type:	TURBIN	Pipe Discharge Size:	
Casing Size:	10.00	Depth Well:	270 feet
		Estimated Yield:	200 GPM
		Depth Water:	110 feet

Water Bearing Stratifications:	Top	Bottom	Description
	190	220	Sandstone/Gravel/Conglomerate
	235	265	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	120	270

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	Y
L	00568	2	1	3	14	13S	38E	679641	3674080* <input type="checkbox"/>

Driller License:	1622	Driller Company:	WEST TEX EXPLORATION	
Driller Name:	MENDOZA, ERNESTO			
Drill Start Date:	12/01/2009	Drill Finish Date:	12/01/2009	Plug Date:
Log File Date:	02/03/2010	PCW Rev Date:	02/03/2010	Source: Shallow
Pump Type:	TURBIN	Pipe Discharge Size:	6	Estimated Yield: 650 GPM
Casing Size:	12.00	Depth Well:	292 feet	Depth Water: 130 feet

Water Bearing Stratifications:	Top	Bottom	Description
	152	289	Other/Unknown

Casing Perforations:	Top	Bottom
	130	292

Meter Number:	20318	Meter Make:	MCCROMETER
Meter Serial Number:	GP13-2493MCC	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	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	dd		0

**YTD Meter Amounts:	Year	Amount
	2020	0

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-201**



GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2556201
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	121OGLL - 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	

Well Type	Withdrawal of Water
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

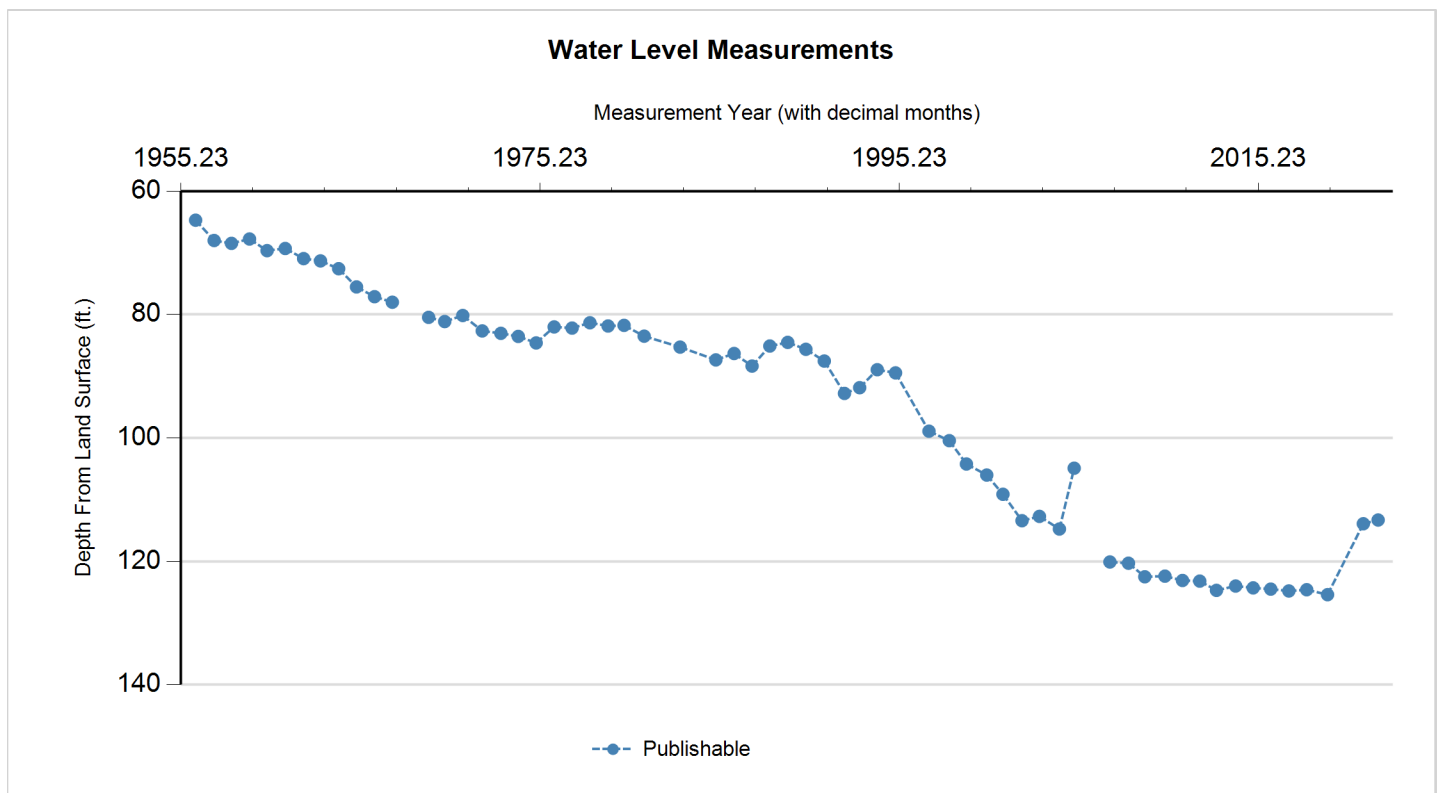
Casing

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**



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-201**



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
P	1/19/1956		64.7		3726.3	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/31/1957		68	3.30	3723	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/18/1958		68.46	0.46	3722.54	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/20/1959		67.75	(0.71)	3723.25	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/12/1960		69.64	1.89	3721.36	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/16/1961		69.29	(0.35)	3721.71	1	Texas Water Development Board	Unknown		
P	1/25/1962		70.93	1.64	3720.07	1	Texas Water Development Board	Steel Tape		
P	1/3/1963		71.3	0.37	3719.7	1	Texas Water Development Board	Steel Tape		
P	1/7/1964		72.57	1.27	3718.43	1	Texas Water Development Board	Steel Tape		
P	1/5/1965		75.52	2.95	3715.48	1	Texas Water Development Board	Steel Tape		
P	1/6/1966		77.1	1.58	3713.9	1	Texas Water Development Board	Steel Tape		
P	1/3/1967		78	0.90	3713	1	Texas Water Development Board	Steel Tape		
X	1/21/1968					1	Texas Water Development Board		30	
P	1/11/1969		80.45		3710.55	1	Texas Water Development Board	Steel Tape		
P	12/8/1969		81.13	0.68	3709.87	1	Texas Water Development Board	Steel Tape		
P	12/10/1970		80.15	(0.98)	3710.85	1	Texas Water Development Board	Steel Tape		
P	1/6/1972		82.65	2.50	3708.35	1	Texas Water Development Board	Steel Tape		
P	1/20/1973		83.04	0.39	3707.96	1	Texas Water Development Board	Steel Tape		



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-201**



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
P	1/8/1974		83.54	0.50	3707.46	1	Texas Water Development Board	Steel Tape		
P	1/7/1975		84.6	1.06	3706.4	1	Texas Water Development Board	Steel Tape		
P	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		
P	1/5/1978		81.33	(0.86)	3709.67	1	Texas Water Development Board	Steel Tape		
P	1/9/1979		81.85	0.52	3709.15	1	Texas Water Development Board	Steel Tape		
P	12/4/1979		81.75	(0.10)	3709.25	1	Texas Water Development Board	Steel Tape		
P	1/13/1981		83.5	1.75	3707.5	1	Texas Water Development Board	Steel Tape		
P	1/13/1983		85.27	1.77	3705.73	1	Texas Water Development Board	Steel Tape		
P	1/10/1985		87.35	2.08	3703.65	1	Texas Water Development Board	Steel Tape		
P	1/16/1986		86.31	(1.04)	3704.69	1	Texas Water Development Board	Steel Tape		
P	1/16/1987		88.35	2.04	3702.65	1	Texas Water Development Board	Steel Tape		
P	1/12/1988		85.1	(3.25)	3705.9	1	Texas Water Development Board	Steel Tape		
P	1/11/1989		84.51	(0.59)	3706.49	1	Texas Water Development Board	Steel Tape		
P	1/15/1990		85.63	1.12	3705.37	1	Texas Water Development Board	Steel Tape		
P	1/24/1991		87.53	1.90	3703.47	1	Groundwater Conservation District	Electric Line		
P	3/9/1992		92.78	5.25	3698.22	1	Groundwater Conservation District	Electric Line		
P	1/13/1993		91.85	(0.93)	3699.15	1	Groundwater Conservation District	Electric Line		
P	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	1	Groundwater Conservation District	Electric Line		
P	12/29/1998		104.22	3.78	3686.78	1	Groundwater Conservation District	Electric Line		
P	2/12/2000		106.01	1.79	3684.99	1	Groundwater Conservation District	Electric Line		
P	1/6/2001		109.13	3.12	3681.87	1	Groundwater Conservation District	Electric Line		
P	1/28/2002		113.41	4.28	3677.59	1	Groundwater Conservation District	Electric Line		
P	1/18/2003		112.71	(0.70)	3678.29	1	Groundwater Conservation District	Electric Line		
P	1/0/2004		114.76	2.05	3676.24	1	Groundwater Conservation District	Electric Line		
P	12/29/2004		104.9	(9.86)	3686.1	1	Groundwater Conservation District	Steel Tape		
X	12/29/2005					1	Groundwater Conservation District		31	
P	12/26/2006		120.1		3670.9	1	Groundwater Conservation District	Electric Line		
P	1/3/2008		120.3	0.20	3670.7	1	Groundwater Conservation District	Electric Line		
P	12/5/2008		122.5	2.20	3668.5	1	Groundwater Conservation District	Electric Line		



Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-201



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
P	1/14/2010		122.4	(0.10)	3668.6	1	Groundwater Conservation District	Steel Tape		
P	1/6/2011		123.1	0.70	3667.9	1	Groundwater Conservation District	Steel Tape		
P	12/27/2011		123.2	0.10	3667.8	1	Groundwater Conservation District	Electric Line		
P	12/2/2012		124.7	1.50	3666.3	1	Groundwater Conservation District	Electric Line		
P	12/26/2013		124	(0.70)	3667	1	Groundwater Conservation District	Electric Line		
P	12/18/2014		124.3	0.30	3666.7	1	Groundwater Conservation District	Steel Tape		
P	12/10/2015		124.5	0.20	3666.5	1	Groundwater Conservation District	Electric Line		
P	12/13/2016		124.8	0.30	3666.2	1	Groundwater Conservation District	Electric Line		
P	12/11/2017		124.6	(0.20)	3666.4	1	Groundwater Conservation District	Electric Line		
P	2/5/2019		125.4	0.80	3665.6	1	Groundwater Conservation District	Electric Line		
P	2/2/2021		113.9	(11.50)	3677.1	1	Groundwater Conservation District	Electric Line		
P	12/3/2021		113.3	(0.60)	3677.7	1	Groundwater Conservation District	Electric Line		

Code Descriptions

Status Code	Status Description
P	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



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-201**



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 CaCO ₃)		159	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		194.04	mg/L	
00910	CALCIUM (MG/L)		148	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		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 CaCO ₃)		529	mg/L	
00920	MAGNESIUM (MG/L)		39	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃)		5.3	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.4	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO ₂)		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 SO ₄)		354	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		19	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		982	mg/L	

* 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/gwdb rpt.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.



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-502**



GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2556502
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	121OGLL - 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

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	Lloyd 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

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

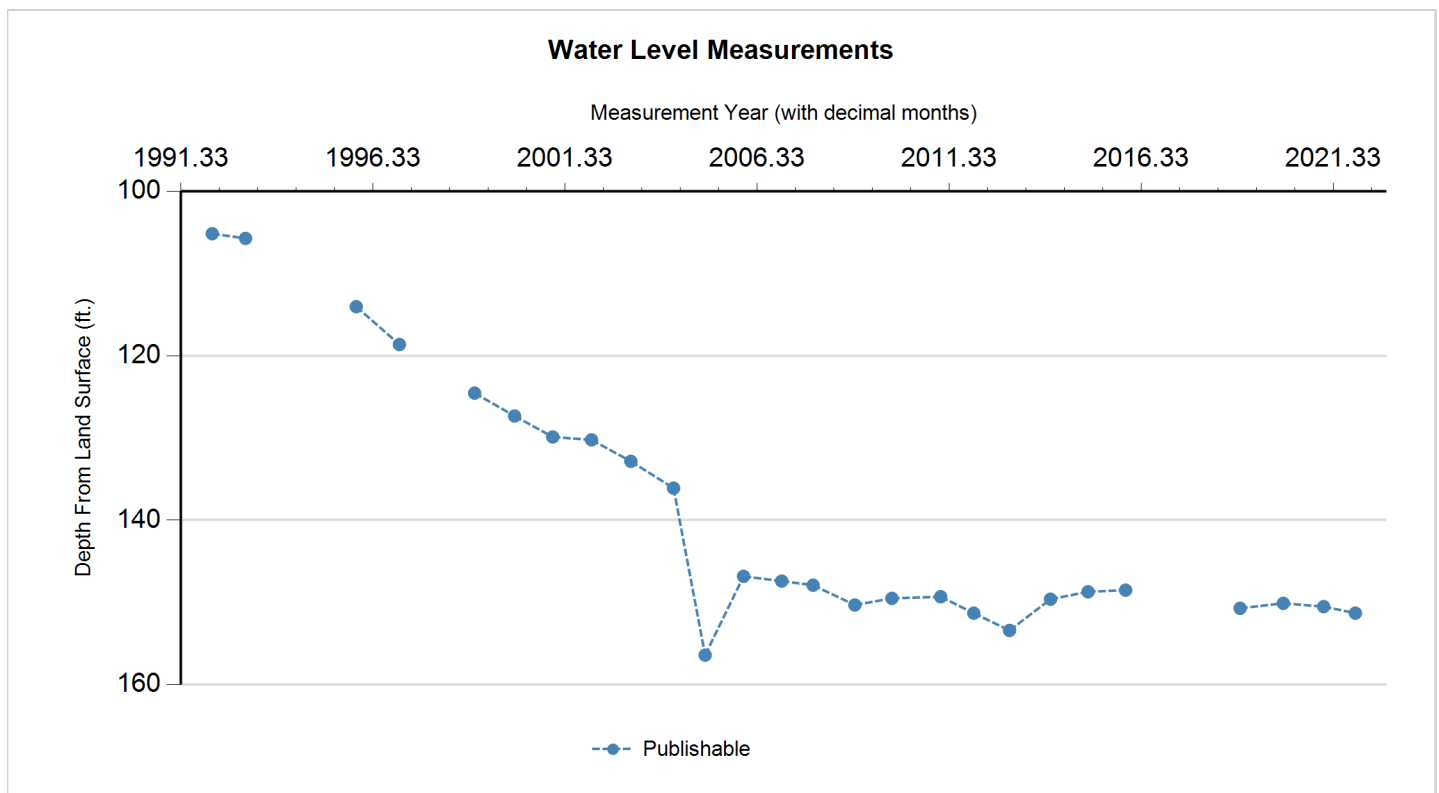
Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-502**



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
P	2/25/1992		105.17		3691.83	1	Groundwater Conservation District	Electric Line		
P	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	
P	11/29/1995		114.04		3682.96	1	Groundwater Conservation District	Electric Line		
P	1/9/1997		118.64	4.60	3678.36	1	Groundwater Conservation District	Electric Line		
X	1/10/1998					1	Groundwater Conservation District		20	
P	12/29/1998		124.55		3672.45	1	Groundwater Conservation District	Electric Line		
P	1/8/2000		127.33	2.78	3669.67	1	Groundwater Conservation District	Electric Line		
P	1/6/2001		129.88	2.55	3667.12	1	Groundwater Conservation District	Electric Line		
P	1/9/2002		130.23	0.35	3666.77	1	Groundwater Conservation District	Electric Line		
P	1/18/2003		132.84	2.61	3664.16	1	Groundwater Conservation District	Electric Line		
P	1/0/2004		136.1	3.26	3660.9	1	Groundwater Conservation District	Electric Line		
P	12/29/2004		156.4	20.30	3640.6	1	Groundwater Conservation District	Steel Tape		



**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-502**



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
P	12/29/2005		146.82	(9.58)	3650.18	1	Groundwater Conservation District	Steel Tape		
P	12/27/2006		147.4	0.58	3649.6	1	Groundwater Conservation District	Electric Line		
P	10/20/2007		147.9	0.50	3649.1	1	Groundwater Conservation District	Electric Line		
P	11/22/2008		150.3	2.40	3646.7	1	Groundwater Conservation District	Electric Line		
P	11/9/2009		149.5	(0.80)	3647.5	1	Groundwater Conservation District	Steel Tape		
P	2/12/2011		149.3	(0.20)	3647.7	1	Groundwater Conservation District	Steel Tape		
P	12/27/2011		151.3	2.00	3645.7	1	Groundwater Conservation District	Electric Line		
P	12/2/2012		153.4	2.10	3643.6	1	Groundwater Conservation District	Electric Line		
P	12/26/2013		149.6	(3.80)	3647.4	1	Groundwater Conservation District	Electric Line		
P	12/18/2014		148.7	(0.90)	3648.3	1	Groundwater Conservation District	Steel Tape		
P	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
P	12/3/2018		150.7		3646.3	1	Groundwater Conservation District	Electric Line		
P	1/13/2020		150.1	(0.60)	3646.9	1	Groundwater Conservation District	Electric Line		
P	2/2/2021		150.5	0.40	3646.5	1	Groundwater Conservation District	Electric Line		
P	12/3/2021		151.3	0.80	3645.7	1	Groundwater Conservation District	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable
X	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

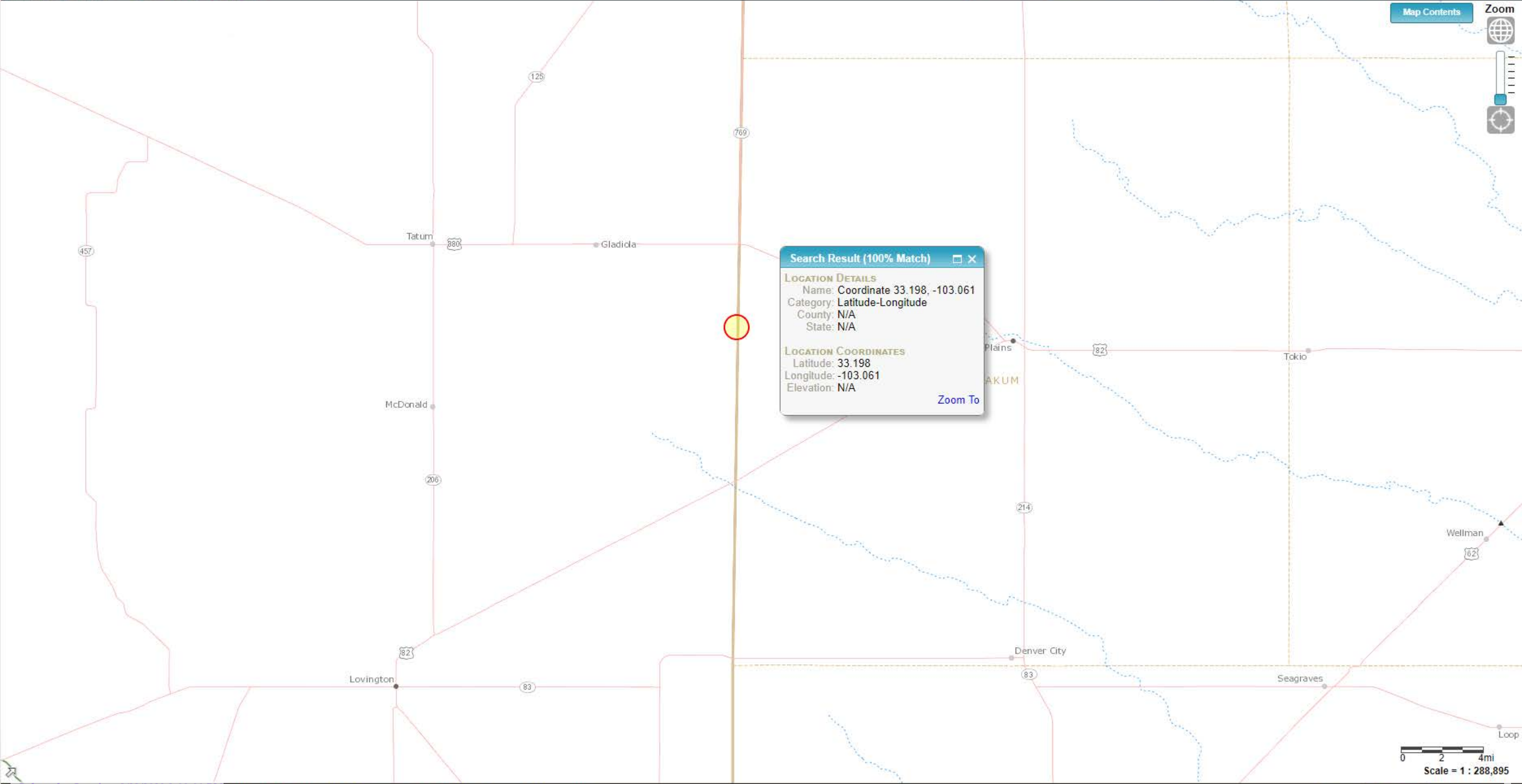


**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
25-56-502**



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/gwdb.rpt.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.



Line Path Polygon Circle 3D path 3D polygon

Measure the circumference or area of a circle on the ground

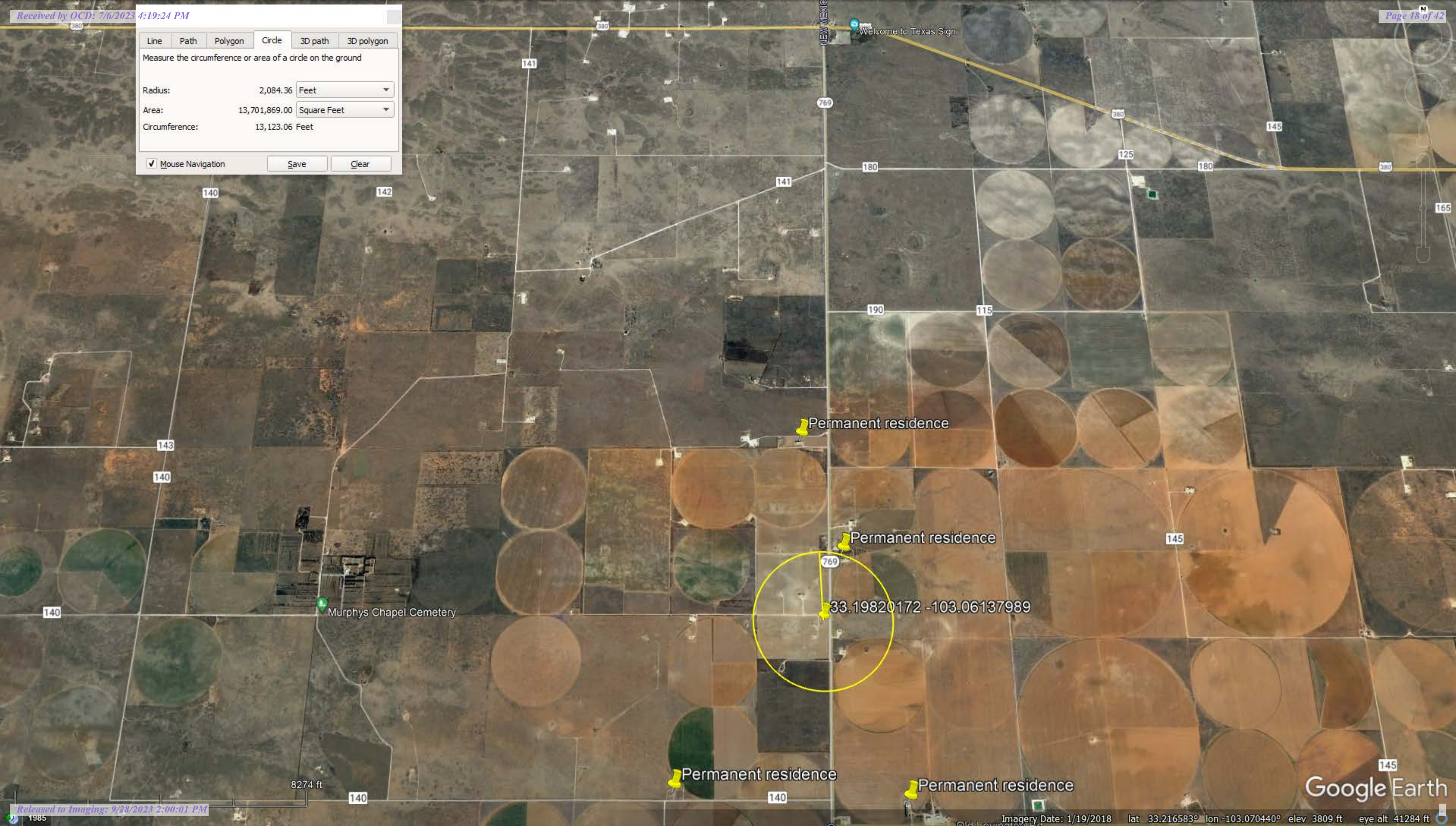
Radius: 2,084.36 Feet

Area: 13,701,869.00 Square Feet

Circumference: 13,123.06 Feet

☒ Mouse Navigation

Save Clear













Layers

- Q 11



BASEMAPS >

- STREETS
- SATELLITE
- HYBRID
- TOPO
- TERRAIN
- GRAY
- OPEN STREET MAP
- NATGEO
- USGS TOPO
- NAT'L MAP

MAP LAYERS >

+

-









Measure







LEGEND

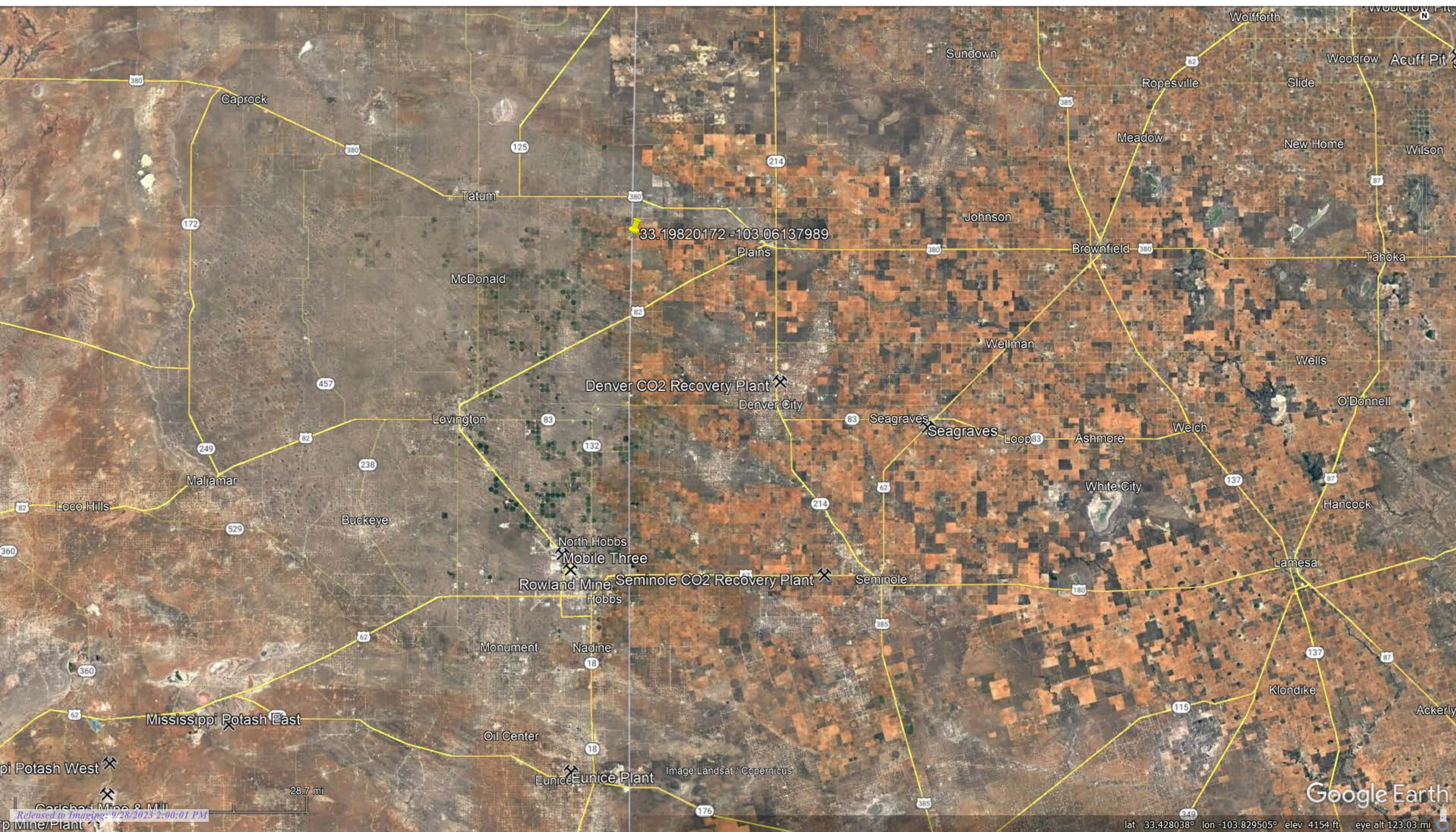
Wetlands

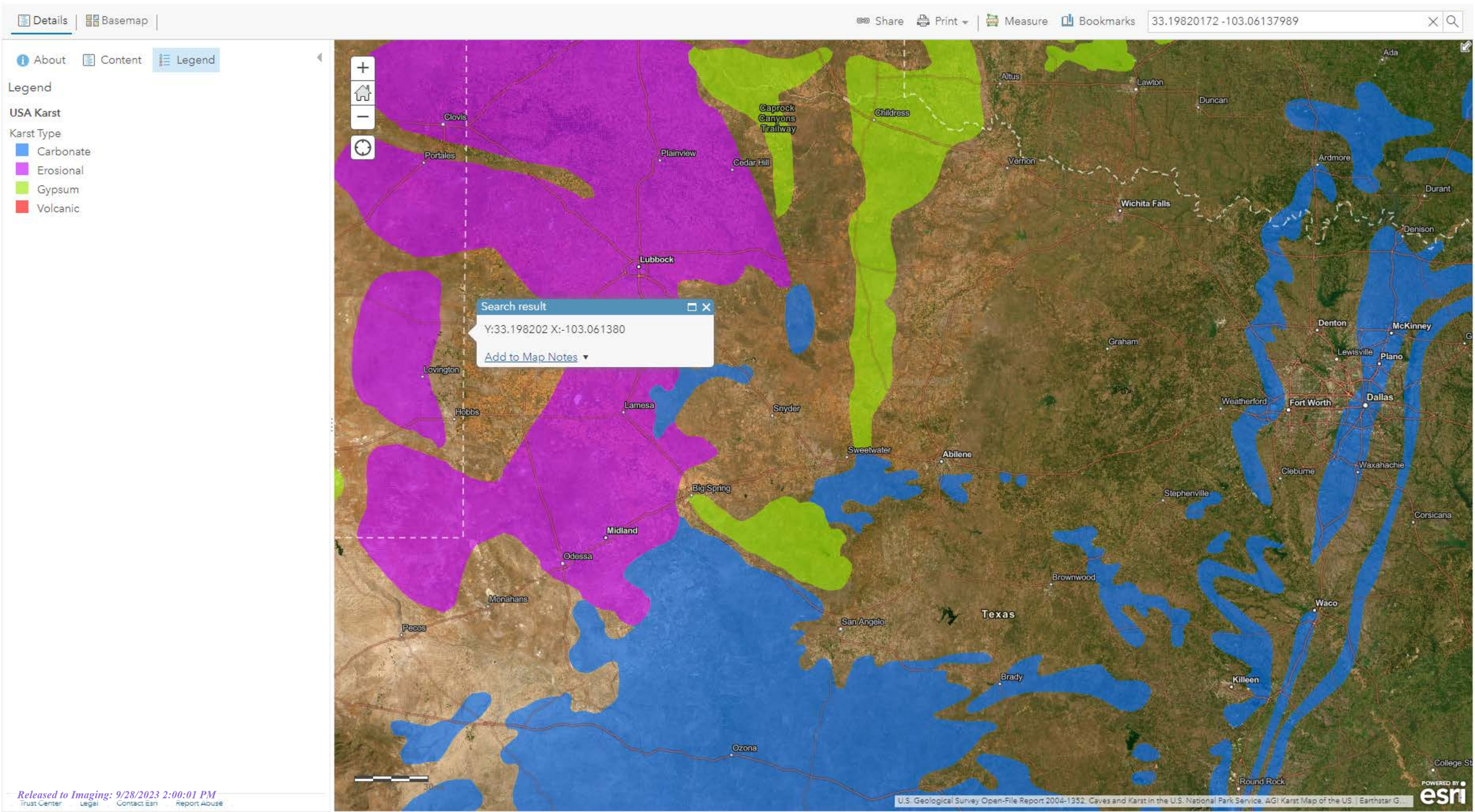
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

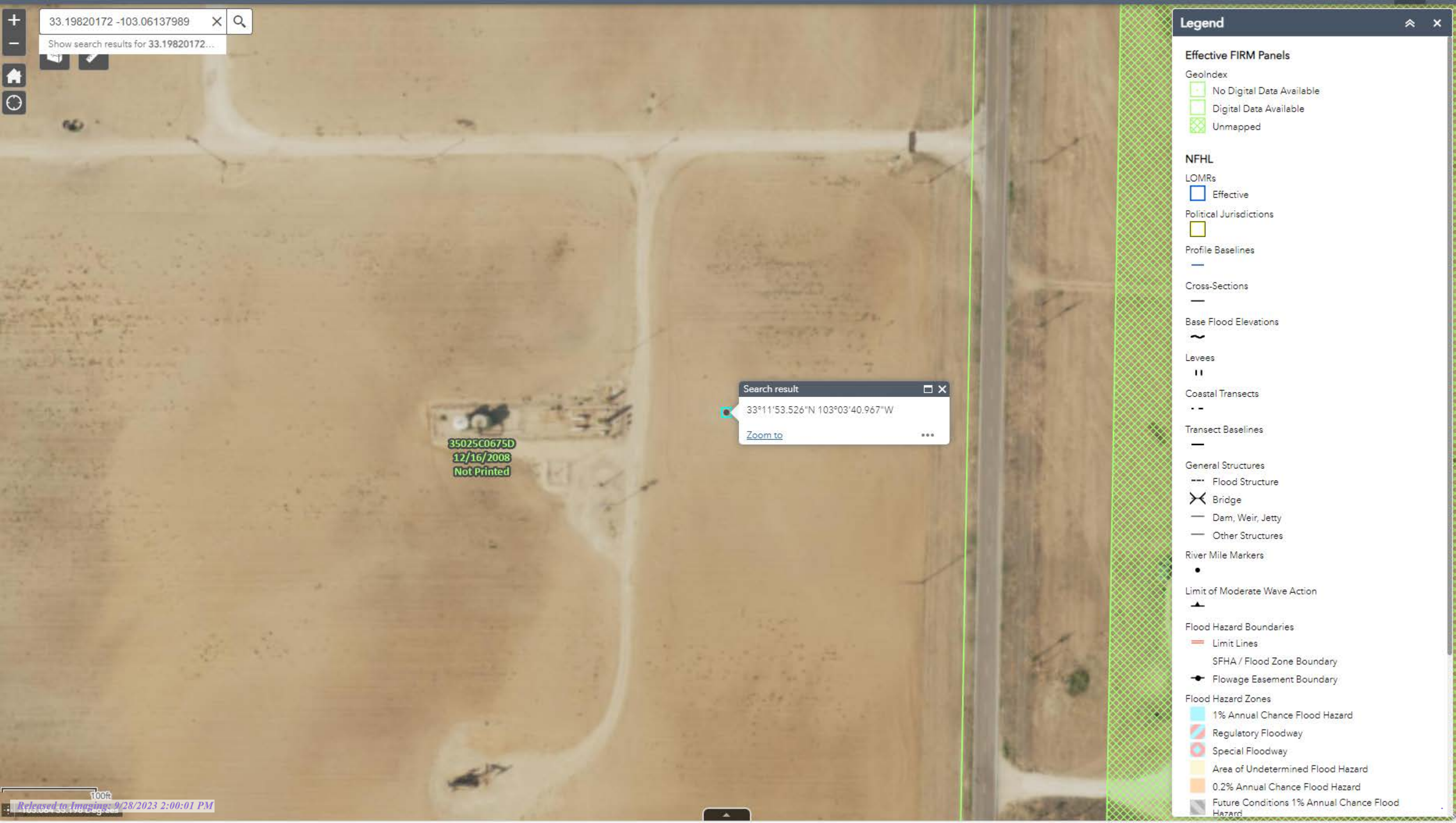
Riparian

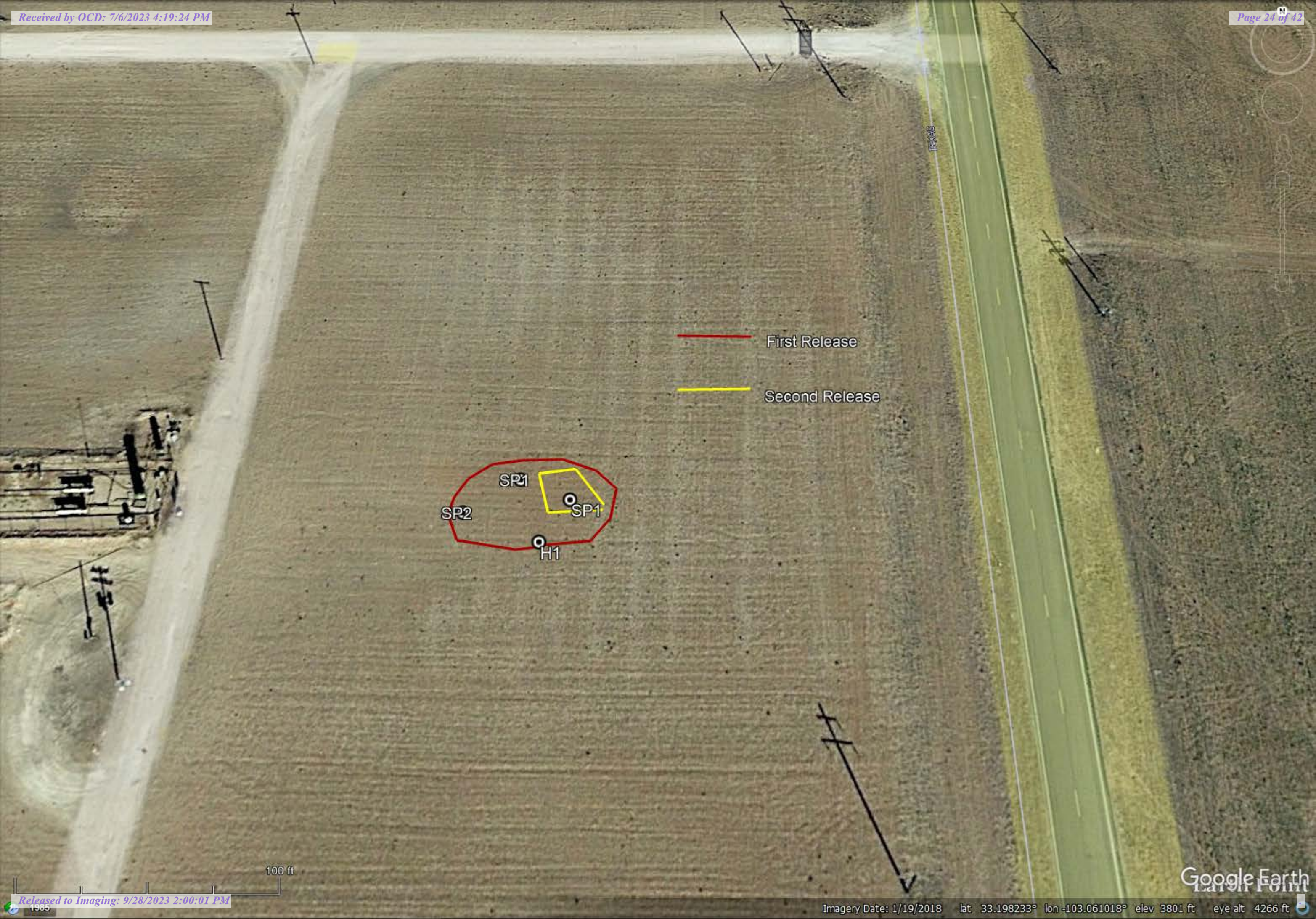
- Forested/Shrub
- Herbaceous

1:4,514
33.198 | -103.070









[illegible][illegible]

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



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

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

Cardinal Laboratories is accredited 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.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 SURFACE (H231405-01)

BTX 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	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 BTX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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	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 BTX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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	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 BTX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 SURFACE (H231405-04)

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	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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	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 BTX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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	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 BTX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 Date: 03/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 1 (H231405-07)

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	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories is accredited 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.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/14/2023
 Reported: 04/20/2023
 Project Name: BRONCO SWD LINE
 Project Number: (#2)
 Project Location: NOT GIVEN

Sampling Date: 04/14/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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 BTX	<0.300	0.300	04/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>B. Baker</u>				P.O. #:																							
Address:				Company:																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name:				State: Zip:																							
Project Location: <u>Bronco SWD Line (#2)</u>				Phone #:																							
Sampler Name: <u>Sosa Quessach</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<u>H231815</u>	<u>1 spl @ 4'</u>	<u>G</u>	<u>1</u>			<u>1</u>					<u>1</u>		<u>4/14</u>	<u>8:18</u>	<u>1</u>	<u>1</u>	<u>1</u>										

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Relinquished By: <u>Sosa Quessach</u>		Date: <u>4/14/23</u>	Received By: <u>Jamara Aldridge</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>3:37pm</u>		Time:		All Results are emailed. Please provide Email address:		
Relinquished By:		Date:	Received By:		REMARKS: <u>E-Mail Results</u>	
Time:						
Delivered By: (Circle One)		Observed Temp. °C <u>4.0</u>	Sample Condition		CHECKED BY: (Initials) <u>YO</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>3.4</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
			Bacteria (only) Sample Condition		Thermometer ID #113 Correction Factor -0.6°C	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
			Corrected Temp. °C			

FORM-006 R 3.3 07/18/22

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



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 236873

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 236873
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition 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