Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nJXK1613930931
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: Dennis Pender Title: Environmental

Signature: Dennis Pender Date: 9-20-2022

email: dpender@gwdc.com Telephone: 432-682-5241 x 141

OCD Only

Received by: OCD Date: 10/24/2022

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: Date: 2/22/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Remediation Summary and Closure Request

Great Western Drilling Co.
South Carter SA Unit #301
Lea County, New Mexico
Unit Letter "B", Section 8, Township 18 South, Range 39 East
Latitude 32.766965 North, Longitude 103.067084 West
NMOCD Incident # nJXK1613930931

Prepared For:

Great Western Drilling Co.
PO Box 1659
Midland, TX 79701

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

October 2022

Bradley Wells
Project Manager
bwells@hungry-horse.com

Daniel Dominguez
Environmental Manager
ddominguez@hungry-horse.com

Table Of Contents

HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter B (NW/NE), Section 8, Township 18 South, Range 39 East, approximately 4.5 miles northeast of Hobbs, in Lea County, New Mexico. The property is privately owned. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The historic release occurred behind an active tank battery; Latitude 32.766965 North, Longitude 103.067084 West. The Initial NMOCD Form C-141 indicated that at Location of Interest Three, identified as South Carter SA Unit #301 Tank Battery, a release occurred on an unknown date, with an unknown amount of fluid released, due to an unknown cause. Great Western Drilling Co. investigated the area and submitted the Initial C-141 at the request of the NMOCD. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form C-141 Closure page is included as Attachment V.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 & 3.

Ten water wells were located within a half mile of the release area; however, only two of the wells have groundwater data less than twenty-five years old. Therefore, only these two wells, L 11158 POD2 and L 00873 POD4, were utilized to determine depth to groundwater. However, as this location of interest is historical, the site was delineated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
>100'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

Delineation and Remediation Activities:

On April 19, 2022, Hungry Horse conducted an initial site assessment, consisting of mapping and photographing the location of interest. On May 3, 2022, Hungry Horse personnel collected composite surface samples from within the location of interest area. These sample locations are identified by SP designation. The soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, two representative composite soil samples were selected for laboratory analysis. Surface soil samples SP1 and SP2 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On September 29, 2022, Hungry Horse and Great Western met with NMOCD, via Teams, to discuss this location of interest regarding options to advance the site toward approved closure. NMOCD requested further sampling consisting of soil samples collected at the surface, and one through four feet bgs, from three sample locations, SP1, SP2, and SP3.

On October 4, 2022, Hungry Horse personnel arrived onsite to conduct requested sampling of the location. Fifteen representative soil samples, five from each sample location, were collected, field screened for chlorides via an EC meter, and sent for laboratory analysis. Soil samples collected from the surface through three feet bgs were submitted to the laboratory for analysis of chloride. Soil samples collected at four feet bgs were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

A Delineation Sample Map is provided as Figure 4. Field data is provided as Attachment III. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, excavation activities are not required at this location of interest. The area will be seeded with an approved seed mixture during the first favorable growing season following these completed remediation activities.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical results from confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Great Western Drilling Co. respectfully requests closure of the South Carter Unit #301 Tank Battery location, nJXK1613930931.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Distribution:

Great Western Drilling Co
PO Box 1659
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

Figures

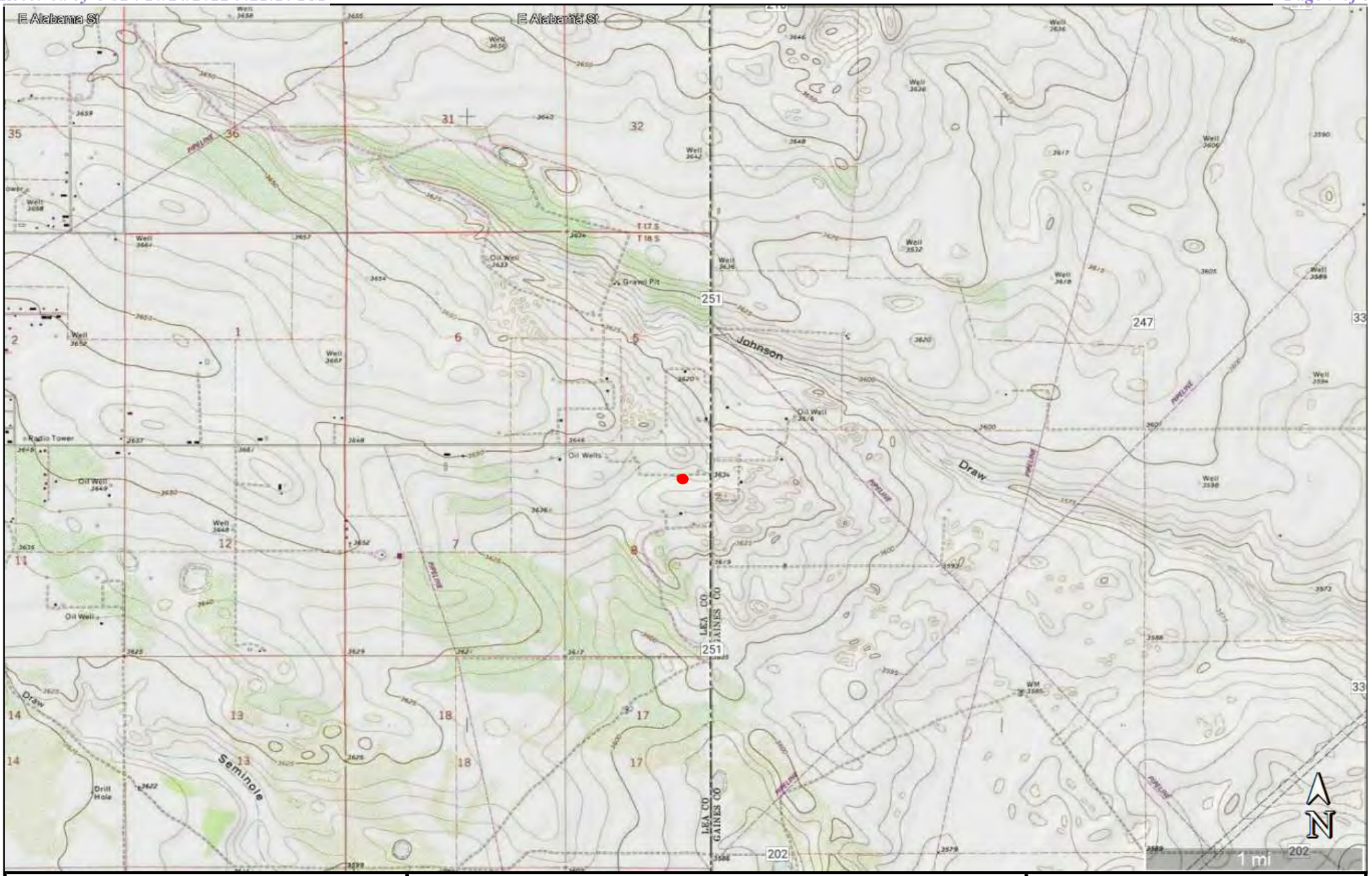


Figure 1
Topographic Map
Great Western Drilling
South Carter SA Unit #301
GPS: 32.766965, -103.067084
Lea County

Legend:

- South Carter SA Unit #301 Location

Drafted: dd
Checked: bw
Date: 5/4/22

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 2

OSE POD Locations Map

Great Western Drilling

South Carter SA Unit #301

GPS: 32.766965, -103.067084

Lea County

Legend:

- South Carter SA Unit #301 Location
- Active OSE Water Well
- Plugged OSE Water Well
- Pending OSE Water Well

Drafted: dd

Checked: bw

Date: 5/4/22

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 3

USGS Well Locations Map
Great Western Drilling
South Carter SA Unit #301
GPS: 32.766965, -103.067084
Lea County

Legend:

- South Carter SA Unit #301 Location
- USGS Well Location

Drafted: dd
Checked: bw
Date: 5/4/22

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Figure 4
Delineation Sample Map
Great Western Drilling
South Carter SA Unit #301
GPS: 32.766965, -103.067084
Lea County

Legend:
Release Area
SP1 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 9/30/22

HUNGRY HORSE ENVIRONMENTAL & CONSTRUCTION

Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Great Western Drilling
South Carter SA Unit #301
NMOCD Ref. #: nJXK1613930931

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2	5/3/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP1	32.766906, -103.066864										
	10/4/22	Surf	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	1	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	2	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	3	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP2	32.766893, -103.067101										
	10/4/22	Surf	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	1	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	2	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	3	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP3	32.766889, -103.067197										
	10/4/22	Surf	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	1	In-Situ	-	-	-	-	-	-	-	16.0
	10/4/22	2	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	3	In-Situ	-	-	-	-	-	-	-	32.0
	10/4/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**N/A**	**-**	**100**	**600**

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I
Site Photographs

Photographs

Photo: 1	Description: Location of Interest 3 April 2022

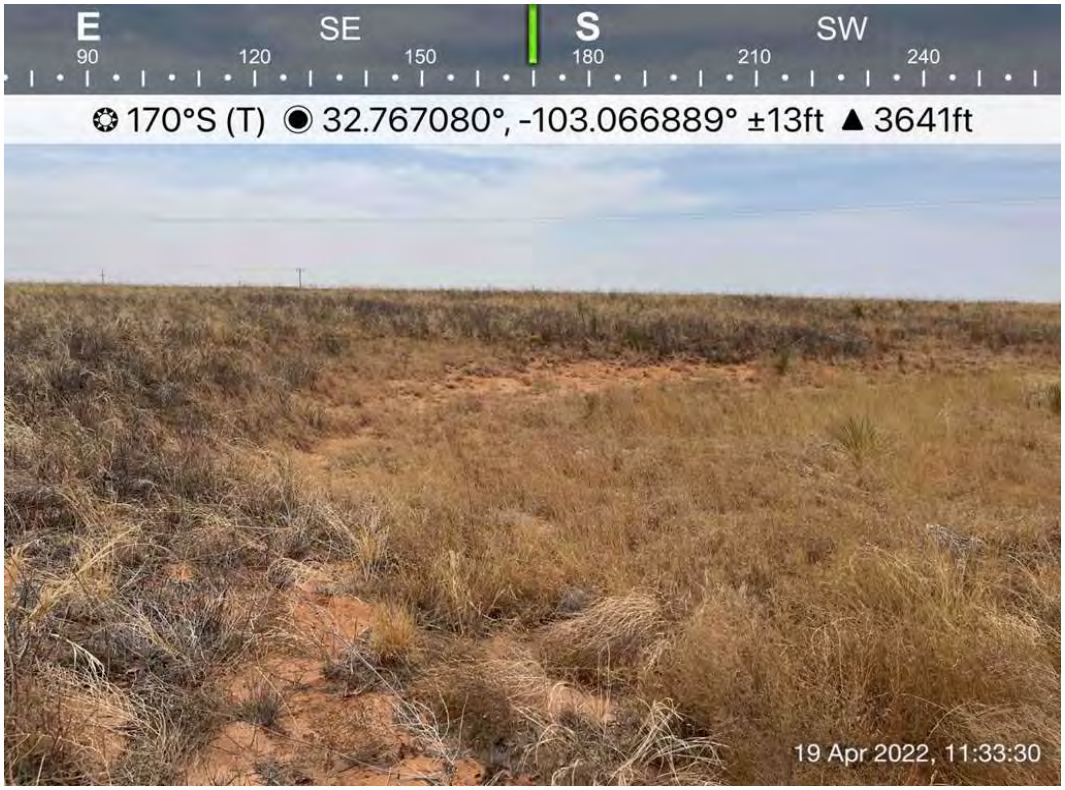
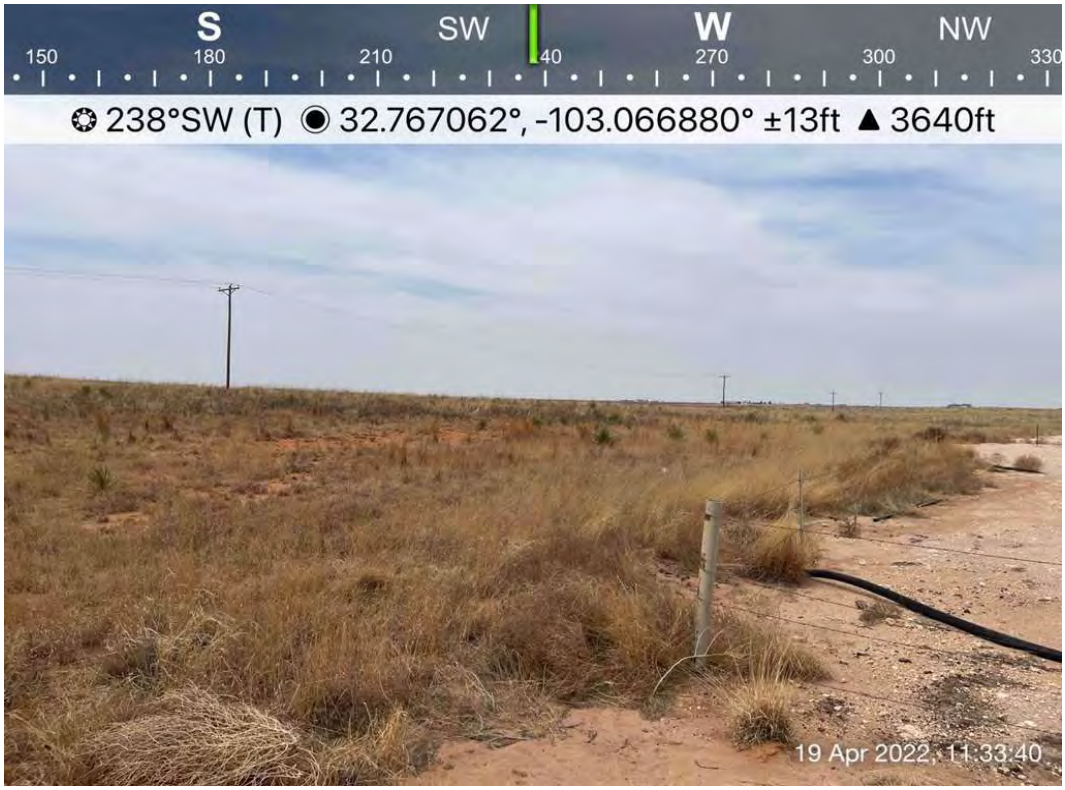


Photo: 2	Description: Location of Interest 3 April 2022



Photographs

Photo: 3	Description: Location of Interest 3 April 2022

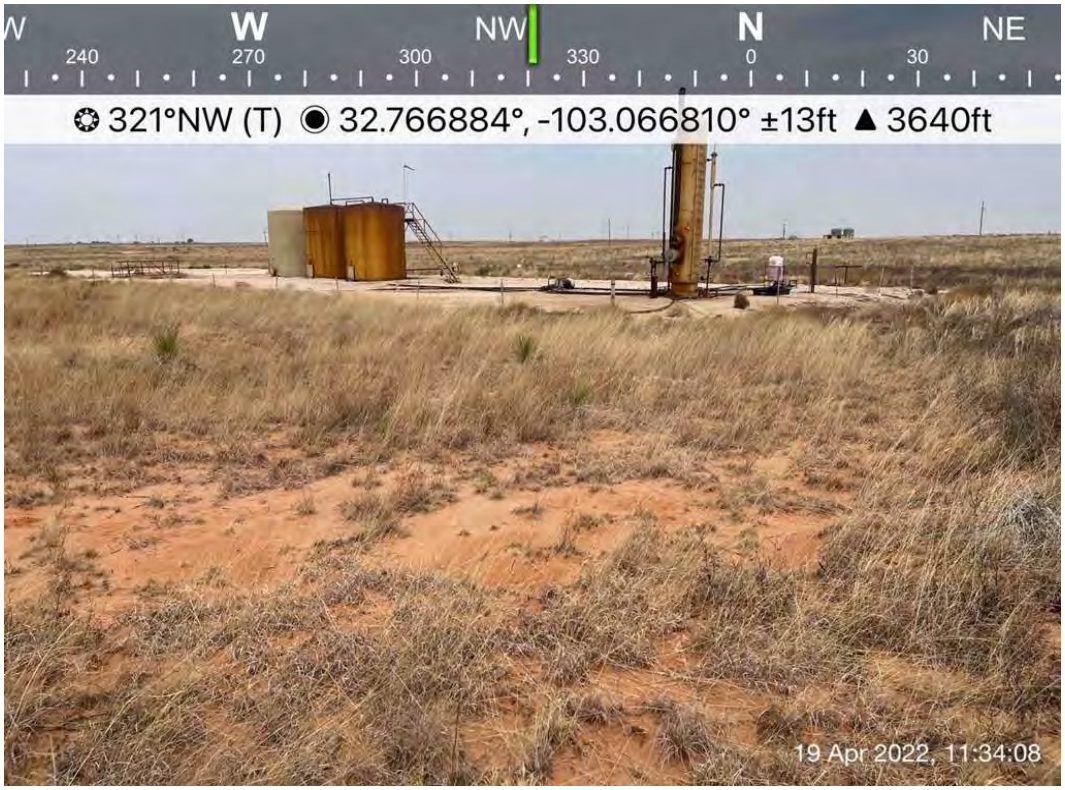
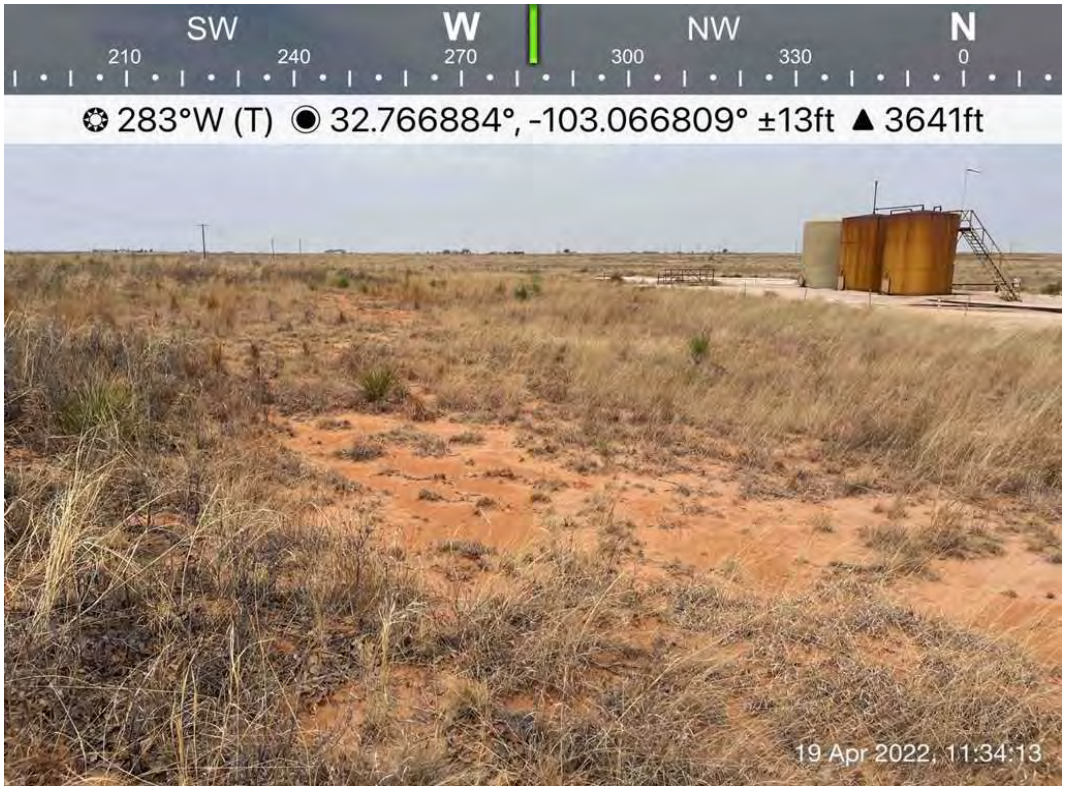


Photo: 4	Description: Location of Interest 3 April 2022



Photographs

Photo: 5	Description: Location of Interest 3 September 2022

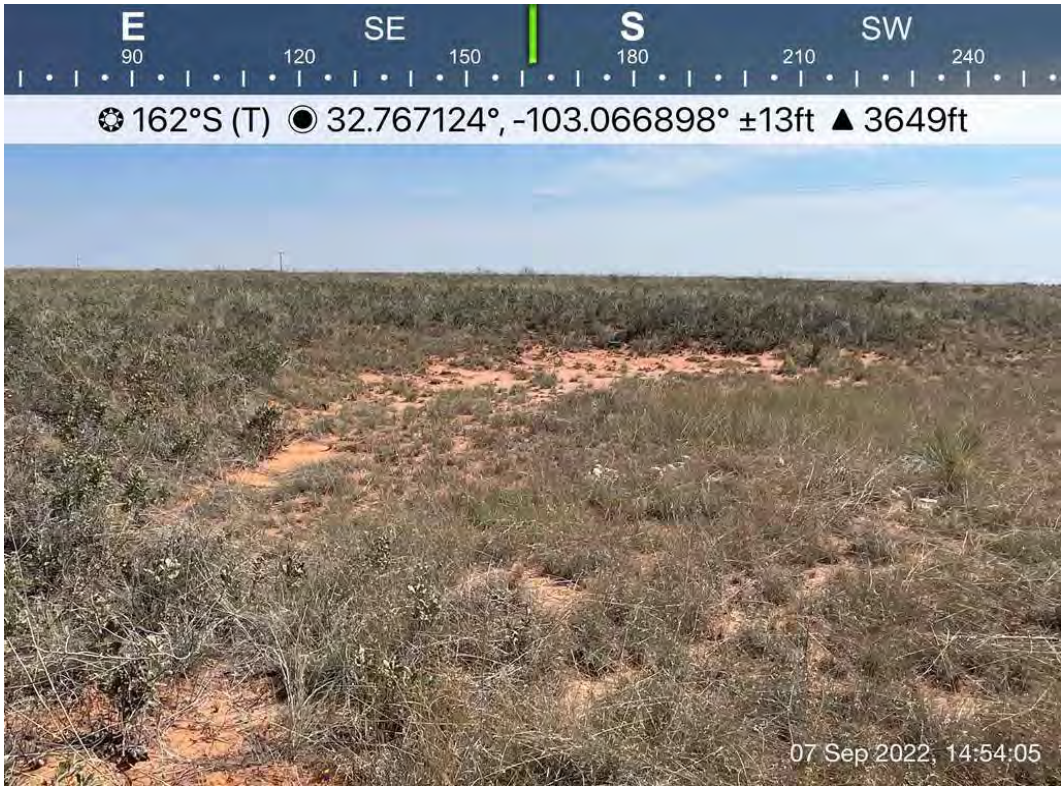
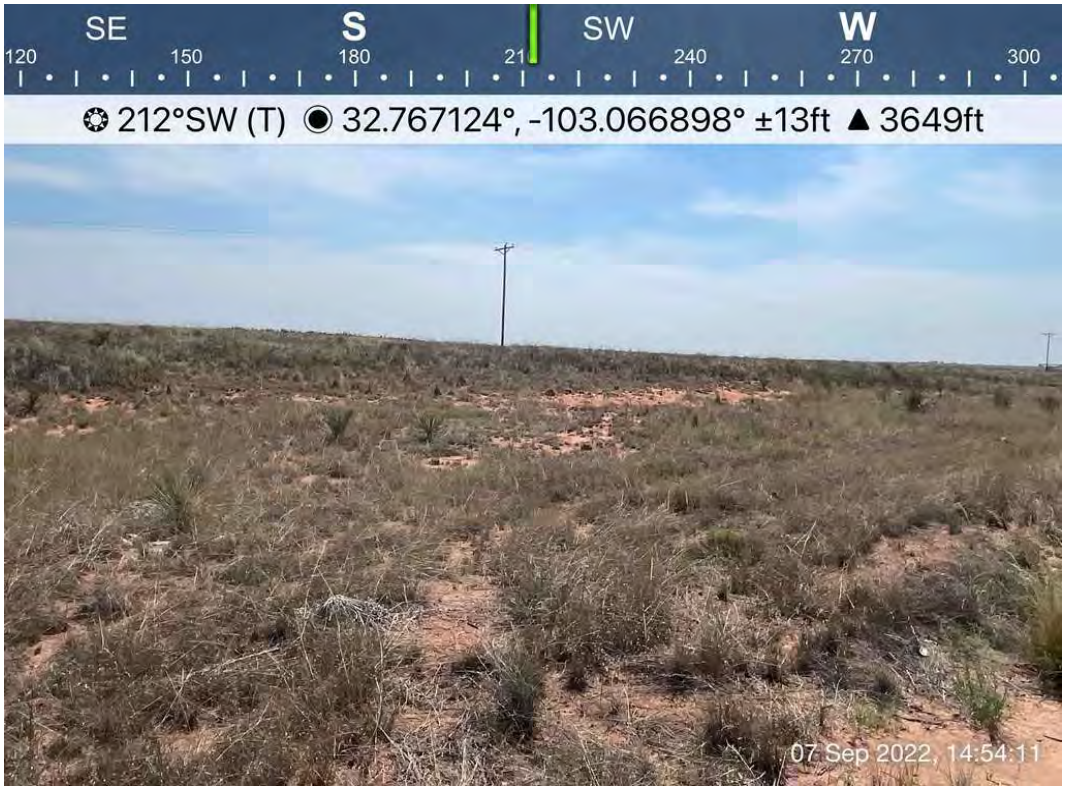


Photo: 6	Description: Location of Interest 3 September 2022



Photographs

Photo: 7	Description: Location of Interest 3 September 2022

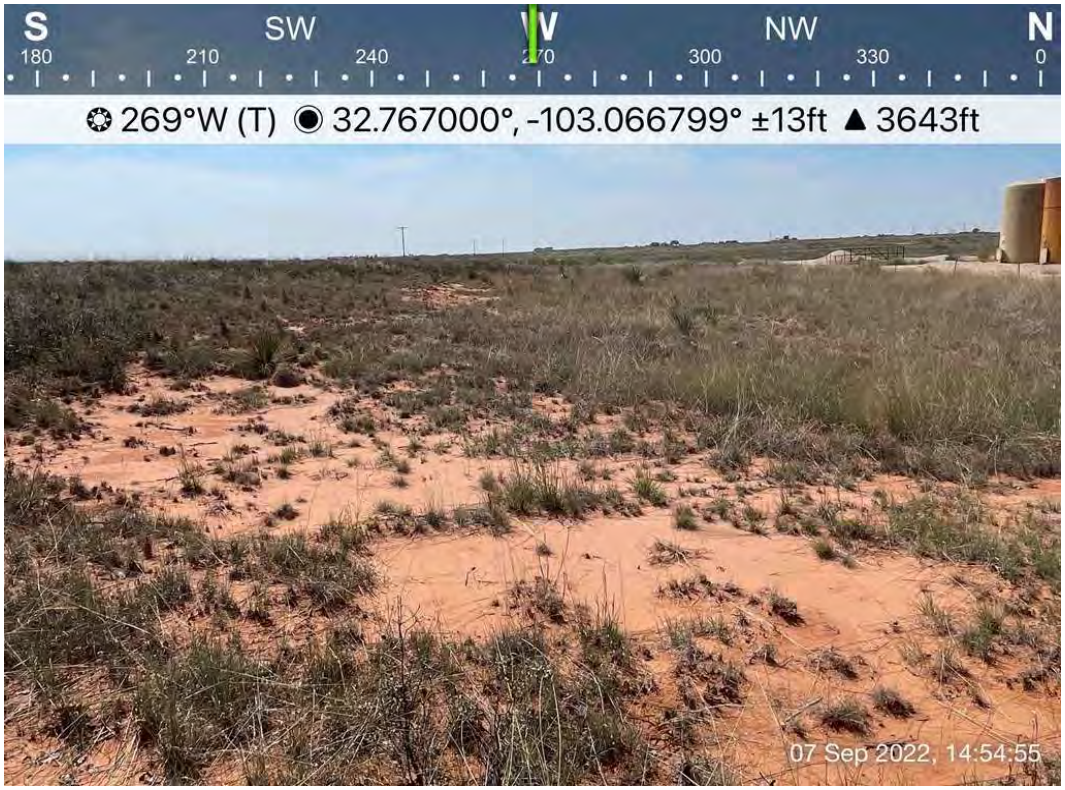
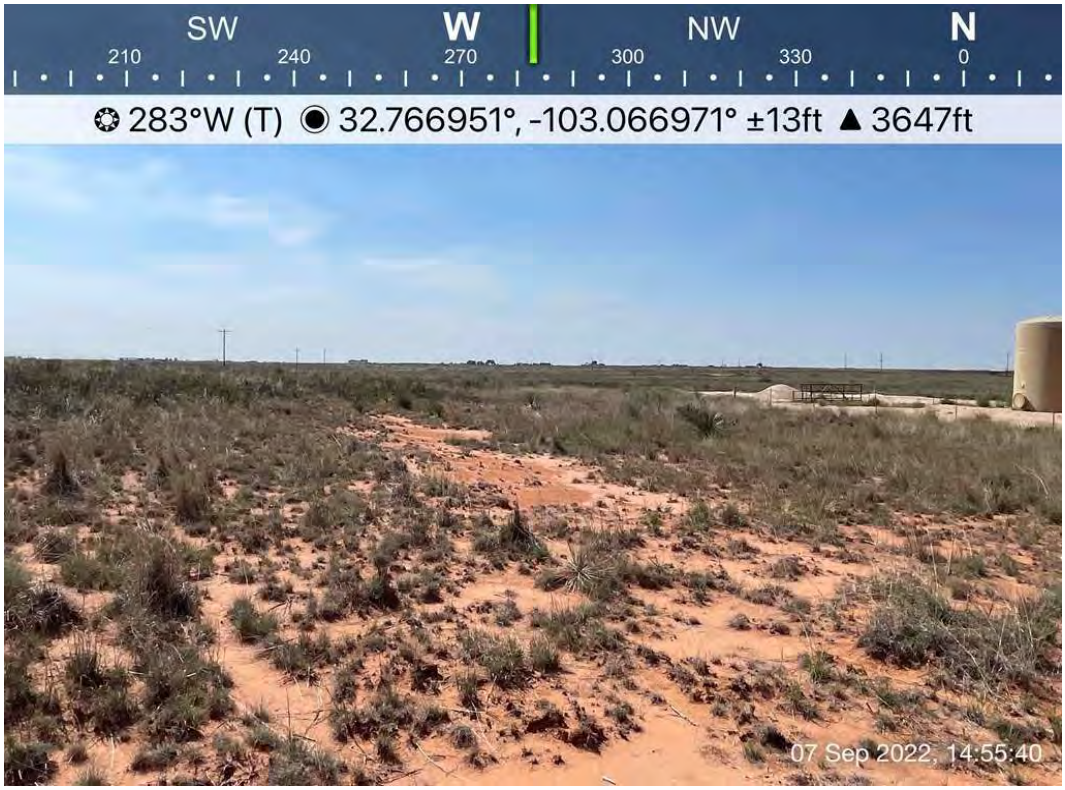


Photo: 8	Description: Location of Interest 3 September 2022



Attachment II
Depth to Groundwater

New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	POD Subbasin	County	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 03823		L	LE	Shallow	1	2	1	08	18S	39E	680700	3627250*	380	03/25/1958	03/26/1958	03/26/1958	135	70		46
L 11965 POD1		L	LE	Shallow		1	2	07	18S	39E	680525	3627337	575	09/27/2006	09/27/2006	10/17/2006	201		EADES, ALAN	1044
L 01748		L	LE	Shallow	2	3	1	08	18S	39E	680505	3626840*	608	12/01/1956	12/03/1956	12/18/1956	125	48	FULLINGIM, M.L.	124
L 11158 POD2		L	LE	Shallow	1	2	3	08	18S	39E	680715	3626444*	743	01/22/2001	01/24/2001	01/30/2001	223	100		1498
L 04526	R	L	LE	Shallow	1	1	3	20	18S	39E	680280	3626939	790	11/08/1960	11/10/1960	01/17/1961	100	60	J E BARTON	14
L 00873 POD4		L	LE	Shallow		3	3	05	18S	39E	680391	3627546*	794	02/23/2000	03/01/2000	04/20/2000	230	110	MARSH, KENNETH R.	586

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 681052.47 **Northing (Y):** 3627106.41 **Radius:** 805

***UTM location was derived from PLSS - see Help**

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 03823	1	2	1	08	18S	39E	680700	3627250*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 03/25/1958 **Drill Finish Date:** 03/26/1958 **Plug Date:** 03/23/1960

Log File Date: 03/26/1958 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 135 feet **Depth Water:** 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	76	135	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	65	135

***UTM location was derived from PLSS - see Help**

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	Twn	Rng	X	Y
	L 11965 POD1	1	2		07	18S	39E	680525	3627337

Driller License: 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 09/27/2006 **Drill Finish Date:** 09/27/2006 **Plug Date:**

Log File Date: 10/17/2006 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.75 **Depth Well:** 201 feet **Depth Water:**

Water Bearing Stratifications:	Top	Bottom	Description
	133	196	Sandstone/Gravel/Conglomerate
	196	199	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	161	201

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	Twn	Rng	X	Y
	L 01748	2	3	1	08	18S	39E	680505	3626840*

Driller License: 124 **Driller Company:** FULLINGIM, M.L.

Driller Name: FULLINGIM, M.L.

Drill Start Date: 12/01/1956 **Drill Finish Date:** 12/03/1956 **Plug Date:**

Log File Date: 12/18/1956 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 125 feet **Depth Water:** 48 feet

Water Bearing Stratifications:	Top	Bottom	Description
	48	63	Shallow Alluvium/Basin Fill
	87	105	Shallow Alluvium/Basin Fill

***UTM location was derived from PLSS - see Help**

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 11158 POD2	1	2	3	08	18S	39E	680715	3626444*

Driller License: 1498 **Driller Company:** ROBINSON DRILLING

Driller Name:

Drill Start Date:	01/22/2001	**Drill Finish Date:**	01/24/2001	**Plug Date:**	
Log File Date:	01/30/2001	**PCW Rcv Date:**	08/15/2007	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	12.75	**Depth Well:**	223 feet	**Depth Water:**	100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	100	210	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	103	223

***UTM location was derived from PLSS - see Help**

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 04526 POD2	1	1	3	20	18S	39E	680347	3623243

Driller License: 1611 **Driller Company:** GOERTZEN DRILLING

Driller Name:

Drill Start Date: 11/03/2008 **Drill Finish Date:** 11/04/2008 **Plug Date:**

Log File Date: 11/14/2008 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 6.00 **Depth Well:** 229 feet **Depth Water:**

Casing Perforations:	Top	Bottom
	169	229

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	Twn	Rng	X	Y
	L 00873 POD4	3	3		05	18S	39E	680391	3627546*

Driller License: 586 **Driller Company:** MARSH, KENNETH RAY

Driller Name: MARSH, KENNETH R.

Drill Start Date: 02/23/2000 **Drill Finish Date:** 03/01/2000 **Plug Date:**

Log File Date: 04/20/2000 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 12.75 **Depth Well:** 230 feet **Depth Water:** 110 feet

Water Bearing Stratifications:	Top	Bottom	Description
	175	182	Sandstone/Gravel/Conglomerate
	188	194	Sandstone/Gravel/Conglomerate
	196	226	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	110	230

Meter Number: 19625 **Meter Make:** MCCROMETER

Meter Serial Number: GP14-10027-4 **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
04/01/2016	2016	170786	A	dd		0	
10/01/2016	2016	225543	A	dd		16.804	
04/01/2017	2017	225543	A	dd		0	
07/01/2017	2017	240607	A	dd		4.623	
01/01/2018	2017	242918	A	dd		0.709	
07/03/2018	2018	260135	A	dd		5.284	
10/01/2018	2018	260135	A	dd		0	
01/01/2019	2018	260135	A	dd		0	
04/01/2019	2019	260135	A	dd		0	
07/03/2019	2019	287167	A	dd		8.296	
01/01/2020	2019	313028	A	dd		7.936	
04/01/2020	2020	322366	A	dd		2.866	
10/01/2020	2020	337832	A	dd		4.746	
01/01/2021	2020	337832	A	dd		0	
04/01/2021	2021	337832	A	dd		0	

**YTD Meter Amounts:	Year	Amount
	2016	16.804

2017	5.332
2018	5.284
2019	16.232
2020	7.612
2021	0

x

***UTM location was derived from PLSS - see Help**

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324601103042101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324601103042101 18S.39E.06.44442

Lea County, New Mexico
Latitude 32°46'01", Longitude 103°04'21" NAD27
Land-surface elevation 3,644 feet above NAVD88
The depth of the well is 120 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1980-01-03		D	62610		3548.39	NGVD29	1	Z		
1980-01-03		D	62611		3549.50	NAVD88	1	Z		
1980-01-03		D	72019	94.50			1	Z		
1981-01-06		D	62610		3546.52	NGVD29	1	Z		
1981-01-06		D	62611		3547.63	NAVD88	1	Z		
1981-01-06		D	72019	96.37			1	Z		
1981-10-20		D	62610		3545.31	NGVD29	1	Z		
1981-10-20		D	62611		3546.42	NAVD88	1	Z		
1981-10-20		D	72019	97.58			1	Z		
1982-01-06		D	62610		3544.95	NGVD29	1	Z		
1982-01-06		D	62611		3546.06	NAVD88	1	Z		
1982-01-06		D	72019	97.94			1	Z		
1983-01-04		D	62610		3543.65	NGVD29	1	Z		
1983-01-04		D	62611		3544.76	NAVD88	1	Z		
1983-01-04		D	72019	99.24			1	Z		
1984-01-04		D	62610		3542.64	NGVD29	1	Z		
1984-01-04		D	62611		3543.75	NAVD88	1	Z		
1984-01-04		D	72019	100.25			1	Z		
1985-01-08		D	62610		3541.75	NGVD29	1	Z		
1985-01-08		D	62611		3542.86	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1985-01-08		D	72019	101.14			1	Z		
1986-01-09		D	62610		3540.80	NGVD29	1	Z		
1986-01-09		D	62611		3541.91	NAVD88	1	Z		
1986-01-09		D	72019	102.09			1	Z		
1987-01-07		D	62610		3540.02	NGVD29	1	Z		
1987-01-07		D	62611		3541.13	NAVD88	1	Z		
1987-01-07		D	72019	102.87			1	Z		
1988-01-08		D	62610		3539.19	NGVD29	1	Z		
1988-01-08		D	62611		3540.30	NAVD88	1	Z		
1988-01-08		D	72019	103.70			1	Z		
1989-01-04		D	62610		3538.67	NGVD29	1	Z		
1989-01-04		D	62611		3539.78	NAVD88	1	Z		
1989-01-04		D	72019	104.22			1	Z		
1990-01-03		D	62610		3538.22	NGVD29	1	Z		
1990-01-03		D	62611		3539.33	NAVD88	1	Z		
1990-01-03		D	72019	104.67			1	Z		
1991-01		M	62610			NGVD29	O	Z		
1991-01		M	62611			NAVD88	O	Z		
1991-01		M	72019				O	Z		
1992-01		M	62610			NGVD29	O	Z		
1992-01		M	62611			NAVD88	O	Z		
1992-01		M	72019				O	Z		
1993-01-05		D	62610			NGVD29	O	Z		
1993-01-05		D	62611			NAVD88	O	Z		
1993-01-05		D	72019				O	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	M	Date is accurate to the Month
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	O	Obstructed
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-06-01 15:59:38 EDT
0.3 0.27 nadww01

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324630103050101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324630103050101 18S.39E.06.142143

Lea County, New Mexico
Latitude 32°45'54", Longitude 103°04'06" NAD27
Land-surface elevation 3,648.00 feet above NGVD29
The depth of the well is 171 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1976-02-25		D	62610		3573.53	NGVD29	1			Z
1976-02-25		D	62611		3574.64	NAVD88	1			Z
1976-02-25		D	72019	74.47			1			Z

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-06-01 15:58:29 EDT
0.32 0.29 nadww01

Attachment III
Field Data

Hungry Horse, LLC

Sample Log

Date: 5/3/22

Project: South Carter SA Unit #301

Latitude: 32.766965 Longitude: -103.067084 Sampler: B. Wells

Sample ID	Depth	PID/Odor	Chloride	GPS
SP1	Surf	N/A	2.0 = 45x4=180	
	1'	N/A	2.0 = 45x4 = 180	
	2'	N/A	1.8 = 43x4=172	
	3'	N/A	>100	
	4'	N/A	>100	
SP2	Surf	N/A	2.4= 60x4=240	
	1'	N/A	1.8= 43x4=172	
	2'	N/A	>100	
	3'	N/A	>100	
	4'	N/A	>100	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Hungry Horse, LLC

Sample Log

Date: 10/4/22

Project: South Carter SA Unit #301

Latitude: 32.766965 Longitude: -103.067084 Sampler: Jorge Valenzuela/Eli Dominguez

Sample ID	Depth	PID/Odor	Chloride	GPS
SP1-Surf	Surf	N/A	.05x1000=50	
SP1-1'	1'	N/A	.05x1000=50	
SP1-2'	2'	N/A	.07x1000=70	
SP1-3'	3'	N/A	.12x1000=120	
SP1-4'	4'	N/A	.09x1000=90	
SP2-Surf	Surf	N/A	.03x1000=30	
SP2-1'	1'	N/A	.03x1000=30	
SP2-2'	2'	N/A	.04x1000=40	
SP2-3'	3'	N/A	.06x1000=60	
SP2-4'	4'	N/A	.09x1000=90	
SP3-Surf	Surf	N/A	.04x1000=40	
SP3-1'	1'	N/A	.03x1000=30	
SP3-2'	2'	N/A	.05x1000=50	
SP3-3'	3'	N/A	.13x1000=130	
SP3-4'	4'	N/A	.07x1000=70	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples= SP1b @ S' or SW #1b

Stockpile = Stockpile #1

Attachment IV
Laboratory Analytical Reports

CARDINAL Laboratories

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

May 09, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #301

Enclosed are the results of analyses for samples received by the laboratory on 05/03/22 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_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)

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	05/03/2022	Sampling Date:	05/03/2022
Reported:	05/09/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 1 (H221846-01)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	6.79	
Toluene*	<0.050	0.050	05/08/2022	ND	2.09	105	2.00	6.90	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.01	100	2.00	6.47	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/05/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane *82.9 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *80.5 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	05/03/2022	Sampling Date:	05/03/2022
Reported:	05/09/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 2 (H221846-02)

BTEX 8021B mg/kg Analyzed By: MS\

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2022	ND	2.14	107	2.00	6.79	
Toluene*	<0.050	0.050	05/08/2022	ND	2.09	105	2.00	6.90	
Ethylbenzene*	<0.050	0.050	05/08/2022	ND	2.01	100	2.00	6.47	
Total Xylenes*	<0.150	0.150	05/08/2022	ND	6.19	103	6.00	6.23	
Total BTEX	<0.300	0.300	05/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-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	05/05/2022	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	05/06/2022	ND	213	107	200	15.4	
DRO >C10-C28*	<10.0	10.0	05/06/2022	ND	195	97.3	200	6.52	
EXT DRO >C28-C36	<10.0	10.0	05/06/2022	ND					

Surrogate: 1-Chlorooctane *74.1 %* *66.9-136*

Surrogate: 1-Chlorooctadecane *70.6 %* *59.5-142*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Hungry Horse LLC				
Project Manager:	Daniel Dominguez				
Address:	PO Box 1058				
City:	Hobbs	State: NM	Zip: 88241		
Phone #:	575 393-3386	Fax #:			
Project #:		Project Owner:	Great Western Drilling		
Project Name:	South Carter SA Unit #301				
Project Location:	UL/ B Sec 8 T18S - R39E				
Sampler Name:	Bradley Wells				

BILL TO

P.O. #:	
Company	Great Western Drilling
Attn:	Dennis Pender
Address:	700 W. Louisiana Ave.
City:	Midland
State: TX	Zip: 79701
Phone #:	432-682-5241
Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride	TPH	BTEX 8021
H221846																	
1	SP1	C	1			X					X		5/3/22		X	X	X
2	SP2	C	1			X					X		5/3/22		X	X	X

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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: B. Wells	Date: 5.3.22	Received By: S Rodriguez	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1558		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Email results to: pm@hungry-horse.com dpender@gwdc.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.4°C 0.5° 0.9° #113	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CARDINAL Laboratories

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

October 10, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH CARTER SA UNIT #301

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 14:15.

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 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.

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

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 1 - SURF (H224618-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Sample ID: SP 1 - 1' (H224618-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Sample ID: SP 1 - 2' (H224618-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Sample ID: SP 1 - 3' (H224618-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 1 - 4' (H224618-05)

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	10/08/2022	ND	2.01	101	2.00	3.51	
Toluene*	<0.050	0.050	10/08/2022	ND	2.12	106	2.00	2.83	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.96	97.8	2.00	3.44	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.88	98.0	6.00	4.33	
Total BTEX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	432	108	400	0.00	

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	10/06/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane *115 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *126 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 2 - SURF (H224618-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Sample ID: SP 2 - 1' (H224618-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	432	108	400	0.00	

Sample ID: SP 2 - 2' (H224618-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	448	112	400	0.00	

Sample ID: SP 2 - 3' (H224618-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 2 - 4' (H224618-10)

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	10/08/2022	ND	2.01	101	2.00	3.51	
Toluene*	<0.050	0.050	10/08/2022	ND	2.12	106	2.00	2.83	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.96	97.8	2.00	3.44	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.88	98.0	6.00	4.33	
Total BTEX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	448	112	400	0.00	

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	10/07/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane *120 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *132 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 3 - SURF (H224618-11)

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	448	112	400	0.00	

Sample ID: SP 3 - 1' (H224618-12)

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	448	112	400	0.00	

Sample ID: SP 3 - 2' (H224618-13)

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	448	112	400	0.00	

Sample ID: SP 3 - 3' (H224618-14)

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/07/2022	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental
DANIEL DOMINGUEZ
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	SOUTH CARTER SA UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	GWD - UL/B SEC 8 T18S - R39E		

Sample ID: SP 3 - 4' (H224618-15)

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	10/08/2022	ND	2.01	101	2.00	3.51	
Toluene*	<0.050	0.050	10/08/2022	ND	2.12	106	2.00	2.83	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	1.96	97.8	2.00	3.44	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	5.88	98.0	6.00	4.33	
Total BTEX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/07/2022	ND	448	112	400	0.00	

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	10/07/2022	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	224	112	200	4.57	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane *116 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *128 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Hungry Horse LLC				
Project Manager:	Daniel Dominguez				
Address:	PO Box 1058				
City:	Hobbs	State: NM	Zip: 88241		
Phone #:	575 393-3386	Fax #:			
Project #:		Project Owner:	Great Western Drilling		
Project Name:	South Carter SA Unit #301				
Project Location:	UL/ B Sec 8 T18S - R39E				
Sampler Name:	Jorge Valeriano				

BILL TO

P.O. #:	
Company	Great Western Drilling
Attn:	Dennis Pender
Address:	700 W. Louisiana Ave.
City:	Midland
State: TX	Zip: 79701
Phone #:	432-682-5241
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D. H224018	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chloride	TPH	BTEX 8021
1	SP1-Surf	G	1			X					X		10/4/22		X		
2	SP1-1'	G	1			X					X		10/4/22		X		
3	SP1-2'	G	1			X					X		10/4/22		X		
4	SP1-3'	G	1			X					X		10/4/22		X		
5	SP1-4'	G	1			X					X		10/4/22		X	X	X
6	SP2-Surf	G	1			X					X		10/4/22		X		
7	SP2-1'	G	1			X					X		10/4/22		X		
8	SP2-2'	G	1			X					X		10/4/22		X		
9	SP2-3'	G	1			X					X		10/4/22		X		
10	SP2-4'	G	1			X					X		10/4/22		X	X	X

Relinquished By: Jorge Valeriano	Date: 10/4/22 Time: 2:15	Received By:	
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One) 1.6°C-0.6°C
Sampler - UPS - Bus - Other: 1.0°C #113

Sample Condition: Cool ☐ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com
dpender@gwdc.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Hungry Horse LLC				
Project Manager:	Daniel Dominguez				
Address:	PO Box 1058				
City:	Hobbs	State:	NM	Zip:	88241
Phone #:	575 393-3386	Fax #:			
Project #:		Project Owner:	Great Western Drilling		
Project Name:	South Carter SA Unit #301				
Project Location:	UL/ B Sec 8 T18S - R39E				
Sampler Name:	Jorge Valeriano				

BILL TO

P.O. #:	
Company	Great Western Drilling
Attn:	Dennis Pender
Address:	700 W. Louisiana Ave.
City:	Midland
State:	TX
Zip:	79701
Phone #:	432-682-5241
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chloride	TPH	BTEX 8021
1224018																	
11	SP3-Surf	G	1			X					X		10/4/22		X		
12	SP3-1'	G	1			X					X		10/4/22		X		
13	SP3-2'	G	1			X					X		10/4/22		X		
14	SP3-3'	G	1			X					X		10/4/22		X		
15	SP3-4'	G	1			X					X		10/4/22		X	X	X

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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jorge Valeriano	Date: 10/4/22 Time: 2:15	Received By: S Rodriguez	
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One) 1.1°C | C-0.6°C 1.0° #113
Sampler - UPS - Bus - Other:

Sample Condition		CHECKED BY: (Initials)
Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	SR

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Email results to: pm@hungry-horse.com
dpender@gwdc.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Attachment V
NMOCD Form C-141 Closure Page

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nJXK1613930931
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: Dennis Pender Title: Environmental

Signature: Dennis Pender Date: 9-20-2022

email: dpender@gwdc.com Telephone: 432-682-5241 x 141

OCD Only

Received by: Date:

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: Date:

Printed Name: Title:

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 153158

CONDITIONS

Operator: GREAT WESTERN DRILLING CO P.O. Box 1659 Midland, TX 79701	OGRID: 9338
	Action Number: 153158
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/22/2023