Page 1 of 60

nAPP2227253809 Incident ID District RP Facility ID Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 20 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?				
Did this release impact groundwater or surface water?	☐ Yes 🗹 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗹 No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗹 No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗹 No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗹 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗹 No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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

Page 4

Oil Conservation Division

Incident ID	nAPP2227253809
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	OCD does not relieve the operator of liability should their operations have
Printed Name: Risa Czarnikow Signature: Czarnikow@helmsoil.com	Title: Production Tech Date: 3-29-23
OCD Only	Telephone: (432) 688-3727
Received by: Jocelyn Harimon	Date:03/30/2023

Released to Imaging: 5/8/2023 11:46:13 AM

on

Form C-141	State of New Mexico
Page 6	Oil Conservation Divisi

Incident ID	nAPP2227253809
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 Chacklists Each of the City	
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 must be notified 2 days prior to liner inspection)	t office
☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
☑ Description of remediation activities	
	ليجيد
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OC and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases of the acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface we 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: Risa Czarnikow Title: Production Tech Signature: Production Tech Telephone: (432) 688-3727	which ty ater,
OCD Only	
Received by: Jocelyn Harimon Date:03/30/2023	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigned 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.	gate and consible
Closure Approved by:	
Printed Name: Jennifer Nobui Title:Environmental Specialist A	

Amended Remediation Summary and Soil Closure Request

H.L. Brown Operating, LLC Federal D 001

Roosevelt County, New Mexico
Unit Letter A, Section 5, Township 8 South, Range 37 East
Latitude 33.640356 North, Longitude 103.159261 West
NMOCD Reference No. nAPP2227253809

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland Hobbs, New Mexico 88240

Zach Conder

Ben J .Arguijo



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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Appendix A - Amended Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this Remediation Summary and Soil Closure Request for the release site known as the Federal D 001 (henceforth, "Site"). Details of the release are summarized below:

atitude:	3	3.640356	Longitude:	-103.159261
		Provid	ed GPS are in WGS84 format.	
Site Name:		ederal D 001	Site Type:	Well Head
Date Release Disc	covered:	9/7/2022	API # (if applical	ble): 30-041-20403
Unit Letter	Section	Township	Range	County
С	9	8S	37E	Roosevelt
Surface Owner:	State	Federal Tribal	X Private (Name	e Weaver James and Christine Trust
		Natura a	nd Volume of Ro	مامهم
			ilu volullic of K	
X Crude Oil	Vol	ume Released (bbls)	5 bbls	Volume Recovered (bbls) 0 bbls
Produced W	ater Vol	r Volume Released (bbls) Volume Recovered (bbls)		Volume Recovered (bbls)
	Is th	e concentration of total	dissolved solids	Yes No X N/A
	(TD	S) in the produced water	r > 10,000 mg/L?	
Condensate	Vol	Volume Released (bbls) Volume Recovered (bbls)		Volume Recovered (bbls)
Natural Gas	Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)		Volume Recovered (Mcf)	
Other (descr	Other (describe) Volume/Weight Released Volume/Weight Recovered		Volume/Weight Recovered	
Cause of Releas		ound during site inspecti	on.	1
		omia aming site inspecti		
		Iı	nitial Response	
X The source of	f the release	has been stopped.		
X The impacted	d area has b	een secured to protect hur	man health and the envi	ironment.
X Release mate	erials have b	een contained via the use	of berms or dikes, abso	orbent pad, or other containment devices
		verable materials have be		

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	167 Feet
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Method	Closure Criteria	Reclamation Standard*
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg
167 Feet	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg

^{*} The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 REMEDIATION ACTIVITIES SUMMARY

On November 2, 2022, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

Upon excavating impacted soil affected above the NMOCD Closure Criteria, Etech collected five (5) confirmation soil samples (FL 1 @ 1', EW 1, NW 1, SW 1 and WW 1). The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in all of the submitted soil samples.

In addition, Etech collected four (4) horizontal delineation soil samples (NH 1 @ 1', EH 1 @ 1', SH 1 @ 1' and WH 1 @ 1') representative of each cardinal direction in an effort to further characterize the horizontal extent of the release. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation standards in all of the submitted soil samples.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The final dimensions of the excavated area were approximately thirteen (13) feet in length, eleven (11) feet in width, and one (1) foot in depth. During the course of remediation activities, approximately twenty (20) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown Operating, LLC, provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Federal D 001 Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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.

This report has been prepared for the benefit of H.L. Brown Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or H.L. Brown Operating, LLC.

8.0 DISTRIBUTION

H.L. Brown Operating, LLC 300 West Louisiana Midland, TX 79702-2237

New Mexico Energy, Minerals and Nature Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

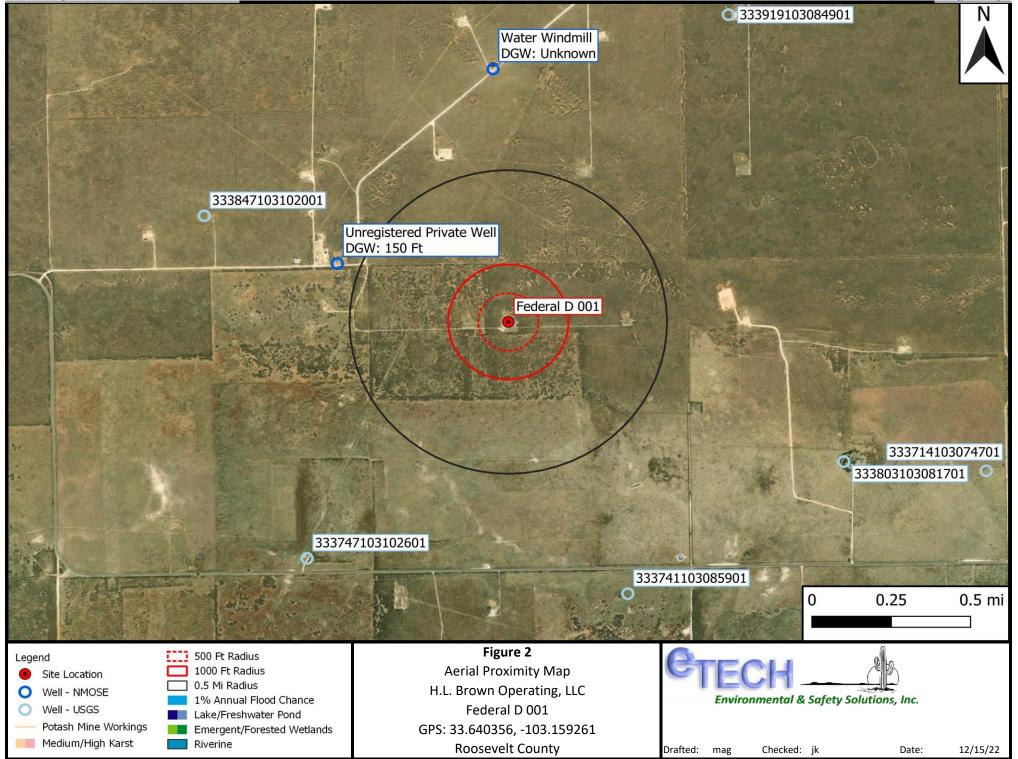


Figure 3 Site and Sample Location Map

12/14/22

Date:



Roosevelt County

Drafted: ZPC

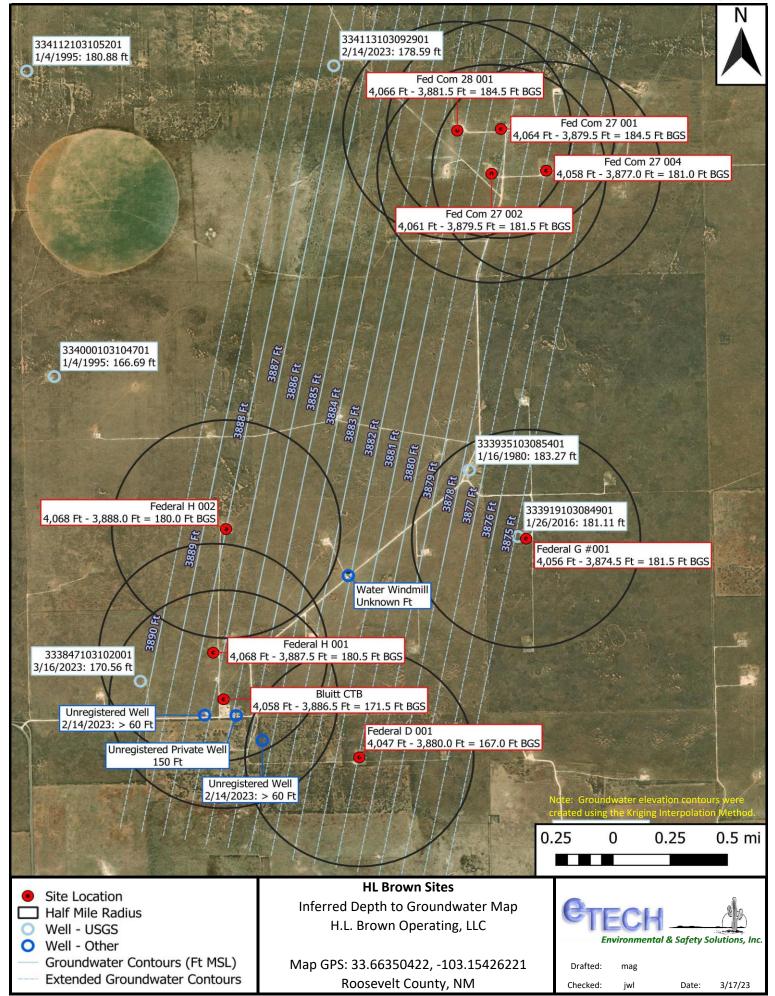
Checked: JWL

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
H.L. Brown Operating, LLC
Federal D 001
NMOCD Ref. #: nAPP2227253809

NMO	NMOCD Closure Criteria				50	-	-	1,000	-	2,500	20,000
NMOCI	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	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)
FL 1 @ 1'	11/2/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,840
EW 1	11/2/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
NW 1	11/2/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	238	238	153	391	2,520
SW 1	11/2/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
WW 1	11/2/2022	0-1	In-Situ	< 0.050	< 0.300	<10.0	62.3	62.3	49.6	112	4,080
NH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	160
EH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	144
SH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	192
WH 1 @ 1'	12/12/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Appendix A Depth to Groundwater Information





Site Description/Construction Detail

Ground Water Sampling Log

Well ID: Unregistered Well
Date: 2/14/2023

Project	: HL B.	rowus				_ Personnel:				
Well De	escription/Loca	ition: 🗚 🍇	avelouse	well	SE of	House Tota	al Deptha (ft b	mp): <u>N/A</u>		
Type of	Well: Moni	tor Reco	very Pot	able Irr	igation (Other				
Casing I	Material: PVC	Steel O	ther	Dia	ameter: 2"	' 4" 6" Otl	ner 10 " Scre	een (ft bmp):	Stow Pipe	,
Condition	on of Seal: G	ood Poor	Needs R	epair Ot	her			Well Locke	ed? Y N	
Gaugin		3 20 10 -							•	- 4
Static W	Vater Level ^b (ft ents: Opta O	bmp)	O T	ime	M	leasure Point	Description _	Top of 1	asing, .	75 Ft ass
		COL	, alie v	cot 50	eleeper	, teas 6	+ equip	ment pa	must	
Well P	urge Data					7				
Dia (in	.) 2"	Volume	-actors	5"	6"	Well Vo	lume ((a-b) x	c) =	gal	
Gal/ft	0.163	0.367	0.653	1.020		Durging	Valuma /2 w	M/=II M=IN	and .	
Gai/it	0.105	0.367	0.055	1.020	1.469	Purging	volume (3 x	Well Vol) =	gai	
Well Pu	rging Method:	submers	sible peri	staltic b	ailer othe	er	_ Depth pur	np set (ft bmp)	E
Water	Quality Indic	ator Parai	meters							
	Cumulative	Water				Specific]
Time	Gallons	Level		mp	pH (SLI)	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp) (C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	-
. 4		¥?	-	~		2 , 2				-
							_			-
		7								-
										-
					-	Ø				-
										4
							0			-
										1
										1
										-
	-									1
										1
Recording I	nterval: Traditiona	al volume pur	ge - every ½ v	vell volume	Low flow - ev	rery 3-5 min, drav	wdown should n	ot exceed 0.33ft d	uring purging.	1
Total Ca	llons Purged_					. D' . I	D			
	_				Approxima	te Discharge	Rate (gpm): _			
Sample		والمعال								
	Collection Met									
Comme	ents	Proje	ct name 10	Sample	iabeis (ii at	DDF):	Dupli	cate Collected	? Y N	
	• pH: ±0.1			-			Sample tub	ing left in well	? Y N	
	 SC: ±5%, for SC DO: ±10% or 0. 				1		(circle yes or r	10)		
	 Temp: + 0.2°C 	-	10 1000 TO 1000 SECTION	.c. /			If so	o, length (ft)?		

me factors and stability criteria from USGS-NFM, 2006-Wilde et al., 1998, Driscoll, 1986, and EPA-Puls and Barcelona, 1996. Last form revision: 02.06.14.



Ground Water Sampling Log

Well ID: (Insesistred well
Date: 2/14/2023

Project: Well De Type of Casing N	Well: Moni Material: PVC on of Seal: Go	tion: Abo tor Recov	very Pot	able Irri Dia	gation Commeter: 2"	Tota Other <u>Abaw</u> 4" 6" Oth	al Depth ^a (ft b (0x-eb) her Screen	omp): N/A Liwstade een (ft bmp): Well Locke	Stove Pipe
Gauging Static W Commer	g Data 'ater Level ^b (ft nts: <u>Opera (</u>	bmp) > 6	D.d	ime	Meeper	easure Point I	Description_	equipm	asing 1.5 out Jdam
Well Pu	irge Data					_	_	•	
	. 1	Volume F				Well Vo	lume ((a-b) x	c) =	gal
Dia (in. Gal/ft	0.163	3" 0.367	4" 0.653	5" 1.020	6" 1.469	Purging	Volume (3 x	Well Vol) =	gal
	ging Method:			staltic ba	ailer othe	r	_ Depth pur	np set (ft bmp))
Time	Cumulative Gallons Purged	Water Level (ft bmp)		mp C)	pH (SU)	Specific Cond. (mS/cm)	TDS (g/l)	DO (mg/l)	ORP (mV)
Total Gal	llons Purged _ Data Collection Met	hod: sub	mersible	peristalti	Approxima c bailer	te Discharge I	Rate (gpm): _ S	ot exceed 0.33ft d	
•	 pH: ±0.1 SC: ±5%, for SC DO: ±10% or 0. Temp: ± 0.2°C (3 mg/L (which	ever is great				(circle yes or I	oing left in well no) o, length (ft)?	

Received by OCD: 3/29/2023 8:26:48 PM



Ground Water Sampling Log

Well ID: 333647103102001

Released to Imaging: 5/8/2023 11:46:13 AM

Date: 2/14/7016

	escription/Co					Personnel:	-s- /			
Well De	scription/Loca	tion: Aba	usal maa	ed we	u	Tota	al Deptha (ft b	mp): NA		
Casing I	Well: Moni Material: PVC	Steel Otl	her	Diar	neter: 2"	4" 6" Oth	ner Scre	en (ft bmp):	Stove Pil	00
Condition	on of Seal: Go	ood Poor	Needs R	epair Oth	er			Well Locke	ed? Y N	ļ
Gaugin Static W Comme	g Data /ater Level ^b (ft nts: D. d	bmp) 760	0 T	ime	as of	easure Point	Description_	wasc		,
	urge Data	3	•	,		, ,		•		
		Volume Fa	actors			\\\\		-V ~~	1	
Dia (in	.) 2"	3"	4"	5"	6"	- well vo	iume ((a-b) x	c) =	gai	
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
							(
Well Pu	rging Method:	submersil	ble peri	staltic ba	iler othe	r	_ Depth pum	np set (ft bmp)		
Water	Quality Indica		eters						х -	
	Cumulative	Water			-11	Specific	TD 6			
Time	Gallons Purged	Level (ft bmp)		mp °C)	pH (SU)	Cond. (mS/cm)	TDS (g/l)	DO (mg/l)	ORP	
Title	ruigeu	(it bilip)	+ '	<u></u>	(30)	(III3/CIII)	(8/1)	(mg/l)	(mV)	\dashv
			• 4.		¥					
	= 1									
		77						777		
										\neg
										٦
			~							\exists
										\neg
ecording I	nterval: Traditiona	il volume purge	e - every ½ v	well volume;	Low flow - ev	ery 3-5 min, drav	vdown should no	t exceed 0.33ft d	uring purging	<u></u>
	Illons Purged _			A	Approxima	te Discharge	Rate (gpm): _			
Sample		المحما		a autorolist	. h-"-	حنادي	_			
Sample	Collection Met									
Comme	ents	*Project	t name to	or sample i	abeis (if ac	obr):	Dupli	cate Collected	? Y N	
-										
	• pH: ±0.1						Sample tub	ing left in well	I? Y N	
Criteria:	 SC: ±5%, for SC DO: ±10% or 0. 						(circle yes or n	o) o, length (ft)?		_

• Temp: ± 0.2°C (USGS for thermistor)



Ground Water Sampling Log

Well ID: 334113103042401

Date: 2/14/2023

Released to Imaging: 5/8/2023 11:46:13 AM

Project: Well De Type of	Scription/Loca	rountion De rountion: NW attor Recovery	Fed (Irrigation C	Tota Other Abau	al Deptha (ft br	mp): NIA	
Gaugin	g Data	ood Poor No bmp) <u>1¹78.5</u>						
Comme	nts:							
Well Pu	urge Data	V-1 5			7			
Dia (in	.) 2"	Volume Fact	ors ^c 4" 5"	6"	Well Vo	lume ((a-b) x	c) =	gal
Gal/ft	0.163		.653 1.02		Purging	Volume (3 x V	Vell Vol) =	gal
Well Pu	rging Method:	submersible	peristaltic	bailer othe				
Water	Quality Indica	ator Paramet	ers					
Time	Cumulative Gallons Purged	Water Level (ft bmp)	Temp (°C)	pH (SU)	Specific Cond. (mS/cm)	TDS (g/l)	DO (mg/l)	ORP (mV)
			V .					-
				-				
		1000					-	
Recording I	nterval: Traditiona	al volume purge - e	every ½ well volu	me; Low flow - ev	rery 3-5 min, drav	wdown should no	ot exceed 0.33ft o	during purging.
	illons Purged _			Approxima	ate Discharge	Rate (gpm): _	.	
Sample		thod: subme	rsihla narist	altic hailer	other	c-	amnle Time	
Comme			ame for samp					
-								
Criteria:	• DO: ±10% or 0	C ≤ 100 μS/cm; ±3% .3 mg/L (whicheve (USGS for thermis	r is greater)	/cm		(circle yes or n	ing left in wel o) o, length (ft)?	

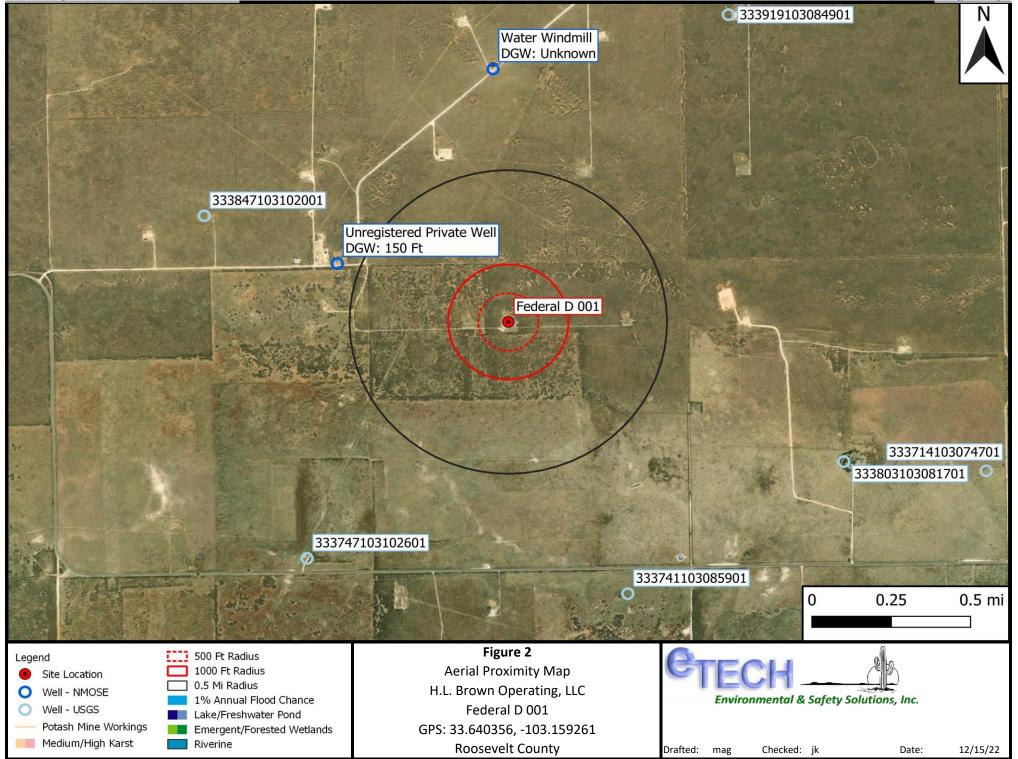


Ground Water Sampling Log

Well ID: 333847103102001

Date:	3/	16	1202	3	

	escription/Co		n Detail							
	HL Br					_ Personnel: _			-	
Well De	scription/Loca	tion: <u>A 6</u>	andon	ed we	!!	Tota	al Deptha (ft b	mp): <u>IV/A</u>	1 1	
Casing I	Well: Monit Material: PVC	tor Reco	very Pot	able Irrig	gation (other 4000	red oved 1	well, Li	MSTOCIC	
Condition	on of Seal: Go	Oce Poor	Noods Pa	Diar	neter: 2	4" 6" Otr	ier Scre	en (π bmp): _	d'A most	e
		ou Pool	Neeus Ne	epair Oth	er	N/A		well Locke	ear Y (N)	. 6
Gaugin Static W Comme	g Data /ater Level ^b (ft nts:	bmp) <u>174</u>	.56 T	ime	M	easure Point	Description _	Top of Co	asing ~?	2 ft sgs
Well Pu	urge Data							*		
		Volume	Factors ^c			Well Vo	lume ((a-b) x	c) =	gal	
Dia (in	.) 2"	3"	4"	5"	6"]	idilic ((d b) X	·,	Bui	
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
Well Pu	rging Method:	submers	sible peris	staltic ba	iler othe	r	_ Depth pun	np set (ft bmp)		
Water	Quality Indica	ator Parar	meters							
	Cumulative	Water				Specific]
T:	Gallons	Level		mp	pH (SLI)	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp) (C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	1
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Recording I	nterval: Traditiona	l volume pur	ge - every ½ v	vell volume; l	ow flow - ev	rery 3-5 min, dray	vdown should no	t exceed 0.33ft d	uring purging.]
	llons Purged _		,			te Discharge				
Sample										
Sample	Collection Met									
Comme	ents	*Proje	ct name fo	r sample la	abels (if ab	br):	Dupli	cate Collected	? Y N	
Stability	• pH: ±0.1									
Criteria:	 SC: ±5%, for SC 						Sample tub (circle yes or r	oing left in well no)	1? Y N	
	 DO: ±10% or 0. Temp: ± 0.2°C (er)				o, length (ft)?		





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 670712.72 **Northing (Y):** 3723799.99 **Radius:** 3220

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.

10/13/22 8:47 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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USGS Water Resources	Data Category:	Geographic Area:		
obdo water Resources	Groundwater ~	United States	~	GO

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Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 333714103074701

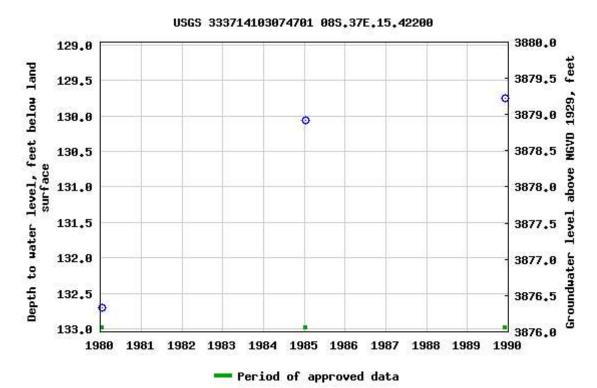
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 333714103074701 08S.37E.15.42200

Available data for this site	Groundwater:	Field measurements	∨ [GO]	
Roosevelt County, New Me	xico			
Hydrologic Unit Code 1208	0001			
Latitude 33°37'58", Longi	tude 103°0	7'58" NAD27		
Land-surface elevation 4,0	09.00 feet	above NGVD29		
The depth of the well is 14	0 feet below	w land surface.		
This well is completed in tl	ne High Plai	ns aquifer (N100I	HGHPLN) i	national aquifer.
This well is completed in tl	ne Cretaceo	us System (210C	RCS) loca	l aquifer.

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



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Page Contact Information: <u>USGS Water Data Support Team</u>

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0.55 0.48 nadww01





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Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 333741103085901

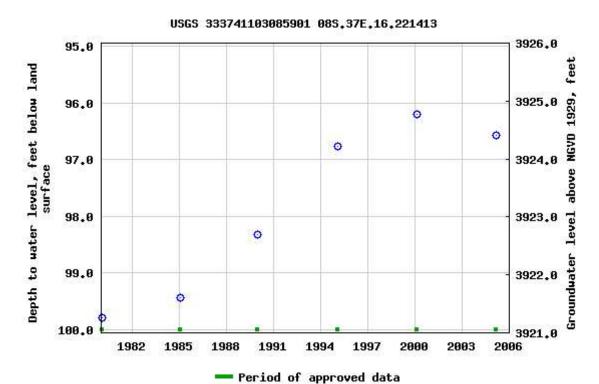
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 333741103085901 08S.37E.16.221413

Available data for this site	Groundwater:	Field measurements	~	GO		
Roosevelt County, New Mex	xico		Ì			
Hydrologic Unit Code 1208	0001					
Latitude 33°37'38", Longit	:ude 103°09	9'09" NAD27				
Land-surface elevation 4,0	21.00 feet a	above NGVD29				
The depth of the well is 12	0 feet belov	w land surface.				
This well is completed in the	_	•		-		uifer.
This well is completed in the	ie Cretaceo	us System (2100	CRCS	S) loc	al aquifer.	

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



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obdo Water Resources	Groundwater ~	United States	~	GO]

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Agency code = usgs **site_no list =** • 333747103102601

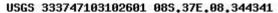
Minimum number of levels = 1

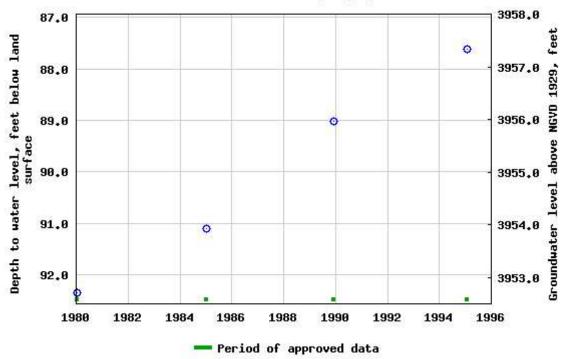
Save file of selected sites to local disk for future upload

USGS 333747103102601 08S.37E.08.344341

Available data for this site	Groundwater:	Field measurements	~	GO		
Roosevelt County, New Mex	xico					
Hydrologic Unit Code 1208	0001					
Latitude 33°37'45", Longit	ude 103°10:	0'12" NAD27				
Land-surface elevation 4,0	45.00 feet a	above NGVD29				
The depth of the well is 10	0 feet belov	w land surface.				
This well is completed in the	ne High Plair	ns aquifer (N100	HGH	IPLN)	national ac	ղuifer.
This well is completed in the	ne Cretaceo	us System (2100	CRCS	3) loca	al aquifer.	

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USGS Water Resources	Data Category:	Geographic Area:		
osos water resources	Groundwater ~	United States	~) [GO

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Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 333803103081701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

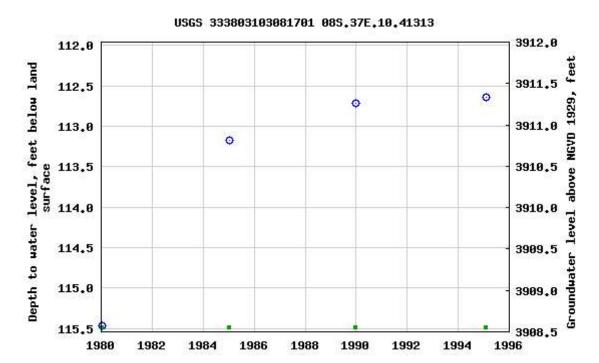
USGS 333803103081701 08S.37E.10.41313

Available data for this site Groundwater: Field measurements
GO

Roosevelt County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°38'00", Longitude 103°08'26" NAD27
Land-surface elevation 4,024.00 feet above NGVD29
The depth of the well is 154 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Cretaceous System (210CRCS) local aquifer.

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

Output formats



Period of approved data

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Valer Resources	Groundwater ~	United States	~	GO

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Agency code = usgs **site_no list** = • 333847103102001

Minimum number of levels = 1

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USGS 333847103102001 08S.37E.05.43131

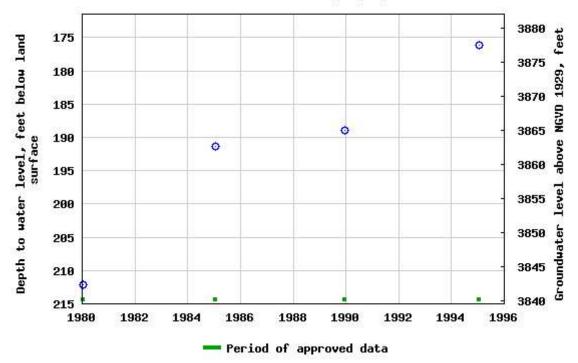
Available data for this site Groundwater: Field measurements
GO

Roosevelt County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°38'44", Longitude 103°10'31" NAD27
Land-surface elevation 4,054.00 feet above NGVD29
The depth of the well is 219 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Cretaceous System (210CRCS) local aquifer.

Output formats

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

USGS 333847103102001 085,37E,05,43131



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obeb water resources	Groundwater	✔ United States	~] [c	30

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Agency code = usgs **site_no list =** • 333919103084901

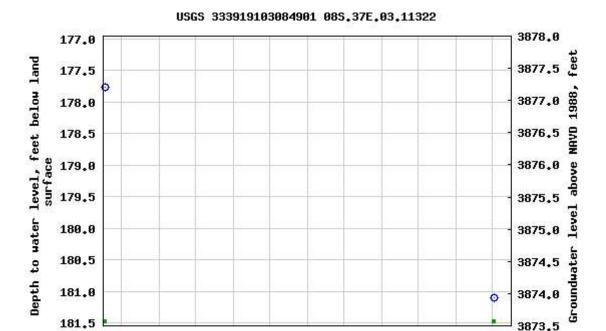
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 333919103084901 08S.37E.03.11322

Available data for this site	Groundwater:	Field measurements	♥ [GO]	
Roosevelt County, New Me	exico			
Hydrologic Unit Code 1205	50001			
Latitude 33°39'17.3", Lon	igitude 103°	08'48.9" NAD83		
Land-surface elevation 4,0	55 feet abo	ve NAVD88		
The depth of the well is 18	34 feet belov	w land surface.		
This well is completed in the	he High P <mark>l</mark> ai	ns aquifer (N100I	HGHPLN)	national aquifer.
	_	L		

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



Period of approved data

1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016

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Appendix B Field Data and Soil Profile Logs

Environmental & Safety Solutions, Inc.	Initia	al Release Asse	essment Form		
roject: Federal D 001		Clare III	Date:		
roject Number: 16853		Clean Up Level: 33.640356	Longitude:	-103.159261	(
N		Site Diagram			
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Notes:					
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	11			Yes No	
3-4 Representative Pictures of the Aff	ected Area including	sample locations?		a 0	
Necessary Samples Field Screened and				abla	
Sample and Field Screen Data Entered					
Was horizontal and vertical delineation					
and rended defined to				2	

TECH & Safety Solutions, Inc.			Sample L		
oject: Federal D 001 oject Number:	16853	_Latitude:	33.640356	Date: Longitude:	-103.159261
Sample ID	PID/Odor	LOTA A	Chloride Conc.		GPS
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Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

Environmental & Safety Solutions, Inc.		Soil Pro	file Date:	
Project: Federal D 001 Project Number:	16853 Latitude:	33.640356	Longitude:	-103.159261
Depth (ft. bgs) 1 2 3	Caliche / Pad Mo Rel Sond	De:	scription	Park From
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28 29 30 31				
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39 40	Select Land College Co.			

Environmental & Safety Solutions,	Inc.		Remediation	on Log		
roject: Federal D 00	1					
roject Number:	16853	Latitude:	33.640356	Longitude:	-103.1	.59261
					Yes	No
Confirmation of Active (One Call? One Call	No				
Confirmation-of On-Site	JSA?				- 0-	
Date:		Note	oc.		Yo	ds
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	*****(ompiete Kemedia	tion Activities***			
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					Out	In
					Yes	No
Pictures of Open Excavat		ill				
Relevant Information in I	Project Tracker?					

Appendix C Laboratory Analytical Reports



December 13, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: FEDERAL D001

Enclosed are the results of analyses for samples received by the laboratory on 12/12/22 16:11.

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/ga/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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/12/2022 Sampling Date: 12/12/2022

Reported: 12/13/2022 Sampling Type: Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact
Project Number: 16853 Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NH 1 @ 1' (H225851-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane	97.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

Sample ID: EH 1 @ 1' (H225851-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	118	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/12/2022 Sampling Date: 12/12/2022

Reported: 12/13/2022 Sampling Type: Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact
Project Number: 16853 Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: SH 1 @ 1' (H225851-03)

Chloride, SM4500CI-B	mg,	Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane	97.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	% 46.3-17	8						

Sample ID: WH 1 @ 1' (H225851-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	218	109	200	12.1	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	197	98.6	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					
Surrogate: 1-Chlorooctane	99.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112	% 46.3-17	8						

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Celey D. Keine



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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Revision 1.0 FORM-006

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: ampler - UPS	Amidanea by.		o Delicinh	halyses, All claims including invice. In no event shall Callilates or successors arising	EASE NOTE: Liability and				7	W	ىد)-	158588	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	roject Location:	roject Name:	roject #:	hone #: (575	City: Hobbs	Address: 261	Project Manager:	Company Name:
Sampler - UPS - Bus - Other:		5	7.	salyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable rivor. 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, listens 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.	LEASE 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				MHI DI'	JON HS	EH (@1'	NHI Ø I,		Sample I.D.		b	Dura!	0	6853	(575) 264-9884		2617 W Marland	1200 1200 1	
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	Please email results and copy of CoC to pm@etecheny.com		Add'I Fax #:		-																			ANALYSIS
	Detecheny com			-									-		-									REQUEST



November 10, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND

RE: FEDERAL D001

HOBBS, NM 88240

Enclosed are the results of analyses for samples received by the laboratory on 11/03/22 16:05.

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/ga/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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 11/03/2022
 Sampling Date:
 11/02/2022

 Reported:
 11/10/2022
 Sampling Type:
 Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact
Project Number: 16853 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: FL 1 @ 1' (H225208-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.85	92.7	2.00	3.47	
Toluene*	<0.050	0.050	11/10/2022	ND	1.92	96.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.94	97.1	2.00	3.57	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	5.98	99.7	6.00	3.33	
Total BTEX	<0.300	0.300	11/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	11/07/2022	ND	400	100	400	7.69	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	179	89.7	200	9.13	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	203	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/03/2022 Sampling Date: 11/02/2022

Reported: 11/10/2022 Sampling Type: Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact Project Number: 16853 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: NW 1 (H225208-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.85	92.7	2.00	3.47	
Toluene*	<0.050	0.050	11/10/2022	ND	1.92	96.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.94	97.1	2.00	3.57	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	5.98	99.7	6.00	3.33	
Total BTEX	<0.300	0.300	11/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	11/07/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	179	89.7	200	9.13	
DRO >C10-C28*	238	10.0	11/08/2022	ND	203	101	200	6.31	
EXT DRO >C28-C36	153	10.0	11/08/2022	ND					
Surrogate: 1-Chlorooctane	85.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109 9	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/03/2022 Sampling Date: 11/02/2022 Reported: 11/10/2022 Sampling Type: Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact Project Number: 16853 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: EW 1 (H225208-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.85	92.7	2.00	3.47	
Toluene*	<0.050	0.050	11/10/2022	ND	1.92	96.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.94	97.1	2.00	3.57	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	5.98	99.7	6.00	3.33	
Total BTEX	<0.300	0.300	11/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	11/07/2022	ND	400	100	400	7.69	
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	11/08/2022	ND	179	89.7	200	9.13	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	203	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					
Surrogate: 1-Chlorooctane	95.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.6	% 46.3-17	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/03/2022 Sampling Date: 11/02/2022

Reported: 11/10/2022 Sampling Type: Soil

Project Name: FEDERAL D001 Sampling Condition: Cool & Intact Project Number: 16853 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: SW 1 (H225208-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.85	92.7	2.00	3.47	
Toluene*	<0.050	0.050	11/10/2022	ND	1.92	96.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.94	97.1	2.00	3.57	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	5.98	99.7	6.00	3.33	
Total BTEX	<0.300	0.300	11/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	11/07/2022	ND	400	100	400	7.69	
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	11/08/2022	ND	179	89.7	200	9.13	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	203	101	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					
Surrogate: 1-Chlorooctane	89.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.3	26 46.3-17	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/03/2022

Sampling Date:

11/02/2022

Reported: Project Name: 11/10/2022 FEDERAL D001 Sampling Type:

Soil Cool & Intact

Project Number:

16853

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

RURAL ROOSEVELT CO., NM

Sample ID: WW 1 (H225208-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.85	92.7	2.00	3.47	
Toluene*	<0.050	0.050	11/10/2022	ND	1.92	96.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.94	97.1	2.00	3.57	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	5.98	99.7	6.00	3.33	
Total BTEX	<0.300	0.300	11/10/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	11/07/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	179	89.7	200	9.13	
DRO >C10-C28*	62.3	10.0	11/08/2022	ND	203	101	200	6.31	
EXT DRO >C28-C36	49.6	10.0	11/08/2022	ND					
Surrogate: 1-Chlorooctane	91.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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*=Accredited Analyte

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Celey D. Keine



Notes and Definitions

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

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Celeg D. Freene

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

Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: (5/5) 393-23/6		
Project Manager: Teel Lowry	P.O. #:	ANALYSIS REQUEST
Address: 2617 W. Marland	ny: H.L.	Brown
City: Hobbs State: NM Zip:		
Phone #: Fax #:	Address:	
Project #: 1685 3 Project Owner:	LI BRUM City:	
Project Name: Pederal 0 001	State: Zip:	
Project Location: Rypa 1 Roosevelt Co. NM	Phone #:	
Sampler Name: Mig Ve / Raminez	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAN	SAMPLING
H225268 (G)RAB OR (C)OMF # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chloride BTEX TPH
SEMI SVNNI VNNI VNNI		
S ww s	<	
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Relipquished By: Time: Time:	Received By:	Verbal Result:
Time:	Received By:	REMARKS: PM @ etech env. com
Sampler - UPS - Bus - Other: Corrected Temp. °C 4/8 Corrected Temp. °C 4/3	Sample Condition CHECKED BY: Cool_Intact (Initials) Yes Yes No No No	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Yes Yes Yes No Corrected Temp. °C
+ Cardinal cannot a	!	

Appendix D Photographic Log

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 202111

CONDITIONS

Operator:	OGRID:
H L BROWN OPERATING, LLC	213179
P.O. Box 2237	Action Number:
Midland, TX 79702	202111
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved. Please note going forward, to provide additional info on unregistered wells used for dtw determination, like Lat/Long data.	5/8/2023