

January 24, 2020

Vertex Project #: 19E-00575-033

Spill Closure Report:	Ironhouse 24 State Com 1H (Flare Fire)
	Unit P, Section 24, Township 18 South, Range 34 East
	County: Lea
	API: 30-025-41163
	Incident Report: nOY1720827033

 Prepared For:
 Devon Energy Production Company

 6488 Seven River Hwy

 Artesia, NM 88210

New Mexico Oil Conservation Division – District 1 – Hobbs 1625 North French Drive Hobbs, New Mexico 88240

On December 2, 2019, Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a site assessment and remediation for an oil release at Ironhouse 24 State Com 1H (Ironhouse 24), API 30-025-41163. Devon submitted an initial C-141 Release Notification (Attachment 1) to New Mexico Oil Conservation Division (NM OCD) District I and the State Land Office (SLO), who own the property, on July 27, 2017. Incident report number nOY1720827033 was assigned to this incident.

This letter provides a description of the release assessment and remediation activities, and demonstrates that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NM OCD for closure of this release, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 NMAC.

Incident Description

On July 13, 2017, a release at Devon's Ironhouse 24 site occurred when a flare scrubber swamped out, sending oil to the flare and causing a fire and minor release. The fire resulted in the release of approximately 0.25 barrel (bbl) of oil that misted onto the pad and onto an adjacent pasture to the northeast. The release area was determined to be approximately 20 feet by 20 feet; the total affected area was determined to be approximately 400 square feet.

Site Characterization

The release occurred on state-owned land at N 32.7265167, W 103.5080643, approximately 20 miles west of Hobbs, New Mexico. The legal description for the site is Unit P, Section 24, Township 18 South, Range 34 East, in Lea County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rarely range land.

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Ironhouse 24 is typical of oil and gas exploration and production sites on the western portion of the Permian Basin, and is currently used for oil and gas production. The following sections specifically describe the release area on the northeast corner of the constructed pad where the flare stack is located and in the adjacent pasture, as shown on Figure 1 (Attachment 2).

The climate is semiarid, with average annual precipitation ranging between 14 and 16 inches. The surrounding landscape is comprised of several low production plant communities, with the dominant vegetation being primarily little bluestem and sideoats grama grass species and the occasional shrubs, such as feather dalea, skunkbush sumac and juniper. Vegetation is generally sparse, with the shallow soil depth limiting plant density and the limy soils resulting in plants that are less palatable for grazing livestock than areas with deeper soil (United States Department of Agriculture, Natural Resources Conservation Service, 2019). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2019) indicates the surface geology at Ironhouse 24 is comprised primarily of To—Ogallala formation, which is alluvial and eolian deposits and petrocalcic soils indicative of southern High Plains. The United States Department of Agriculture (USDA) Web Soil Survey characterizes the soil at the site as Kimbrough-Lea complex, which consists of shallow layers of gravelly loam and loam over a cemented material (United States Department of Agriculture, Natural Resources Conservation Service, 2019). The soil is well-drained with high runoff and very low moisture levels in the profile. There is low potential for karst geology to be present near Ironhouse 24 (United States Department of the Interior, Bureau of Land Management, 2019).

There is no surface water located at Ironhouse 24. Based on the United States Fish and Wildlife Service National Wetlands Inventory, the nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 173 feet north of the site (United State Fish and Wildlife Service, 2019). There are no known water sources within a half mile of the release, nor are there any continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Using information from the New Mexico Office of the State Engineer (NM OSE) Water Column/Average Depth to Water report, depth to groundwater at Ironhouse 24 is estimated to be approximately 117 feet below ground surface (bgs) based on a groundwater well located approximately 600 feet south of the release location (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2019). The Chevron Texaco Depth to Ground Water map for Lea County confirms that depth to groundwater in the vicinity of Ironhouse 24 is approximately 100 feet bgs. Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

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Devon Energy Production Company
Ironhouse 24 State Com 1H

Based on data included in the closure criteria determination worksheet, the release at Ironhouse 24 is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site is determined to be associated with the following constituent concentration limits.

Table 1. Closure Criteria for Soils Impacted by a Release									
Depth to Groundwater	Constituent	Limit							
	Chloride	20,000 mg/kg							
	TPH ¹								
>100 feet	(GRO + DRO + MRO)	2,500 mg/kg							
>100 leet	GRO + DRO	1,000 mg/kg							
	BTEX ²	50 mg/kg							
	Benzene	10 mg/kg							

¹Total petroleum hydrocarbons (TPHs) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) ²Benzene, toluene, ethyl benzene and xylene (BTEX)

Remedial Actions

An initial site inspection of the release area and remediation activities were completed prior to Vertex being assigned this project.

On December 3, 2019, Vertex provided 48-hour notification of confirmation sampling to NM OCD and the SLO, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). On December 5, 2019, a Vertex representative was on-site to conduct confirmatory sampling. Vertex personnel collected three five-point composite samples from the identified release area such that no composite sample was representative of more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The confirmatory samples were collected and placed in laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program (NELAP)-approved laboratory for chemical analysis. The Daily Field Report (DFR) associated with confirmatory sampling is included in Attachment 4.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Final confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit was used to map the approximate center of each five-point composite sample. These confirmation sampling locations are presented on Figure 1 (Attachment 2).

Closure Request

Vertex does not recommend any additional remediation action to address the release at Ironhouse 24. As demonstrated in Table 2, laboratory analyses of the three confirmatory samples collected at Ironhouse 24 in December 2019 show final confirmatory values below NM OCD closure criteria for areas where depth to groundwater is greater than 100 feet bgs. There are no anticipated risks to human, ecological or hydrological receptors at the release site. Based on the results of confirmatory sampling and the current state of vegetation at the release site, Vertex requests that restoration

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Devon Energy Production Company Ironhouse 24 State Com 1H

and reclamation of the release area be deemed complete per 19.15.29.13 NMAC.

Vertex requests that Incident nOY1720827033 be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the July 13, 2017, release at Ironhouse 24 State Com 1H.

Should you have any questions or concerns, please do not hesitate to contact me at 505.506.0040 or ngordon@vertex.ca.

Sincerely,

atalie Fordon

Natalie Gordon PROJECT MANAGER

Attachments

- Attachment 1. NM OCD C-141 Report
- Attachment 2. Site Schematic and Confirmatory Sample Locations
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs
- Attachment 5. 48-hr Confirmation Sampling Notification
- Attachment 6. Confirmatory Sample Analyses Data Table
- Attachment 7. Laboratory Data Report and Chain of Custody Form

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References

Chevron Texaco. (2005). Eddy Co. Depth to Ground Water, Water Wells, Facilities.

- New Mexico Bureau of Geology and Mineral Resources. (2019). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2019). *Well Log/Meter Information Report.* Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- New Mexico Water Rights Reporting System. (2019). *Water Column/Average Depth to Water Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html.
- United States Department of Agriculture, Natural Resources Conservation Service. (2019). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
- United States Department of the Interior, Bureau of Land Management. (2019). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico.
- United States Department of the Interior, United States Geological Survey. (2019). *Groundwater for New Mexico: Water Levels*. Retrieved from https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels? .
- United State Fish and Wildlife Service. (2019). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/wetlands/data/mapper.html.

Limitations

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This report has been prepared for the sole benefit of Devon Energy Production Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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ATTACHMENT 1

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr.

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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

220 S. St. Fran	icis Dr., Santa	a Fe, NM 87505)	Sa	ınta F	e, NM 875	05						
			Rele	ease Notific	atio	n and Co	rrective A	ction					
						OPERA	ΓOR	🖂 Init	ial Report 🛛 Final Report				
Name of Co	ompany D	evon Energy	y Product	tion Company		Contact D	anny Velo, Proc						
Address 64	88 Seven	Rivers Hwy	Artesia, l	NM 88210		Telephone 1	No. 575-703-33	60					
Facility Na	me Ironho	use 24 State	Com 1H			Facility Ty	be Oil						
Surface Ov	wner State			Mineral	Owner	State		API N	10 30-025-41163				
				LOCA	TIO	N OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the		n/South Line	Feet from the	East/West Line	County				
Р	24	18S	34Ĕ	150'		FSL	825'	FEL	Lea				
						_							
			La	titude: 32.7265	167	Lon	gitude: -103.508	0643					
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Type of Rele	ease					Volume of	Release		Recovered				
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By Whom?						Date and I							
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									rsuant to NMOCD rules and eleases which may endanger				
									elieve the operator of liability				
should their o	operations h	ave failed to a	adequately	v investigate and r	emedia	te contaminati	on that pose a three	eat to ground wat	er, surface water, human health				
				ptance of a C-141	report c	loes not reliev	e the operator of	responsibility for	compliance with any other				
iederal, state,	, or local lav	ws and/or regu	nations.					SEDVATION	IDIVISION				
Signature: S	heila Fi	sher					<u>UIL CON</u>	SERVATION	N DI VISION				
									or				
Printed Name	e: Sheila Fis	sher				Approved by	Environmental S	pecialist:	<u>~ ()</u>				
							7/24/2017	7					
Title: Field A	Admin Sup	port				Approval Dat	e:	Expiration	1 Date:				
E-mail Addre	ess: Sheila.	fisher@dvn.c	om			Conditions of	Approval:		Attached				
							bry laboratory	analyses of	Attached				
Date: 7/14/	/17	Pho	ne: 575.7 4	18.1829			il complos (0 6	•					

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* Attach Additional Sheets If Necessary



impacted pasture area.

discrete soil samples (0-6") from the

nOY1720827033

pOY1720827296



ATTACHMENT 2



cny/Projects/Deven Energy/Ironhouse 24 State Com 11/Figure 1 - Confirmation samples Ironhouse 24 State Com 11.mxd

Natasha Mod

ATTACHMENT 3

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ite Nam	e: Ironhouse 24 State Com 1H		
Spill Coo	rdinates:	X: 32.7265167	Y: -103.5080643
Site Spec	ific Conditions	Value	Unit
1	Depth to Groundwater	117	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	2,854	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	4,299	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	17,122	feet
5	 i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 	1,060	feet
	ii) Within 1000 feet of any fresh water well or spring	>1000	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	818	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	>100	year
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD ha been replac O=orphaned C=the file is closed)	ed, d,					2=NE 3	3=SW 4=SE gest) (N	:) AD83 UTM in me	eters)	(1	n feet)	
	POD Sub-			QQ		T	Dura	v v	V	Distance			Water
POD Number L 12926 POD1	Code basir L	LE				1 ws 18S	•	X 639839	Y 3621631 🌍	Distance 323	182	water 117	Column 65
L 03888	L	LE		3 1	19	18S	35E	640253	3622912* 🥌	1057	107	70	37
L 07928	L	LE	4	4 1	19	18S	35E	640639	3622915 🌍	1272	175		
L 03721	L	LE		33	18	18S	35E	640241	3623717* 🌍	1816	161	90	71
L 09767	L	LE		33	13	18S	34E	638636	3623688* 🌍	2091	182	96	86
L 04562	L	LE		31	29	18S	35E	641874	3621315* 🌍	2164	156	95	61
L 03171	L	LE		33	17	18S	35E	641835	3623734* 🌍	2699	170	150	20
L 02053	L	LE			20	18S	35E	642464	3622723* 🌍	2767	175	78	97
L 02357	L	LE		2	20	18S	35E	642855	3623137* 🌍	3271	170	77	93
L 09576	L	LE		1 1	35	18S	34E	637082	3620041* 🌍	3327	180	130	50
L 09775	L	LE	1	23	14	18S	34E	637249	3624084 🌍	3328	183	110	73
L 03765 POD4	L	LE	2	12	27	18S	34E	636475	3621831 🌍	3332	180	80	100
L 05172	L	LE		33	07	18S	35E	640214	3625331* 🌍	3402	161	85	76
L 12633 POD1	L	LE	2	22	34	18S	34E	636852	3620203 🌍	3432	180	117	63
L 04531	L	LE		13	14	18S	34E	637016	3624067* 🌍	3499	125	100	25
L 05156	L	LE		4 1	17	18S	35E	642224	3624545* 🌍	3544	150	90	60
L 02052	L	LE			17	18S	35E	642438	3624337* 🌍	3551	190	72	118
L 09742	L	LE		14	17	18S	35E	642474	3624312 🌍	3561	200		
L 04906	L	LE		3	07	18S	35E	640415	3625532* 🌍	3630	155	87	68
L 05574	R L	LE	1	33	12	18S	34E	638509	3625399* 🌍	3681			
L 01614	L	LE	3	14	12	18S	34E	639305	3625618* 🌍	3698	204	85	119
L 11934 POD1	L	LE	3	34	35	18S	34E	637806	3618744* 🌍	3781	160	105	55
L 04931 X	L	LE		13	07	18S	35E	640208	3625735* 🌍	3802	212	105	107
L 02349	R L	LE	3	14	07	18S	35E	640891	3625641* 🌍	3844	207	85	122
L 04794	L	LE		4	07	18S	35E	641200	3625540* 🌍	3848	150	95	55
L 02349 POD2	L	LE	4	14	07	18S	35E	641091	3625641* 🌍	3905	214	85	129
*UTM location was derived f	rom PLSS - see	e Help											

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L 05079	L	LE		1	3 1	2 18S	34E	638604	3625702* 🌍	3936	159	76	83
L 05444	L	LE		4	3 3	2 18S	35E	642319	3618899* 🌍	3955	80	58	22
L 04975	L	LE	2	2	3 0	7 18S	35E	640688	3625837* 🌍	3982	152	105	47
L 00493	L	LE	1	2	1 0	5 19S	35E	642290	3618663 🌍	4123	100		
L 04851	L	LE		4	2 1	2 18S	34E	639801	3626130* 🌍	4176	155	95	60
L 01613	L	LE	3	1	4 1	1 18S	34E	637696	3625589* 🤤	4203	211	85	126
L 04762	L	LE			0	6 19S	35E	640945	3617872* 🌍	4237	175	130	45
L 02350	L	LE	4	1	3 0	8 18S	35E	641897	3625650* 🌍	4247	216	105	111
L 04211	L	LE		1	3 0	6 19S	35E	640337	3617672* 🌍	4314	130	60	70
L 14371 POD1	L	LE	1	1	2 0	5 19S	35E	642616	3618661 🌍	4328	172	60	112
L 01613 S2	L	LE	2	3	3 1	1 18S	34E	637095	3625374* 🌍	4364	220	99	121
L 09750	L	LE		3	3 2	2 18S	34E	635440	3622029* 🌍	4366	200		
<u>L 04995</u>	L	LE		4	4 3	4 18S	34E	636700	3618828* 🌍	4405	179	105	74
L 05220	L	LE		1	4 0	6 19S	35E	641131	3617681* 🌍	4473	100	55	45
L 13634 POD1	L	LE	3	3	1 2	7 18S	34E	635352	3621122 🌍	4530	182	152	30
L 02499 POD3	L	LE	1	1	1 2	7 18S	34E	635252	3621814 🌍	4555	180	121	59
L 14200 POD1	L	LE	2	2	2 0	5 19S	35E	642952	3618657 🌍	4557	180	60	120
L 10236	L	LE		3	3 2	7 18S	34E	635466	3620420* 😜	4602			
L 10344 POD2	L	LE		3	3 2	7 18S	34E	635466	3620420* 😜	4602	142	112	30
L 05139	L	LE		2	1 1:	2 18S	34E	638992	3626517* 🌍	4635	150	95	55
L 07361	L	LE		2	1 1:	2 18S	34E	638992	3626517* 🌍	4635	202	100	102
L 09428	L	LE	3	4	1 0	5 19S	35E	642231	3617997* 🌍	4640	130		
L 05851	L	LE			1 3	4 18S	34E	635681	3619816* 🌍	4645	240	85	155
L 04778	L	LE		2	1 0 [.]	7 18S	35E	640575	3626545* 🌍	4655	150	75	75
L 02680	L	LE		1	2 2	1 18S	35E	644257	3623357* 🌍	4667	190	59	131
L 09762	L	LE		3	3 3	3 18S	35E	643526	3618913* 🌍	4804	160	80	80
L 14200 POD2	L	LE	2	2	2 0	5 19S	35E	643291	3618631 🌍	4815	180	60	120
1 00599			4	2	1 1	6 100	255	644240	2622650* 🦲	4050	155	0.4	74

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		POD Sub-		0	Q	0							Danth	Domth	Mater
POD Number	Code		County			-	Sec	Tws	Rng	х	Y	Distance	-	-	Water Column
L 02679		L	LE						35E	644680	3622151* 🌍	4878			132
L 02679	R	L	LE		4	4	21	18S	35E	644680	3622151* 🌍	4878	200	68	132
L 04777		L	LE	1	2	2	07	18S	35E	641279	3626653* 🌍	4925	145	85	60
L 04796		L	LE	4	4	3	06	18S	35E	640667	3626847* 🌍	4968	150	95	55
L 10202		L	LE		4	4	28	18S	34E	635065	3620414* 🌍	4984	70	50	20
											Avera	ge Depth to	Water	91	feet
												Minimum	Depth:	50	feet
												Maximum	Depth:	152	feet
Record Count: 60															

UTMNAD83 Radius Search (in meters):

Easting (X): 639805.41

Northing (Y): 3621953.41

Radius: 5000

*UTM location was derived from PLSS - see Help

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.



New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(R-POD has been replaced

(with Ownership Information)

					-	his file, (quarters are 1=N				
	``	ft per annum)			C=the file is closed)	(quarters are sma	allest to largest)	(NAD83	UTM in meters)	
WR File Nbr	Sub basin Use D	iversion Owner	County POD Number	Well Tag	Code Grant	qqq Source 64164 Sec	Tws Rng	х	Y	Distance
L 05762	L SRO	0 THOMAS F. WELCH & ASSOCIATES	LE <u>L 05762 X</u>			2 2 2 2 25		639971	3621795* 🌍	229
L 07300	L PRO	0 AMOCO PRODUCTION COMPANY	LE <u>L 12926 POD1</u>			Shallow 2 2 3 25	18S 34E	639839	3621631 🤤	323
<u>L 12926</u>	L STK	3 NEW MEXICO STATE LAND OFFICE	LE <u>L 12926 POD1</u>			Shallow 2 2 3 25	18S 34E	639839	3621631 🌍	323
L 05762	L SRO	0 THOMAS F. WELCH & ASSOCIATES	LE <u>L 05762</u>			2 2 1 25	18S 34E	639168	3621781* 🌍	660
L 03888	L STK	3 SCHARBAUER CATTLE CO	LE <u>L 03888</u>			Shallow 3 1 19	18S 35E	640253	3622912* 🤤	1057
L 07928	L STK	0 ENERGY RESERVES GROUP,INC.	LE <u>L 07928</u>			4 4 1 19	18S 35E	640638	3622915 🤤	1272
L 02052	L UTL	1906 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02751</u>			19	18S 35E	640870	3622709* 🌍	1305
L 02751	L IND	0 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02751</u>			19	18S 35E	640870	3622709* 🌍	1305
L 03721	L PRO	0 FRED POOL DRILLING COMPANY	LE <u>L 03721</u>			Shallow 3 3 18	18S 35E	640241	3623717* 🤤	1816
L 09767	L PRO	0 MANZANO OIL	LE <u>L 09767</u>			Shallow 3 3 13	18S 34E	638636	3623688* 🤤	2091
L 04562	L PRO	0 CARPER DRILLING CO	LE <u>L 04562</u>			Shallow 3 1 29	18S 35E	641874	3621315* 🌍	2164
L 02052	L UTL	1906 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02751 S</u>			18	18S 35E	640844	3624320* 🤤	2584
L 02751	L IND	0 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02751 S</u>			18	18S 35E	640844	3624320* 🌍	2584
<u>L 03171</u>	L PRO	0 SABRE DRILLING COMPANY	LE <u>L 03171</u>			Shallow 3 3 17	18S 35E	641835	3623734* 🌍	2699
L 02052	L UTL	1906 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02053</u>			Shallow 20	18S 35E	642464	3622723* 🌍	2767
L 02053	L IND	0 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02053</u>			Shallow 20	18S 35E	642464	3622723* 🌍	2767
L 00285 A	L COM	80 VALLEY BANK OF COMMERCE	LE <u>L 14312 POD1</u>	NA		2 2 27	18S 34E	636843	3621754 🌍	2968
L 00442 AA	L COM	40 BUCKEYE WATER, LLC	LE <u>L 14312 POD1</u>	NA		2 2 27	18S 34E	636843	3621754 🌍	2968

*UTM location was derived from PLSS - see Help

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L 00443 C

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L 14312

L 14651

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L 00285 A

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and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)

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						(R=POD has been replaced	(rtara ara	4 NI	NON			
	(acre	eft per annum)				and no longer serves this file, C=the file is closed)	· ·				largest)	,	TM in meters)
Sub	,	• •			Well		(900	qqq	onnai		iaigeet)	,	,
basin	Use D	liversion Owner	County	POD Number	Тад	Code Grant So	urce	6416 4	Sec	Tws	Rng	Х	Y
L	СОМ	249.4 BUCKEYE WATER, LLC	LE	L 14312 POD1	NA			22	27	18S	34E	636843	3621754 🌍
L	СОМ	75.6 VALLEY BANK OF COMMERCE	LE	L 14312 POD1	NA			22	27	18S	34E	636843	3621754 🌍
L	EXP	0 PEARCE TRUST	LE	L 14312 POD1	NA			22	27	18S	34E	636843	3621754 🌍
L	EXP	0 PEARCE TRUST	LE	L 14651 POD2	NA			442	27	18S	34E	636823	3621101 🌍
L	IRR	120 DARR ANGELL LIVING TRUST	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	СОМ	80 BUCKEYE WATER, LLC	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	СОМ	40 BUCKEYE WATER, LLC	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	СОМ	249.4 BUCKEYE WATER, LLC	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	СОМ	75.6 VALLEY BANK OF COMMERCE	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	IRR	109.2 PEARCE TRUST	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍
L	СОМ	514.17 ANNIE M. GRAHAM	LE	L 13665 POD1		Sh	allow	222	27	18S	34E	636707	3621754 🌍

NA

0 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 13341 POD1</u>
0 MACK ENERGY	LE <u>L 13341 POD1</u>
0 MACK ENERGY	LE <u>L 13341 POD1</u>
0 MACK ENERGY	LE <u>L 13341 POD1</u>

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L 13665 POD1

LE L 14313 POD1

L 02357

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L 13352	L	PRO	0 MACK ENERGY
L 02052	L	UTL	1906 SOUTHWESTERN PUBLIC SERVICE CO
L 02357	L	СОМ	0 SOUTHWESTERN PUBLIC SERVICE CO
L 13378	L	PRO	0 DEVON ENERGY
L 13379	L	PRO	0 DEVON ENERGY
L 13381	L	PRO	0 DEVON ENERGY

	4	12	20) 18	ß	35E	64276	5	3623	148
	4	12	2 20) 18	ß	35E	64276	5	3623	148
	4	12	20) 18	ß	35E	64276	5	3623	148
	4	12	20) 18	ß	35E	64276	5	3623	148
Shallow		2	20) 18	ß	35E	64285	5	36231	37*
Shallow		2	20) 18	S	35E	64285	5	36231	37*
Shallow		2	20) 18	ß	35E	64285	5	36231	37*

2 20 18S 35E

2 20 18S 35E

Shallow

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Shallow 2 2 2 27 18S 34E

*UTM location was derived from PLSS - see Help

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(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)
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	(acre	e ft per annum)		C=the file is closed)	(quarters are smallest to largest)	
	Sub			Well	qqq	
WR File Nbr	basin Use D	Diversion Owner	County POD Number	Tag Code Grant	Source 6416 4 Sec Tws Rng	X Y Distance
L 09576	L PRO	0 MESA PETROLEUM	LE <u>L 09576</u>		Shallow 1 1 35 18S 34E	637082 3620041* 😑 3327
L 09775	L PRO	0 SOUTHLAND ROYALTY	LE <u>L 09775</u>		Shallow 1 2 3 14 18S 34E	637248 3624084 🥘 3328
L 13028	L STK	3 NEW MEXICO STATE LAND OFFICE	LE <u>L 09775</u>		Shallow 1 2 3 14 18S 34E	637248 3624084 🌍 3328
L 00285	L IRR	120 DARR ANGELL LIVING TRUST	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 😑 3332
L 00285 A	L COM	80 BUCKEYE WATER, LLC	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 😑 3332
L 00442 AA	L COM	40 BUCKEYE WATER, LLC	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 🔮 3332
<u>L 00443 C</u>	L COM	249.4 VALLEY BANK OF COMMERCE	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 😜 3332
L 00498 AA	L COM	75.6 BUCKEYE WATER, LLC	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 🥶 3332
L 03765	L COM	514.17 ANNIE M. GRAHAM	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 9 3332
L 03765 A	L COM	12 FARM CREDIT OF N.M., FLCA	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 3 332
L 13566	L EXP	0 PEARCE TRUST	LE <u>L 03765 POD4</u>	NON	Shallow 2 1 2 27 18S 34E	636475 3621831 9 3332
L 05172	L PRO	0 ROWAN DRILLING COMPANY	LE <u>L 05172</u>	NON	Shallow 3 3 07 18S 35E	640214 3625331* 3 402
<u>L 12633</u> L 12641	L PRO L PRO	0 AMTEX ENERGY INC. 0 NOVA MUD	LE <u>L 12633 POD1</u> LE L 12633 POD1	NON	Shallow 2 2 2 34 18S 34E Shallow 2 2 2 34 18S 34E	636851 3620203 3 432 636851 3620203 3 432
L 12642	L PRO	0 GLENN'S WATER WELL SERVICE	LE <u>L 12633 POD1</u>	NON	Shallow 2 2 2 34 18S 34E	636851 3620203 9 3432
L 13375	L PRO	0 AMTEX ENERGY	LE <u>L 12633 POD1</u>	NON	Shallow 2 2 2 34 18S 34E	636851 3620203 9 3432
L 13664	L PRO	0 AMTEX ENERGY	LE <u>L 12633 POD1</u>	NON	Shallow 2 2 2 34 18S 34E	636851 3620203 9 3432
L 04531	L PRO	0 CACTUS DRILLING CORPORATION	LE <u>L 04531</u>		Shallow 1 3 14 18S 34E	637016 3624067* 🤤 3499
L 05156	L PRO	0 LOWE DRILLING COMPANY INC			Shallow 4 1 17 18S 35E	642224 3624545* 😜 3544
L 02052	L UTL	1906 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 02052</u>		Shallow 17 18S 35E	642438 3624337* 😜 3551
L 02357	L COM	0 SOUTHWESTERN PUBLIC SERVICE CO	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🤭 3561
L 09742	L PRO	3 LEE CATTLE COMPANY	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🌍 3561

*UTM location was derived from PLSS - see Help

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

	(acre ft	per annum)		C=the file is closed	d) (quarters are smallest to largest)	
	Sub	÷		Well	999	Y Y DY
WR File Nbr L 13190	basin Use Div L PRO	0 MANZANO, LLC	LE L 09742	Tag Code Grant	Source 6416 4 Sec Tws Rng Shallow 1 4 17 18S 35E	X Y Distance 642474 3624312 3561
<u>L 13190</u>	L FRO	U MANZANO, LEC	LE <u>L 09742</u>		Shallow 1 4 17 163 33E	042474 3024312 5301
L 13227	L PRO	0 COG OPERATING	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🌍 3561
<u>L 13315</u>	L PRO	0 COG OPERATING	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🔵 3561
L 13316	L PRO	0 COG OPERATING	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🌍 3561
L 13317	L PRO	0 COG OPERATING	LE <u>L 09742</u>		Shallow 1 4 17 18S 35E	642474 3624312 🌍 3561
L 04906	L PRO	0 LLANO DRILLING COMPANY	LE <u>L 04906</u>		Shallow 3 07 18S 35E	640415 3625532* 🌍 3630
L 05574	L SRO	5 TEXACO INC.	LE <u>L 05574</u>	R	Shallow 1 3 3 12 18S 34E	638509 3625399* 🌍 3681
<u>L 01613</u>	L IND	0 NATIONAL POTASH COMPANY	LE <u>L 01614</u>		Shallow 3 1 4 12 18S 34E	639305 3625618* 🌍 3698
L 01613 A	L IND	0 NATIONAL POTASH COMPANY	LE <u>L 01614</u>		Shallow 3 1 4 12 18S 34E	639305 3625618* 🌍 3698
L 01613 B	L COM	0 NATIONAL POSTASH COMPANY	LE <u>L 01614</u>		Shallow 3 1 4 12 18S 34E	639305 3625618* 🌍 3698
<u>L 01614</u>	L IND	0 FREEPORT SULPHUR CO.	LE <u>L 01614</u>		Shallow 3 1 4 12 18S 34E	639305 3625618* 🌍 3698
L 02675	L IND	8330 INTREPID MINING NM LLC	LE <u>L 01614</u>		Shallow 3 1 4 12 18S 34E	639305 3625618* 🌍 3698
L 05763	L SRO	0 THOMAS F. WELCH & ASSOCIATES	LE <u>L 05763</u>		2 2 2 02 19S 34E	638414 3618509* 🌍 3714
<u>L 11934</u>	L STK	3 WILBERTA TIVIS	LE <u>L 11934 POD1</u>		Shallow 3 3 4 35 18S 34E	637806 3618744* 🌍 3781
L 04931	L SRO	486 MOBIL PRODUCING TX. & N.M. INC	LE <u>L 04931 X</u>		Shallow 1 3 07 18S 35E	640208 3625735* 🌍 3802
L 02347	L IND	0 NATIONAL POTASH COMPANY	LE <u>L 02349</u>	R	Shallow 3 1 4 07 18S 35E	640891 3625641* 🌍 3844
L 04794	L PRO	0 MARCUM DRILLING CO	LE <u>L 04794</u>		Shallow 4 07 18S 35E	641200 3625540* 🌍 3848
<u>L 02347</u>	L IND	0 NATIONAL POTASH COMPANY	LE <u>L 02349 POD2</u>		Shallow 4 1 4 07 18S 35E	641091 3625641* 🌍 3905
L 02349	L IND	0 FREEPORT SULPHUR COMPANY	LE <u>L 02349 POD2</u>		Shallow 4 1 4 07 18S 35E	641091 3625641* 🌍 3905
L 02675	L IND	8330 U.S. BANK NATIONAL ASSOCIATION	LE <u>L 02349 POD2</u>		Shallow 4 1 4 07 18S 35E	641091 3625641* 🌍 3905
			LE <u>L 02349 POD3</u>		Shallow 4 1 4 07 18S 35E	641091 3625641 🌍 3905
L 05079	L PRO	0 YATES DRILLING	LE <u>L 05079</u>		Shallow 1 3 12 18S 34E	638604 3625702* 🌍 3936

*UTM location was derived from PLSS - see Help

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		(acre	e ft per annum)				and no longer serves C=the file is closed)			=NW 2=NE 3=SW nallest to largest)		UTM in meters)	
	Sub	`				Well		、 •	q q	nanoot to largoot,	(,	
WR File Nbr	basiı	n Use 🛛	Diversion Owner	County	POD Number	Тад	Code Grant	Source 641	64 S	ec Tws Rng	Х	Y	Distance
L 05444	L	STK	3 GENE DALMONT	LE	L 05444			Shallow	433	2 18S 35E	642319	3618899* 🌍	3955
<u>L 04975</u>	L	PRO	0 HUMBLE OIL & REFINING COMPANY	LE	L 04975			Shallow 2	230	7 18S 35E	640688	3625837* 🌍	3982
L 14651	L	EXP	0 PEARCE TRUST	LE	L 14651 POD1	NA		4	412	7 18S 34E	635855	3621082 🌍	4044
<u>L 04844</u>	L	PRO	0 HUMBLE OIL & REFINING COMPANY	LE	L 04844			3	421	2 18S 34E	639700	3626029* 🌍	4076
L 05763	L	SRO	0 THOMAS F. WELCH & ASSOCIATES	LE	L 05763 X			2	210	2 19S 34E	637609	3618496* 🌍	4096
L 00493	L	IRR	100.275 TIMOTHY J. CARLIN	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 00493 A	L	CON	0 WYLIE BROTHERS CONSTRUCTION CO	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 13327	L	PRO	0 FOREST OIL CORPORATION	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 13658	L	PRO	0 COG OPERATING	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 13659	L	PRO	0 COG OPERATING	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 13660	L	PRO	0 COG OPERATING	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 14406	L	PRO	0 XTO HOLDINGS LLC	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 14407	L	PRO	0 XTO HOLDINGS LLC	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 14408	L	PRO	0 XTO HOLDINGS LLC	LE	L 00493	NA		Shallow 1	210	5 19S 35E	642290	3618663 🌍	4123
L 04851	L	PRO	0 HUMBLE OIL & REFINING COMPANY	LE	L 04851			Shallow	421	2 18S 34E	639801	3626130* 🌍	4176
L 01613	L	IND	0 NATIONAL POTASH COMPANY	LE	L 01613			Shallow 3	141	1 18S 34E	637696	3625589* 🌍	4203
L 01613 A	L	IND	0 NATIONAL POTASH COMPANY	LE	L 01613			Shallow 3	141	1 18S 34E	637696	3625589* 🌍	4203
L 01613 B	L	СОМ	0 NATIONAL POSTASH COMPANY	LE	L 01613			Shallow 3	141	1 18S 34E	637696	3625589* 🌍	4203
L 02675	L	IND	8330 U.S. BANK NATIONAL ASSOCIATION	LE	L 01613			Shallow 3	141	1 18S 34E	637696	3625589* 🌍	4203
L 04931	L	SRO	486 MOBIL PRODUCING TX. & N.M. INC	LE	L 04931 POD1		R		310	7 18S 35E	640202	3626138* 🌍	4203
L 00285	L	IRR	120 DARR ANGELL LIVING TRUST	LE	L 13129 POD1			Shallow 2	112	7 18S 34E	635574	3621843 🌍	4232
L 00285 A	L	СОМ	80 BUCKEYE WATER, LLC	LE	L 13129 POD1			Shallow 2	112	7 18S 34E	635574	3621843 🌍	4232

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)
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	(acre	e ft per annum)		C=the file is close	ed) (quarters are smallest to largest)		UTM in meters)	
	Sub			Well	999	v		
WR File Nbr		Diversion Owner	County POD Number	Tag Code Grant	Source 6416 4 Sec Tws Rng	Х		Distance
L 00442 AA	L COM	40 VALLEY BANK OF COMMERCE	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 00443 C	L COM	249.4 BUCKEYE WATER, LLC	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 00498 AA	L COM	75.6 BUCKEYE WATER, LLC	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 02499	L IRR	109.2 PEARCE TRUST	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 03765	L COM	514.17 FARM CREDIT OF N.M., FLCA	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 13129	L COM	0 MACK ENERGY	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
<u>L 13184</u>	L PRO	0 DEVON ENERGY CO.	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
<u>L 13185</u>	L PRO	0 DEVON ENERGY CO.	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 13254	L PRO	0 DEVON ENERGY CO	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 13255	L PRO	0 DEVON ENERGY CO	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 13256	L PRO	0 DEVON ENERGY CO	LE <u>L 13129 POD1</u>		Shallow 2 1 1 27 18S 34E	635574	3621843 🌍	4232
L 04587	L SRO	0 JOHN H. TRIGG	LE <u>L 04587 X</u>		2 1 02 19S 34E	637510	3618397* 🌍	4232
L 04762	L COM	44.8 DALE RITTENHOUSE	LE <u>L 04762</u>		Shallow 06 19S 35E	640945	3617872* 🌍	4237
L 02347	L IND	0 NATIONAL POTASH COMPANY	LE <u>L 02350</u>		Shallow 4 1 3 08 18S 35E	641897	3625650* 🔵	4247
L 02350	L IND	0 FREEPORT SULPHUR COMPANY	LE <u>L 02350</u>		Shallow 4 1 3 08 18S 35E	641897	3625650* 🌍	4247
L 02675	L IND	8330 U.S. BANK NATIONAL ASSOCIATION	LE <u>L 02350</u>		Shallow 4 1 3 08 18S 35E	641897	3625650* 🌍	4247
<u>L 04211</u>	L DOM	3 GENE DALMONT	LE <u>L 04211</u>		Shallow 1 3 06 19S 35E	640337	3617672* 🌍	4314
L 04211 A	L COM	0 WYLIE BROTHERS CONSTRUCTION CO	LE <u>L 04211</u>		Shallow 1 3 06 19S 35E	640337	3617672* 🌍	4314
L 14397	L PRO	0 CAZA OPERATING LLC	LE <u>L 14397 POD1</u>	NA	1 1 2 05 19S 35E	642615	3618661 🌍	4328
L 00189 A	L COM	131.94 CODY C. HUDSON	LE <u>L 14371 POD1</u>	NA	Shallow 1 1 2 05 19S 35E	642616	3618661 🌍	4328
L 14200	L COM	0 WATER SPUR LLC	LE <u>L 14371 POD1</u>	NA	Shallow 1 1 2 05 19S 35E	642616	3618661 🤤	4328
L 14371	L EXP	0 WATER SPUR LLC	LE <u>L 14371 POD1</u>	NA	Shallow 1 1 2 05 19S 35E	642616	3618661 🤤	4328
*UTM location wa	as derived from	PLSS - see Help						

10/19/19 11:16 AM

Released to Imaging: 7/5/2022 4:31:40 PM

(R=POD has been replaced

(IX=1 OD has been replaced	
and no longer serves this file,	(quarters are 1=NW 2=NE 3=SW 4=SE)

		(acre	e ft per annum)				C=the file is close	,			,	UTM in meters)	
WR File Nbr	Sub basi		Diversion Owner	Count	y POD Number	Well Tag	Code Grant	Sourc	qqq 64164 S	ec Tws Rng	х	Y	Distance
L 14398	L	PRO	0 CAZA OPERATING LLC		L 14371 POD1	NA	Code Grant			5 19S 35E	^ 642616	3618661 🤮	4328
L 01979	L	IRR	0 GENE DALMONT	LE	L 01979				14 (1 19S 34E	639532	3617625* 🥌	4337
L 01613	L	IND	0 NATIONAL POTASH COMPANY	LE	L 01613 S2			Shallo	w 233	1 18S 34E	637095	3625374* 🌍	4364
L 01613 A	L	IND	0 NATIONAL POTASH COMPANY	LE	L 01613 S2			Shallo	w 233	1 18S 34E	637095	3625374* 🌍	4364
L 01613 B	L	COM	0 NATIONAL POSTASH COMPANY	LE	L 01613 S2			Shallo	w 233	1 18S 34E	637095	3625374* 🌍	4364
L 02675	L	IND	8330 U.S. BANK NATIONAL ASSOCIATION	LE	L 01613 S2			Shallo	w 233 ′	1 18S 34E	637095	3625374* 🌍	4364
L 09750	L	PRO	3 PEARCE RANCH	LE	L 09750			Shallo	w 332	2 18S 34E	635440	3622029* 🌍	4366
L 04995	L	PRO	0 EASTLAND DRILLING COMPANY	′ LE	L 04995			Shallo	w 443	4 18S 34E	636700	3618828* 🌍	4405
L 04587	L	SRO	0 JOHN H. TRIGG	LE	L 04587				11(2 19S 34E	637107	3618390* 🌍	4469
L 05220	L	PRO	0 FAYE L KLEIN	LE	L 05220			Shallo	w 14 (6 19S 35E	641131	3617681* 🌍	4473
L 00285	L	IRR	120 DARR ANGELL LIVING TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 00285 A	L	СОМ	80 VALLEY BANK OF COMMERCE	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 00442 AA	L	СОМ	40 BUCKEYE WATER, LLC	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 00443 C	L	СОМ	249.4 BUCKEYE WATER, LLC	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 00498 AA	L	СОМ	75.6 VALLEY BANK OF COMMERCE	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 02499	L	IRR	109.2 PEARCE TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 03765	L	СОМ	514.17 LULA V. GRAHAM	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 13634	L	EXP	0 PEARCE TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	7 18S 34E	635351	3621122 🌍	4530
L 13989	L	PUB	0 PEARCE TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	27 18S 34E	635351	3621122 🌍	4530
L 13990	L	PUB	0 PEARCE TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	27 18S 34E	635351	3621122 🌍	4530
L 13991	L	PUB	0 PEARCE TRUST	LE	L 13634 POD1		NON	Shallo	w 3312	27 18S 34E	635351	3621122 🌍	4530
L 00285	L	IRR	120 DARR ANGELL LIVING TRUST	LE	L 02499 POD3			Shallo	w 1112	27 18S 34E	635251	3621814 🌍	4555
*UTM location wa	as deriv	ed from	PLSS - see Help										

*UTM location was derived from PLSS - see Help

(R=POD has been replaced

and no longer serves this file, (quart	ters are 1=NW 2=NE 3=SW 4=SE)
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	·	e ft per annum)			C=the file is closed)	(quarters are smallest to largest)	(NAD83	UTM in meters)	
WR File Nbr	Sub basin Use	Diversion Owner	County POD Number	Well Tag	Code Grant	qqq Source 64164 Sec Tws Rng	х	Y	Distance
L 00285 A	L COM	80 BUCKEYE WATER, LLC	LE <u>L 02499 POD3</u>			Shallow 1 1 1 27 18S 34E	635251	3621814 🌍	4555
L 00442 AA	L COM	40 VALLEY BANK OF COMMERCE	LE <u>L 02499 POD3</u>			Shallow 1 1 1 27 18S 34E	635251	3621814 🌍	4555
L 00443 C	L COM	249.4 VALLEY BANK OF COMMERCE	LE <u>L 02499 POD3</u>			Shallow 1 1 1 27 18S 34E	635251	3621814 🌍	4555
L 00498 AA	L COM	75.6 VALLEY BANK OF COMMERCE	LE <u>L 02499 POD3</u>			Shallow 1 1 1 27 18S 34E	635251	3621814 🌍	4555
L 02499	L IRR	109.2 PEARCE TRUST	LE <u>L 02499 POD3</u>			Shallow 1 1 1 27 18S 34E	635251	3621814 🌍	4555
<u>L 00189 A</u>	L COM	131.94 CODY C. HUDSON	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
L 00493	L IRR	100.275 SHAYNE KATHLEEN MALONEY CARLIN	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
L 14200	L COM	0 WATER SPUR LLC	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
<u>L 14400</u>	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
<u>L 14401</u>	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
L 14402	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD1</u>	NA	NON	Shallow 2 2 2 05 19S 35E	642952	3618657 🌍	4557
L 10236	L PRO	0 HARVEY YATES	LE <u>L 10236</u>			3 3 27 18S 34E	635466	3620420* 🌍	4602
L 10344	L STK	3 KENNETH SMITH	LE <u>L 10344</u>		R	3 3 27 18S 34E	635466	3620420* 🌍	4602
			LE <u>L 10344 POD2</u>			Shallow 3 3 27 18S 34E	635466	3620420* 🌍	4602
L 05139	L PRO	0 MARCUM DRILLING CO	LE <u>L 05139</u>			Shallow 2 1 12 18S 34E	638992	3626517* 🌍	4635
L 07361	L STK	3 SCHARBAUER CATTLE COMPANY	LE <u>L 07361</u>			Shallow 2 1 12 18S 34E	638992	3626517* 🌍	4635
L 09428	L PRO	3 DAL MONT RANCH JOINT VENTURE	LE <u>L 09428</u>			Shallow 3 4 1 05 19S 35E	642231	3617997* 🌍	4640
L 05851	L PRO	0 KERMAC POTASH COMPANY	LE <u>L 05851</u>			Shallow 1 34 18S 34E	635681	3619816* 🌍	4645
L 04778	L PRO	0 SHARP DRILLING COMPANY	LE <u>L 04778</u>			Shallow 2 1 07 18S 35E	640575	3626545* 🌍	4655
L 02675	L IND	8330 INTREPID MINING NM LLC	LE <u>L 02680</u>			Shallow 1 2 21 18S 35E	644257	3623357* 🌍	4667
L 02680	L IND	0 UNITED STATES POTASH COMPANY	LE <u>L 02680</u>			Shallow 1 2 21 18S 35E	644257	3623357* 🤤	4667
<u>L 12958</u>	L PRO	0 GLENN'S WATER WELL SRVC, INC.	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	4716
*UTM location wa	as derived from	PLSS - see Help							

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(R=POD has been replaced

and no longer serves this file, (qua	arters are 1=NW 2=NE 3=SW 4=SE)
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		ft per annum)			C=the file is closed)	(quarters are smallest to largest)	(NAD83		
WR File Nbr	Sub basin Use Di	version Owner	County POD Number	Well Tag	Code Grant	qqq Source 64164 Sec Tws Rng	х	Y	Distanc
13017	L PRO	0 TD WATER SERVICES	LE L 12958 POD1			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	471
13287	L PRO	0 CIMAREX ENERGY COMPANY	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	471
13624	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	471
13625	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	471
13626	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	4716
13963	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	4716
13964	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	4716
13965	L PRO	0 COG OPERATING	LE <u>L 12958 POD1</u>			Shallow 3 4 1 02 19S 34E	637498	3617839 🌍	4716
_ 04587	L SRO	0 JOHN H. TRIGG	LE <u>L 04587 X3</u>			2 2 03 19S 34E	636705	3618384* 🌍	472
_ 09762	L PRO	0 MESA PETROLEUM	LE <u>L 09762</u>			Shallow 3 3 33 18S 35E	643526	3618913* 🌍	480
_ 00189 A	L COM	131.94 LAURIE HUDSON	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14200	L COM	0 WATER SPUR LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
14216	L PRO	0 WATER SPUR LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14218	L PRO	0 WATER SPUR LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14219	L PRO	0 WATER SPUR LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14403	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14404	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
_ 14405	L PRO	0 XTO HOLDINGS LLC	LE <u>L 14200 POD2</u>	NA	NON	Shallow 2 2 2 05 19S 35E	643291	3618631 🌍	481
09588	L PRO	0 W. C. BLANKS	LE <u>L 09588</u>			Shallow 4 3 4 16 18S 35E	644349	3623659* 🌍	485
_ 02675	L IND	8330 U.S. BANK NATIONAL ASSOCIATION	LE <u>L 02679</u>		R	Shallow 4 4 21 18S 35E		3622151*	487
. 02679	L IND	0 UNITED STATES POTASH COMPANY	LE <u>L 02679 POD3</u> LE <u>L 02679</u>			4 4 21 18S 35E Shallow 4 4 21 18S 35E	644680 644680	3622151* 🌍 3622151* 🌍	487 487

						and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)								
		(acre ft pe	er annum)				C=the file is closed)	(qua	rters are	e smal	lest to largest)	(NAD83	UTM in meters)	
	Sub					Well			9 9 9					
WR File Nbr	basin	Use Diver	sion Owner	County	/ POD Number	Tag	Code Grant	Source	6416 4	Sec	Tws Rng	Х	Y	Distance
L 04777	L	PRO	0 NOBLE DRILLIN CO	LE	<u>L 04777</u>			Shallow	122	07	18S 35E	641279	3626653* 🌍	4925
L 08869	L	PRO	0 JOSEPH O'NEIL	LE	L 08869			Shallow	23	05	19S 35E	642338	3617695* 🌍	4954
L 04796	L	PRO	0 A W THOMPSON INC	LE	L 04796			Shallow	443	06	18S 35E	640667	3626847* 🌍	4968
L 10202	L	PLS	1.34 BOGLE FARM - 4 LAKES RANCH	LE	L 10202			Shallow	44	28	18S 34E	635065	3620414* 🌍	4984

Radius: 5000

(R=POD has been replaced

Record Count: 198

UTMNAD83 Radius Search (in meters):

Easting (X): 639805.41

: 639805.41

Northing (Y): 3621953.41

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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.

10/19/19 11:16 AM

Received by OCD: 5/6/2020 9:53:54 AM U.S. Fish and Wildlife Service



Ironhouse 24 1H: 173 ft to Watercourse

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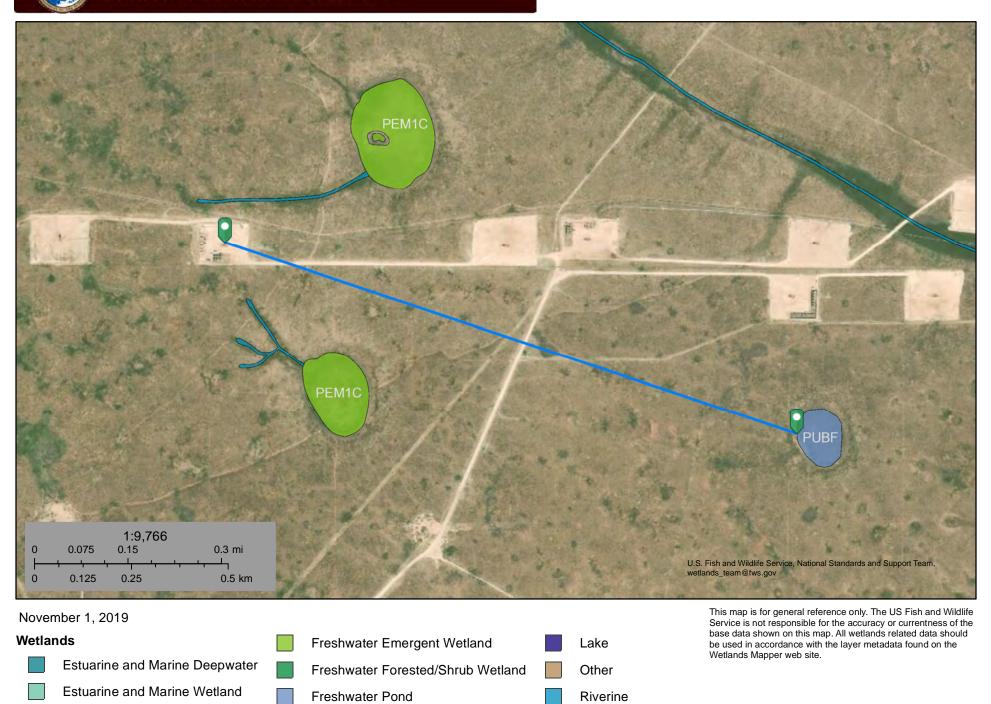
. Released to Imaging: 7/5/2022 4:31:40 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Received by OCD: 5/6/2020 9:53:54 AM U.S. Fish and Wildlife Service

National Wetlands Inventory

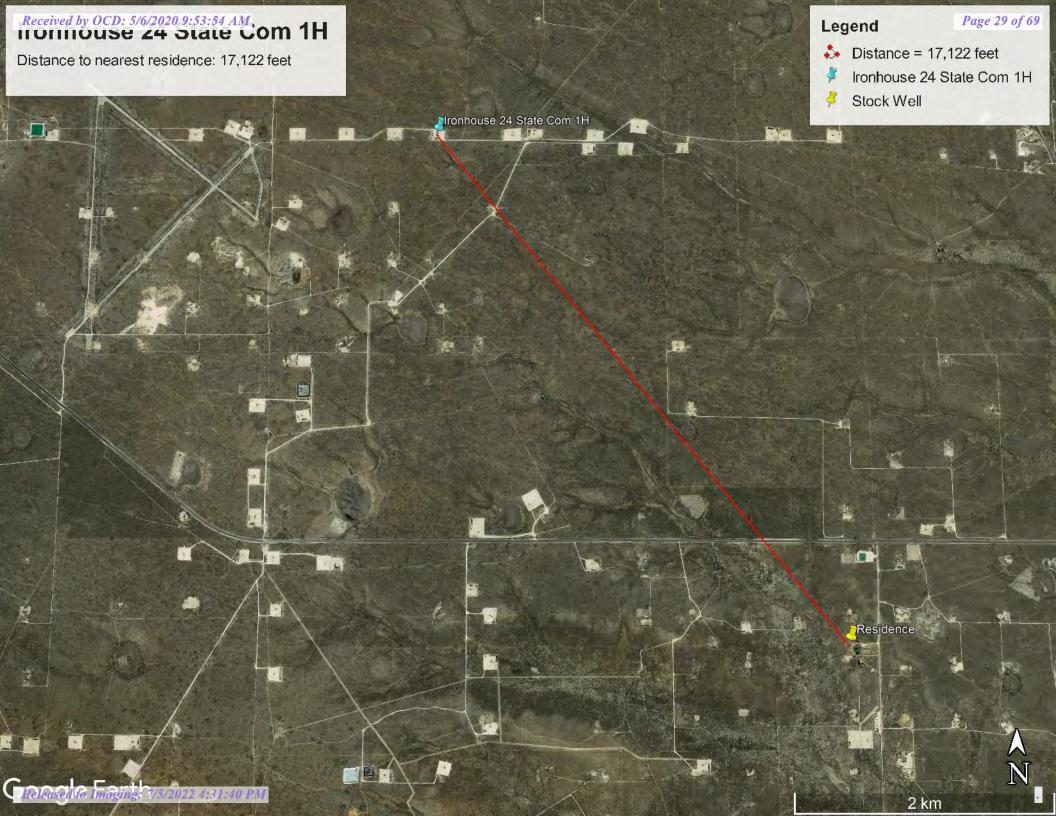
Ironhouse 24 1H - 4,299 ft to Pond



. Released to Imaging: 7/5/2022 4:31:40 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

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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 file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)					-SW 4=SE	,	AD83 UTM in me	eters)				(in fe	et)	
	POD	(-					, (,				(,	
	Sub-		q q q		T	D	v	Y	Distance			Log File	•	Depth	License
POD Number L 12926 POD1	Code basin Cou		64164 223			•	X 639839	¥ 3621631 🦲		Start Date 12/21/1974	Finish Date	01/06/1975	182	Water Driller 117 ABBOTT, MURRELL	Number 46
L 123201 0D1			225	20	100	34L	039039	3021031	525	12/21/19/4	12/23/13/4	01/00/19/5	102	TT ADDOTT, MORRELL	40
L 03888	LL	E Shallow	/ 31	19	18S	35E	640253	3622912* 🌍	1057	06/06/1958	06/06/1958	06/12/1958	107	70	99
L 07928	LL	E	441	19	18S	35E	640639	3622915 🌍	1272			10/26/1978	175		46
L 03721	LL	E Shallow	/ 33	18	18S	35E	640241	3623717* 🌍	1816	10/28/1957	10/28/1957	11/06/1957	161	90 BURKE, EDWARD B.	111
L 09767	LL	E Shallow	33	13	18S	34E	638636	3623688* 🌍	2091	12/06/1985	12/06/1985	12/31/1985	182	96 GLENN, CLARK A."CORKY" (LD)	421
L 04562	LL	E Shallow	/ 31	29	18S	35E	641874	3621315* 🌍	2164	12/20/1960	12/21/1960	12/29/1960	156	95	111
<u>L 03171</u>	LL	E Shallow	33	17	18S	35E	641835	3623734* 🌍	2699	03/30/1956	03/30/1956	05/31/1956	170	150 ABBOTT, MURRELL	46
L 02053	LL	E Shallow	1	20	18S	35E	642464	3622723* 🌍	2767	01/27/1953	02/13/1953	02/24/1953	175	78 M.I. SIGNER	17
L 02357	LL	E Shallow	2	20	18S	35E	642855	3623137* 🌍	3271	11/02/1953	12/02/1953	12/17/1953	170	77 E. BARRON	30
L 09576	LL	E Shallow	/ 11	35	18S	34E	637082	3620041* 🌍	3327	10/24/1984	10/24/1984	10/29/1984	180	130 GLENN, CLARK A."CORKY" (LD)	421
L 09775	LL	E Shallow	123	14	18S	34E	637249	3624084 🌍	3328	12/30/1985	12/30/1985	01/08/1986	183	110 GLENN, CLARK A."CORKY" (LD)	421
L 03765 POD4	LL	E Shallow	212	27	18S	34E	636475	3621831 🌍	3332	04/14/2014	04/22/2014	07/02/2014	180	80 NORRIS, JOHN D.	1682
L 05172	LL	E Shallow	33	07	18S	35E	640214	3625331* 🌍	3402	06/06/1963	06/09/1963	06/20/1963	161	85	111
L 12633 POD1	LL	E Shallow	222	34	18S	34E	636852	3620203 🌍	3432	12/10/2010	12/11/2010	12/17/2010	180	117 GLENN, TRAVIS (LD)	421
L 04531	LL	E Shallow	13	14	18S	34E	637016	3624067* 🌍	3499	09/22/1960	09/23/1960	10/24/1960	125	100 ERICKSON, W.R.	298
L 05156	LL	E Shallow	41	17	18S	35E	642224	3624545* 🔵	3544	05/20/1963	05/20/1963	05/29/1963	150	90	46

*UTM location was derived from PLSS - see Help

10/19/19 11:16 AM

A CLW##### in the OD suffix indicates	6/2020 9:53:54 A	М					Page 3
he POD has been	been replaced, O=orphaned,						
eplaced & no longer erves a water right	C=the file is	(quarters are 1=NW 2=I	,				
le.)	closed) POD	(quarters are sm	nallest to largest) (NA	AD83 UTM in meters)	(in	feet)	
	Sub-	q q q			Log File Dept	n Depth	License
OD Number		ty Source 6416 4 Sec	-	Y Distance Start D			Number
02052	L LE	Shallow 17	18S 35E 642438	3624337* 3551 02/17/1	953 03/05/1953 03/17/1953 19	0 72 A.M. BRININSTOOL	17
04906	L LE	Shallow 3 07	18S 35E 640415	3625532* 🧧 3630 05/11/1	962 05/12/1962 05/17/1962 15	5 87 BURKE, EDWARD B.	111
01614	L LE	Shallow 3 1 4 12	18S 34E 639305	3625618* 🌍 3698 03/01/1	955 03/03/1955 03/31/1955 20	4 85 MURRELL ABBOTT	46
11934 POD1	L LE	Shallow 3 3 4 35	18S 34E 637806	3618744* 🌍 3781 10/13/2	006 10/20/2006 10/24/2006 16	0 105 THOMPSON, STEVE (LD)	1414
04931 X	L LE	Shallow 1 3 07	18S 35E 640208	3625735* 🥘 3802 10/05/1	964 10/07/1964 10/15/1964 21		46
02349	R L LE	Shallow 3 1 4 07	18S 35E 640891	3625641* 🌍 3844 03/21/1	955 03/23/1955 12/01/1960 20	7 85 MURRELL ABBOTT	46
04794	L LE	Shallow 4 07	18S 35E 641200	3625540* 🌍 3848 01/27/1	962 01/27/1962 02/01/1962 15	0 95	46
02349 POD2	L LE	Shallow 4 1 4 07	18S 35E 641091	3625641* 🌍 3905 11/17/1	960 11/21/1960 12/01/1960 21	4 85 MURRELL ABBOTT JR.	. 46
02349 POD3	L LE	Shallow 4 1 4 07	18S 35E 641091	3625641 🥘 3905 03/14/2	013 03/17/2013 09/19/2014 22	0 142 HAUSLADEN, JAMES M.	368
05079	L LE	Shallow 1 3 12	18S 34E 638604	3625702* 🥘 3936 03/15/1	963 03/16/1963 03/28/1963 15		34
05444	L LE	Shallow 4 3 32	18S 35E 642319	3618899* 🌍 3955 09/29/1	064 09/29/1964 10/02/1964 8	58 BURKE, EDWARD B.	111
04975	L LE	Shallow 2 2 3 07	18S 35E 640688	3625837* 🌍 3982 09/05/1	962 09/05/1962 09/17/1962 15	2 105 MURRELL ABBOTT	46
04844	L LE	3 4 2 12	18S 34E 639700	3626029* 🌍 4076	04/19/1962		
00493	L LE	Shallow 1 2 1 05	19S 35E 642290	3618663 🌍 4123	06/30/1948 03/28/1949 10	0 HAM BISHOP	
04851	L LE	Shallow 4 2 12	18S 34E 639801	3626130* 🌍 4176 03/20/1	962 03/20/1962 03/29/1962 15	5 95 MURRELL ABBOTT	46
01613	L LE	Shallow 3 1 4 11	18S 34E 637696	3625589* 🛑 4203 03/15/1	955 03/16/1955 03/31/1955 21	1 85 MURRELL ABBOTT	46
04762	L LE	Shallow 06	19S 35E 640945	3617872* 🌍 4237 05/07/1	962 05/08/1962 05/11/1962 17	5 130	208
02350	L LE	Shallow 4 1 3 08	18S 35E 641897	3625650* 🌍 4247 03/01/1	960 03/05/1960 03/17/1960 21	6 105 MURRELL ABBOTT	46
04211	L LE	Shallow 1 3 06	19S 35E 640337	3617672* 🌍 4314 07/25/1	959 07/26/1959 08/13/1959 13	0 60	99
14371 POD1	L LE	Shallow 1 1 2 05	19S 35E 642616	3618661 🥘 4328 10/24/2	017 10/27/2017 10/31/2017 17	2 60 ROY TAYLOR	172
TM location was der		a Llalu					

10/19/19 11:16 AM

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(q				NE 3=SW 4=S	,	AD83 UTM in me	eters)		(in	feet)	I uge J
POD Number	POD Sub-		C	qqq	6	Ture Data	v	Y	Distance Start Data	Log	-	Depth	License
POD Number L 01613 S2	Code basin Co					18S 34E	X 637095	т 3625374* 🦲	Distance Start Date 4364 12/31/1968	Finish Date Date 12/31/1968 04/1		I Water Driller 0 99 MURRELL ABBOTT	Number 46
L 04995	L	_E \$	Shallow	44	34	18S 34E	636700	3618828* 🧧	4405 10/21/1962	10/21/1962 10/2	9/1962 17	9 105 MURRELL ABBOTT	46
L 05220	L	_E \$	Shallow	14	06	19S 35E	641131	3617681* 🌍	4473 08/01/1963	08/31/1963 08/2	6/1964 10	0 55 MUSSELWHITE, O.R.	99
L 13634 POD1	L	_E S	Shallow	331	27	18S 34E	635352	3621122 🌍	4530 08/27/2014	08/28/2014 08/1	9/2015 18	2 152 NORRIS, JOHN D.	1682
L 02499 POD3	L	_E \$	Shallow	111	27	18S 34E	635252	3621814 🌍	4555 02/13/2014	02/21/2014 06/1	8/2014 18	0 121 JOHN NORRIS	1682
L 14200 POD1	L	_E \$	Shallow	222	05	19S 35E	642952	3618657 🌍	4557 10/03/2016	10/04/2016 10/0	5/2016 18	0 60 TAYLOR, ROY A.	1626
<u>L 10236</u>	L	E		33	27	18S 34E	635466	3620420* 🌍	4602 02/20/1992	02/20/1992 02/2	6/1992	GLENN, CLARK A."CORKY" (LD)	421
L 10344 POD2	L	_E \$	Shallow	33	27	18S 34E	635466	3620420* 🌍	4602 01/03/2000	01/10/2000 02/0	8/2000 14		763
<u>L 05139</u>	L	_E \$	Shallow	2 1	12	18S 34E	638992	3626517* 🌍	4635 05/10/1963	05/10/1963 05/2	4/1963 15	0 95	46
L 07361	L	_E \$	Shallow	2 1	12	18S 34E	638992	3626517* 🌍	4635 04/11/1975	04/13/1975 04/2	1/1975 20	2 100 MUSSELWHITE, O.R.	99
L 09428	L	_E \$	Shallow	341	05	19S 35E	642231	3617997* 🌍	4640 02/18/1984	02/18/1984 02/2	2/1984 13	0 GLENN, CLARK A."CORKY" (LD)	421
L 05851	L	_E \$	Shallow	1	34	18S 34E	635681	3619816* 🌍	4645 01/28/1966	01/28/1966 02/0	3/1966 24	()	46
L 04778	L	E S	Shallow	2 1	07	18S 35E	640575	3626545* 🌍	4655 12/18/1961	12/19/1961 03/2	8/1963 15	0 75	46
L 02680	L	_E \$	Shallow	12	21	18S 35E	644257	3623357* 🌍	4667 01/16/1957	02/01/1957 02/1	3/1957 19	0 59 EMMETT BARRON	30
L 09762	L	_E \$	Shallow	33	33	18S 35E	643526	3618913* 🌍	4804 11/04/1985	11/04/1985 11/0	8/1985 16	0 80 GLENN, CLARK A."CORKY" (LD)	421
L 14200 POD2	L	_E \$	Shallow	222	05	19S 35E	643291	3618631 🌍	4815 09/29/2016	09/30/2016 10/0	5/2016 18	()	1626
L 09588	L	_E \$	Shallow	434	16	18S 35E	644349	3623659* 🌍	4853 11/27/1984	11/28/1984 12/0	5/1984 15	5 84 ABBOTT, MURRELL	46
L 02679	L	_E \$	Shallow	44	21	18S 35E	644680	3622151* 🌍	4878 02/07/1957	11/15/1976 03/0	4/1957 20	0 68 EMMETT BARRON	30
L 02679	R L	_E \$	Shallow	44	21	18S 35E	644680	3622151* 🌍	4878 02/07/1957	11/15/1976 03/0	4/1957 20	0 68 EMMETT BARRON	30
L 04777	L	E S	Shallow	122	07	18S 35E	641279	3626653* 🌍	4925 12/22/1961	12/23/1961 01/1	6/1962 14	5 85	99

Received by OCD: 5/6/2020 9:53:54 AM

Received by OCD: 5/	6/2020 9:53:54 AN	М											I	Page 33 of 69
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	· ·		2=NE 3=S ¹ e smallest to	,	(NAD83 UTM	in meters)				(in fe	et)		
	POD										D (1			
	Sub-		q q q							Log File	Depth	-	Lice	nse
POD Number	Code basin Count	ty Source	6416 4 S	Sec Tws R	ng	X Y	/ Distance	e Start Date	Finish Date	e Date	Well	Water Drille	r Num	nber
<u>L 04796</u>	L LE	Shallow	443 (06 18S 3	5E 6406	67 3626847	* 🌍 🛛 496	3 01/25/1962	01/25/1962	01/29/1962	150	95	4	6
Record Count: 57														
UTMNAD83 Rac	lius Search (in me	eters):												
Easting (X):	639805.41	1	Northing	(Y): 362 ⁻	1953.41		Radius: 50	00						

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.

10/19/19 11:16 AM

Received by OCD: 5/6/2020 9:53:54 AM, Ironnouse 24 State Com 1H

Distance to nearest domestic well: 1,060 feet

 Legend
 Page 34 of 69

 Ibistance = 1,060 feet

 Ironhouse 24 State Com 1H

 Stock Well



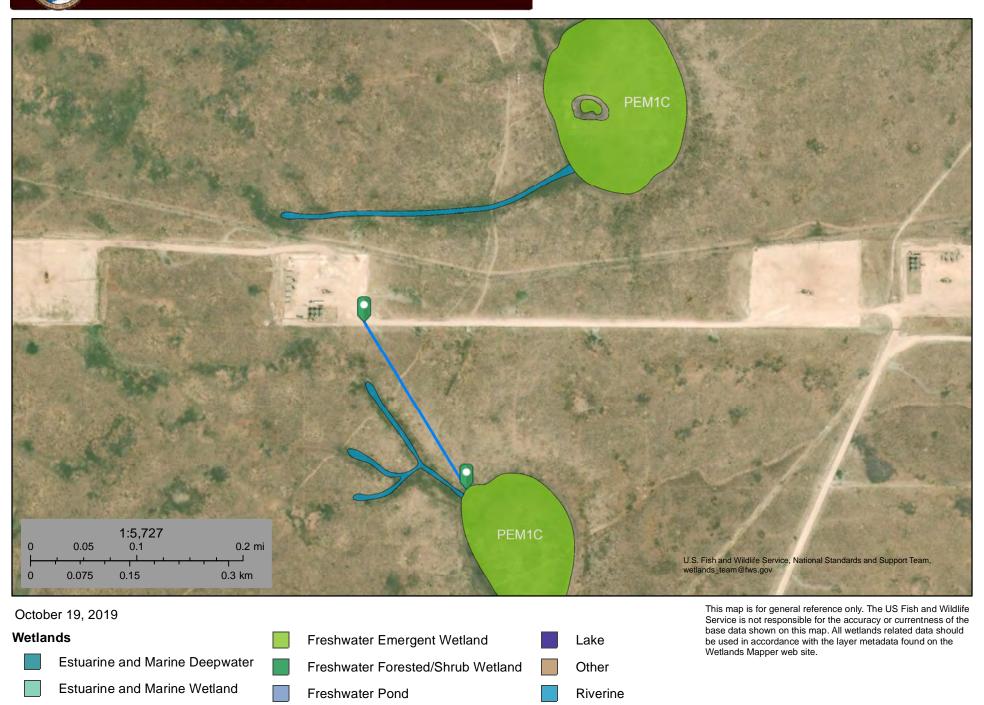


GREEKEN & Magnie 77/5/2022 4.31:40 PM

Received by OCD: 5/6/2020 9:53:54 AM U.S. Fish and Wildlife Service

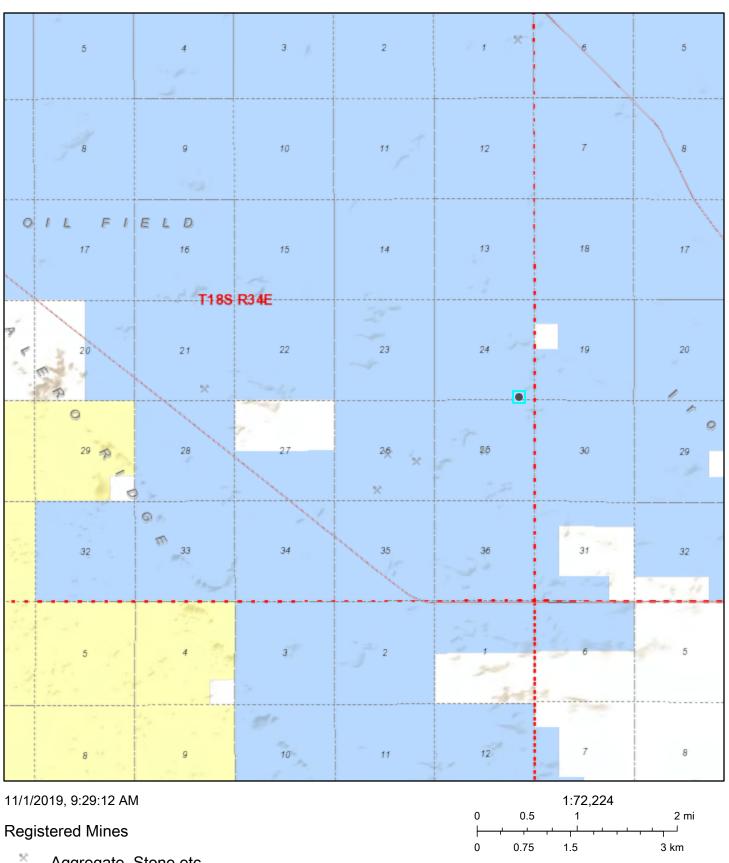
National Wetlands Inventory

Ironhouse 24 1H: 818 ft to Wetland



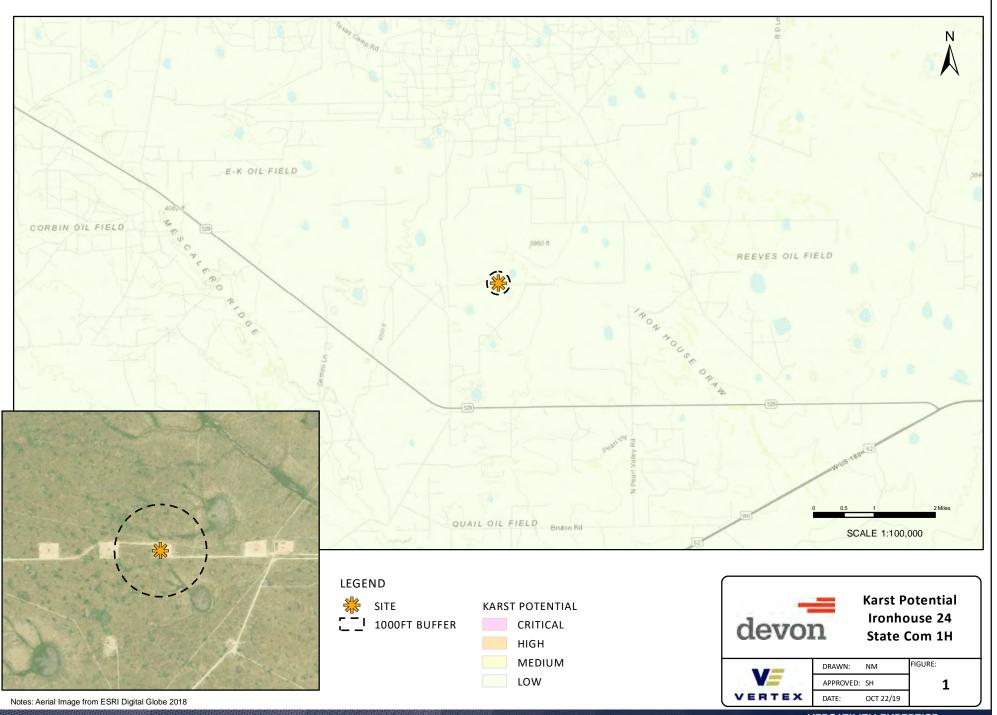
. Released to Imaging: 7/5/2022 4:31:40 PM

Active Mines near Ironhouse 24 State Com 1H



- Aggregate, Stone etc.
- 52 Aggregate, Stone etc.

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS



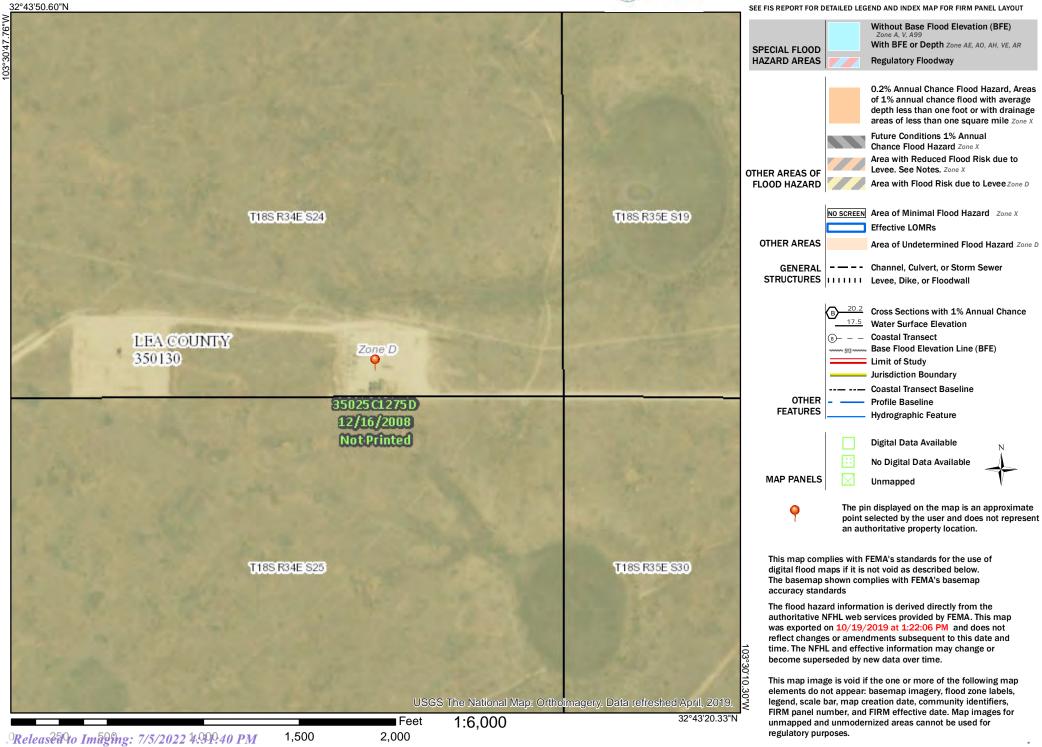
Released to Imaging: 7/5/2022 4:31:40 PM

Received by OCD: 5/6/2020 9:53:54 AM INational Flood Hazard Layer FIRMette



Legend

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Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear, concave Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

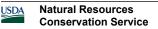
Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 95 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Available water storage in profile. Very low (

Interpretive groups

Land capability classification (irrigated): None specified



Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: Very Shallow 12-17" PZ (R077DY049TX) Hydric soil rating: No

Description of Lea

Setting

Landform: Plains Down-slope shape: Convex Across-slope shape: Linear Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 90 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 3.0
Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: Sandy Loam 12-17" PZ (R077DY047TX) Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: Sandy Loam 12-17" PZ (R077DY047TX) Hydric soil rating: No

1/20/2020 Page 2 of 3 Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Kenhill

Percent of map unit: 12 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: Clay Loam 12-17" PZ (R077DY038TX) Hydric soil rating: No

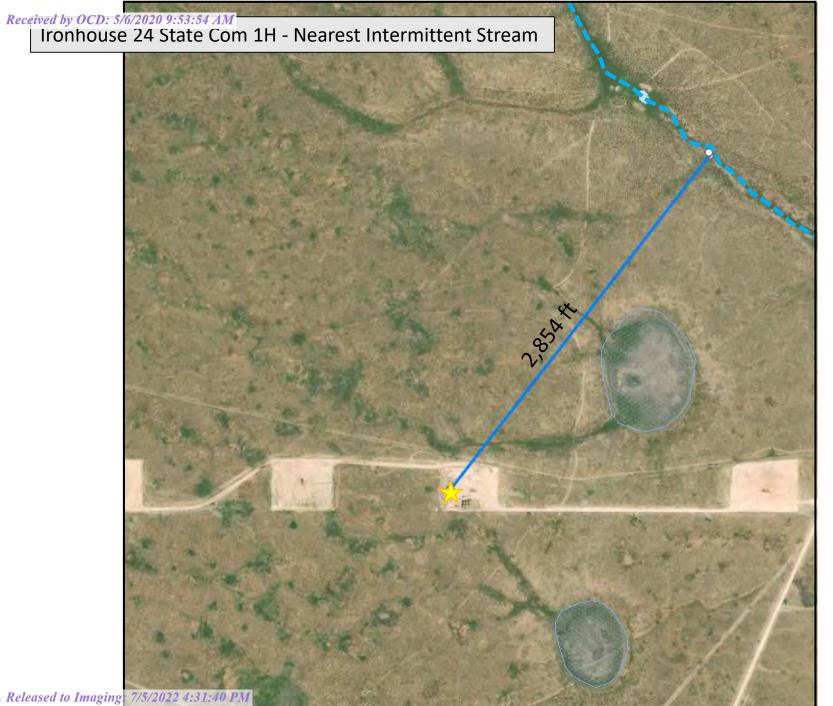
Spraberry

Percent of map unit: 6 percent Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear Ecological site: Very Shallow 12-17" PZ (R077DY049TX) Hydric soil rating: No

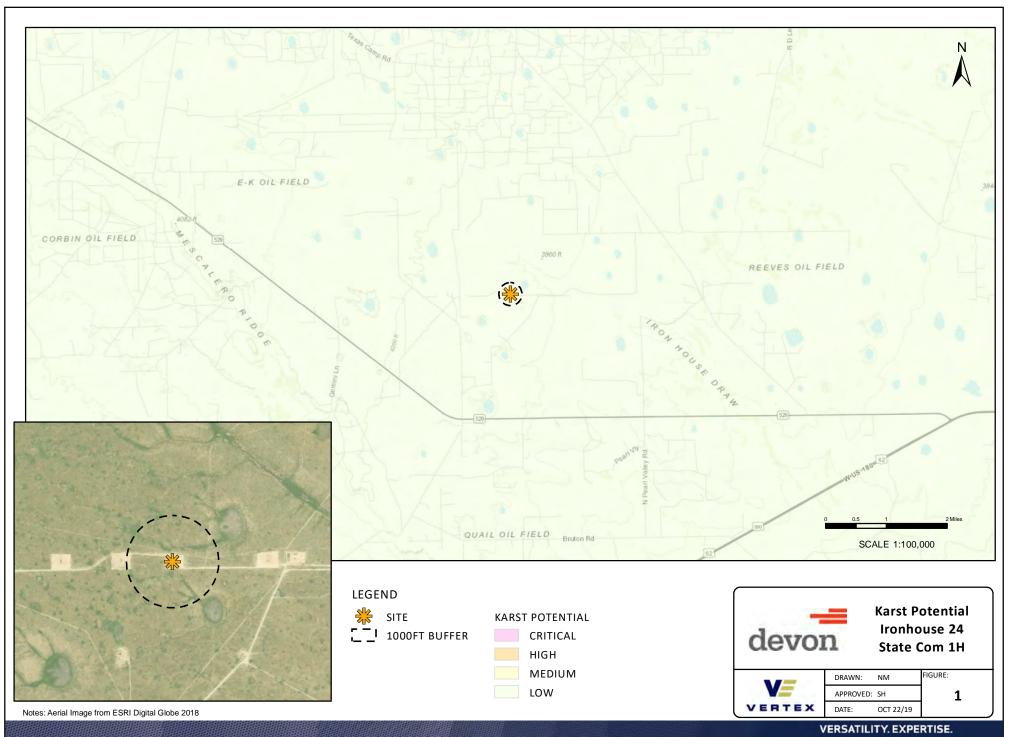
Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 16, Sep 15, 2019





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Released to Imaging: 7/5/2022 4:31:40 PM

ATTACHMENT 4



Client:	Devon Energy Corporation	Inspection Date:	12/5/2019	
Site Location Name:	Ironhouse 24 State Com 1H	Report Run Date:	12/5/2019 9:22 PM	
Project Owner:	Amanda Davis	File (Project) #:	19E-00575	
Project Manager:	Natalie Gordon	API #:	30-025-41163	
Client Contact Name:	Amanda Davis	Reference	Water Dump / Heater Treater	
Client Contact Phone #:	(575) 748-0176			
		Summary of	Times	
Left Office	12/5/2019 9:24 AM			
Arrived at Site	12/5/2019 10:37 AM			
Departed Site	12/5/2019 12:59 PM			
Returned to Office	12/5/2019 2:03 PM			

•



Site Sketch 1/4bbi oil_7.13.17 devon WG5_1984_Web_Mercator_Auxiliary_5 Prepared by: Shella Fisher Map is current as of: 14-Jul-2017 N 8.84 1:1,779 ~ 3 conf samples - 1-2 back grand Samples 8S. R34E 1/4bbl oi France "i 1 = edge: of Spill area

Run on 12/5/2019 9:22 PM UTC

. Released to Imaging: 7/5/2022 4:31:40 PM



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Summary of Daily Operations

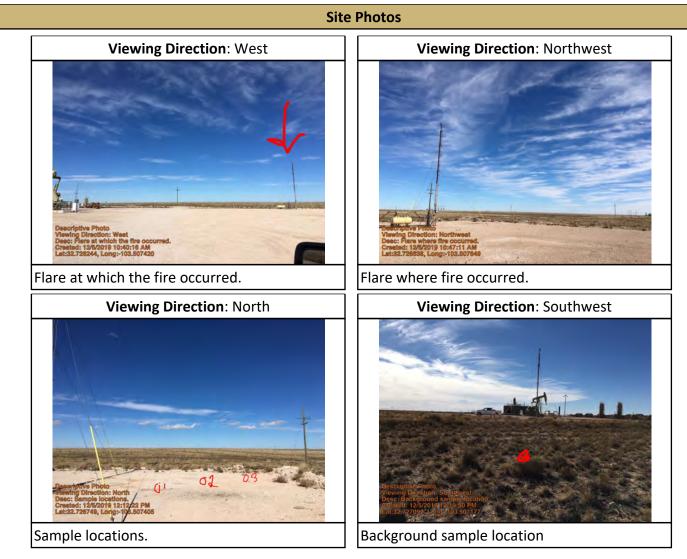
10:38 Take confirmation samples of flare fire spray spill.

Next Steps & Recommendations

1

.







Daily Site Visit Signature

Inspector: Sharlene Harvester

Signature: 🛩

Run on 12/5/2019 9:22 PM UTC

•

ATTACHMENT 5

Natalie Gordon

From:	Natalie Gordon
Sent:	Tuesday, December 3, 2019 12:45 PM
То:	emnrd-ocd-district1spills@state.nm.us; ramona.marcus@state.nm.us; Mike Bratcher (mike.bratcher@state.nm.us)
Cc: Subject:	Davis, Amanda; Dennis Williams (DWilliams@vertex.ca) RE: 1RP-4768: Ironhouse 24 State Com 1H 48-hr Sampling Notification - Devon Energy

Correction: sampling will take place on Thursday, December 5, 2019 at 2:00pm at Ironhouse 24 State Com 1H.

From: Natalie Gordon
Sent: Tuesday, December 3, 2019 12:39 PM
To: emnrd-ocd-district1spills@state.nm.us; ramona.marcus@state.nm.us; Mike Bratcher (mike.bratcher@state.nm.us)
<mike.bratcher@state.nm.us>
Cc: Davis, Amanda <Amanda.Davis@dvn.com>; Dennis Williams (DWilliams@vertex.ca) <DWilliams@vertex.ca>
Subject: 1RP-4768: Ironhouse 24 State Com 1H 48-hr Sampling Notification - Devon Energy

All:

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled confirmation sampling to be conducted at Ironhouse 24 State Com 1H for an oil release that occurred on July 13, 2017. The reference number for this incident is 1RP-4768.

On December 4, 2019 beginning at 2:00 p.m., Vertex personnel will be onsite to collect confirmation samples for closure of the above referenced incident.

If you need assistance with directions to the site, or have any questions or concerns, please do not hesitate to contact me.

Thank you, Natalie

ATTACHMENT 6

Client Name: Devon Energy Production Company Site Name: Ironhouse 24 State Com 1H Project #: 19E-00575-033 Lab Report: 1912273

		Table 2.	Confirmatory :	Soil Samples -	Depth to Grou	undwater > <u>1</u> 0	0 feet			
	Sample Description				Petro	oleum Hydrocai	bons			Inorganic
			Vol	atile			Extractable			morganic
Sample ID	Depth (ft)	Sample Date	euseuseuseuseuseuseuseuseuseuseuseuseuse	(gay/ga)	ଞ୍ଚ ଜ୍ଞ Gasoline Range ଅନ୍ଧି Organics (GRO)	ଞ୍ଚ Diesel Range ଅନୁOrganics (DRO)	ଅ ଜ୍ଞି Motor Oil Range ସୁ Organics (MRO)	(00) (mg/kg)	ୁ ଅ Total Petroleum ଅ Hydrocarbons ଅ (TPH)	(mg/kg)
BG 19-01	0	12/5/2019	<0.024	<0.219	<4.9	<9.4	<47	<14.3	<61.3	<60
BS 19-01	0	12/5/2019	<0.023	<0.207	<4.6	<9.6	<48	<14.2	<62.2	140
BS 19-02	0	12/5/2019	<0.024	<0.215	<4.8	<9.9	<49	<14.7	<63.7	180
BS 19-03	0	12/5/2019	<0.025	<0.222	<4.9	<9.4	<47	<14.3	<61.3	60

Bold and shaded indicates exceedance outside of applied action level



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ATTACHMENT 7



December 12, 2019

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1912273

RE: Ironhouse 24 1H Flare Fire

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/6/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Vertex Resource Group Ltd.

Project: Ironhouse 24 1H Flare Fire

Analytical Report Lab Order 1912273

Date Reported: 12/12/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG19-01 0' Collection Date: 12/5/2019 11:31:00 AM **Descrived Deter** 12/6/2010 0:00:00 AM

Lab ID: 1912273-001	Matrix: SOIL	Rece	Received Date: 12/6/2019 9:00:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: BRM					
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/11/2019 4:28:10 PM					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/11/2019 4:28:10 PM					
Surr: DNOP	80.3	70-130	%Rec	1	12/11/2019 4:28:10 PM					
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2019 4:41:32 PM					
Surr: BFB	79.4	66.6-105	%Rec	1	12/9/2019 4:41:32 PM					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.024	mg/Kg	1	12/9/2019 4:41:32 PM					
Toluene	ND	0.049	mg/Kg	1	12/9/2019 4:41:32 PM					
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2019 4:41:32 PM					
Xylenes, Total	ND	0.097	mg/Kg	1	12/9/2019 4:41:32 PM					
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	12/9/2019 4:41:32 PM					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	ND	60	mg/Kg	20	12/10/2019 12:49:10 AM					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Project:

Lab ID:

CLIENT: Vertex Resource Group Ltd.

1912273-002

Ironhouse 24 1H Flare Fire

Analytical Report Lab Order 1912273

Date Reported: 12/12/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS19-01 0' Collection Date: 12/5/2019 12:11:00 PM Received Date: 12/6/2019 9:00:00 AM

	Soll	1000							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/11/2019 4:37:17 PM				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/11/2019 4:37:17 PM				
Surr: DNOP	87.7	70-130	%Rec	1	12/11/2019 4:37:17 PM				
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/9/2019 5:05:07 PM				
Surr: BFB	81.6	66.6-105	%Rec	1	12/9/2019 5:05:07 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.023	mg/Kg	1	12/9/2019 5:05:07 PM				
Toluene	ND	0.046	mg/Kg	1	12/9/2019 5:05:07 PM				
Ethylbenzene	ND	0.046	mg/Kg	1	12/9/2019 5:05:07 PM				
Xylenes, Total	ND	0.092	mg/Kg	1	12/9/2019 5:05:07 PM				
Surr: 4-Bromofluorobenzene	93.9	80-120	%Rec	1	12/9/2019 5:05:07 PM				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	140	60	mg/Kg	20	12/10/2019 1:01:30 AM				

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

CLIENT: Vertex Resource Group Ltd.

Project: Ironhouse 24 1H Flare Fire

Analytical Report Lab Order 1912273

Date Reported: 12/12/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS19-02 0' Collection Date: 12/5/2019 11:51:00 AM **Descrived Deter** 12/6/2010 0:00:00 AM

Lab ID: 1912273-003	Matrix: SOIL	Received Date: 12/6/2019 9:00:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/11/2019 4:46:23 PM				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/11/2019 4:46:23 PM				
Surr: DNOP	78.4	70-130	%Rec	1	12/11/2019 4:46:23 PM				
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/9/2019 5:28:38 PM				
Surr: BFB	80.4	66.6-105	%Rec	1	12/9/2019 5:28:38 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.024	mg/Kg	1	12/9/2019 5:28:38 PM				
Toluene	ND	0.048	mg/Kg	1	12/9/2019 5:28:38 PM				
Ethylbenzene	ND	0.048	mg/Kg	1	12/9/2019 5:28:38 PM				
Xylenes, Total	ND	0.096	mg/Kg	1	12/9/2019 5:28:38 PM				
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	12/9/2019 5:28:38 PM				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	180	60	mg/Kg	20	12/10/2019 1:13:51 AM				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Project:

CLIENT: Vertex Resource Group Ltd.

Ironhouse 24 1H Flare Fire

Analytical Report Lab Order 1912273

Date Reported: 12/12/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS19-03 0' Collection Date: 12/5/2019 11:41:00 AM **Received Date:** 12/6/2010 0:00:00 AM

Lab ID: 1912273-004	Matrix: SOIL	Received Date: 12/6/2019 9:00:00 AM							
Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	750	9.4	mg/Kg	1	12/11/2019 4:55:27 PM				
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	12/11/2019 4:55:27 PM				
Surr: DNOP	77.3	70-130	%Rec	1	12/11/2019 4:55:27 PM				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2019 5:52:13 PM				
Surr: BFB	79.6	66.6-105	%Rec	1	12/9/2019 5:52:13 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.025	mg/Kg	1	12/9/2019 5:52:13 PM				
Toluene	ND	0.049	mg/Kg	1	12/9/2019 5:52:13 PM				
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2019 5:52:13 PM				
Xylenes, Total	ND	0.099	mg/Kg	1	12/9/2019 5:52:13 PM				
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	12/9/2019 5:52:13 PM				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	60	59	mg/Kg	20	12/10/2019 1:50:54 AM				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

Client: Project:	Vertex Rese Ironhouse 2		1								
Sample ID: MB-4	9232	SampT	ype: m t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS		Batch	n ID: 49	232	F	RunNo: 6	5035				
Prep Date: 12/9	/ 2019 A	nalysis D	ate: 12	2/9/2019	S	SeqNo: 22	231761	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LCS-	49232	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS	;	Batch	n ID: 49	232	F	RunNo: 6	5035				
Prep Date: 12/9	/ 2019 A	nalysis D	ate: 12	2/9/2019	5	SeqNo: 22	231762	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

1912273

12-Dec-19

WO#:

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resource Group Ltd.

Project: Ironhou	se 24 1H Flare I	Fire							
Sample ID: LCS-49249	SampType:	LCS	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	49249	R	RunNo: 650	93				
Prep Date: 12/10/2019	Analysis Date:	12/11/2019	S	SeqNo: 223	3725	Units: %Rec	:		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9	5.000		118	70	130			
Sample ID: MB-49249	SampType:	MBLK	Test	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID:	49249	R	RunNo: 650	93				
Prep Date: 12/10/2019	Analysis Date:	12/11/2019	S	SeqNo: 223	3726	Units: %Rec	:		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	14	10.00		136	70	130			S
Sample ID: LCS-49218	SampType:	LCS	Test	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	49218	R	RunNo: 650	93				
Prep Date: 12/9/2019	Analysis Date:	12/11/2019	S	SeqNo: 223	3816	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	-	10 50.00	0	105	63.9	124			
Surr: DNOP	4.6	5.000		92.2	70	130			
Sample ID: MB-49218	SampType:	MBLK	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID:	49218	R	RunNo: 650	93				
Prep Date: 12/9/2019	Analysis Date:	12/11/2019	S	SeqNo: 223	3817	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	10	10.00		99.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#:

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Client: Project:	Vertex Resource Ironhouse 24 11									
Sample ID: mb-49	206 Sa	трТуре: М	IBLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	E	Batch ID: 4	9206	F	RunNo: 6	5038				
Prep Date: 12/6/2	2019 Analys	sis Date: 1	2/9/2019	5	SeqNo: 2	231210	Units: mg/K	(g		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO) N	D 5.0)							
Surr: BFB	86	60	1000		85.8	66.6	105			
Sample ID: Ics-49	2 06 Sa	mpType: L	cs	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	E	Batch ID: 4	9206	F	RunNo: 6	5038				
Prep Date: 12/6/2	2019 Analys	sis Date: 1	2/9/2019	S	SeqNo: 2	231219	Units: mg/K	ſg		
Analyte	Resu	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO) 2	25 5.0	25.00	0	99.2	80	120			
Surr: BFB	93	0	1000		92.9	66.6	105			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 1912273 12-Dec-19

	rtex Resource G nhouse 24 1H F	•								
Sample ID: mb-49206	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Bato	h ID: 49	206	F	RunNo: 6	5038				
Prep Date: 12/6/2019	Analysis	Date: 12	2/9/2019	S	SeqNo: 2	231250	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	e 1.0		1.000		99.5	80	120			
Sample ID: LCS-49206	Samp	Туре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bato	ch ID: 49	206	F	RunNo: 6	5038				
Prep Date: 12/6/2019	Analysis	Date: 12	2/9/2019	S	SeqNo: 2	231251	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.1	80	120			
Toluene	0.90	0.050	1.000	0	90.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	e 0.97		1.000		97.0	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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1912273

12-Dec-19

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397: Website: www.h	4901 Haw mquerque, NN 5 FAX: 505-3	kins NE M 87109 45-4107	Sample Log-In Check List				
Client Name: VERTEX CARLSBAD	Work Order Number	: 1912273			RcptNo: 1			
Received By: Yazmine Garduno Completed By: Erin Melendrez	12/6/2019 9:00:00 AM 12/6/2019 9:49:02 AM		n forge	rin liljendesti UA				
Reviewed By: DAD 12/6/19			_ `		~			
Chain of Custody								
1. Is Chain of Custody sufficiently complete?		Yes 🗹	N	•	Not Present			
2. How was the sample delivered?		<u>Courier</u>						
Log In 3. Was an attempt made to cool the samples?		¥ .						
5. Was an allempt made to cool the samples?		Yes 🗹	N	b	NA 🗌			
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🗹	No	•				
5. Sample(s) in proper container(s)?		Yes 🗹	No	• 🗆				
6. Sufficient sample volume for indicated test(s)	?	Yes 🗹	No					
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No					
8. Was preservative added to bottles?		Yes 🗌	No		NA 🗌			
9. Received at least 1 vial with headspace <1/4"	for AQ VQA?	Yes 🗌	No					
10, Were any sample containers received broker		Yes			# of preserved	·		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No		bottles checked for pH: (<2 or >12 unles	s noted)		
12. Are matrices correctly identified on Chain of C	sustody?	Yes 🗹	No		Adjusted?			
13. Is it clear what analyses were requested?		Yes 🗹	No			11116		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No		Checked by: 16 [2	1411		
Special Handling (if applicable)								
15. Was client notified of all discrepancies with the	nis order?	Yes 🗌	No	b	NA 🗹			
Person Notified:	Date:							
By Whom:	Via:	eMail] Phone [] Fax	In Person			
Regarding:								
Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u>								
	al Intact Seal No	Seal Date	Signed	By				
1 4.3 Good								

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<i>Received by OCD: 5/6/2020 9:</i>	33:04 AW					Page 65 of 65
AL						
ENVIRONMENTAL YSIS LABORATOR environmental.com Albuquerque, NM 87109 Fax 505-345-4107 ralysis Request						Date Time Remarks: Date Time 15 20 Date Time 100 N 00 100 This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
						lalytica
ENVIRONME YSIS LABOR/ environmental.com Albuquerque, NM 87109 Fax 505-345-4107 ialysis Request						the
RO Ital.c Jue, N Jues	Total Coliform (Present/Absent)					ated
S S S S	(AOV-im92) 0728					arly not
- ENVIRO LYSIS LAE allenvironmental.cc - Albuquerque, Ni 5 Fax 505-345- Analysis Request	8260 (VOA)					pe cles
	RCRA 8 Metals CIDE, Br, NO3, NO2, PO4, SO4	XX	XX			ata will
HALL ENVIRON ANALYSIS LABC www.hallenvironmental.com kins NE - Albuquerque, NM 345-3975 Fax 505-345-41 Analysis Request	PAHs by 8310 or 8270SIMS					acted d
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1)					-contra
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Turn-Around Time:	Project Manager: NATALIE Sampler: S MAC On Ice: N Yes # of Coolers: C Cooler Temp _{(meluding} cr): Cooler Temp _{(meluding} cr): Cooler Temp _{(meluding} cr): Type and # Type	রিh 🔊				Received by Received by Received by
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Chain-of-Custody Record "VERTEX RESONRCE SERV 19 Address: ON FILE	r Fax# Packag dard (Type Time	11:31 12:11	11:11 15:11			Time: Relinduished M. Received by Via: M.
Client: VERTEX RESONRES REVIES Mailing Address: ON FILE	이 안 된 흔 뛰음[$ \Omega $
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Received by OCD: 5/6/2020 9:53:54 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	1 uge 00 0 j 0
Incident ID	nOY1720827033
District RP	1RP-4768
Facility ID	
Application ID	pOY1720827296

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗴 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗴 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗴 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗶 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗴 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗶 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗴 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗶 No
Are the lateral extents of the release within a 100-year floodplain?	Yes X 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.

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

Received by OCD: 5/6/2020 9:53:54 AM State of New Mexico			Page 67 of 6		
101111 (-141			Incident ID	nOY1720827033	
Page 4	Oil Conservation Division	L	District RP	1RP-4768	
			Facility ID		
			Application ID	pOY1720827296	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Signature: Wesley	weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the second structure weight of the sec	notifications and perform ne OCD does not relieve threat to groundwater, su r of responsibility for con Title: Enviro Date:	corrective actions for r the operator of liability rface water, human hea npliance with any other onmentalRepresentat	eleases which may endanger should their operations have lth or the environment. In federal, state, or local laws	
OCD Only					

Oil Conservation Division

Incident ID	nOY1720827033
District RP	1RP-4768
Facility ID	
Application ID	pOY1720827296

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Closure

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

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

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X 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)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X 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:Wes Mathews	Title: Environmental Representative
Signature: Wesley Mathews	Date: <u>1/27/2020</u>
email:wesley.mathews@dvn.com	Telephone:575-746-5549
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Jocelyn Harimon	07/05/2022
Closure Approved by:	
Printed Name	Environmental Specialist

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

CONDITIONS

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

Operator:		OGRID:
0	DEVON ENERGY PRODUCTION COMPANY, LP	6137
3	333 West Sheridan Ave.	Action Number:
C	Oklahoma City, OK 73102	8110
		Action Type:
1		[C-141] Release Corrective Action (C-141)

CONDITION	-	
Created By	Condition	Condition
		Date
jharimon	Depth to Groundwater is not adequately confirmed however the data does allow the OCD to approve this incident for closure. Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	7/5/2022

CONDITIONS

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Action 8110