January 24, 2020 Vertex Project #: 19E-00575-031

Spill Closure Report: Townsend State 5
Unit O, Section 2, Township 16 South, Range 35 East
County: Lea
API: 30-025-34500
Tracking Number: nCH1827850988

Prepared For: Devon Energy Production Company
6488 Seven Rivers Highway
Artesia, New Mexico 88210

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

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for an oil release that occurred at Townsend State 5, API 30-025-34500 (hereafter referred to as "Townsend"). Devon provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 1 and the Bureau of Land Management (BLM) on October 11, 2018, via submission of an initial C-141 Release Notification (Attachment 1). The NM OCD tracking number for this incident is nCH1827850988.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, Sante Fe, 2018) have been 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 any restoration of the site required as a result of this incident will be deferred until such time as oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 NMAC.

Incident Description

On September 13, 2018, a release occurred at Devon's Townsend site when a heater treater over pressured causing a spill. This incident resulted in the release of approximately 23 barrels (bbls) of oil into the heater treater unlined secondary containment. No oil was released into undisturbed areas or waterways. Upon discovery of the release, repairs were made and a hydrovac truck was dispatched to the site to recover free liquids. Approximately 15 bbls of oil were recovered from the spill area and removed for disposal off-site.

Site Characterization

The release at Townsend occurred on federally owned land, N 32.9447594, W 103.424675, approximately 3 miles west of Lovington, New Mexico. The legal description for the site is Unit O, Section 2, Township 16 South, Range 35 East, 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 rangeland. An aerial photograph and site schematic are included in

Attachment 2.

Townsend is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and is currently used for oil and gas production, and storage. The following sections specifically describe the release area on the western portion of the constructed wellpad where the heater treater is located.

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 primarily being little bluestem and sideoats grama grass species, with 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. Areas of sandy loam shortgrass communities can be found interspersed within the shallower ecological sites, and these areas boast a wider variety of grasses and more productive rangeland when managed properly (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 Townsend 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 Townsend (United States Department of the Interior, Bureau of Land Management, 2019).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a man-made intermittent drainage at the Lovington Airport, located approximately ¾ mile east-northeast of the release location. The nearest intermittent stream is located approximately 5 miles south of the site and an intermittent pond is located approximately 2,000 feet to the southwest of Townsend (United States Department of the Interior, United States Geological Survey 2019). There are no 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.

The nearest active well to the site is a New Mexico Office of the State Engineer (NM OSE)-identified well located approximately 900 feet southeast of Townsend (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2019). Depth to groundwater at this well is 46 feet below ground surface (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.

Based on data included in the closure criteria determination worksheet, the release at Townsend 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 are 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
<50 feet	Chloride	600 mg/kg
	TPH[1] (GRO + DRO + MRO)	100 mg/kg
	BTEX[2]	50 mg/kg
	Benzene	10 mg/kg

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

Remedial Actions

An initial spill inspection and remediation efforts at Townsend were completed by White Buffalo Environmental in early 2019 (Attachment 4). In October 2019, Vertex was assigned to complete the remediation and conduct confirmation sampling to obtain regulatory closure of the incident.

On November 2, 2019, a Vertex representative was on-site to evaluate the release and field screen soil samples to determine whether any remediation had occurred. Field screening results showed that initial soil characterization results indicating high levels of TPH remaining in the soil (Table 2, Attachment 5) had not been addressed. It was determined that a full excavation would be required in order to meet NM OCD closure criteria for the site.

On November 11, 2019, the well was temporarily shut-in and aboveground production equipment (e.g. heater treater) was removed from release location. On November 12, 2019, Vertex provided 48-hour notification of confirmation sampling to NM OCD District 1 and the BLM, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. Excavation of the contaminated soil was conducted between November 12 and 15, 2019, with a Vertex representative on-site to conduct field screening and confirmatory sampling, and guide excavation. Vertex personnel collected four composite confirmatory soil samples, each representative of no 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 composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program (NELAP)-approved laboratory for chemical analysis. The Daily Field Reports (DFRs) associated with Vertex remediation activities are included as Attachment 6.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including benzene and BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Table 3 (Attachment 5). 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 the five-point composite samples. The confirmation sampling locations are presented on Figure 1 (Attachment 2).

Closure Request

Vertex recommends no additional remediation action to address the release at Townsend. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD Closure Criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

The spill area was excavated and sampled, and has been backfilled with clean material to the extent necessary. As the release occurred on an active wellpad, Vertex requests that restoration and reclamation of the spill area be waived with the understanding that the new site owners will complete those activities at such time as the wellpad is removed and reclaimed per 19.15.29.13 NMAC.

Vertex requests that this incident (nCH1827850988) 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 September 13, 2018, release at Townsend State 5.

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

Sincerely,

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. White Buffalo Environmental Site Characterization Report
Attachment 5. Characterization and Confirmatory Sample Laboratory Results
Attachment 6. Daily Field Report(s) with Photographs
Attachment 7. Laboratory Data Reports/COCs

References

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. (2019). *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 States Department of the Interior, United States Geological Survey. (2019). *The National Map: National Hydrography Dataset*. Retrieved from http://nationalmap.gov/index.

Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company (Devon). 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. 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.

ATTACHMENT 1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Brett Fulks	Contact Telephone 575 748 1844
Contact email brett.fulks@dvn.com	Incident # NCH1827850988 TOWNSEND STATE 5 @ 30-025-34500
Contact mailing address PO Box 250, Artesia NM 88211	

Location of Release Source

Latitude 32.9447594 Longitude -103.424675
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Townsend State 5	Site Type Oil
Date Release Discovered 9/13/2018	API# *(if applicable)* 30-025-34500

Unit Letter	Section	Township	Range	County
O	02	16S	35E	Lea

Surface Owner: ☐ State ■ Federal ☐ Tribal ☒ Private (*Name:* State Minerals)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

■ Crude Oil	Volume Released (bbls) 23BBLS	Volume Recovered (bbls) 15BBLS
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Heater treater over pressured. Repairs made. Approximately 15bbls of oil was recovered.

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Unit Letter	Section	Township	Range	County
O	02	16S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

State Minerals

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

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	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Heater treater over pressured. Repairs made. Approximately 15bbls of oil was recovered.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dana DeLaRosa
Title: Field Admin Support
Signature:
Date: 10.11.18
email: dana.delarosa@dvn.com
Telephone: 575.748.3371

OCD Only

Received by: RECEIVED By CHernandez at 9:10 am, Oct 16, 2018

Townsend State 5

23BBLS Oil_9.24.2018

devon

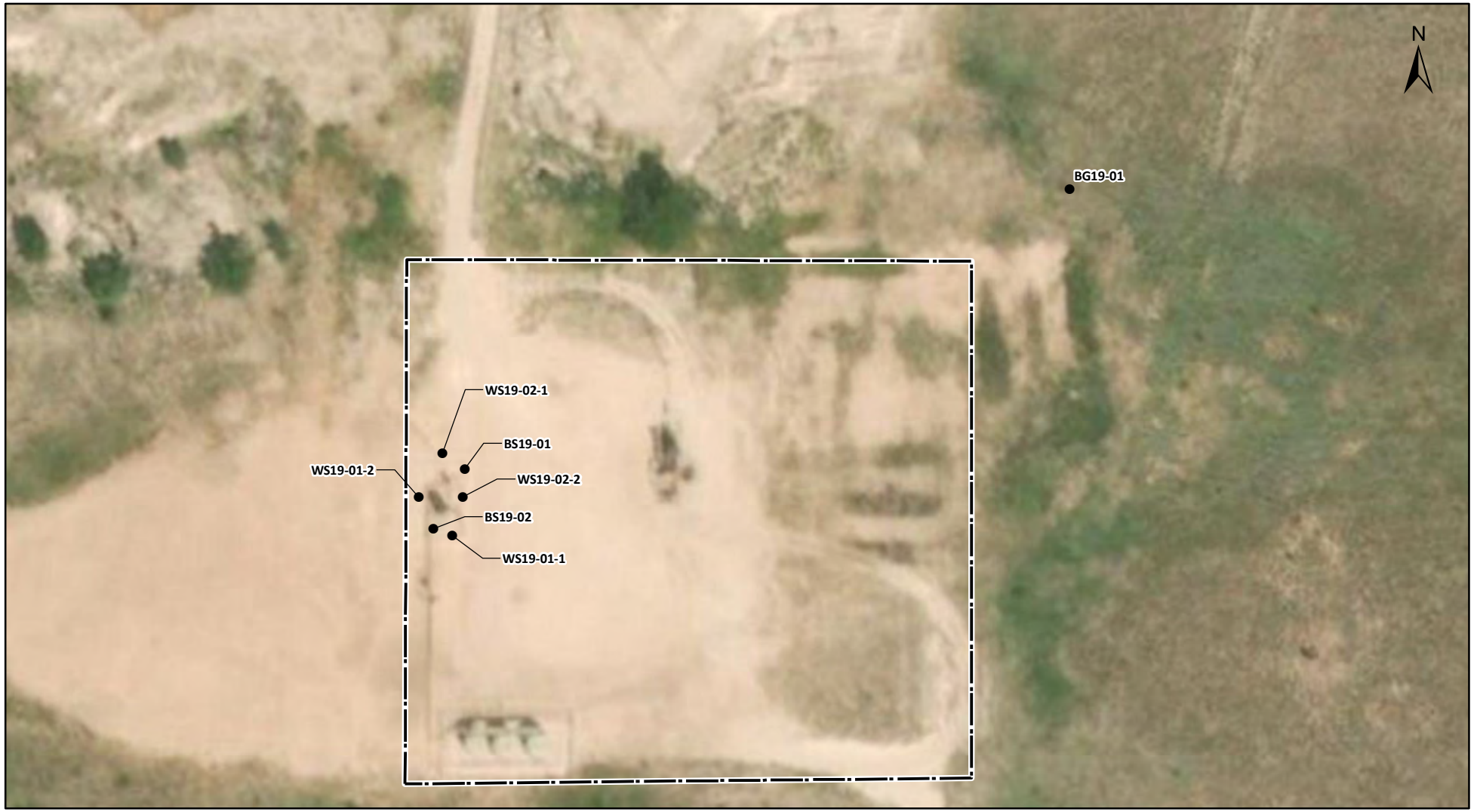
This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Dana DeLaRosa
Map is current as of: 26-Sep-2018

N

Miles
0 0.00 0.00 0.01 1:445

ATTACHMENT 2



LEGEND

- SOIL SAMPLE
- WELLPAD

BG BACKGROUND SAMPLE
BS BASE SAMPLE
WS WALL SAMPLE

0 30 60 120 Ft

SCALE 1:1,000

Notes: Aerial Image from ESRI Digital Globe 2018

devon

Site Schematic and Confirmatory Sample Locations Townsend State 5

VERTEX

DRAWN:	NM
APPROVED:	DW
DATE:	NOV 19/19

FIGURE: 1

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Table - Closure Criteria Worksheet			
Site Name: Townsend State #5			
Spill Coordinates:		X: 32.9447594	Y: -103.424675
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	**46**	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,306	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1,898	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	596	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**	897	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	66,731	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	>100	year
NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'	<50' 51-100' >100'

Column1
Critical
High
Medium
Low

Column1
Yes
No

<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 has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 00272 S2		L	LE	1	2	2	11	16S	35E	647434	3646054*	273	90	46	44
L 02755		L	LE		1	2	11	16S	35E	647134	3645949*	339	105	55	50
L 14098 POD1		L	LE	2	2	1	11	16S	35E	646856	3646038	462	140	53	87
L 03013		L	LE		2	4	02	16S	35E	647522	3646759*	560	123	70	53
L 03029		L	LE	1	3	3	01	16S	35E	647828	3646462*	601	120	65	55
L 03170		L	LE	1	1	1	12	16S	35E	647834	3646060*	609	105	48	57
L 02711		L	LE		2	1	11	16S	35E	646733	3645944*	616	105	51	54
L 00272		L	LE	1	2	1	11	16S	35E	646632	3646043*	665	80	60	20
L 02945		L	LE		2	3	02	16S	35E	646722	3646746*	721	110	65	45
L 00272 S		L	LE		3	2	11	16S	35E	647140	3645548*	726	96	60	36
L 03000		L	LE				02	16S	35E	646930	3646942*	753	105		
L 05904 S	R	L	LE			3	02	16S	35E	646528	3646540*	781	150	60	90
L 05904 S2	R	L	LE			3	02	16S	35E	646528	3646540*	781	120	60	60
L 03092		L	LE		1	3	01	16S	35E	647922	3646765*	830	120	65	55
L 02958		L	LE		4	1	11	16S	35E	646738	3645542*	890	101	45	56
L 03164		L	LE			3	01	16S	35E	648130	3646564*	920	120	65	55
L 02727		L	LE		3	3	02	16S	35E	646327	3646339*	935	107	60	47
L 10594		L	LE	3	3	1	01	16S	35E	647814	3647067*	975	136	40	96
L 00272 S3		L	LE	1	1	4	11	16S	35E	647044	3645245*	1041	90	45	45
L 02860		L	LE		1	3	02	16S	35E	646322	3646739*	1050	112	55	57
L 03214		L	LE		4	3	01	16S	35E	648331	3646370*	1076	120	50	70
L 05904 S3	R	L	LE			2	02	16S	35E	647316	3647355*	1092	132		
L 02578		L	LE	3	1	1	11	16S	35E	646231	3645837*	1113	105	60	45
L 10221		L	LE	3	1	1	11	16S	35E	646231	3645837*	1113	133	70	63
L 03263		L	LE		2	3	01	16S	35E	648324	3646772*	1179	120	50	70
L 02812		L	LE		2	3	11	16S	35E	646744	3645141*	1235	100	50	50

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

(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)

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03052		L	LE		2	3	11	16S	35E	646744	3645141*	1235	126	60	66
L 01851 POD2		L	LE			1	02	16S	35E	646519	3647340*	1306	100	65	35
L 00272 POD5		L	LE			4	11	16S	35E	647352	3644946*	1321	80	60	20
L 05904	R	L	LE			1	01	16S	35E	648116	3647369*	1397	150	70	80
L 02713		L	LE		2	4	03	16S	35E	645915	3646737*	1425	103	50	53
L 11247		L	LE	3	1	4	01	16S	35E	648624	3646678*	1425	158		
L 11297		L	LE	1	4	4	11	16S	35E	647452	3644849*	1428	150	48	102
L 03357		L	LE				01	16S	35E	648532	3646966*	1453	120	60	60
L 03420		L	LE				01	16S	35E	648532	3646966*	1453	120	60	60
L 11462		L	LE	3	2	4	03	16S	35E	645814	3646636*	1492	140	75	65
L 03663 POD2	R	L	LE	1	1	4	01	16S	35E	648624	3646878*	1496	164	60	104
L 01385		L	LE		1	2	12	16S	35E	648739	3645975*	1507	100	45	55
L 02456		L	LE			2	10	16S	35E	645726	3645731*	1623	105	60	45
L 10272		L	LE	4	2	1	01	16S	35E	648409	3647475*	1669	120	80	40
L 03309		L	LE			4	01	16S	35E	648933	3646578*	1702	120	60	60
L 07704		L	LE	4	4	2	12	16S	33E	645601	3645421	1860	210	135	75
L 09593		L	LE		4	3	12	16S	35E	648357	3644761*	1861	130		
L 00270		L	LE	1	1	1	13	16S	35E	647860	3644451*	1909	82		
L 00270 S		L	LE	2	1	1	13	16S	35E	648060	3644451*	1981	82		
L 02521		L	LE		4	4	10	16S	35E	645942	3644731*	2021	110	50	60
L 02799		L	LE				03	16S	35E	645305	3646931*	2065	103	65	38
L 03090		L	LE				03	16S	35E	645305	3646931*	2065	110	60	50
L 02649		L	LE	1	1	4	10	16S	35E	645430	3645228*	2102	122	60	62
L 02385		L	LE		4	3	03	16S	35E	645108	3646330*	2152	105	64	41
L 10158		L	LE		2	3	03	16S	35E	645102	3646732*	2207	128	40	88
L 07187		L	LE		3	3	06	16S	36E	649536	3646391*	2279	112	56	56
L 00270 S2		L	LE	1	3	1	13	16S	35E	647866	3644049*	2296	93	34	59
L 00960 POD1		L	LE			1	13	16S	35E	648168	3644151*	2300	65	44	21
L 02956		L	LE	3	4	1	03	16S	35E	644995	3647033*	2391	130	58	72

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POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 14252 POD1		L	LE	2	3	1	06	16S	36E	649500	3647248	2447	140	53	87
L 00608		L	LE	1	3	1	14	16S	35E	646258	3644029*	2449	80		
L 13987 POD1		L	LE	4	3	1	06	16S	36E	649592	3647028	2454	141	70	71
L 13724 POD1		L	LE	1	1	3	06	16S	36E	649440	3647426	2471	125	50	75
L 06206		L	LE			3	06	16S	36E	649737	3646592*	2499	70	50	20
L 10577		L	LE			3	06	16S	36E	649737	3646592*	2499	140	52	88
L 10628		L	LE			3	06	16S	36E	649737	3646592*	2499	100	55	45
L 11149		L	LE			3	06	16S	36E	649737	3646592*	2499	100	55	45
L 12324 POD1		L	LE	3	4	1	06	16S	36E	649595	3647173	2505	120	52	68
L 00153 POD3		L	LE		1	3	07	16S	36E	649556	3645184*	2537	120	60	60
L 08466		L	LE	1	4	3	06	16S	36E	649802	3646496*	2552	110	54	56
L 02548		L	LE		3	3	03	16S	35E	644702	3646328*	2558	100	60	40
L 01510 POD1		L	LE		1	1	10	16S	35E	644708	3645925*	2574	115	60	55
L 05706		L	LE	3	2	1	07	16S	36E	649808	3645894*	2575	74	60	14
L 05904 S4	R	L	LE			1	03	16S	35E	644891	3647333*	2598	136	60	76
L 07110		L	LE		4	3	06	16S	36E	649903	3646397*	2646	100	57	43
L 01878 POD1		L	LE	3	3	3	03	16S	35E	644601	3646227*	2658	110	56	54
L 06042		L	LE		3	3	33	15S	35E	647758	3648881*	2663	92	52	40
L 03104		L	LE			1	06	16S	36E	649718	3647396*	2706	125	65	60
L 07497		L	LE			1	06	16S	36E	649718	3647396*	2706	100	58	42
L 12942 POD1		L	LE	4	4	3	06	16S	36E	650018	3646347	2759	116	50	66
L 10243		L	LE	3	3	4	33	15S	35E	648462	3648794*	2801	120	69	51
L 10668		L	LE		1	3	13	16S	35E	647973	3643548*	2808	150	53	97
L 00153		L	LE			3	07	16S	36E	649765	3644983*	2813	104		
L 03344		L	LE		3	2	15	16S	35E	645548	3643922*	2900	120	60	60
L 00447		L	LE		2	3	13	16S	35E	648375	3643554*	2930	75		
L 03122		L	LE	4	2	3	32	15S	35E	646643	3649159*	2959	138	70	68
L 00275		L	LE	1	1	4	13	16S	35E	648677	3643659*	2965	126	86	40
L 01681 POD1		L	LE		3	3	10	16S	35E	644725	3644719*	2968	120		

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POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03697		L	LE				06	16S	36E	650139	3646994*	2970	118	60	58
L 03773		L	LE				06	16S	36E	650139	3646994*	2970	120	50	70
L 03862		L	LE				06	16S	36E	650139	3646994*	2970	95	40	55
L 09962		L	LE				06	16S	36E	650139	3646994*	2970	138	60	78
L 10024		L	LE				06	16S	36E	650139	3646994*	2970	138	60	78
L 14170 POD1		L	LE	1	3	4	06	16S	36E	650228	3646448	2974	145	70	75
L 00608 S		L	LE	3	1	3	14	16S	35E	646264	3643427*	3006	78		
L 13801 POD1		L	LE	1	1	4	06	16S	36E	650216	3646888	3021	168	60	108
L 07020		L	LE	1	4	4	14	16S	35E	647476	3643239*	3032	130	80	50
L 02386		L	LE		4	2	09	16S	35E	644310	3645520*	3041	114	60	54
L 03018		L	LE		1	3	33	15S	35E	647752	3649283*	3058	116	50	66
L 00275 POD2	R	L	LE	2	1	4	13	16S	35E	648877	3643659*	3066	128	46	82
L 00275 POD3		L	LE		1	4	13	16S	35E	648778	3643560*	3101	132	90	42
L 13370 POD1		L	LE		1	3	13	16S	35E	647777	3643150	3156	175		
L 00627		L	LE	4	2	4	31	15S	35E	645838	3649144*	3211	70	55	15
L 03243		L	LE		1	4	15	16S	35E	645554	3643520*	3230	120	50	70
L 14096 POD1		L	LE	3	2	4	31	15S	35E	645607	3649092	3275	171	50	121
L 00627 POD3		L	LE	1	1	3	32	15S	35E	646041	3649352*	3319	90	60	30
L 05557 S		L	LE	2	2	3	15	16S	35E	645248	3643615*	3326	80	51	29
L 00275 POD5		L	LE			4	13	16S	35E	648985	3643358*	3379	144	65	79
L 03343		L	LE		4	4	15	16S	35E	645965	3643121*	3399	120	60	60
L 01799 POD1		L	LE		1	4	04	16S	35E	643889	3646725*	3401	110	60	50
L 00196 POD9		L	LE			2	06	16S	36E	650492	3647411*	3429	102	56	46
L 10657		L	LE	2	1	2	06	16S	36E	650213	3648017	3434	146	60	86
L 00387		L	LE	1	1	2	23	16S	35E	647079	3642832*	3436	72		
L 00387	R	L	LE	1	1	2	23	16S	35E	647079	3642832*	3436	72		
L 01111 POD1		L	LE	4	4	3	13	16S	35E	648481	3643050*	3438	63	61	2
L 09764		L	LE	4	4	3	13	16S	35E	648481	3643050*	3438	122	50	72
L 10606		L	LE	3	4	2	07	16S	36E	650620	3645506*	3444	160	55	105

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POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 05557 S2		L	LE	1	2	3	15	16S	35E	645048	3643615*	3450	100	42	58
L 02957		L	LE		3	1	33	15S	35E	647745	3649686*	3456	120	65	55
L 14624 POD1		L	LE	4	4	4	06	16S	36E	650724	3646300	3464	161	61	100
L 08892		L	LE		2	3	15	16S	35E	645149	3643516*	3465	86	49	37
L 08454		L	LE	3	3	4	04	16S	35E	643793	3646221*	3466	115	62	53
L 02794		L	LE	1	1	2	09	16S	35E	643799	3646019*	3469	122	50	72
L 09817		L	LE		4	1	32	15S	35E	646538	3649663*	3474	130	65	65
L 00387 POD2		L	LE	1	1	1	24	16S	35E	647884	3642842*	3478	100	80	20
L 00387 POD3		L	LE	1	1	1	24	16S	35E	647884	3642842*	3478	127	60	67
L 02694		L	LE	1	1	1	24	16S	35E	647884	3642842*	3478	69	56	13
L 01690 POD1		L	LE	3	1	2	09	16S	35E	643799	3645819*	3489	115	50	65
L 00631		L	LE	3	3	4	13	16S	35E	648683	3643056*	3509	110	70	40
L 00631	R	L	LE	3	3	4	13	16S	35E	648683	3643056*	3509	110	70	40
L 00983 POD1		L	LE	3	3	4	13	16S	35E	648683	3643056*	3509	64		
L 00387 POD5	R	L	LE	2	1	1	24	16S	35E	648084	3642842*	3520	116	48	68
L 04154		L	LE	2	2	2	07	16S	36E	650813	3646109*	3556	102	65	37
L 07438		L	LE	3	3	2	04	16S	35E	643782	3647026*	3560	115	58	57
L 11266		L	LE	2	4	2	32	15S	35E	647352	3649825	3562	170		
L 00387 POD6		L	LE	1	2	1	24	16S	35E	648287	3642848*	3567	116		
L 00627 S		L	LE	2	1	4	31	15S	35E	645435	3649337*	3573			
L 13307 POD1		L	LE	2	2	2	07	16S	36E	650840	3646184	3581	140	77	63
L 05363		L	LE		1	1	24	16S	35E	647985	3642743*	3595	85	70	15
L 00631 S		L	LE	4	3	4	13	16S	35E	648883	3643056*	3595	144	85	59
L 02618		L	LE	1	1	4	09	16S	35E	643811	3645214*	3604	108	50	58
L 13218 POD4		L	LE	3	1	3	34	15S	35E	649314	3649240	3616	68		
L 14341 POD1		L	LE	2	2	4	06	16S	36E	650802	3647013	3621	180	60	120
L 14421 POD1		L	LE	4	2	4	06	16S	36E	650867	3646672	3630	158	60	98
L 00387 S2		L	LE	4	1	2	23	16S	35E	647279	3642632*	3632	65	40	25
L 00387 S		L	LE	3	1	2	23	16S	35E	647079	3642632*	3636	66		

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L 00387 POD4		L	LE	3	1	1	24	16S	35E	647884	3642642*	3675	81	48	33
L 13218 POD5		L	LE	3	1	3	34	15S	35E	649401	3649266	3687	70		
L 00153 POD2		L	LE	2	2	4	07	16S	36E	650827	3645304*	3694	80		
L 13218 POD1		L	LE	1	1	3	34	15S	35E	649278	3649385	3717	70		
L 03141		L	LE	2	3	3	31	15S	35E	644624	3648919*	3740	130	65	65
L 03058		L	LE		3	3	31	15S	35E	644525	3648820*	3743	85	71	14
L 03083		L	LE		3	3	31	15S	35E	644525	3648820*	3743	85	73	12
L 00967 POD1		L	LE	3	3	3	05	16S	36E	651009	3646319*	3749	75		
L 01319	R	L	LE	3	3	3	05	16S	36E	651009	3646319*	3749	103	65	38
L 02465	R	L	LE	3	3	3	05	16S	36E	651009	3646319*	3749	100	65	35
L 02465 POD2		L	LE	3	3	3	05	16S	36E	651009	3646319*	3749	145	120	25
L 02910		L	LE	3	3	3	05	16S	36E	651009	3646319*	3749	120	63	57
L 13218 POD2		L	LE	4	1	3	34	15S	35E	649441	3649314	3750	70		
L 03385		L	LE	1	3	3	05	16S	36E	651009	3646519*	3758	100	55	45
L 09346		L	LE	1	3	3	05	16S	36E	651009	3646519*	3758	126	70	56
L 00160		L	LE	1	1	1	08	16S	36E	651016	3646116*	3759	95	65	30
L 02270		L	LE		4	3	04	16S	35E	643490	3646319*	3769	85	58	27
L 09579		L	LE	3	1	3	05	16S	36E	651002	3646721*	3770	150	50	100
L 01856		L	LE	2	1	2	24	16S	35E	648889	3642854*	3779	100	65	35
L 13218 POD3		L	LE	2	1	3	34	15S	35E	649425	3649370	3786	72		
L 01033 POD1		L	LE	4	4	4	13	16S	35E	649286	3643062*	3789	70	50	20
L 09262		L	LE	1	1	3	05	16S	36E	651002	3646921*	3799	120	60	60
L 08616		L	LE		2	3	04	16S	35E	643484	3646722*	3803	120		
L 13218 POD6		L	LE	3	1	2	34	15S	35E	649507	3649343	3812	70		
L 12959 POD1		L	LE	2	3	1	24	16S	35E	648013	3642513	3825	140	47	93
L 00275 POD4		L	LE		1	2	24	16S	35E	648790	3642755*	3828	135	60	75
L 07508		L	LE		4	2	33	15S	35E	648953	3649708*	3837	95	61	34
L 00718 S		L	LE				18	16S	36E	650192	3643772*	3848	85	63	22
L 00097 POD2		L	LE		3	3	05	16S	36E	651110	3646420*	3853	75		

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POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 08852		L	LE		3	3	05	16S	36E	651110	3646420*	3853	110	70	40
L 01727		L	LE		1	1	33	15S	35E	647739	3650088*	3853	130	60	70
L 01727	R	L	LE		1	1	33	15S	35E	647739	3650088*	3853	130	60	70
L 12440 POD1		L	LE	1	3	1	08	16S	36E	651086	3645781	3856	150		
L 01423		L	LE		1	1	08	16S	36E	651117	3646017*	3865	90	60	30
L 05557 S3		L	LE	3	1	3	15	16S	35E	644642	3643411*	3871	80	46	34
L 09332		L	LE	1	3	1	05	16S	36E	650995	3647324*	3882	110	75	35
L 00097		L	LE		1	3	05	16S	36E	651103	3646822*	3883	76	65	11
L 06969		L	LE		1	3	05	16S	36E	651103	3646822*	3883	51	36	15
L 07430		L	LE		1	3	05	16S	36E	651103	3646822*	3883	100	60	40
L 00247		L	LE	1	1	3	08	16S	36E	651030	3645311*	3889	80		
L 00247	R	L	LE	1	1	3	08	16S	36E	651030	3645311*	3889	80		
L 05557		L	LE	2	3	3	15	16S	35E	644848	3643208*	3892	90	42	48
L 07470		L	LE	4	4	4	36	15S	34E	644222	3648712*	3901	100	54	46
L 01624 S2		L	LE	2	4	3	09	16S	35E	643613	3644809*	3926	152	56	96
L 09532		L	LE	3	1	1	05	16S	36E	650988	3647526*	3936	125	58	67
L 00092 S3		L	LE	3	1	1	05	16S	36E	650961	3647613	3939	156	50	106
L 00247 S		L	LE	3	1	3	08	16S	36E	651030	3645111*	3942	80		
L 00247 S	R	L	LE	3	1	3	08	16S	36E	651030	3645111*	3942	80		
L 02203		L	LE	4	3	3	05	16S	36E	651209	3646319*	3949	95	60	35
L 02809		L	LE	4	3	3	05	16S	36E	651209	3646319*	3949	100	64	36
L 01087		L	LE		2	2	18	16S	36E	650742	3644399*	3950	75		
L 00718		L	LE	2	1	1	08	16S	36E	651216	3646116*	3959			
L 01011 POD1		L	LE	2	1	1	08	16S	36E	651216	3646116*	3959	75		
L 00984 POD1		L	LE	2	2	2	24	16S	35E	649292	3642860*	3964	60		
L 00985 POD1		L	LE	2	2	2	24	16S	35E	649292	3642860*	3964	60		
L 11221		L	LE	2	1	1	33	15S	35E	647838	3650187*	3965	176		
L 13729 POD1		L	LE	4	1	2	33	15S	35E	648575	3650007	3967	65		
L 13173 POD2		L	LE			2	33	15S	35E	648524	3650040	3982	38		

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L 13173 POD1		L	LE			2	33	15S	35E	648540	3650040	3987	28		
L 02975		L	LE		4	4	36	15S	34E	644123	3648813*	4041	120	63	57
L 00092	R	L	LE		1	1	05	16S	36E	651089	3647627*	4064	73		
L 08478		L	LE		1	1	05	16S	36E	651089	3647627*	4064	107	68	39
L 00971 POD1		L	LE			3	05	16S	36E	651311	3646621*	4067	70		
L 01378		L	LE	3	3	3	08	16S	36E	651036	3644708*	4084	73	60	13
L 01581 POD1		L	LE	3	3	3	08	16S	36E	651036	3644708*	4084	89		
L 05218		L	LE	3	3	3	08	16S	36E	651036	3644708*	4084	120	90	30
L 06936		L	LE	2	2	1	16	16S	35E	643620	3644407*	4085	100	65	35
L 04010		L	LE	4	1	1	09	16S	35E	643191	3645813*	4093	100	72	28
L 01624 S		L	LE	2	3	1	09	16S	35E	643197	3645611*	4114	138	80	58
L 00247 POD5		L	LE		3	3	08	16S	36E	651137	3644809*	4141	110		
L 00247 POD5	R	L	LE		3	3	08	16S	36E	651137	3644809*	4141	110		
L 04939		L	LE		3	3	08	16S	36E	651137	3644809*	4141	100	75	25
L 09466		L	LE		3	3	08	16S	36E	651137	3644809*	4141	135	60	75
L 09913		L	LE		3	3	08	16S	36E	651137	3644809*	4141	140	60	80
L 08047		L	LE		4	2	22	16S	35E	645977	3642317*	4150	137	65	72
L 00209		L	LE	1	1	1	17	16S	36E	651043	3644505*	4172	171		
L 00209	R	L	LE	1	1	1	17	16S	36E	651043	3644505*	4172	171		
L 13768 POD1		L	LE	3	4	1	05	16S	36E	651368	3647064	4185	135	64	71
L 00057		L	LE	1	2	3	05	16S	36E	651406	3646929*	4199	80	70	10
L 00057	R	L	LE	1	2	3	05	16S	36E	651406	3646929*	4199	80	70	10
L 00057 POD3		L	LE	1	2	3	05	16S	36E	651406	3646929*	4199	110	51	59
L 01726		L	LE		2	2	33	15S	35E	648946	3650110*	4199	125	60	65
L 00055		L	LE			1	05	16S	36E	651297	3647426*	4201	60		
L 00055	R	L	LE			1	05	16S	36E	651297	3647426*	4201	60		
L 00092 POD6		L	LE			1	05	16S	36E	651297	3647426*	4201	90	60	30
L 11841		L	LE	1	1	1	17	16S	36E	651088	3644514	4209	116	65	51
L 07358		L	LE			4	34	15S	35E	650375	3649127*	4231	73	55	18

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(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 00442		L	LE	1	1	4	23	16S	35E	647091	3642028	4238	170	60	110
L 11251		L	LE	4	4	1	34	15S	35E	649857	3649622*	4245	155		
L 13176 POD1		L	LE	1	4	4	05	16S	36E	651509	3646347	4250	182	60	122
L 07313		L	LE		4	3	05	16S	36E	651514	3646428*	4257	108	65	43
L 04598		L	LE	1	2	4	18	16S	36E	650654	3643692*	4258	136	75	61
L 06934		L	LE	1	2	4	18	16S	36E	650654	3643692*	4258	118	68	50
L 06935		L	LE	1	2	4	18	16S	36E	650654	3643692*	4258	120	72	48
L 10587		L	LE			3	08	16S	36E	651338	3645010*	4266	150	58	92
L 10635		L	LE			3	08	16S	36E	651338	3645010*	4266	94	64	30
L 10880		L	LE			3	08	16S	36E	651338	3645010*	4266	150	70	80
L 09307	R	L	LE	4	3	3	08	16S	36E	651236	3644708*	4270	135	60	75
L 09307 POD2		L	LE	4	3	3	08	16S	36E	651236	3644708*	4270	123	70	53
L 03756		L	LE	3	3	3	04	16S	35E	642985	3646216*	4274	98	60	38
L 01624		L	LE	1	1	1	09	16S	35E	642991	3646013*	4275	154	55	99
L 02971		L	LE	2	4	1	16	16S	35E	643627	3644004*	4278	136	60	76
L 00057 S		L	LE		2	3	05	16S	36E	651507	3646830*	4284	85		
L 00057 S	R	L	LE		2	3	05	16S	36E	651507	3646830*	4284	85		
L 02056		L	LE		1	1	17	16S	36E	651144	3644406*	4305	130	60	70
L 03110		L	LE	4	4	3	05	16S	36E	651613	3646327*	4353	100	65	35
L 07182		L	LE	4	4	3	05	16S	36E	651613	3646327*	4353	138	68	70
L 00057 POD5		L	LE	4	2	3	05	16S	36E	651606	3646729*	4371	106	70	36
L 07514		L	LE	4	2	3	05	16S	36E	651606	3646729*	4371	115	56	59
L 13689 POD1		L	LE	2	4	1	05	16S	36E	651526	3647264	4381	135	63	72
L 07975		L	LE		1	3	24	16S	35E	647997	3641939*	4387	88	43	45
L 00057 POD4		L	LE	2	2	3	05	16S	36E	651606	3646929*	4396			
L 07887		L	LE	2	2	3	05	16S	36E	651606	3646929*	4396	142		
L 06132		L	LE		2	4	18	16S	36E	650755	3643593*	4399	98	70	28
L 10712		L	LE		2	4	18	16S	36E	650755	3643593*	4399	165	60	105
L 00268 POD4		L	LE	2	2	1	19	16S	36E	650063	3642872*	4400	100	62	38

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POD Number	Code	Sub-basin	County	Q64	Q16	Q4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 09562		L	LE	2	4	1	08	16S	36E	651627	3645721*	4401	100	70	30
L 00247 POD3		L	LE		2	3	08	16S	36E	651535	3645219*	4401	100	60	40
L 00247 POD3	R	L	LE		2	3	08	16S	36E	651535	3645219*	4401	100	60	40
L 00247 POD7		L	LE		2	3	08	16S	36E	651535	3645219*	4401	90	70	20
L 10103		L	LE		2	3	08	16S	36E	651535	3645219*	4401	123		
P 03010		P	RO	3	4	4	30	15S	35E	645619	3650352*	4404		82	
L 04895		L	LE		2	1	19	16S	36E	649964	3642773*	4416	100	80	20
L 10209		L	LE		2	1	19	16S	36E	649964	3642773*	4416	128	94	34
L 05021		L	LE	2	1	1	16	16S	35E	643216	3644404*	4450	172	65	107
L 01070		L	LE	3	4	3	08	16S	36E	651441	3644715*	4459	75	55	20
L 00209 S		L	LE	3	3	1	17	16S	36E	651050	3643902*	4466	100	60	40
L 07974		L	LE	3	1	3	24	16S	35E	647896	3641838*	4471	90	45	45
L 00247 POD6		L	LE	2	2	3	08	16S	36E	651634	3645318*	4475	90	75	15
L 03596		L	LE	2	2	3	08	16S	36E	651634	3645318*	4475	88	70	18
L 07445		L	LE	2	2	3	08	16S	36E	651634	3645318*	4475	100	68	32
L 00268		L	LE			1	19	16S	36E	649802	3642565*	4488	100		
L 00268	R	L	LE			1	19	16S	36E	649802	3642565*	4488	100		
L 00268 POD3		L	LE			1	19	16S	36E	649802	3642565*	4488	124	62	62
L 00268 POD7		L	LE			1	19	16S	36E	649802	3642565*	4488	100	65	35
L 12301 POD1		L	LE	3	3	3	35	15S	35E	650858	3648951	4491	123	54	69
L 00209 S2		L	LE		3	1	17	16S	36E	651151	3644003*	4500	173	68	105
L 00209 S2	R	L	LE		3	1	17	16S	36E	651151	3644003*	4500	173	68	105
L 13282 POD1		L	LE	4	3	3	35	15S	35E	650975	3648829	4515	211		
L 00055 POD3		L	LE				05	16S	36E	651713	3647023*	4517	78	67	11
L 00092 POD2		L	LE				05	16S	36E	651713	3647023*	4517	77	58	19
L 00092 POD2	R	L	LE				05	16S	36E	651713	3647023*	4517	77	58	19
L 00092 POD5	R	L	LE				05	16S	36E	651713	3647023*	4517	90	62	28
L 00092 S2		L	LE				05	16S	36E	651713	3647023*	4517	120	66	54
L 00092 S2	R	L	LE				05	16S	36E	651713	3647023*	4517	120	66	54

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POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 00141 POD2		L	LE				05	16S	36E	651713	3647023*	4517	156		
L 00684	R	L	LE				05	16S	36E	651713	3647023*	4517	97	57	40
L 00684 POD2	R	L	LE				05	16S	36E	651713	3647023*	4517	90	60	30
L 00684 POD3		L	LE				05	16S	36E	651713	3647023*	4517	152	136	16
L 00684 POD3	R	L	LE				05	16S	36E	651713	3647023*	4517	152	136	16
L 03268		L	LE				05	16S	36E	651713	3647023*	4517	92	60	32
L 03269		L	LE				05	16S	36E	651713	3647023*	4517	83	53	30
L 03270		L	LE				05	16S	36E	651713	3647023*	4517	90	60	30
L 03700		L	LE				05	16S	36E	651713	3647023*	4517	100		
L 03700	R	L	LE				05	16S	36E	651713	3647023*	4517	100		
L 03861		L	LE				05	16S	36E	651713	3647023*	4517	100	55	45
L 03911		L	LE				05	16S	36E	651713	3647023*	4517	85	65	20
L 04106		L	LE				05	16S	36E	651713	3647023*	4517	85	65	20
L 04653		L	LE				05	16S	36E	651713	3647023*	4517	88	60	28
L 04897		L	LE				05	16S	36E	651713	3647023*	4517	90	70	20
L 05186		L	LE				05	16S	36E	651713	3647023*	4517	100	64	36
L 05240		L	LE				05	16S	36E	651713	3647023*	4517	84	60	24
L 05798		L	LE				05	16S	36E	651713	3647023*	4517	125		
L 05798	R	L	LE				05	16S	36E	651713	3647023*	4517	125		
L 06095		L	LE				05	16S	36E	651713	3647023*	4517	93	65	28
L 06636		L	LE				05	16S	36E	651713	3647023*	4517	110	75	35
L 07748		L	LE				05	16S	36E	651713	3647023*	4517	102	65	37
L 07832		L	LE				05	16S	36E	651713	3647023*	4517	120	65	55
L 09876		L	LE				05	16S	36E	651713	3647023*	4517	160	60	100
L 10037		L	LE				05	16S	36E	651713	3647023*	4517	151	85	66
L 10603		L	LE				05	16S	36E	651713	3647023*	4517	158	60	98
L 13994 POD1		L	LE	4	3	4	18	16S	36E	650460	3643073	4518	137	63	74
L 07845		L	LE		4	3	08	16S	36E	651542	3644816*	4520	110	73	37
L 03236		L	LE	4	2	3	08	16S	36E	651634	3645118*	4522	96	55	41

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POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 11253		L	LE	4	2	3	08	16S	36E	651634	3645118*	4522	140	86	54
L 05011		L	LE	2	1	4	24	16S	35E	648901	3642049*	4523	96	46	50
L 05469		L	LE	4	2	4	34	15S	35E	650670	3649236*	4523	134	68	66
L 00150		L	LE	1	1	2	19	16S	36E	650265	3642879*	4526	125		
L 12223 POD1		L	LE	3	1	3	24	16S	35E	647796	3641751	4543	143		
L 01054		L	LE		3	1	19	16S	36E	649601	3642364*	4548	76	45	31
L 00268 POD5		L	LE	4	2	1	19	16S	36E	650063	3642672*	4556	100	58	42
L 04659		L	LE	3	3	4	05	16S	36E	651818	3646334*	4558	110	85	25
L 04651		L	LE				08	16S	36E	651740	3645412*	4560	97	85	12
L 00674		L	LE	1	3	3	35	15S	35E	650880	3649041*	4562	69	65	4
L 01074		L	LE	1	3	3	35	15S	35E	650880	3649041*	4562	79	45	34
L 00184	R	L	LE	1	1	2	08	16S	36E	651824	3646131*	4566	92	71	21
L 00184 POD2		L	LE	1	1	2	08	16S	36E	651824	3646131*	4566	109	68	41
L 00196 POD12		L	LE	1	1	2	08	16S	36E	651824	3646131*	4566	135	68	67
L 08189		L	LE	3	4	3	08	16S	36E	651535	3644633	4575	120	70	50
L 08189	R	L	LE	3	4	3	08	16S	36E	651535	3644633	4575	120	70	50
L 00240		L	LE	3	1	4	05	16S	36E	651811	3646737*	4575	82		
L 00240	R	L	LE	3	1	4	05	16S	36E	651811	3646737*	4575	82		
L 01401		L	LE	3	1	4	05	16S	36E	651811	3646737*	4575	96	70	26
L 04176		L	LE	3	1	2	08	16S	36E	651824	3645931*	4576	105	82	23
L 10674		L	LE		3	3	35	15S	35E	650981	3648942*	4584	115		
L 00053		L	LE	1	1	4	05	16S	36E	651811	3646937*	4600	86		
L 00053	R	L	LE	1	1	4	05	16S	36E	651811	3646937*	4600	86		
L 07632		L	LE	1	1	4	05	16S	36E	651811	3646937*	4600	116	58	58
L 00196		L	LE	1	3	2	08	16S	36E	651831	3645728*	4602	158		
L 00196	R	L	LE	1	3	2	08	16S	36E	651831	3645728*	4602	158		
L 00196 POD8		L	LE	1	3	2	08	16S	36E	651831	3645728*	4602	110	66	44
L 00196 S2		L	LE	1	3	2	08	16S	36E	651831	3645728*	4602	103	75	28
L 10381		L	LE		3	4	30	15S	35E	645317	3650445*	4610	175	60	115

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POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 08113 POD2		L	LE		3	2	08	16S	36E	651825	3645540	4622	155		
L 13746 POD1		L	LE	3	4	4	18	16S	36E	650553	3643011	4629	123	60	63
L 07510		L	LE	3	3	2	08	16S	36E	651831	3645528*	4630	120	70	50
L 08113	R	L	LE	3	3	2	08	16S	36E	651831	3645528*	4630	104	61	43
L 08208		L	LE	3	3	2	08	16S	36E	651831	3645528*	4630	100		
L 14659 POD1		L	LE	2	4	1	19	16S	36E	650072	3642584	4630	165	130	35
L 00442 POD2		L	LE	1	3	4	23	16S	35E	647098	3641625*	4641	70	50	20
L 01457		L	LE	4	4	3	08	16S	36E	651641	3644715*	4647	85	60	25
L 03298		L	LE	4	4	3	08	16S	36E	651641	3644715*	4647	90	65	25
L 03373		L	LE	4	4	3	08	16S	36E	651641	3644715*	4647	97	72	25
L 05380		L	LE	4	4	3	08	16S	36E	651641	3644715*	4647	100	64	36
L 13145 POD1		L	LE	3	1	4	08	16S	36E	651747	3645049	4648	111	67	44
L 10120		L	LE	3	4	2	34	15S	35E	650464	3649638*	4653	126	54	72
L 00442 S2		L	LE	2	4	4	23	16S	35E	647700	3641630*	4654	120	65	55
L 06982		L	LE		4	4	18	16S	36E	650762	3643190*	4660	120	72	48
L 00150 POD4		L	LE		1	2	19	16S	36E	650366	3642780*	4667	95		
L 08926		L	LE	1	3	2	05	16S	36E	651804	3647339*	4669	125	72	53
L 00196 POD14		L	LE		1	2	08	16S	36E	651925	3646032*	4671	100	65	35
L 08296		L	LE		1	2	08	16S	36E	651925	3646032*	4671	150	70	80
L 07063		L	LE	2	4	4	18	16S	36E	650861	3643289*	4671	120	80	40
L 08464		L	LE	1	3	3	24	16S	35E	647903	3641636*	4672	104	48	56
L 00340	R	L	LE	1	1	4	08	16S	36E	651838	3645326*	4673	87		
L 00150 S		L	LE	3	1	2	19	16S	36E	650265	3642679*	4678	80		
L 06716		L	LE			4	28	15S	35E	648738	3650707*	4682	90	55	35
L 07709		L	LE		1	4	05	16S	36E	651912	3646838*	4687	97	64	33
L 02567		L	LE	3	2	2	08	16S	35E	642590	3645809*	4691	105	55	50
L 09306		L	LE	4	1	4	24	16S	35E	648901	3641849*	4710	120	51	69
L 13984 POD1		L	LE	4	4	3	08	16S	36E	651706	3644697	4713	131	70	61
L 09733		L	LE		3	2	08	16S	36E	651932	3645629*	4715	120	78	42

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L 02914		L	LE	3	4	3	36	15S	34E	643217	3648696*	4717	125		
L 00268 POD6		L	LE	2	4	1	19	16S	36E	650069	3642469*	4721	116	58	58
L 02783		L	LE	2	4	1	19	16S	36E	650069	3642469*	4721	80	50	30
L 02926		L	LE	1	1	4	36	15S	34E	643614	3649306*	4747	105	70	35
L 14259 POD1		L	LE	4	3	2	08	16S	36E	651967	3645581	4756	150	70	80
L 00340 POD5		L	LE	3	4	4	08	16S	36E	651736	3644649	4758	155	30	125
L 08676		L	LE	4	3	4	05	16S	36E	652018	3646334*	4758	127	70	57
L 11204		L	LE	4	3	4	05	16S	36E	652018	3646334*	4758	100	62	38
L 08312		L	LE		2	2	05	16S	35E	642667	3647519*	4760	132	60	72
L 09784		L	LE	2	1	2	08	16S	36E	652024	3646131*	4766	100	65	35
L 08028		L	LE		3	3	24	16S	35E	648004	3641537*	4785	88	44	44
L 10911		L	LE		3	3	24	16S	35E	648004	3641537*	4785	120	53	67
L 00053 POD5		L	LE	2	1	4	05	16S	36E	652011	3646937*	4798	120	65	55
L 00053 S		L	LE	2	1	4	05	16S	36E	652011	3646937*	4798	84	58	26
L 00053 S	R	L	LE	2	1	4	05	16S	36E	652011	3646937*	4798	84	58	26
L 06963		L	LE	4	4	4	18	16S	36E	650861	3643089*	4801	120	80	40
L 00209 POD4		L	LE	4	2	1	17	16S	36E	651647	3644312*	4802	126	80	46
L 00110 POD4	R	L	LE	1	1	3	35	15S	35E	650874	3649443*	4813	110	55	55
L 02918		L	LE	2	2	2	17	16S	35E	642815	3644399*	4820	105	105	0
L 08491		L	LE		3	3	23	16S	35E	646393	3641517*	4825	100		
L 05909		L	LE	4	3	2	08	16S	36E	652031	3645528*	4827	96	81	15
L 05910		L	LE	4	3	2	08	16S	36E	652031	3645528*	4827	93	70	23
L 05964		L	LE	4	3	2	08	16S	36E	652031	3645528*	4827	93	70	23
L 07587		L	LE	4	3	2	08	16S	36E	652031	3645528*	4827	110	72	38
L 07963		L	LE	4	3	2	08	16S	36E	652031	3645528*	4827			
L 00340 POD4	R	L	LE	3	3	4	08	16S	36E	651845	3644723*	4837	100	62	38
L 00340 S		L	LE	3	3	4	08	16S	36E	651845	3644723*	4837	80	56	24
L 07444		L	LE	1	3	2	19	16S	36E	650271	3642476*	4839	178	120	58
L 08665		L	LE		1	2	05	16S	36E	651899	3647643*	4840	127	70	57

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

(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)

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 09387		L	LE		1	2	05	16S	36E	651899	3647643*	4840	125	70	55
L 00442 S		L	LE	3	4	4	23	16S	35E	647500	3641430*	4840	87	40	47
L 05497		L	LE			4	24	16S	35E	649009	3641748*	4843	142	130	12
L 13299 POD1		L	LE	3	3	1	35	15S	35E	650815	3649579	4861	160	70	90
L 10372		L	LE			3	35	15S	35E	651182	3649143*	4865	100	55	45
L 13146 POD1		L	LE	2	1	4	05	16S	36E	652064	3647038	4866	200	62	138
L 14512 POD1		L	LE	1	3	4	08	16S	36E	651933	3644877	4874	158	61	97
L 00052		L	LE			4	05	16S	36E	652120	3646636*	4874	74		
L 04884		L	LE			4	05	16S	36E	652120	3646636*	4874	95	66	29
L 04902		L	LE			4	05	16S	36E	652120	3646636*	4874	110	65	45
L 04903		L	LE			4	05	16S	36E	652120	3646636*	4874	100	80	20
L 05520		L	LE			4	05	16S	36E	652120	3646636*	4874	100	80	20
L 05962		L	LE			4	05	16S	36E	652120	3646636*	4874	125	70	55
L 06590		L	LE			4	05	16S	36E	652120	3646636*	4874	100	65	35
L 06804		L	LE			4	05	16S	36E	652120	3646636*	4874	74	60	14
L 08218		L	LE			4	05	16S	36E	652120	3646636*	4874	120	68	52
L 08274		L	LE			4	05	16S	36E	652120	3646636*	4874	120	68	52
L 08705		L	LE			4	05	16S	36E	652120	3646636*	4874	102	65	37
L 10244		L	LE			4	05	16S	36E	652120	3646636*	4874	120	67	53
L 11023		L	LE			4	05	16S	36E	652120	3646636*	4874	80	60	20
L 10441		L	LE	1	4	3	35	15S	35E	651283	3649048*	4892	100	55	45
L 00196 POD6	R	L	LE			2	08	16S	36E	652133	3645830*	4892	140	75	65
L 10255		L	LE			2	08	16S	36E	652133	3645830*	4892	150	70	80
L 07067		L	LE	4	3	3	24	16S	35E	648103	3641436*	4901	100	34	66
L 09370		L	LE	4	1	2	05	16S	36E	651998	3647542*	4907	120	70	50
L 09433		L	LE	4	1	2	05	16S	36E	651998	3647542*	4907	140	75	65
L 00209 POD8		L	LE	1	1	2	17	16S	36E	651851	3644520*	4911	110	72	38
L 07757		L	LE	1	1	2	17	16S	36E	651851	3644520*	4911	120		
L 00110	R	L	LE		4	3	35	15S	35E	651384	3648949*	4921	82	70	12

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 00110 POD6		L	LE		4	3	35	15S	35E	651384	3648949*	4921	132	70	62
L 08143		L	LE		4	3	35	15S	35E	651384	3648949*	4921	130	52	78
L 12023 POD1		L	LE	4	1	4	08	16S	36E	652050	3645134	4921	110	60	50
L 10413	R	L	LE				05	16S	36E	652162	3646881	4940	110	76	34
L 10413 POD2		L	LE				05	16S	36E	652162	3646881	4940	194		
L 00110 S		L	LE	3	3	1	35	15S	35E	650867	3649646*	4944	100		
L 00110 S	R	L	LE	3	3	1	35	15S	35E	650867	3649646*	4944	100		
L 08849		L	LE	4	4	3	35	15S	35E	651483	3648848*	4951	114	61	53
L 10796		L	LE	4	3	1	28	15S	35E	647819	3651195*	4962	180	70	110
L 05835		L	LE	3	4	4	05	16S	36E	652222	3646342*	4963	96	72	24
L 09529		L	LE	2	1	2	05	16S	36E	651998	3647742*	4963	135	65	70
L 09669		L	LE	2	1	2	05	16S	36E	651998	3647742*	4963	170	80	90
L 12516 POD1		L	LE	3	1	2	05	16S	36E	651794	3648297	4969	217	70	147
L 00240 S		L	LE	3	2	4	05	16S	36E	652216	3646744*	4979	97		
L 00240 S	R	L	LE	3	2	4	05	16S	36E	652216	3646744*	4979	97		
L 03212		L	LE	3	2	4	05	16S	36E	652216	3646744*	4979	95	65	30
L 07500		L	LE	3	2	4	05	16S	36E	652216	3646744*	4979	116	0	116
L 02921		L	LE		1	2	08	16S	35E	642291	3645905*	4981	102	60	42
L 00055 S		L	LE			2	05	16S	36E	652106	3647441*	4987	84	63	21
L 00092 S		L	LE			2	05	16S	36E	652106	3647441*	4987	100		
L 00092 S	R	L	LE			2	05	16S	36E	652106	3647441*	4987	100		
L 00970 POD1		L	LE			2	05	16S	36E	652106	3647441*	4987	70		
L 08707		L	LE			2	05	16S	36E	652106	3647441*	4987	130	65	65
L 08847		L	LE			2	05	16S	36E	652106	3647441*	4987	120	81	39
L 08872		L	LE			2	05	16S	36E	652106	3647441*	4987	130	60	70
L 12275 POD1		L	LE	3	1	2	05	16S	36E	651730	3648478	4988	215		

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

Average Depth to Water: **63 feet**

Minimum Depth: **0 feet**

Maximum Depth: **136 feet**

Record Count: 458

UTMNAD83 Radius Search (in meters):

Easting (X): 647259.57 **Northing (Y):** 3646264.1 **Radius:** 5000

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q q q 6416 4	Sec	Tws	Rng	X	Y	Distance
L 00272	L	IRR	75	AL SAVISKY	LE	L 00272 S2				Shallow	1 2 2	11	16S	35E	647434	3646054*	273
L 00272 A	L	IRR	146.1	JAN CARLISLE	LE	L 00272 S2				Shallow	1 2 2	11	16S	35E	647434	3646054*	273
L 00272 B	L	IRR	68.1	GEORGE A. NICHOLS	LE	L 00272 S2				Shallow	1 2 2	11	16S	35E	647434	3646054*	273
L 00272 C	L	IRR	236.1	LOBO WATER RESOURCES, LLC	LE	L 00272 S2				Shallow	1 2 2	11	16S	35E	647434	3646054*	273
L 02755	L	PRO	0	J C CRAIN DRILLING COMPANY	LE	L 02755				Shallow	1 2	11	16S	35E	647134	3645949*	339
L 02070	L	DOM	3	R E HILBURN	LE	L 02070					4 4 4	02	16S	35E	647627	3646256*	367
L 14098	L	DOM	1	COLTON DERRICK	LE	L 14098 POD1			NON	Shallow	2 2 1	11	16S	35E	646855	3646038	462
L 14690	L	DOM	1	ALTO MESA PARTNERS LLC	LE	L 14690 POD1	2226B				4 2 2	11	16S	35E	647547	3645833	518
L 03013	L	PRO	0	SHELL OIL COMPANY	LE	L 03013				Shallow	2 4	02	16S	35E	647522	3646759*	560
L 03029	L	PRO	0	A W THOMPSON DRILLING COMPANY	LE	L 03029				Shallow	1 3 3	01	16S	35E	647828	3646462*	601
L 03170	L	PRO	0	LEE DRILLING COMPANY	LE	L 03170				Shallow	1 1 1	12	16S	35E	647834	3646060*	609
L 02711	L	PRO	0	SHELL OIL COMPANY	LE	L 02711				Shallow	2 1	11	16S	35E	646733	3645944*	616
L 00272	L	IRR	75	AL SAVISKY	LE	L 00272				Shallow	1 2 1	11	16S	35E	646632	3646043*	665
L 00272 A	L	IRR	146.1	JERRY CARLISLE	LE	L 00272				Shallow	1 2 1	11	16S	35E	646632	3646043*	665
L 00272 B	L	IRR	68.1	GEORGE A. NICHOLS	LE	L 00272				Shallow	1 2 1	11	16S	35E	646632	3646043*	665
L 00272 C	L	IRR	236.1	LOBO WATER RESOURCES, LLC	LE	L 00272				Shallow	1 2 1	11	16S	35E	646632	3646043*	665
L 02945	L	PRO	0	SHELL OIL COMPANY	LE	L 02945				Shallow	2 3	02	16S	35E	646722	3646746*	721
L 00272	L	IRR	75	AL SAVISKY	LE	L 00272 S				Shallow	3 2	11	16S	35E	647140	3645548*	726

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(acre ft per annum)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 00272 A	L	IRR	146.1	JERRY CARLISLE	LE	L 00272 S				Shallow	3	2	11	16S	35E	647140	3645548*	726
L 00272 B	L	IRR	68.1	GEORGE A. NICHOLS	LE	L 00272 S				Shallow	3	2	11	16S	35E	647140	3645548*	726
L 00272 C	L	IRR	236.1	LOBO WATER RESOURCES, LLC	LE	L 00272 S				Shallow	3	2	11	16S	35E	647140	3645548*	726
L 01851	L	IRR	267.3	DAISY CLAYTON	LE	L 01851 POD1			R				02	16S	35E	646930	3646942*	753
L 03000	L	PRO	0	CORBERT DRILLING COMPANY	LE	L 03000				Shallow			02	16S	35E	646930	3646942*	753
L 04278	L	IRR	0	R E HILBURN	LE	L 04278							02	16S	35E	646930	3646942*	753
L 05308	L	IRR	0	R.E. HILBURN	LE	L 05308							02	16S	35E	646930	3646942*	753
					LE	L 05308 X							02	16S	35E	646930	3646942*	753
					LE	L 05308 X4							02	16S	35E	646930	3646942*	753
L 05904	L	COM	1212.42	LOBO WATER RESOURCES LLC	LE	L 05904 S			R	Shallow		3	02	16S	35E	646528	3646540*	781
					LE	L 05904 S2			R	Shallow		3	02	16S	35E	646528	3646540*	781
L 01850	L	IRR	0	R.E. HILBURN	LE	L 01850					1	3	01	16S	35E	647922	3646765*	830
L 03092	L	PRO	0	A W THOMPSON INC.	LE	L 03092				Shallow	1	3	01	16S	35E	647922	3646765*	830
L 02958	L	PRO	0	CORBETT DRILLING COMPANY	LE	L 02958				Shallow	4	1	11	16S	35E	646738	3645542*	890
L 03164	L	PRO	0	A.W. THOMPSON INC.	LE	L 03164				Shallow		3	01	16S	35E	648130	3646564*	920
L 02727	L	PRO	0	SHELL OIL COMPANY	LE	L 02727				Shallow	3	3	02	16S	35E	646327	3646339*	935
L 10594	L	PRO	0	CHARLES B. GILLESPIE, JR.	LE	L 10594				Shallow	3	3	1	01	16S	35E	647814	3647067*	975
L 00272	L	IRR	75	AL SAVISKY	LE	L 00272 S3				Shallow	1	1	4	11	16S	35E	647044	3645245*	1041
L 00272 A	L	IRR	146.1	JERRY CARLISLE	LE	L 00272 S3				Shallow	1	1	4	11	16S	35E	647044	3645245*	1041
L 00272 B	L	IRR	68.1	GEORGE A. NICHOLS	LE	L 00272 S3				Shallow	1	1	4	11	16S	35E	647044	3645245*	1041
L 00272 C	L	IRR	236.1	LOBO WATER RESOURCES, LLC	LE	L 00272 S3				Shallow	1	1	4	11	16S	35E	647044	3645245*	1041
L 10787	L	PRO	0	UMC PETROLEUM	LE	L 00272 S3				Shallow	1	1	4	11	16S	35E	647044	3645245*	1041

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(acre ft per annum)

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(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 10813	L	PRO	0	DAVID H. ARRINGTON OIL & GAS CO.	LE	L 00272 S3				Shallow	1 1	4	11	16S	35E	647044	3645245*	1041
L 02860	L	PRO	0	SHELL OIL COMPANY	LE	L 02860				Shallow	1	3	02	16S	35E	646322	3646739*	1050
L 03214	L	PRO	0	A.W. THOMPSON INC.	LE	L 03214				Shallow	4	3	01	16S	35E	648331	3646370*	1076
L 05904	L	COM	1212.42	LOBO WATER RESOURCES LLC	LE	L 05904 S3			R	Shallow		2	02	16S	35E	647316	3647355*	1092
L 02578	L	PRO	0	LIVERMORE DRILLING CO	LE	L 02578				Shallow	3 1	1	11	16S	35E	646231	3645837*	1113
L 10221	L	DOM	3	GEORGE NICHOLS	LE	L 10221				Shallow	3 1	1	11	16S	35E	646231	3645837*	1113
L 03263	L	PRO	0	A.W. THOMPSON INC.	LE	L 03263				Shallow	2	3	01	16S	35E	648324	3646772*	1179
L 02812	L	PRO	0	GORBETT DRILLING COMPANY	LE	L 02812				Shallow	2	3	11	16S	35E	646744	3645141*	1235
L 03052	L	PRO	0	MAKIN DRILLING COMPANY	LE	L 03052				Shallow	2	3	11	16S	35E	646744	3645141*	1235
L 01851	L	IRR	267.3	DAISY CLAYTON	LE	L 01851 POD2				Shallow		1	02	16S	35E	646519	3647340*	1306
L 00272 A	L	IRR	146.1	JERRY CARLISLE	LE	L 00272 POD5				Shallow		4	11	16S	35E	647352	3644946*	1321
L 09648	L	DOM	0	LARRY MEGERT	LE	L 09648						4	11	16S	35E	647352	3644946*	1321
L 05904	L	COM	1212.42	LOBO WATER RESOURCES LLC	LE	L 05904			R	Shallow		1	01	16S	35E	648116	3647369*	1397
L 02713	L	PRO	0	SHELL OIL COMPANY	LE	L 02713				Shallow	2	4	03	16S	35E	645915	3646737*	1425
L 11247	L	DOM	3	BLAKE OLIVER	LE	L 11247				Shallow	3 1	4	01	16S	35E	648624	3646678*	1425
L 11297	L	PRO	0	YATES PETROLEUM	LE	L 11297				Shallow	1 4	4	11	16S	35E	647452	3644849*	1428
L 01849	L	IRR	0	R.E. HILBURN	LE	L 01849							01	16S	35E	648532	3646966*	1453
L 03357	L	PRO	0	A W THOMPSON INC	LE	L 03357				Shallow			01	16S	35E	648532	3646966*	1453
L 03420	L	PRO	0	CACTUS DRILLING COMPANY	LE	L 03420				Shallow			01	16S	35E	648532	3646966*	1453
L 04277	L	IRR	0	R E HILBURN	LE	L 04277							01	16S	35E	648532	3646966*	1453
L 05308	L	IRR	0	R.E. HILBURN	LE	L 05308 X5							01	16S	35E	648532	3646966*	1453
					LE	L 05308 X6							01	16S	35E	648532	3646966*	1453

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(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 11462	L	DOL	3	ALONSO ONTINEROS	LE	L 11462				Shallow	3 2	4	03	16S	35E	645814	3646636*	1492
L 03663	L	DOM	3	LEA COUNTY AIRPORT	LE	L 03663 POD2			R	Shallow	1 1	4	01	16S	35E	648624	3646878*	1496
L 00153	L	IRR	527.13	JERRY CARLISLE	LE	L 01385				Shallow	1 2		12	16S	35E	648739	3645975*	1507
L 01385	L	STK	3	JERRY CARLISLE	LE	L 01385				Shallow	1 2		12	16S	35E	648739	3645975*	1507
L 03663	L	DOM	3	LEA COUNTY AIRPORT	LE	L 03663			R		1	4	01	16S	35E	648725	3646779*	1553
					LE	L 03663 POD3					1	4	01	16S	35E	648725	3646779*	1553
L 02456	L	PRO	0	BRANTLY DRILLING CO	LE	L 02456				Shallow		2	10	16S	35E	645726	3645731*	1623
L 10272	L	PRO	0	CHARLES B. GILLESPIE, JR.	LE	L 10272				Shallow	4 2	1	01	16S	35E	648409	3647475*	1669
L 03309	L	PRO	0	A W THOMPSON INC	LE	L 03309				Shallow		4	01	16S	35E	648933	3646578*	1702
L 05573	L	DOM	3	JAMES R MANNING	LE	L 05573						4	01	16S	35E	648933	3646578*	1702
L 06508	L	DOM	3	JOHN ETCHVERRY	LE	L 06508						4	01	16S	35E	648933	3646578*	1702
L 07704	L	PRO	0	MEWBOURNE OIL COMPANY	LE	L 07704				Shallow	4 4	2	12	16S	33E	645601	3645421	1860
L 12077	L	PRO	0	YATES PETROLEUM	LE	L 07704				Shallow	4 4	2	12	16S	33E	645601	3645421	1860
L 09593	L	PRO	0	TXO PRODUCING	LE	L 09593				Shallow		4 3	12	16S	35E	648357	3644761*	1861
L 00270	L	IRR	158.4	AL SAVISKY	LE	L 00270				Shallow	1 1	1	13	16S	35E	647860	3644451*	1909
L 00270 A	L	IRR	358.2	LOBO WATER RESOURCES, LLC	LE	L 00270				Shallow	1 1	1	13	16S	35E	647860	3644451*	1909
L 13474	L	PRO	0	TIMBER SHARP DRILLING CO.	LE	L 00270				Shallow	1 1	1	13	16S	35E	647860	3644451*	1909
L 13475	L	PRO	0	PERMIAN RESOURCES	LE	L 00270				Shallow	1 1	1	13	16S	35E	647860	3644451*	1909
L 13476	L	PRO	0	CHESAPEAKE OPERATING INC.	LE	L 00270				Shallow	1 1	1	13	16S	35E	647860	3644451*	1909
L 00270	L	IRR	158.4	AL SAVISKY	LE	L 00270 S				Shallow	2 1	1	13	16S	35E	648060	3644451*	1981
L 00270 A	L	IRR	358.2	LOBO WATER RESOURCES, LLC	LE	L 00270 S				Shallow	2 1	1	13	16S	35E	648060	3644451*	1981
L 02521	L	PRO	0	GARDENER BROTHERS DRILLLING CO	LE	L 02521				Shallow		4 4	10	16S	35E	645942	3644731*	2021

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(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 01848	L	IRR	0	R.E. HILBURN	LE	L 01848							03	16S	35E	645305	3646931*	2065
L 02799	L	PRO	0	OLSEN DRILLING COMPANY	LE	L 02799				Shallow			03	16S	35E	645305	3646931*	2065
L 03090	L	PRO	0	OIL STATE DRILLING COMPANY	LE	L 03090				Shallow			03	16S	35E	645305	3646931*	2065
L 04279	L	IRR	0	R E HILBURN	LE	L 04279							03	16S	35E	645305	3646931*	2065
L 05308	L	IRR	0	R.E. HILBURN	LE	L 05308 X2							03	16S	35E	645305	3646931*	2065
					LE	L 05308 X3							03	16S	35E	645305	3646931*	2065
L 02649	L	PRO	0	SUPERIOR OIL COMPANY	LE	L 02649				Shallow	1	1 4	10	16S	35E	645430	3645228*	2102
L 02385	L	PRO	0	DRILLING EXPLORATION COMPANY	LE	L 02385				Shallow		4 3	03	16S	35E	645108	3646330*	2152
L 10158	L	PRO	0	BRIDGE OIL COMPANY	LE	L 10158				Shallow		2 3	03	16S	35E	645102	3646732*	2207
L 10752	L	PRO	0	GILLESPIE OIL COMPANY	LE	L 10752					1	1 3	06	16S	36E	649425	3646892*	2254
L 07187	L	DOM	3	LARRY WHITE	LE	L 07187				Shallow		3 3	06	16S	36E	649536	3646391*	2279
L 00270	L	IRR	158.4	AL SAVISKY	LE	L 00270 S2				Shallow	1	3 1	13	16S	35E	647866	3644049*	2296
L 00270 A	L	IRR	358.2	LOBO WATER RESOURCES, LLC	LE	L 00270 S2				Shallow	1	3 1	13	16S	35E	647866	3644049*	2296
L 00960	L	DOM	3	C.E. HILBURN	LE	L 00960 POD1				Shallow		1	13	16S	35E	648168	3644151*	2300
L 14581	L	DOM	1	EDMUNDO PALLARES	LE	L 14581 POD1	22194				1	1 3	06	16S	36E	649382	3647156	2302
L 10705	L	PRO	0	CHARLES B. GILLESPIE, JR.	LE	L 10705						1 3	06	16S	36E	649526	3646793*	2327
L 02956	L	PRO	0	GULF OIL CORPORATION	LE	L 02956				Shallow	3	4 1	03	16S	35E	644995	3647033*	2391
L 03431	L	DOM	3	C E HILBURN	LE	L 03431						3 1	13	16S	35E	647967	3643950*	2419
L 14252	L	DOL	3	MARIA D MARTINEZ	LE	L 14252 POD1			NON	Shallow	2	3 1	06	16S	36E	649500	3647248	2447
L 00608	L	IRR	368.4	JERRY CARLISLE	LE	L 00608				Shallow	1	3 1	14	16S	35E	646258	3644029*	2449
L 13987	L	DOM	1	JESUS J VILLALOBOS	LE	L 13987 POD1			NON	Shallow	4	3 1	06	16S	36E	649591	3647028	2454
L 13724	L	DOL	3	DOMINGO L PANDO JR	LE	L 13724 POD1				Shallow	1	1 3	06	16S	36E	649440	3647426	2471

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 06206	L	DOM	3	CLARENCE EUGENE LUCE	LE	L 06206				Shallow		3		06	16S	36E	649737	3646592*	2499
L 10577	L	DOM	0	ORBIT ENTERPRISES, INC.	LE	L 10577				Shallow		3		06	16S	36E	649737	3646592*	2499
L 10628	L	DOM	3	MARSHA R. LITTLE	LE	L 10628				Shallow		3		06	16S	36E	649737	3646592*	2499
L 11149	L	DOM	3	CARRELL W. BELLAH	LE	L 11149				Shallow		3		06	16S	36E	649737	3646592*	2499
L 12324	L	DOL	3	FELIX PINA	LE	L 12324 POD1				Shallow	3	4	1	06	16S	36E	649594	3647173	2505
L 00153	L	IRR	527.13	JERRY CARLISLE	LE	L 00153 POD3				Shallow		1	3	07	16S	36E	649556	3645184*	2537
L 08466	L	SAN	3	EMPIRE DRILLING COMPANY	LE	L 08466				Shallow	1	4	3	06	16S	36E	649802	3646496*	2552
L 02548	L	PRO	0	BRANTLEY DRILLING CO	LE	L 02548				Shallow		3	3	03	16S	35E	644702	3646328*	2558
L 00196 B	L	IRR	0	JOHNNY B. BROWN	LE	L 00196 POD7				Shallow	3	2	3	06	16S	36E	649794	3646699*	2571
L 06322	L	IRR	35.1	DONALD PEBSWORTH	LE	L 00196 POD7				Shallow	3	2	3	06	16S	36E	649794	3646699*	2571
					LE	L 06322					3	2	3	06	16S	36E	649794	3646699*	2571
L 06322 A	L	IRR	15	JOE ANDREWS	LE	L 06322			R		3	2	3	06	16S	36E	649794	3646699*	2571
L 06322 B	L	IRR	9	JOHN N. SANDERS	LE	L 06322			R		3	2	3	06	16S	36E	649794	3646699*	2571
L 01510	L	PRO	0	THE PURE OIL COMPANY	LE	L 01510 POD1				Shallow		1	1	10	16S	35E	644708	3645925*	2574
L 05706	L	DOM	3	J C MANSKER	LE	L 05706				Shallow	3	2	1	07	16S	36E	649808	3645894*	2575
					LE	L 05706 POD2					3	2	1	07	16S	36E	649808	3645894*	2575
L 05904	L	COM	1212.42	LOBO WATER RESOURCES LLC	LE	L 05904 S4			R	Shallow			1	03	16S	35E	644891	3647333*	2598
L 07110	L	DOM	3	MELVIN J DICKERSON	LE	L 07110				Shallow		4	3	06	16S	36E	649903	3646397*	2646
L 01878	L	PRO	0	CORBETT DRILLING COMPANY	LE	L 01878 POD1				Shallow	3	3	3	03	16S	35E	644601	3646227*	2658
L 06042	L	DOM	3	BERENICE HAMILTON	LE	L 06042				Shallow		3	3	33	15S	35E	647758	3648881*	2663
L 11568	L	STK	0	DARRON D. ROBERTS	LE	L 11568					1	1	3	13	16S	35E	647872	3643647*	2687
L 10733	L	PRO	0	PATTERSON DRILLING COMPANY	LE	L 10733						2	3	06	16S	36E	649895	3646800*	2689

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 03104	L	PRO	0	WARREN & BRADSHAW EXP. & DRILL	LE	L 03104			Shallow		1	06	16S	36E	649718	3647396*	2706
L 07497	L	DOL	3	MARK BLYTHE	LE	L 07497			Shallow		1	06	16S	36E	649718	3647396*	2706
L 12942	L	DOL	3	GEORGE KENEMORE	LE	L 12942 POD1			Shallow	4 4	3	06	16S	36E	650017	3646347	2759
L 12753	L	DOM	1	WESTERN COMMERCE BANK	LE	L 12753 POD1				2 3	3	33	15S	35E	647892	3648965	2774
L 10243	L	PRO	0	CHARLES GILLESPIE, JR.	LE	L 10243			Shallow	3 3	4	33	15S	35E	648462	3648794*	2801
L 10668	L	DOM	3	DARRON D. ROBERTS	LE	L 10668			Shallow	1	3	13	16S	35E	647973	3643548*	2808
L 00153	L	IRR	527.13	JERRY CARLISLE	LE	L 00153			Shallow		3	07	16S	36E	649765	3644983*	2813
L 06225	L	STK	3	J C MANSKER	LE	L 06225					3	07	16S	36E	649765	3644983*	2813
L 06226	L	STK	3	J C MANSKER	LE	L 06226					3	07	16S	36E	649765	3644983*	2813
L 03344	L	PRO	0	A W THOMPSON INC	LE	L 03344			Shallow	3	2	15	16S	35E	645548	3643922*	2900
L 14728	L	DOL	3	JAIME GARZA	LE	L 14728 POD1	222D3			3 3	4	06	16S	36E	650172	3646250	2913
L 14756	L	DOM	1	OCTAVIO HERNANDEZ	LE	L 14756 POD1	2246A			3 1	4	06	16S	36E	650143	3646725	2920
L 00447	L	IRR	0	C.E. HILBURN	LE	L 00447			Shallow		2 3	13	16S	35E	648375	3643554*	2930
L 03122	L	PRO	0	HUMBLE OIL AND REFINING CO.	LE	L 03122			Shallow	4	2 3	32	15S	35E	646643	3649159*	2959
L 01622	L	IRR	0	E.L. HARROD	LE	L 01622 S2					4 4	04	16S	35E	644298	3646325*	2962
L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00275			Shallow	1	1 4	13	16S	35E	648677	3643659*	2965
L 01681	L	PRO	0	PARKER DRILLING COMPANY	LE	L 01681 POD1			Shallow		3 3	10	16S	35E	644725	3644719*	2968
L 03697	L	PRO	0	CACTUS DRILLING COMPANY	LE	L 03697			Shallow			06	16S	36E	650139	3646994*	2970
L 03773	L	PRO	0	CACTUS DRILLING CORPORATION	LE	L 03773			Shallow			06	16S	36E	650139	3646994*	2970
L 03797	L	DOM	3	W M SNYDER	LE	L 03797						06	16S	36E	650139	3646994*	2970
L 03862	L	PRO	0	FIRST BLACK STOCK	LE	L 03862			Shallow			06	16S	36E	650139	3646994*	2970
L 09962	L	DOM	3	JOSE M. MORENO	LE	L 09962			Shallow			06	16S	36E	650139	3646994*	2970

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 10024	L	DOM	3	LUPE F. MORENO	LE	L 10024				Shallow				06	16S	36E	650139	3646994*	2970
L 14170	L	DOL	3	ERVEY MIRANDA JR	LE	L 14170 POD1				Shallow	1	3	4	06	16S	36E	650228	3646448	2974
L 00608	L	IRR	368.4	JERRY CARLISLE	LE	L 00608 S				Shallow	3	1	3	14	16S	35E	646264	3643427*	3006
L 13801	L	DOM	1	EBELENNY MUNOZ	LE	L 13801 POD1				Shallow	1	1	4	06	16S	36E	650215	3646888	3021
L 14764	L	DOL	3	LYNN MONGE	LE	L 14764 POD1	2246D				3	3	4	06	16S	36E	650283	3646265	3023
L 07020	L	PRO	0	MCVAY DRILLING COMPANY	LE	L 07020				Shallow	1	4	4	14	16S	35E	647476	3643239*	3032
L 02386	L	PRO	0	LIVERMORE DRILLING COMPANY	LE	L 02386				Shallow		4	2	09	16S	35E	644310	3645520*	3041
L 03018	L	PRO	0	PHILLIPS PETROLEUM COMPANY	LE	L 03018				Shallow		1	3	33	15S	35E	647752	3649283*	3058
L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00275 POD2		R		Shallow	2	1	4	13	16S	35E	648877	3643659*	3066
					LE	L 00275 POD3				Shallow		1	4	13	16S	35E	648778	3643560*	3101
L 13370	L	DOM	1	MELISSA K. HATFIELD	LE	L 13370 POD1			NA	Shallow		1	3	13	16S	35E	647777	3643150	3156
L 00627	L	IRR	186	GUSTAVO GALLEGOS	LE	L 00627				Shallow	4	2	4	31	15S	35E	645838	3649144*	3211
L 00627 A	L	IRR	85.5	CASWELL BROTHERS	LE	L 00627				Shallow	4	2	4	31	15S	35E	645838	3649144*	3211
L 00888	L	IRR	0	AUSTIN BLACKMON	LE	L 00888						1	4	15	16S	35E	645554	3643520*	3230
L 03243	L	PRO	0	A.W. THOMPSON INC.	LE	L 03243				Shallow		1	4	15	16S	35E	645554	3643520*	3230
L 14096	L	DOL	3	RAMON GALLEGOS	LE	L 14096 POD1				Shallow	3	2	4	31	15S	35E	645607	3649092	3275
L 00627 A	L	IRR	85.5	CASWELL BROTHERS	LE	L 00627 POD3				Shallow	1	1	3	32	15S	35E	646041	3649352*	3319
L 05557	L	IRR	600	CINCO FARMS INC	LE	L 05557 S				Shallow	2	2	3	15	16S	35E	645248	3643615*	3326
L 09782	L	DOM	0	RICHARD T. NELSON	LE	L 09782					3	4	3	13	16S	35E	648281	3643050*	3372
L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00275 POD5				Shallow			4	13	16S	35E	648985	3643358*	3379
L 03343	L	PRO	0	FRANK FRAWLEY DRILLING COMPANY	LE	L 03343				Shallow		4	4	15	16S	35E	645965	3643121*	3399
L 01799	L	PRO	0	PARKER DRILLING COMPANY	LE	L 01799 POD1				Shallow		1	4	04	16S	35E	643889	3646725*	3401

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 00196 AB	L	IRR	17.7	STEFANIE R. ACKERMAN	LE	L 00196 POD9				Shallow		2	06	16S	36E	650492	3647411*	3429
L 10657	L	PRO	0	CHESAPEAKE OPERATING	LE	L 10657				Shallow	2 1	2	06	16S	36E	650212	3648017	3434
L 12354	L	PRO	0	GLENN'S WATER WELL SERVICE	LE	L 10657				Shallow	2 1	2	06	16S	36E	650212	3648017	3434
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 05553 X						3 2	09	16S	35E	643906	3645518*	3435
L 00387	L	IRR	385.2	LARJON, INC.	LE	L 00387				Shallow	1 1	2	23	16S	35E	647079	3642832*	3436
L 00387 A	L	IRR	63.27	GREGORY EDWARD MCPHERSON	LE	L 00387			R	Shallow	1 1	2	23	16S	35E	647079	3642832*	3436
L 01111	L	DOM	3	C E HILBURN	LE	L 01111 POD1				Shallow	4 4	3	13	16S	35E	648481	3643050*	3438
L 09764	L	DOM	0	THRESA BOYD	LE	L 09764				Shallow	4 4	3	13	16S	35E	648481	3643050*	3438
L 10606	L	PRO	0	CHESAPEAKE OPERATING	LE	L 10606				Shallow	3 4	2	07	16S	36E	650620	3645506*	3444
L 05557	L	IRR	600	FEDERAL LAND BANK OF WICHITA	LE	L 05557 S2				Shallow	1 2	3	15	16S	35E	645048	3643615*	3450
L 02957	L	PRO	0	A W THOMPSON	LE	L 02957				Shallow		3 1	33	15S	35E	647745	3649686*	3456
L 07849	L	DOL	3	KENNETH E CHAMBERS	LE	L 07849						2 2	07	16S	36E	650714	3646010*	3463
L 14624	L	MUL	3	BONITACIO MONGE	LE	L 14624 POD1	221EB			Shallow	4 4	4	06	16S	36E	650723	3646300	3464
L 08892	L	DOM	3	JERRY CARLISLE	LE	L 08892				Shallow		2 3	15	16S	35E	645149	3643516*	3465
L 08454	L	DOM	3	D W JOHNSON	LE	L 08454				Shallow	3 3	4	04	16S	35E	643793	3646221*	3466
L 02794	L	DOM	3	WARREN PETROLEUM CORP.	LE	L 02794				Shallow	1 1	2	09	16S	35E	643799	3646019*	3469
L 09817	L	PRO	0	CHARLES B. GILLESPIE, JR.	LE	L 09817				Shallow		4 1	32	15S	35E	646538	3649663*	3474
L 00387 A	L	IRR	63.27	GREGORY EDWARD MCPHERSON	LE	L 00387 POD2				Shallow	1 1	1	24	16S	35E	647884	3642842*	3478
					LE	L 00387 POD3				Shallow	1 1	1	24	16S	35E	647884	3642842*	3478
L 02694	L	DOM	3	T G HESTER	LE	L 02694				Shallow	1 1	1	24	16S	35E	647884	3642842*	3478
L 06582	L	DOM	3	NORM MCPHERSON	LE	L 06582					1 1	1	24	16S	35E	647884	3642842*	3478
L 01690	L	PRO	0	HUMBLE OIL & REFINING COMPANY	LE	L 01690 POD1				Shallow	3 1	2	09	16S	35E	643799	3645819*	3489

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L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00631		R		Shallow	3	3	4	13	16S	35E	648683	3643056*	3509
L 00631	L	IRR	0	GEORGE I. SUMRULD	LE	L 00631				Shallow	3	3	4	13	16S	35E	648683	3643056*	3509
L 00983	L	DOM	3	GEORGE I. SUMRULD	LE	L 00983 POD1				Shallow	3	3	4	13	16S	35E	648683	3643056*	3509
L 11562	L	PRO	0	CHESAPEAKE OPERATING	LE	L 00631				Shallow	3	3	4	13	16S	35E	648683	3643056*	3509
L 00387 A	L	IRR	63.27	GREGORY EDWARD MCPHERSON	LE	L 00387 POD5		R		Shallow	2	1	1	24	16S	35E	648084	3642842*	3520
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 05553 X2						1	4	09	16S	35E	643912	3645115*	3539
L 04154	L	DOM	3	C C CHAMBERS	LE	L 04154				Shallow	2	2	2	07	16S	36E	650813	3646109*	3556
L 07438	L	PRO	0	TRI-SERVICE DRILLING COMPANY	LE	L 07438				Shallow	3	3	2	04	16S	35E	643782	3647026*	3560
L 11266	L	PRO	0	ENERGEN RESOURCES CORPORATION	LE	L 11266				Shallow	2	4	2	32	15S	35E	647352	3649825	3562
L 00387 AB	L	IRR	125.07	NORMA JEAN MCPHERSON	LE	L 00387 POD6				Shallow	1	2	1	24	16S	35E	648287	3642848*	3567
L 00627	L	IRR	186	GUSTAVO GALLEGOS	LE	L 00627 S				Shallow	2	1	4	31	15S	35E	645435	3649337*	3573
L 00627 A	L	IRR	85.5	CASWELL BROTHERS	LE	L 00627 S				Shallow	2	1	4	31	15S	35E	645435	3649337*	3573
L 13307	L	STK	3	CHARLINE DYE	LE	L 13307 POD1			NA	Shallow	2	2	2	07	16S	36E	650839	3646184	3581
L 05363	L	DOM	3	C E MCPHERSON	LE	L 05363				Shallow		1	1	24	16S	35E	647985	3642743*	3595
L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00631 S				Shallow	4	3	4	13	16S	35E	648883	3643056*	3595
L 00631	L	IRR	0	GEORGE I. SUMRULD	LE	L 00631 S				Shallow	4	3	4	13	16S	35E	648883	3643056*	3595
L 02618	L	PRO	0	GULF OIL CORPORATION	LE	L 02618				Shallow	1	1	4	09	16S	35E	643811	3645214*	3604
CP 01128	CP	MON	0	ENERGEN RESOURCES CORPORATION	LE	CP 01128 POD5											649313	3649240	3616
L 13218	L	MON	0	ENERGEN RESOURCES	LE	L 13218 POD4				Shallow	3	1	3	34	15S	35E	649313	3649240	3616
L 14341	L	STK	3	RAMIRO MEDELLIN	LE	L 14341 POD1	20630			Shallow	2	2	4	06	16S	36E	650802	3647013	3621
L 14421	L	DOM	1	FAMILYS OIL SERVICE LLC	LE	L 14421 POD1	20686		NON	Shallow	4	2	4	06	16S	36E	650867	3646672	3630
L 00387	L	IRR	385.2	LARJON, INC.	LE	L 00387 S2				Shallow	4	1	2	23	16S	35E	647279	3642632*	3632

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
					LE	L 00387 S				Shallow	3 1	2	23	16S	35E	647079	3642632*	3636
L 14724	L	DOL	3	VICTOR LOPEZ	LE	L 14724 POD1	222DD				4 2	4	06	16S	36E	650873	3646752	3647
L 00387 A	L	IRR	63.27	GREGORY EDWARD MCPHERSON	LE	L 00387 POD4				Shallow	3 1	1	24	16S	35E	647884	3642642*	3675
L 00387 AA	L	IRR	90	FABIOLA JUAREZ	LE	L 00387 POD4				Shallow	3 1	1	24	16S	35E	647884	3642642*	3675
L 13218	L	MON	0	ENERGEN RESOURCES	LE	L 13218 POD5				Shallow	3 1	3	34	15S	35E	649400	3649266	3687
L 00153	L	IRR	527.13	JERRY CARLISLE	LE	L 00153 POD2				Shallow	2 2	4	07	16S	36E	650827	3645304*	3694
L 10801	L	PRO	0	CHESAPEAK OPERATING CO.	LE	L 00153 POD2				Shallow	2 2	4	07	16S	36E	650827	3645304*	3694
L 13218	L	MON	0	STRAUB CORPORATION	LE	L 13218 POD10					4 1	3	34	15S	35E	649456	3649238	3697
					LE	L 13218 POD7					4 1	3	34	15S	35E	649456	3649238	3697
					LE	L 13218 POD8					4 1	3	34	15S	35E	649456	3649238	3697
					LE	L 13218 POD9					4 1	3	34	15S	35E	649456	3649238	3697
L 10465	L	PRO	0	CHARLES B. GILLESPIE, JR	LE	L 10465					1	3	34	15S	35E	649361	3649313*	3702
L 11986	L	PRO	0	ENERGEN RESOURCES CORPORATION	LE	L 11986 POD1					4 1	3	34	15S	35E	649364	3649314	3706
CP 01128	CP	MON	0	ENERGEN RESOURCES CORPORATION	LE	CP 01128 POD1										649277	3649385	3717
L 13218	L	MON	0	STRAUB CORPORATION	LE	L 13218 POD1				Shallow	1 1	3	34	15S	35E	649277	3649385	3717
L 00889	L	IRR	0	AUSTIN BLACKMON	LE	L 00889					1	3	15	16S	35E	644743	3643512*	3729
L 03141	L	PRO	0	HUMBLE OIL AND REFINING CO.	LE	L 03141				Shallow	2 3	3	31	15S	35E	644624	3648919*	3740
L 03058	L	PRO	0	SOUTHEASTERN DRILLING COMPANY	LE	L 03058				Shallow	3	3	31	15S	35E	644525	3648820*	3743
L 03083	L	PRO	0	SOUTHEASTERN DRILLING CORP.	LE	L 03083				Shallow	3	3	31	15S	35E	644525	3648820*	3743
L 00967	L	DOM	3	BARNEY M. BAILEY	LE	L 00967 POD1				Shallow	3 3	3	05	16S	36E	651009	3646319*	3749
L 01319	L	DOM	3	TED W. PHILLIPS	LE	L 01319			R	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749
L 02465	L	DOM	3	TEXAS-NEW MEXICO PIPE LINE CO	LE	L 02465			R	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749

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(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
					LE	L 02465 POD2			Shallow	3 3	3	05	16S	36E	651009	3646319*	3749
L 02910	L	DOM	3	BARNEY M BAILEY	LE	L 02910			Shallow	3 3	3	05	16S	36E	651009	3646319*	3749
CP 01128	CP	MON	0	ENERGEN RESOURCES CORPORATION	LE	CP 01128 POD2									649440	3649314	3750
L 13218	L	MON	0	STRAUB CORPORATION	LE	L 13218 POD2			Shallow	4 1	3	34	15S	35E	649440	3649314	3750
L 03385	L	DOM	3	A C DOOLEY	LE	L 03385			Shallow	1 3	3	05	16S	36E	651009	3646519*	3758
L 09346	L	DOM	3	VERNA FUGUA	LE	L 09346			Shallow	1 3	3	05	16S	36E	651009	3646519*	3758
L 00160	L	IRR	182.1	C.C. CHAMBERS	LE	L 00160			Shallow	1 1	1	08	16S	36E	651016	3646116*	3759
L 02270	L	PRO	0	BRANTLY DRILLING CO. INC.	LE	L 02270			Shallow	4	3	04	16S	35E	643490	3646319*	3769
L 09579	L	PRO	0	TXO PRODUCING	LE	L 09579			Shallow	3 1	3	05	16S	36E	651002	3646721*	3770
L 01856	L	IRR	88.8	GEORGE SUMRULD	LE	L 01856			Shallow	2 1	2	24	16S	35E	648889	3642854*	3779
CP 01128	CP	MON	0	ENERGEN RESOURCES CORPORATION	LE	CP 01128 POD3									649424	3649370	3786
L 13218	L	MON	0	ENERGEN RESOURCES	LE	L 13218 POD3			Shallow	2 1	3	34	15S	35E	649424	3649370	3786
L 01033	L	DOM	3	GEORGE I. SUMRULD	LE	L 01033 POD1			Shallow	4 4	4	13	16S	35E	649286	3643062*	3789
L 09262	L	DOM	3	B. H. POPE	LE	L 09262			Shallow	1 1	3	05	16S	36E	651002	3646921*	3799
L 01622	L	IRR	0	E.L. HARROD	LE	L 01622 S				2	3	04	16S	35E	643484	3646722*	3803
L 08616	L	PRO	0	KIMBARK OIL AND GAS	LE	L 08616				2	3	04	16S	35E	643484	3646722*	3803
L 13218	L	MON	0	ENERGEN RESOURCES	LE	L 13218 POD6			Shallow	3 1	2	34	15S	35E	649507	3649343	3812
L 12959	L	DOL	3	ADAM JUAREZ	LE	L 12959 POD1			Shallow	2 3	1	24	16S	35E	648012	3642513	3825
L 00275	L	IRR	525	GEORGE I. SUMRULD	LE	L 00275 POD4			Shallow	1	2	24	16S	35E	648790	3642755*	3828
L 05429	L	IRR	0	CECIL E. MCPHERSON	LE	L 05429					1	24	16S	35E	648192	3642542*	3837
L 07508	L	STK	3	BERENICE HAMILTON	LE	L 07508			Shallow	4	2	33	15S	35E	648953	3649708*	3837
L 00718 A	L	IRR	122.1	JERRY CARLISLE	LE	L 00718 S			Shallow			18	16S	36E	650192	3643772*	3848

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L 14701	L	DOM	1	HUMBERTO RODRIGUEZ	LE	L 14701 POD1	2227D				3 1	3	05	16S	36E	651017	3647116	3853
L 00097 A	L	IRR	79.44	SHIRLEY BAILEY	LE	L 00097 POD2				Shallow	3	3	05	16S	36E	651110	3646420*	3853
L 08852	L	DOM	3	ANCEL B. BAILEY	LE	L 08852				Shallow	3	3	05	16S	36E	651110	3646420*	3853
L 01726	L	IND	705.6	LEA COUNTY ELECTRIC COOP, INC.	LE	L 01727				Shallow	1	1	33	15S	35E	647739	3650088*	3853
L 01727	L	IND	0	LEA COUNTY ELECTRIC COOP, INC.	LE	L 01727		R		Shallow	1	1	33	15S	35E	647739	3650088*	3853
L 12440	L	DOL	3	JERRY CAUDILL	LE	L 12440 POD1				Shallow	1 3	1	08	16S	36E	651086	3645781	3856
L 01423	L	DOM	3	C C CHAMBERS	LE	L 01423				Shallow	1	1	08	16S	36E	651117	3646017*	3865
L 05557	L	IRR	600	CINCO FARMS INC	LE	L 05557 S3				Shallow	3 1	3	15	16S	35E	644642	3643411*	3871
L 09332	L	DOM	3	MIKE GOMEZ	LE	L 09332				Shallow	1 3	1	05	16S	36E	650995	3647324*	3882
L 00097	L	COM	120	GILBERT ARREOLA	LE	L 00097				Shallow	1	3	05	16S	36E	651103	3646822*	3883
L 06969	L	DOM	3	J D PHILLIPS	LE	L 06969				Shallow	1	3	05	16S	36E	651103	3646822*	3883
L 07430	L	DOM	0	GILBERT ARREOLA	LE	L 07430				Shallow	1	3	05	16S	36E	651103	3646822*	3883
L 00247	L	IRR	68.22	ROBERT E. MOORE	LE	L 00247				Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 A	L	IRR	7.5	HILLARY PAUL WEAVER	LE	L 00247		R		Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 B	L	IRR	97.35	FARM CREDIT OF NM, FLCA	LE	L 00247				Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 BB	L	IRR	10.5	ALBERT E. FAIRWEATHER	LE	L 00247		R		Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 C	L	IRR	8.1	GEORGE H. JOHNSTON	LE	L 00247				Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 D	L	IRR	4.95	JACK WEBB	LE	L 00247				Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 E	L	IRR	14.4	HILLARY PAUL WEAVER	LE	L 00247				Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 00247 F	L	IRR	14.53	GLEN BOLAND	LE	L 00247		R		Shallow	1 1	3	08	16S	36E	651030	3645311*	3889
L 05557	L	IRR	600	FEDERAL LAND BANK OF WICHITA	LE	L 05557				Shallow	2 3	3	15	16S	35E	644848	3643208*	3892
L 07470	L	PRO	0	TRI STATE DRILLING CO	LE	L 07470				Shallow	4 4	4	36	15S	34E	644222	3648712*	3901

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 06967	L	DOL	3	OSCAR V NEIDIGK	LE	L 06967					3	2	2	18	16S	36E	650641	3644298*	3911
L 01624	L	IRR	146.4	E.L. HARROD	LE	L 01624 S2				Shallow	2	4	3	09	16S	35E	643613	3644809*	3926
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 01624 S2				Shallow	2	4	3	09	16S	35E	643613	3644809*	3926
L 09532	L	PRO	0	CHARLES B. GILLESPIE	LE	L 09532				Shallow	3	1	1	05	16S	36E	650988	3647526*	3936
L 00092	L	IRR	193.26	VMJ OILFIELD SERVICE, INC.	LE	L 00092 S3				Shallow	3	1	1	05	16S	36E	650961	3647613	3939
L 12879	L	EXP	0	MOISES HERNANDEZ	LE	L 00092 S3				Shallow	3	1	1	05	16S	36E	650961	3647613	3939
L 00247	L	IRR	68.22	ROBERT E. MOORE	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 A	L	IRR	7.5	HILLARY PAUL WEAVER	LE	L 00247 S			R	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 B	L	IRR	97.35	FARM CREDIT OF NM, FLCA	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BA	L	IRR	39.71	RAYMOND F. FORT	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BAA	L	IRR	15	LINDA PEBSWORTH	LE	L 00247 S			R	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BAB	L	IRR	5.92	RAMON SEPULVEDA	LE	L 00247 S			R	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BAC	L	IRR	60.03	BLAINE TRENT KIRKPATRICK	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BC	L	IRR	12.42	JAMES CASH KIRKPATRICK	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 BCA	L	IRR	30	BLAIN TRENT KIRKPATRICK	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 C	L	IRR	8.1	GEORGE H. JOHNSTON	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 D	L	IRR	4.95	JACK WEBB	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 E	L	IRR	14.4	HILLARY PAUL WEAVER	LE	L 00247 S				Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 00247 F	L	IRR	14.53	GLEN BOLAND	LE	L 00247 S			R	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942
L 13173	L	EXP	0	ENERGEN RESOURCES / DAN FIELD	LE	L 13173 POD5							2	33	15S	35E	648522	3650000	3944
L 02203	L	DOM	3	ROY TATUM	LE	L 02203				Shallow	4	3	3	05	16S	36E	651209	3646319*	3949
L 02809	L	DOM	3	DALE PHILLIPS	LE	L 02809				Shallow	4	3	3	05	16S	36E	651209	3646319*	3949

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 01087	L	DOL	3	C.C. CHAMBERS	LE	L 01087				Shallow	2	2	18	16S	36E	650742	3644399*	3950
L 09354	L	DOM	0	ELORA NORENE DUDA	LE	L 09354					3	1	05	16S	36E	651096	3647225*	3954
L 00160	L	IRR	182.1	C.C. CHAMBERS	LE	L 00718					2	1	08	16S	36E	651216	3646116*	3959
L 00718	L	IRR	0	C.C. CHAMBERS	LE	L 00718					2	1	08	16S	36E	651216	3646116*	3959
L 01011	L	DOM	3	K.E. CHAMBERS	LE	L 01011 POD1				Shallow	2	1	08	16S	36E	651216	3646116*	3959
L 11488	L	DOM	0	BONNIE MURPH	LE	L 11488					2	1	08	16S	36E	651216	3646116*	3959
L 13173	L	EXP	0	ENERGEN RESOURCES / DAN FIELD	LE	L 13173 POD4						2	33	15S	35E	648562	3650004	3960
L 00984	L	DOM	3	GEORGE I. SUMRULD	LE	L 00984 POD1				Shallow	2	2	24	16S	35E	649292	3642860*	3964
L 00985	L	DOM	3	GEORGE I. SUMRULD	LE	L 00985 POD1				Shallow	2	2	24	16S	35E	649292	3642860*	3964
L 11221	L	PRO	0	ENERGEN RESOURCES CORP.	LE	L 11221				Shallow	2	1	33	15S	35E	647838	3650187*	3965
L 13173	L	EXP	0	ENERGEN RESOURCES / DAN FIELD	LE	L 13173 POD3						2	33	15S	35E	648540	3650018	3966
L 13729	L	MON	0	ENERGEN RESOURCES	LE	L 13729 POD1			NON	Shallow	4	1	33	15S	35E	648575	3650007	3967
L 13173	L	EXP	0	ENERGEN RESOURCES / DAN FIELD	LE	L 13173 POD2				Shallow		2	33	15S	35E	648523	3650040	3982
					LE	L 13173 POD1				Shallow		2	33	15S	35E	648540	3650040	3987
L 02975	L	PRO	0	B B & M DRILLING COMPANY	LE	L 02975				Shallow	4	4	36	15S	34E	644123	3648813*	4041
L 00387 AA	L	IRR	90	ADAM JUAREZ	LE	L 00387 POD7					3	1	24	16S	35E	648130	3642302	4055
L 00387 AAA	L	IRR	35.16	CHANTALY SEPULVEDA	LE	L 00387 POD7					3	1	24	16S	35E	648130	3642302	4055
L 00092	L	IRR	193.26	VMJ OILFIELD SERVICE, INC.	LE	L 00092		R				1	05	16S	36E	651089	3647627*	4064
L 08478	L	DOM	3	WAYNE VILLAR	LE	L 08478				Shallow		1	05	16S	36E	651089	3647627*	4064
L 00971	L	DOM	3	W.B. PHILLIPS	LE	L 00971 POD1				Shallow		3	05	16S	36E	651311	3646621*	4067
L 01319	L	DOM	3	TED W. PHILLIPS	LE	L 01319 POD2						3	05	16S	36E	651311	3646621*	4067
L 10649	L	PRO	0	CHESAPEAKE OPERATING	LE	L 10649					2	1	08	16S	36E	651230	3645311*	4083

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L 01378	L	DOM	3	ROBERT E. MOORE	LE	L 01378				Shallow	3 3	3	08	16S	36E	651036	3644708*	4084
L 01581	L	DOM	3	LESTER ASHLEY	LE	L 01581 POD1				Shallow	3 3	3	08	16S	36E	651036	3644708*	4084
L 05218	L	DOM	3	R F FORT	LE	L 05218				Shallow	3 3	3	08	16S	36E	651036	3644708*	4084
L 06936	L	PRO	0	TOM BROWN DRILLING COMPANY	LE	L 06936				Shallow	2 2	1	16	16S	35E	643620	3644407*	4085
L 04010	L	DOM	3	E L HARROD	LE	L 04010				Shallow	4 1	1	09	16S	35E	643191	3645813*	4093
L 01624	L	IRR	146.4	E.L. HARROD	LE	L 01624 S				Shallow	2 3	1	09	16S	35E	643197	3645611*	4114
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 01624 S				Shallow	2 3	1	09	16S	35E	643197	3645611*	4114
L 00247 B	L	IRR	97.35	BLAINE TRENT KIRKPATRICK	LE	L 00247 S2					3 3		08	16S	36E	651137	3644809*	4141
L 00247 BA	L	IRR	39.71	RAYMOND F. FORT	LE	L 00247 POD5				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 00247 BAA	L	IRR	15	LINDA PEBSWORTH	LE	L 00247 POD5			R	Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 00247 BAB	L	IRR	5.92	RAQUEL B. SEPULVEDA	LE	L 00247 POD5			R	Shallow	3 3		08	16S	36E	651137	3644809*	4141
					LE	L 09913				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 00247 BAC	L	IRR	60.03	BLAINE TRENT KIRKPATRICK	LE	L 00247 POD5				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 00247 BC	L	IRR	12.42	JAMES CASH KIRKPATRICK	LE	L 00247 POD5				Shallow	3 3		08	16S	36E	651137	3644809*	4141
					LE	L 00247 S2					3 3		08	16S	36E	651137	3644809*	4141
L 00247 BCA	L	IRR	30	BLAIN TRENT KIRKPATRICK	LE	L 00247 POD5				Shallow	3 3		08	16S	36E	651137	3644809*	4141
					LE	L 00247 S2					3 3		08	16S	36E	651137	3644809*	4141
L 04939	L	DOM	3	O R WEAVER	LE	L 04939				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 09466	L	DOM	3	THELMA E. MASSEY	LE	L 09466				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 09913	L	STK	3	LEE EDWARD MASSEY	LE	L 09913				Shallow	3 3		08	16S	36E	651137	3644809*	4141
L 08047	L	PRO	0	YATES PETROLEUM CORP	LE	L 08047				Shallow	4 2		22	16S	35E	645977	3642317*	4150
L 00209	L	IRR	438.51	GLENDON R. BOLAND	LE	L 00209				Shallow	1 1	1	17	16S	36E	651043	3644505*	4172

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 00209 B	L	IRR	303.9	DLJ EQUIPMENT LEASING LTD. CO.	LE	L 00209				Shallow	1 1	1	17	16S	36E	651043	3644505*	4172
L 00209 D	L	IRR	9.39	GLENDON BOLAND	LE	L 00209			R	Shallow	1 1	1	17	16S	36E	651043	3644505*	4172
L 00209 E	L	IRR	16.2	LYNDA I. BOLAND	LE	L 00209			R	Shallow	1 1	1	17	16S	36E	651043	3644505*	4172
L 00209 F	L	IRR	24.3	DEEDRA TERRELL	LE	L 00209				Shallow	1 1	1	17	16S	36E	651043	3644505*	4172
L 13768	L	DOL	3	CLINTON LAUGHRIN	LE	L 13768 POD1				Shallow	3 4	1	05	16S	36E	651367	3647064	4185
L 00057	L	IRR	19.38	FLOYD GREER	LE	L 00057				Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
L 00057 A	L	IRR	52.68	GANDY CORPORATION	LE	L 00057			R	Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
					LE	L 00057 POD3				Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
L 00057 B	L	IRR	30	RALPH L. VALENTINE	LE	L 00057			R	Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
L 00057 C	L	IRR	30	VENITA ANN SMITH	LE	L 00057			R	Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
L 00057 D	L	IRR	92.43	TED O. GREER	LE	L 00057				Shallow	1 2	3	05	16S	36E	651406	3646929*	4199
L 01726	L	IND	705.6	LEA COUNTY ELECTRIC COOP, INC.	LE	L 01726				Shallow	2	2	33	15S	35E	648946	3650110*	4199
L 00055	L	IRR	120	DEWEY KOSLOSKY	LE	L 00055				Shallow		1	05	16S	36E	651297	3647426*	4201
L 00055 A	L	IRR	60	JOE WAYNE PHILLIPS	LE	L 00055			R	Shallow		1	05	16S	36E	651297	3647426*	4201
L 00092 A	L	IRR	2	BRYANT CARLTON POPE	LE	L 00092 POD6				Shallow		1	05	16S	36E	651297	3647426*	4201
L 00092 AA	L	IRR	17.59	ULEN ALLISON NORTH III	LE	L 00092 POD6				Shallow		1	05	16S	36E	651297	3647426*	4201
L 11841	L	DOL	3	CONNOR BREWER	LE	L 11841				Shallow	1 1	1	17	16S	36E	651087	3644514	4209
L 07358	L	STK	3	DAISY C CLAYTON	LE	L 07358				Shallow		4	34	15S	35E	650375	3649127*	4231
L 00442	L	IRR	230.64	MICHAEL T. BREWER, JR.	LE	L 00442	NA			Shallow	1 1	4	23	16S	35E	647091	3642028	4238
L 00442 A	L	IRR	174.81	SCHYLAR FARNUM	LE	L 00442	NA			Shallow	1 1	4	23	16S	35E	647091	3642028	4238
L 00442 AA	L	COM	40	BUCKEYE WATER, LLC	LE	L 00442	NA			Shallow	1 1	4	23	16S	35E	647091	3642028	4238
L 11524	L	PRO	0	EOG RESOURCES	LE	L 00442	NA			Shallow	1 1	4	23	16S	35E	647091	3642028	4238

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 11251	L	PRO	0	ENERGEN RESOURCES CORP.	LE	L 11251				Shallow	4	4	1	34	15S	35E	649857	3649622*	4245
L 13176	L	DOL	3	FRANCICO G. CORRAL	LE	L 13176 POD1				Shallow	1	4	4	05	16S	36E	651508	3646347	4250
L 07313	L	DOM	3	LARRY L WHITE	LE	L 07313				Shallow		4	3	05	16S	36E	651514	3646428*	4257
L 04598	L	DOL	3	ELMER H SUMRULD	LE	L 04598				Artesian	1	2	4	18	16S	36E	650654	3643692*	4258
L 06934	L	DOL	3	E H SUMRULD	LE	L 06934				Shallow	1	2	4	18	16S	36E	650654	3643692*	4258
L 06935	L	IRR	21.6	E.H. SUMRULD	LE	L 06935				Shallow	1	2	4	18	16S	36E	650654	3643692*	4258
L 02372	L	DOM	3	W F LESOURD	LE	L 02372						4	4	34	15S	35E	650578	3648934*	4259
L 10587	L	DOM	0	HELEN GARCIA	LE	L 10587				Shallow			3	08	16S	36E	651338	3645010*	4266
L 10635	L	DOM	0	LLOYD PEACOCK	LE	L 10635				Shallow			3	08	16S	36E	651338	3645010*	4266
L 10880	L	DOM	0	ISIDRO MEZA	LE	L 10880				Shallow			3	08	16S	36E	651338	3645010*	4266
L 00247 BAA	L	IRR	15	LINDA PEBSWORTH	LE	L 09307 POD2				Shallow	4	3	3	08	16S	36E	651236	3644708*	4270
L 09307	L	DOM	3	OTTO WEGNER	LE	L 09307			R	Shallow	4	3	3	08	16S	36E	651236	3644708*	4270
					LE	L 09307 POD2				Shallow	4	3	3	08	16S	36E	651236	3644708*	4270
L 03756	L	PRO	0	CABOT CARBON COMPANY	LE	L 03756				Shallow	3	3	3	04	16S	35E	642985	3646216*	4274
L 01624	L	IRR	146.4	E.L. HARROD	LE	L 01624				Shallow	1	1	1	09	16S	35E	642991	3646013*	4275
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 01624				Shallow	1	1	1	09	16S	35E	642991	3646013*	4275
L 02971	L	PRO	0	HUMBLE OIL & REFINING COMPANY	LE	L 02971				Shallow	2	4	1	16	16S	35E	643627	3644004*	4278
L 00057	L	IRR	19.38	FLOYD GREER	LE	L 00057 S				Shallow		2	3	05	16S	36E	651507	3646830*	4284
L 00057 A	L	IRR	52.68	GANDY CORPORATION	LE	L 00057 S			R	Shallow		2	3	05	16S	36E	651507	3646830*	4284
L 00057 B	L	IRR	30	RALPH L. VALENTINE	LE	L 00057 S			R	Shallow		2	3	05	16S	36E	651507	3646830*	4284
L 00057 C	L	IRR	30	VENITA ANN SMITH	LE	L 00057 S			R	Shallow		2	3	05	16S	36E	651507	3646830*	4284
L 00057 D	L	IRR	92.43	TED O. GREER	LE	L 00057 S				Shallow		2	3	05	16S	36E	651507	3646830*	4284

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L 02056	L	PRO	0	NOBLE DRILLING COMPANY	LE	L 02056				Shallow	1	1	17	16S	36E	651144	3644406*	4305
L 05553	L	IRR	0	DONALD M. HARROD	LE	L 05553					1	3	09	16S	35E	643104	3645110*	4312
L 06689	L	DOM	3	WALTER HANNAN	LE	L 06689					4	1	19	16S	36E	649694	3642666*	4344
L 03110	L	DOM	3	ROBERT MCBETH	LE	L 03110				Shallow	4	4	05	16S	36E	651613	3646327*	4353
L 07182	L	DOM	3	M C GANDY	LE	L 07182				Shallow	4	4	05	16S	36E	651613	3646327*	4353
L 00057 C	L	IRR	30	VENITA ANN SMITH	LE	L 00057 POD5				Shallow	4	2	05	16S	36E	651606	3646729*	4371
L 07514	L	DOM	3	RICHARD L BINGHAM	LE	L 07514				Shallow	4	2	05	16S	36E	651606	3646729*	4371
L 13689	L	DOL	3	LONNIE VOYLES	LE	L 13689 POD1			NON	Shallow	2	4	05	16S	36E	651525	3647264	4381
L 07975	L	DOM	3	CARL JOE WEAVER	LE	L 07975				Shallow	1	3	24	16S	35E	647997	3641939*	4387
L 00057 B	L	IRR	30	RALPH L. VALENTINE	LE	L 00057 POD4				Shallow	2	2	05	16S	36E	651606	3646929*	4396
L 07601	L	DOM	3	JERRY WILLIAMS	LE	L 00057 POD4				Shallow	2	2	05	16S	36E	651606	3646929*	4396
L 07887	L	DOM	3	RALPH L VALENTINE	LE	L 07887				Shallow	2	2	05	16S	36E	651606	3646929*	4396
L 06132	L	DOM	3	GEORGE W SUMRULD	LE	L 06132				Shallow	2	4	18	16S	36E	650755	3643593*	4399
L 07911	L	STK	0	WAYNE SUMRULD	LE	L 07911					2	4	18	16S	36E	650755	3643593*	4399
L 09729	L	EXP	0	E. H. SUMRULD	LE	L 09729					2	4	18	16S	36E	650755	3643593*	4399
L 09730	L	EXP	0	E. H. SUMRULD	LE	L 09730					2	4	18	16S	36E	650755	3643593*	4399
L 10712	L	PRO	0	CHESAPEAKE OPERATING	LE	L 10712				Shallow	2	4	18	16S	36E	650755	3643593*	4399
L 00268 B	L	IRR	43.8	BLANCA LINDA DORANTES	LE	L 00268 POD4				Shallow	2	2	1	19	16S	36E	650063	3642872*	4400
L 09562	L	DOM	0	PHILIP MURPH	LE	L 09562				Shallow	2	4	1	08	16S	36E	651627	3645721*	4401
L 00247 A	L	IRR	7.5	HILLARY PAUL WEAVER	LE	L 00247 POD3				Shallow	2	3	08	16S	36E	651535	3645219*	4401
L 00247 AA	L	IRR	7.5	JAMES E. MADISON	LE	L 00247 POD3		R		Shallow	2	3	08	16S	36E	651535	3645219*	4401
L 00247 BB	L	IRR	10.5	ALBERT E. FAIRWEATHER	LE	L 00247 POD7				Shallow	2	3	08	16S	36E	651535	3645219*	4401

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 00247 BBA	L	IRR	14.4	W.G. WHITE	LE	L 00247 POD7				Shallow	2	3		08	16S	36E	651535	3645219*	4401
L 10103	L	DOM	0	PHYLLIS G. SMITH	LE	L 10103				Shallow	2	3		08	16S	36E	651535	3645219*	4401
P 03010	P	DOM	3	CECIL F. CLOTFELTER	RO	P 03010				Shallow	3	4	4	30	15S	35E	645619	3650352*	4404
L 04801	L	DOM	3	GEORGE SPIRES	LE	L 04801					2	1		19	16S	36E	649964	3642773*	4416
L 04895	L	DOM	3	GEORGE SPIRES	LE	L 04895				Shallow	2	1		19	16S	36E	649964	3642773*	4416
L 10209	L	DOM	3	KENNY JACKSON	LE	L 10209				Shallow	2	1		19	16S	36E	649964	3642773*	4416
L 05021	L	SRO	0	SHELL OIL COMPANY	LE	L 05021				Shallow	2	1	1	16	16S	35E	643216	3644404*	4450
L 01070	L	DOM	3	ROBERT E. MOORE	LE	L 01070				Shallow	3	4	3	08	16S	36E	651441	3644715*	4459
L 00209	L	IRR	438.51	GLENDON R. BOLAND	LE	L 00209 S				Shallow	3	3	1	17	16S	36E	651050	3643902*	4466
L 00209 F	L	IRR	24.3	ROBIN TERRELL	LE	L 00209 S				Shallow	3	3	1	17	16S	36E	651050	3643902*	4466
L 07974	L	DOM	3	RAY LESTER WEAVER	LE	L 07974				Shallow	3	1	3	24	16S	35E	647896	3641838*	4471
L 00247 AA	L	IRR	7.5	JAMES E. MADISON	LE	L 00247 POD6				Shallow	2	2	3	08	16S	36E	651634	3645318*	4475
L 03596	L	DOM	3	GEORGE MERRIMAN	LE	L 03596				Shallow	2	2	3	08	16S	36E	651634	3645318*	4475
L 07445	L	STK	0	WALTER WHITE	LE	L 07445				Shallow	2	2	3	08	16S	36E	651634	3645318*	4475
L 11133	L	DOM	0	WILLIE COUNTS	LE	L 11133					2	2	3	08	16S	36E	651634	3645318*	4475
L 00268	L	IRR	12	MARLIN J. WIGGINS	LE	L 00268						1	19	16S	36E		649802	3642565*	4488
L 00268 A	L	IRR	104.4	KENNY JACKSON	LE	L 00268			R			1	19	16S	36E		649802	3642565*	4488
					LE	L 00268 POD3				Shallow		1	19	16S	36E		649802	3642565*	4488
L 00268 B	L	IRR	43.8	BLANCA LINDA DORANTES	LE	L 00268			R			1	19	16S	36E		649802	3642565*	4488
L 00268 C	L	IRR	16.2	JOE GRADO	LE	L 00268			R			1	19	16S	36E		649802	3642565*	4488
L 00268 D	L	IRR	87	ADA ROSA LEE JACKSON	LE	L 00268			R			1	19	16S	36E		649802	3642565*	4488
					LE	L 00268 POD7				Shallow		1	19	16S	36E		649802	3642565*	4488

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L 00268 E	L	IRR	31.5	BILLY HUFFMAN	LE	L 00268		R				1		19	16S	36E	649802	3642565*	4488
L 12301	L	DOL	3	MARGARET CALDWELL	LE	L 12301 POD1				Shallow	3	3	3	35	15S	35E	650858	3648951	4491
L 00209	L	IRR	438.51	LYNDA I. BOLAND	LE	L 00209 S2		R		Shallow		3	1	17	16S	36E	651151	3644003*	4500
L 10010	L	PRO	0	INEXCO OIL COMPANY	LE	L 00209 S2				Shallow		3	1	17	16S	36E	651151	3644003*	4500
L 13282	L	DOL	3	MONICA CASTILLO	LE	L 13282 POD1				Shallow	4	3	3	35	15S	35E	650975	3648829	4515
L 00055 A	L	IRR	60	JOE WAYNE PHILLIPS	LE	L 00055 POD3				Shallow				05	16S	36E	651713	3647023*	4517
L 00055 AA	L	IRR	60	LARRY D. RIDENOUR	LE	L 00055 POD3				Shallow				05	16S	36E	651713	3647023*	4517
L 00092	L	IRR	193.26	VMJ OILFIELD SERVICE, INC.	LE	L 00092 POD2				Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00092 S2				Shallow				05	16S	36E	651713	3647023*	4517
L 00092 A	L	IRR	2	BRYANT CARLTON POPE	LE	L 00092 POD2		R		Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00092 POD5		R		Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00092 S2		R		Shallow				05	16S	36E	651713	3647023*	4517
L 00092 B	L	IRR	12	POPE FAMILY TRUST	LE	L 00092 POD2				Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00092 S2				Shallow				05	16S	36E	651713	3647023*	4517
L 00141	L	IRR	36	C.L. NAUL	LE	L 00141 POD2				Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 03700		R		Shallow				05	16S	36E	651713	3647023*	4517
L 00141 A	L	IRR	15	GORDON CONE	LE	L 00141 POD2				Shallow				05	16S	36E	651713	3647023*	4517
L 00196 A	L	IRR	60	J.C. ABBOTT	LE	L 00196 POD11								05	16S	36E	651713	3647023*	4517
L 00529 F	L	IRR	9	RAYMOND F. ANDERSON	LE	L 05798		R		Shallow				05	16S	36E	651713	3647023*	4517
L 00684	L	IRR	122.19	JAMES W. RICHARDSON	LE	L 00684		R		Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00684 POD2		R		Shallow				05	16S	36E	651713	3647023*	4517
					LE	L 00684 POD3				Shallow				05	16S	36E	651713	3647023*	4517

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					LE	L 00684 S						05	16S	36E	651713	3647023*	4517
L 00684 A	L	IRR	0	J.C. ABBOTT	LE	L 00684 POD3				Shallow		05	16S	36E	651713	3647023*	4517
L 00684 B	L	IRR	2.61	YSABEL C. LOSOYA	LE	L 00684 POD3				Shallow		05	16S	36E	651713	3647023*	4517
L 00684 C	L	IRR	120	DANNY R. WATSON	LE	L 00684 POD3			R	Shallow		05	16S	36E	651713	3647023*	4517
L 03268	L	DOM	3	GRADY D. BACKUS	LE	L 03268				Shallow		05	16S	36E	651713	3647023*	4517
L 03269	L	DOM	3	JACK CAYTON	LE	L 03269				Shallow		05	16S	36E	651713	3647023*	4517
L 03270	L	DOM	3	M.R. PORTER	LE	L 03270				Shallow		05	16S	36E	651713	3647023*	4517
L 03700	L	DOM	3	C L NAUL	LE	L 03700				Shallow		05	16S	36E	651713	3647023*	4517
L 03861	L	DOM	3	RALPH LOWE	LE	L 03861				Shallow		05	16S	36E	651713	3647023*	4517
L 03911	L	DOM	3	C L NAUL	LE	L 03911				Shallow		05	16S	36E	651713	3647023*	4517
L 04106	L	DOM	3	BOB THOMAS	LE	L 04106				Shallow		05	16S	36E	651713	3647023*	4517
L 04265	L	DOM	3	DEWEY KOSLOSKY	LE	L 04265						05	16S	36E	651713	3647023*	4517
L 04653	L	DOM	3	BILLY B. EDWARDS	LE	L 04653				Shallow		05	16S	36E	651713	3647023*	4517
L 04897	L	STK	3	JOHN COLLIE	LE	L 04897				Shallow		05	16S	36E	651713	3647023*	4517
L 05186	L	DOM	3	RAFEAL FLORES	LE	L 05186				Shallow		05	16S	36E	651713	3647023*	4517
L 05240	L	DOL	3	ROY L BROWN	LE	L 05240				Shallow		05	16S	36E	651713	3647023*	4517
L 05798	L	IRR	15	KALA RAE LAUGHRIN	LE	L 05798				Shallow		05	16S	36E	651713	3647023*	4517
L 05965	L	IRR	0	JOE FREEMAN	LE	L 05965						05	16S	36E	651713	3647023*	4517
L 06095	L	DOM	3	BETTY J DUNCAN	LE	L 06095				Shallow		05	16S	36E	651713	3647023*	4517
L 06636	L	DOM	3	JOE BAGWELL	LE	L 06636				Shallow		05	16S	36E	651713	3647023*	4517
L 07085	L	DOM	3	JOHN C HINES	LE	L 07085						05	16S	36E	651713	3647023*	4517
L 07748	L	DOL	3	CARLTON C POPE	LE	L 07748				Shallow		05	16S	36E	651713	3647023*	4517

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L 07832	L	DOM	3	JESS HEYNES	LE	L 07832				Shallow		05	16S	36E	651713	3647023*	4517
L 07993	L	DOM	0	JOE PHILLIPS	LE	L 07993						05	16S	36E	651713	3647023*	4517
L 09500	L	EXP	0	NEW MEXICO OIL & CONSERVATION	LE	L 09500 POD1						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD10						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD11						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD12						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD2						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD3						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD4						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD5						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD6						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD7						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD8						05	16S	36E	651713	3647023*	4517
					LE	L 09500 POD9						05	16S	36E	651713	3647023*	4517
L 09876	L	EXP	0	DON ALLEN CONSTRUCTION	LE	L 09876				Shallow		05	16S	36E	651713	3647023*	4517
L 10037	L	PRO	0	CHARLES B. GILLESPIE, JR.	LE	L 10037				Shallow		05	16S	36E	651713	3647023*	4517
L 10603	L	DOM	3	BLAS VELASQUEZ	LE	L 10603				Shallow		05	16S	36E	651713	3647023*	4517
L 13994	L	DOM	1	RAY WILSON	LE	L 13994 POD1				Shallow	4 3 4	18	16S	36E	650459	3643073	4518
L 07845	L	DOM	3	DON SHERRARD	LE	L 07845				Shallow	4 3	08	16S	36E	651542	3644816*	4520
L 07951	L	DOM	0	JERRY SHERRARD	LE	L 07951					4 3	08	16S	36E	651542	3644816*	4520
L 03236	L	DOM	3	ALBERT FAIRWEATHER	LE	L 03236				Shallow	4 2 3	08	16S	36E	651634	3645118*	4522
L 11253	L	DOM	3	DOYLE ANDERSON	LE	L 11253				Shallow	4 2 3	08	16S	36E	651634	3645118*	4522

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 05011	L	IRR	39	CLIFF PAYNE	LE	L 05011				Shallow	2 1	4	24	16S	35E	648901	3642049*	4523
L 05469	L	IRR	42	DAISY C. CLAYTON	LE	L 05469				Shallow	4 2	4	34	15S	35E	650670	3649236*	4523
L 00150	L	IRR	343.3	G CATTLE COMPANY	LE	L 00150				Shallow	1 1	2	19	16S	36E	650265	3642879*	4526
					LE	L 00150 POD2		R			1 1	2	19	16S	36E	650265	3642879*	4526
L 10781	L	PRO	0	NEARBURG PRODUCING COMPANY	LE	L 00150				Shallow	1 1	2	19	16S	36E	650265	3642879*	4526
L 12223	L	DOM	1	LEONEL OCHOA	LE	L 12223 POD1				Shallow	3 1	3	24	16S	35E	647795	3641751	4543
L 08189	L	DOL	3	OSCAR O BORUNDA	LE	L 08189 POD2			NON		3 4	3	08	16S	36E	651536	3644719	4546
L 01054	L	DOL	3	GEORGE SPIRES	LE	L 01054				Shallow	3	1	19	16S	36E	649601	3642364*	4548
L 00268 B	L	IRR	43.8	ANTONIO DORANTES GARCIA	LE	L 00268 POD5				Shallow	4 2	1	19	16S	36E	650063	3642672*	4556
L 04659	L	DOM	3	ROSS BLACK	LE	L 04659				Shallow	3 3	4	05	16S	36E	651818	3646334*	4558
L 03770	L	DOM	3	CARTER CONSTRUCTION COMPANY	LE	L 03770							08	16S	36E	651740	3645412*	4560
L 03771	L	DOM	3	CARTER CONSTRUCTION COMPANY	LE	L 03771							08	16S	36E	651740	3645412*	4560
L 04651	L	DOM	3	DRINZEL E. CASTLEBERRY	LE	L 04651				Shallow			08	16S	36E	651740	3645412*	4560
L 00674	L	IRR	40.5	J. C. ABBOTT	LE	L 00674				Shallow	1 3	3	35	15S	35E	650880	3649041*	4562
L 01074	L	DOM	3	J.C. ABBOTT	LE	L 01074				Shallow	1 3	3	35	15S	35E	650880	3649041*	4562
L 09220	L	DOM	0	PAT FARMER	LE	L 09220					1 3	3	35	15S	35E	650880	3649041*	4562
L 00184	L	COM	26.7	ARZELL O. SELLERS	LE	L 00184		R		Shallow	1 1	2	08	16S	36E	651824	3646131*	4566
					LE	L 00184 POD2				Shallow	1 1	2	08	16S	36E	651824	3646131*	4566
L 00196 E	L	IRR	28.8	DALE RIDENOUR	LE	L 00196 POD12				Shallow	1 1	2	08	16S	36E	651824	3646131*	4566
L 00247 F	L	IRR	14.53	GLEN BOLAND	LE	L 08189			NON	Shallow	3 4	3	08	16S	36E	651535	3644633	4575
L 08189	L	DOL	3	OSCAR O BORUNDA	LE	L 08189		R	NON	Shallow	3 4	3	08	16S	36E	651535	3644633	4575
L 00053 A	L	IRR	0	JAMES F. ROBINSON	LE	L 00240				Shallow	3 1	4	05	16S	36E	651811	3646737*	4575

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L 00240	L	IRR	39.45	JAMES F. ROBINSON	LE	L 00240				Shallow	3 1	4	05	16S	36E	651811	3646737*	4575
L 00240 A	L	IRR	61.5	L. DENE STEPHENS	LE	L 00240				Shallow	3 1	4	05	16S	36E	651811	3646737*	4575
L 00240 B	L	IRR	137.7	FARM CREDIT OF NM, FLCA	LE	L 00240				Shallow	3 1	4	05	16S	36E	651811	3646737*	4575
L 00240 C	L	IRR	14.25	DANNY G. FLETCHER	LE	L 00240			R	Shallow	3 1	4	05	16S	36E	651811	3646737*	4575
L 01401	L	DOL	3	FLOYD GREER	LE	L 01401				Shallow	3 1	4	05	16S	36E	651811	3646737*	4575
L 04176	L	DOM	3	O L LAIRD	LE	L 04176				Shallow	3 1	2	08	16S	36E	651824	3645931*	4576
L 04693	L	SRO	0	SHELL OIL COMPANY	LE	L 04693					1	1	16	16S	35E	643117	3644305*	4582
L 02607	L	DOM	3	ELCINY JENKINS	LE	L 02607					2	4 3	08	16S	36E	651641	3644915*	4584
L 10674	L	PRO	3	JOHN L. BISSETT	LE	L 10674				Shallow		3 3	35	15S	35E	650981	3648942*	4584
L 00053	L	IRR	44.4	LARRY OVERCAST	LE	L 00053				Shallow	1 1	4	05	16S	36E	651811	3646937*	4600
L 00053 A	L	IRR	0	JAMES F. ROBINSON	LE	L 00053			R	Shallow	1 1	4	05	16S	36E	651811	3646937*	4600
L 00053 C	L	IRR	44.4	RAY HARDY	LE	L 00053			R	Shallow	1 1	4	05	16S	36E	651811	3646937*	4600
L 07632	L	DOM	3	LARRY OVERCAST	LE	L 07632				Shallow	1 1	4	05	16S	36E	651811	3646937*	4600
L 01622	L	IRR	0	E.L. HARROD	LE	L 01622					2	4	05	16S	35E	642679	3646715*	4602
L 00196	L	IRR	51.9	J.B. SELMAN	LE	L 00196				Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
					LE	L 00196 S2				Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 A	L	IRR	60	J.C. ABBOTT	LE	L 00196			R	Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 B	L	IRR	0	JOHNNY B. BROWN	LE	L 00196			R	Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 BA	L	IRR	12	MELVIN DICKERSON	LE	L 00196				Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 C	L	IRR	83.1	A.L. HAHN	LE	L 00196				Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 CA	L	IRR	28.8	MARTIN PETERSON	LE	L 00196			R	Shallow	1 3	2	08	16S	36E	651831	3645728*	4602
L 00196 CB	L	IRR	27.3	RANDY GANDY	LE	L 00196				Shallow	1 3	2	08	16S	36E	651831	3645728*	4602

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L 00196 D	L	IRR	28.8	LLOYD D. BOLAND	LE	L 00196		R		Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
					LE	L 00196 POD8				Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
L 00196 E	L	IRR	28.8	DALE RIDENOUR	LE	L 00196		R		Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
L 00196 F	L	IRR	27.6	GANDY FAMILY TRUST	LE	L 00196				Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
L 00196 G	L	IRR	15	CECIL HALSELL	LE	L 00196				Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
					LE	L 00196 S2				Shallow	1	3	2	08	16S	36E	651831	3645728*	4602
L 13203	L	DOM	0	MICHAEL T BREWER JR	LE	L 13203 POD1					2	4	4	23	16S	35E	647739	3641686	4602
L 10381	L	PRO	0	BTA OIL PRODUCERS	LE	L 10381				Shallow		3	4	30	15S	35E	645317	3650445*	4610
L 08113	L	DOM	3	RANDY A DUNCAN	LE	L 08113 POD2				Shallow		3	2	08	16S	36E	651825	3645540	4622
L 13746	L	DOL	3	LESLIE NICOLE BALTAZAR	LE	L 13746 POD1			NON	Shallow	3	4	4	18	16S	36E	650553	3643011	4629
L 07510	L	DOL	3	P D BLACKBURN	LE	L 07510				Shallow	3	3	2	08	16S	36E	651831	3645528*	4630
L 08113	L	DOM	3	RANDY A DUNCAN	LE	L 08113		R		Shallow	3	3	2	08	16S	36E	651831	3645528*	4630
L 08208	L	DOM	3	JERRY HARAGON	LE	L 08208				Shallow	3	3	2	08	16S	36E	651831	3645528*	4630
L 14659	L	DOL	3	RACHEL BARNETT	LE	L 14659 POD1	2225A			Shallow	2	4	1	19	16S	36E	650071	3642584	4630
L 00442	L	IRR	230.64	MICHAEL T. BREWER, JR.	LE	L 00442 POD2				Shallow	1	3	4	23	16S	35E	647098	3641625*	4641
L 00340	L	IRR	423.6	GLEN M. WIESER	LE	L 00340 POD8						4	4	3	08	16S	36E	651641	3644715*	4647
L 01457	L	DOM	3	O R WEAVER	LE	L 01457				Shallow	4	4	3	08	16S	36E	651641	3644715*	4647
L 03298	L	DOM	3	JACK WEBB	LE	L 03298				Shallow	4	4	3	08	16S	36E	651641	3644715*	4647
L 03373	L	DOM	3	GEORGE JOHNSTON	LE	L 03373				Shallow	4	4	3	08	16S	36E	651641	3644715*	4647
L 05380	L	DOM	3	ROY J PRICE	LE	L 05380				Shallow	4	4	3	08	16S	36E	651641	3644715*	4647
L 06976	L	DOM	3	VERNON J RIGGLE II	LE	L 06976					4	4	3	08	16S	36E	651641	3644715*	4647
L 13145	L	DOL	3	ZACK WIESER	LE	L 13145 POD1				Shallow	3	1	4	08	16S	36E	651746	3645049	4648

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q 4	Sec	Tws	Rng	X	Y	Distance
L 04609	L	DOM	0	GEORGE WAYNE SUMRULD	LE	L 04609					3	4	4	18	16S	36E	650661	3643089*	4653
L 10120	L	PRO	0	BRIDGE OIL COMPANY L.P.	LE	L 10120				Shallow	3	4	2	34	15S	35E	650464	3649638*	4653
L 07048	L	DOL	3	JIM FLOYD	LE	L 07048						1	3	28	15S	35E	647726	3650894*	4653
L 00442	L	IRR	230.64	MICHAEL T. BREWER, JR.	LE	L 00442 S2				Shallow	2	4	4	23	16S	35E	647700	3641630*	4654
L 06982	L	DOL	3	DOWLE TAYLOR	LE	L 06982				Shallow		4	4	18	16S	36E	650762	3643190*	4660
L 00150	L	IRR	343.3	G CATTLE COMPANY	LE	L 00150 POD4				Shallow		1	2	19	16S	36E	650366	3642780*	4667
L 08926	L	DOM	3	WILLIAM N. KEETH	LE	L 08926				Shallow	1	3	2	05	16S	36E	651804	3647339*	4669
L 00196 CA	L	IRR	28.8	MARTIN PETERSON	LE	L 00196 POD14				Shallow		1	2	08	16S	36E	651925	3646032*	4671
L 07354	L	DOM	3	A L HAHN	LE	L 07354						1	2	08	16S	36E	651925	3646032*	4671
L 08296	L	DOM	3	JOE D PETERSON	LE	L 08296				Shallow		1	2	08	16S	36E	651925	3646032*	4671
L 10139	L	DOM	0	OTTO JESSIE WEGNER	LE	L 10139						1	2	08	16S	36E	651925	3646032*	4671
L 07063	L	DOL	3	ODELL BLACK	LE	L 07063				Shallow	2	4	4	18	16S	36E	650861	3643289*	4671
L 08464	L	DOL	3	CAROL SUE GRAHAM	LE	L 08464				Shallow	1	3	3	24	16S	35E	647903	3641636*	4672
L 00340	L	IRR	423.6	GLEN M. WIESER	LE	L 00340			R	Shallow	1	1	4	08	16S	36E	651838	3645326*	4673
L 00150	L	IRR	343.3	G CATTLE COMPANY	LE	L 00150 S				Shallow	3	1	2	19	16S	36E	650265	3642679*	4678
L 10753	L	PRO		CHESAPEAKE OPERATING INC.	LE	L 00150 S				Shallow	3	1	2	19	16S	36E	650265	3642679*	4678
L 06716	L	STK	3	BERENICE HAMILTON	LE	L 06716				Shallow			4	28	15S	35E	648738	3650707*	4682
L 07709	L	DOM	3	BILLY WAYNE BOSS	LE	L 07709				Shallow		1	4	05	16S	36E	651912	3646838*	4687
L 02567	L	PRO	0	DRILLING & EXPLORATION CO	LE	L 02567				Shallow	3	2	2	08	16S	35E	642590	3645809*	4691
L 04666	L	PUB	0	E.L. HARROD	LE	L 04666					3	2	2	08	16S	35E	642590	3645809*	4691
L 09306	L	STK	0	READING & BATES PETROLEUM CO.	LE	L 09306				Shallow	4	1	4	24	16S	35E	648901	3641849*	4710
L 13984	L	DOM	1	APRIL BROWN	LE	L 13984 POD1				Shallow	4	4	3	08	16S	36E	651705	3644697	4713

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L 09733	L	DOM	3	IMOGENE MCCLURE	LE	L 09733				Shallow	3	2		08	16S	36E	651932	3645629*	4715
L 02914	L	PRO	0	HUMBLE OIL & REFINING COMPANY	LE	L 02914					3	4	3	36	15S	34E	643217	3648696*	4717
L 00268 C	L	IRR	16.2	JOE GRADO	LE	L 00268 POD6				Shallow	2	4	1	19	16S	36E	650069	3642469*	4721
L 02783	L	DOM	3	VERNON N KEY	LE	L 02783				Shallow	2	4	1	19	16S	36E	650069	3642469*	4721
L 06439	L	DOL	3	JOE GRADO	LE	L 06439					2	4	1	19	16S	36E	650069	3642469*	4721
L 02926	L	PRO	0	HUMBLE OIL COMPANY	LE	L 02926				Shallow	1	1	4	36	15S	34E	643614	3649306*	4747
L 14259	L	DOM	1	MARTIN T GARCIA	LE	L 14259 POD1				Shallow	4	3	2	08	16S	36E	651966	3645581	4756
L 00340	L	IRR	423.6	TERRI F. WIESER	LE	L 00340 POD5				Shallow	3	4	4	08	16S	36E	651735	3644649	4758
L 00340 A	L	IRR	0	GLEN M. WIESER	LE	L 00340 POD5				Shallow	3	4	4	08	16S	36E	651735	3644649	4758
L 00340 B	L	REC	0	GLEN M. WIESER	LE	L 00340 POD5				Shallow	3	4	4	08	16S	36E	651735	3644649	4758
L 00240 C	L	IRR	14.25	DANNY G. FLETCHER	LE	L 08676				Shallow	4	3	4	05	16S	36E	652018	3646334*	4758
L 08676	L	DOL	3	EDDIE ROBINSON	LE	L 08676				Shallow	4	3	4	05	16S	36E	652018	3646334*	4758
L 11204	L	DOM	3	JACKIE BREWER	LE	L 11204				Shallow	4	3	4	05	16S	36E	652018	3646334*	4758
L 07273	L	IRR	0	PHIL SMITH	LE	L 08312				Shallow		2	2	05	16S	35E	642667	3647519*	4760
L 08312	L	IRR	143.97	KIRESTIE ANN JACKSON	LE	L 08312				Shallow		2	2	05	16S	35E	642667	3647519*	4760
L 09784	L	DOL	3	MARTIN PETERSON	LE	L 09784				Shallow	2	1	2	08	16S	36E	652024	3646131*	4766
L 11480	L	STK	0	DALE BOLAND	LE	L 11480					2	1	2	08	16S	36E	652024	3646131*	4766
L 08715	L	DOM	0	SUSAN TUCKER	LE	L 08715					1	1	2	05	16S	36E	651798	3647742*	4773
L 13937	L	DOM	1	RAMON VASQUEZ	LE	L 13937 POD1					2	3	3	35	15S	35E	651094	3649121	4782
L 08028	L	DOM	3	WILLIE J NORRELL	LE	L 08028				Shallow		3	3	24	16S	35E	648004	3641537*	4785
L 10911	L	DOM	3	JOHN NORRIS	LE	L 10911				Shallow		3	3	24	16S	35E	648004	3641537*	4785
L 00053 BA	L	COM	13.2	FANNIE LEE MITCHELL OF TEXAS	LE	L 00053 S			R	Shallow	2	1	4	05	16S	36E	652011	3646937*	4798

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L 00053 C	L	IRR	44.4	RAY HARDY	LE	L 00053 POD5				Shallow	2 1	4	05	16S	36E	652011	3646937*	4798
L 05012	L	DOM	3	J B ANDERSON	LE	L 00053 S				Shallow	2 1	4	05	16S	36E	652011	3646937*	4798
L 06963	L	DOM	3	RICKY JONES	LE	L 06963				Shallow	4 4	4	18	16S	36E	650861	3643089*	4801
L 00209	L	IRR	438.51	GLENDON R. BOLAND	LE	L 00209 POD4				Shallow	4 2	1	17	16S	36E	651647	3644312*	4802
L 00209 F	L	IRR	24.3	DEEDRA TERRELL	LE	L 00209 POD4				Shallow	4 2	1	17	16S	36E	651647	3644312*	4802
L 00110	L	IRR	66	ERNEST L. ANDERSON	LE	L 00110 POD4			R	Shallow	1 1	3	35	15S	35E	650874	3649443*	4813
L 02918	L	PRO	0	GUY MABEE DRILLING COMPANY	LE	L 02918				Shallow	2 2	2	17	16S	35E	642815	3644399*	4820
L 08491	L	DOM	3	M C KING	LE	L 08491					3 3		23	16S	35E	646393	3641517*	4825
L 05909	L	DOM	3	PATTERSON CONSTRUCTION	LE	L 05909				Shallow	4 3	2	08	16S	36E	652031	3645528*	4827
L 05910	L	DOM	3	PATTERSON CONSTRUCTION	LE	L 05910				Shallow	4 3	2	08	16S	36E	652031	3645528*	4827
L 05964	L	DOM	3	PATTERSON CONSTRUCTION CO	LE	L 05964				Shallow	4 3	2	08	16S	36E	652031	3645528*	4827
L 06008	L	DOM	3	PATTERSON CONSTRUCTION CO	LE	L 06008					4 3	2	08	16S	36E	652031	3645528*	4827
L 07587	L	DOM	3	MERL NELSON	LE	L 07587				Shallow	4 3	2	08	16S	36E	652031	3645528*	4827
L 07963	L	DOM	3	WESTERN COMMERCE BANK	LE	L 07963					4 3	2	08	16S	36E	652031	3645528*	4827
L 00340	L	IRR	423.6	GLEN M. WIESER	LE	L 00340 POD4			R	Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
					LE	L 00340 S				Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
L 00340 A	L	IRR	0	TERRI F. WIESER	LE	L 00340 POD4			R	Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
					LE	L 00340 S				Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
L 00340 B	L	REC	0	TERRY F. WIESER	LE	L 00340 POD4			R	Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
					LE	L 00340 S				Shallow	3 3	4	08	16S	36E	651845	3644723*	4837
L 07444	L	EXP	0	G CATTLE CO	LE	L 07444				Shallow	1 3	2	19	16S	36E	650271	3642476*	4839
L 08665	L	DOL	3	RUSSELL A CHANCELLOR	LE	L 08665				Shallow		1 2	05	16S	36E	651899	3647643*	4840

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

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 09387	L	DOM	3	MICHAEL MANLEY	LE	L 09387				Shallow	1	2	05	16S	36E	651899	3647643*	4840
L 00442	L	IRR	230.64	MICHAEL T. BREWER, JR.	LE	L 00442 S				Shallow	3 4	4	23	16S	35E	647500	3641430*	4840
L 05497	L	DOM	3	CLIFF PAYNE	LE	L 05497				Shallow		4	24	16S	35E	649009	3641748*	4843
L 13299	L	DOM	1	IRMA GALVAN RAMIREZ	LE	L 13299 POD1				Shallow	3 3	1	35	15S	35E	650814	3649579	4861
L 13293	L	DOM	0	NICOLAS HERNANDEZ IBARRA	LE	L 13293			NA		3 3	1	35	15S	35E	650788	3649609	4862
L 10372	L	DOM	3	BILLY E. SEELIG	LE	L 10372				Shallow		3	35	15S	35E	651182	3649143*	4865
L 13146	L	DOL	3	RICHARD M TRUETT	LE	L 13146 POD1				Shallow	2 1	4	05	16S	36E	652064	3647038	4866
L 14512	L	DOM	1	KATHERINE WIESER	LE	L 14512 POD1	20775			Shallow	1 3	4	08	16S	36E	651932	3644877	4874
L 00052	L	IRR	35.49	CECIL D. LEE	LE	L 00052				Shallow		4	05	16S	36E	652120	3646636*	4874
L 00240 B	L	IRR	137.7	CAVITT LAND AND CATTLE, LLC.	LE	L 00240 POD3	20748					4	05	16S	36E	652120	3646636*	4874
L 04884	L	DOM	3	H W CARSON	LE	L 04884				Shallow		4	05	16S	36E	652120	3646636*	4874
L 04902	L	DOM	3	WELDA SNEAD	LE	L 04902				Shallow		4	05	16S	36E	652120	3646636*	4874
L 04903	L	DOM	3	H N MCDANIEL	LE	L 04903				Shallow		4	05	16S	36E	652120	3646636*	4874
L 05173	L	DOM	0	HAMMEL CARRELL	LE	L 05173						4	05	16S	36E	652120	3646636*	4874
L 05520	L	DOM	3	VOY J CUMMINGS	LE	L 05520				Shallow		4	05	16S	36E	652120	3646636*	4874
L 05962	L	DOM	3	BOB THOMAS	LE	L 05962			1801 W MADISON AVE, LOVINGTON	Shallow		4	05	16S	36E	652120	3646636*	4874
L 06590	L	DOM	3	CECIL LEE	LE	L 06590				Shallow		4	05	16S	36E	652120	3646636*	4874
L 06804	L	DOM	3	HOWARD STRAWN	LE	L 06804				Shallow		4	05	16S	36E	652120	3646636*	4874
L 08218	L	DOM	3	JOHN K FALKNER	LE	L 08218				Shallow		4	05	16S	36E	652120	3646636*	4874
L 08274	L	DOL	3	JOHN W STOKES	LE	L 08274				Shallow		4	05	16S	36E	652120	3646636*	4874
L 08705	L	DOL	3	MARK OWENS	LE	L 08705				Shallow		4	05	16S	36E	652120	3646636*	4874

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance
L 09457	L	DOM	0	ALFRED HARDY	LE	L 09457							4	05	16S	36E	652120	3646636*	4874
L 10244	L	DOM	3	SYLVIA J. BYRD	LE	L 10244				Shallow			4	05	16S	36E	652120	3646636*	4874
L 11023	L	STK	3	RAY HARDY	LE	L 11023				Shallow			4	05	16S	36E	652120	3646636*	4874
L 10441	L	DOM	3	ABELARDO A. VILLA	LE	L 10441				Shallow	1	4	3	35	15S	35E	651283	3649048*	4892
L 00196	L	IRR	51.9	J.B. SELMAN	LE	L 00196 S1							2	08	16S	36E	652133	3645830*	4892
L 00196 A	L	IRR	60	J.C. ABBOTT	LE	L 00196 POD6		R		Shallow			2	08	16S	36E	652133	3645830*	4892
L 00196 AA	L	IRR	90	KACEY L. HOLT	LE	L 00196 POD6		R		Shallow			2	08	16S	36E	652133	3645830*	4892
L 00196 AB	L	IRR	17.7	STEPHEN L. ACKERMAN	LE	L 00196 POD6		R		Shallow			2	08	16S	36E	652133	3645830*	4892
L 00196 G	L	IRR	15	CECIL HALSELL	LE	L 00196 S1							2	08	16S	36E	652133	3645830*	4892
L 10255	L	STK	3	DAINA PAINTER	LE	L 10255				Shallow			2	08	16S	36E	652133	3645830*	4892
L 13623	L	DOL	0	BEATRIZ PAISAN	LE	L 13623 POD1			NON		1	1	2	05	16S	36E	651774	3648170	4900
L 07067	L	STK	3	ALICE J SUMRULD	LE	L 07067				Shallow	4	3	3	24	16S	35E	648103	3641436*	4901
L 08935	L	DOM	0	DEWAYNE ROGERS	LE	L 08935					4	1	2	05	16S	36E	651998	3647542*	4907
L 09370	L	DOM	3	BRENDA BRINDLE	LE	L 09370				Shallow	4	1	2	05	16S	36E	651998	3647542*	4907
L 09433	L	DOM	3	MANUEL GOMEZ	LE	L 09433				Shallow	4	1	2	05	16S	36E	651998	3647542*	4907
L 00209 D	L	IRR	9.39	GLENDON BOLAND	LE	L 00209 POD8				Shallow	1	1	2	17	16S	36E	651851	3644520*	4911
L 00209 E	L	IRR	16.2	LYNDA I. BOLAND	LE	L 00209 POD8				Shallow	1	1	2	17	16S	36E	651851	3644520*	4911
L 07757	L	DOM	3	BERRY LEE HOBBS	LE	L 07757				Shallow	1	1	2	17	16S	36E	651851	3644520*	4911
L 14654	L	DOL	3	SHANE C NOACK	LE	L 14654 POD1	22229				4	3	2	08	16S	36E	652121	3645536	4915
L 00110	L	IRR	66	ERNEST L. ANDERSON	LE	L 00110		R		Shallow		4	3	35	15S	35E	651384	3648949*	4921
					LE	L 00110 POD6				Shallow		4	3	35	15S	35E	651384	3648949*	4921
L 00110 A	L	IRR	0	ERNEST L. ANDERSON	LE	L 00110		R		Shallow		4	3	35	15S	35E	651384	3648949*	4921

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

(acre ft per annum)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 00110 C	L	IRR	282	HORIZON NORTH CORPORATION	LE	L 00110 POD6				Shallow	4	3	35	15S	35E	651384	3648949*	4921
L 00110 CA	L	IRR	34.8	SANDRA L. FISHER	LE	L 00110 POD6				Shallow	4	3	35	15S	35E	651384	3648949*	4921
L 00110 D	L	IRR	26.4	ULEN A. NORTH III	LE	L 00110 POD6				Shallow	4	3	35	15S	35E	651384	3648949*	4921
L 08143	L	DOL	3	ARCHIE BYRD	LE	L 08143				Shallow	4	3	35	15S	35E	651384	3648949*	4921
L 12023	L	DOM	1	TERRI WIESER	LE	L 12023 POD1				Shallow	4	1 4	08	16S	36E	652049	3645134	4921
L 01950	L	PRO	3	GEORGE SUMRULD	LE	L 01950					3	4 3	24	16S	35E	648305	3641441*	4935
L 10413	L	DOM	3	JOE R. STEWART	LE	L 10413			R	Shallow			05	16S	36E	652161	3646881	4940
					LE	L 10413 POD2				Shallow			05	16S	36E	652161	3646881	4940
L 00110	L	IRR	66	ERNEST L. ANDERSON	LE	L 00110 S			R	Shallow	3	3 1	35	15S	35E	650867	3649646*	4944
L 00110 A	L	IRR	0	ERNEST L. ANDERSON	LE	L 00110 S				Shallow	3	3 1	35	15S	35E	650867	3649646*	4944
L 08849	L	DOM	3	K. L. COLSTON	LE	L 08849				Shallow	4	4 3	35	15S	35E	651483	3648848*	4951
L 10796	L	PRO	3	WILMA FORT	LE	L 10796				Shallow	4	3 1	28	15S	35E	647819	3651195*	4962
L 05835	L	DOL	3	JAMES F ROBINSON	LE	L 05835				Shallow	3	4 4	05	16S	36E	652222	3646342*	4963
L 09529	L	DOM	3	LIBRADO VEGA	LE	L 09529				Shallow	2	1 2	05	16S	36E	651998	3647742*	4963
L 09669	L	DOM	3	RAGELIO VALDEZ	LE	L 09669				Shallow	2	1 2	05	16S	36E	651998	3647742*	4963
L 12516	L	DOM	1	ARGELIA BISCAINO	LE	L 12516 POD1				Shallow	3	1 2	05	16S	36E	651794	3648297	4969
L 00240	L	IRR	39.45	JAMES F. ROBINSON	LE	L 00240 S				Shallow	3	2 4	05	16S	36E	652216	3646744*	4979
L 00240 A	L	IRR	61.5	L. DENE STEPHENS	LE	L 00240 S				Shallow	3	2 4	05	16S	36E	652216	3646744*	4979
L 00240 B	L	IRR	137.7	CAVITT LAND AND CATTLE, LLC.	LE	L 00240 S				Shallow	3	2 4	05	16S	36E	652216	3646744*	4979
L 00240 C	L	IRR	14.25	DANNY G. FLETCHER	LE	L 00240 S			R	Shallow	3	2 4	05	16S	36E	652216	3646744*	4979
L 03212	L	DOM	3	H.L. MILLER	LE	L 03212				Shallow	3	2 4	05	16S	36E	652216	3646744*	4979
L 07500	L	STK	3	RAY HARDY	LE	L 07500				Shallow	3	2 4	05	16S	36E	652216	3646744*	4979

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

(acre ft per annum)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code Grant	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance
L 02921	L	PRO	0	HALL & STEWART DRILLING CO	LE	L 02921			Shallow	1	2	08	16S	35E	642291	3645905*	4981
L 00055	L	IRR	120	DEWEY KOSLOSKY	LE	L 00055 S			Shallow		2	05	16S	36E	652106	3647441*	4987
L 00092	L	IRR	193.26	VMJ OILFIELD SERVICE, INC.	LE	L 00092 S			Shallow		2	05	16S	36E	652106	3647441*	4987
L 00092 A	L	IRR	2	BRYANT CARLTON POPE	LE	L 00092 S		R	Shallow		2	05	16S	36E	652106	3647441*	4987
L 00092 B	L	IRR	12	POPE FAMILY TRUST	LE	L 00092 S			Shallow		2	05	16S	36E	652106	3647441*	4987
L 00970	L	DOM	3	W.B. PHILLIPS	LE	L 00970 POD1			Shallow		2	05	16S	36E	652106	3647441*	4987
L 08707	L	DOM	3	RAMIRO LEYVA	LE	L 08707			Shallow		2	05	16S	36E	652106	3647441*	4987
L 08847	L	DOM	3	ROBERT LITTLEFIELD	LE	L 08847			Shallow		2	05	16S	36E	652106	3647441*	4987
L 08872	L	DOM	3	BOBBY ROGERS	LE	L 08872			Shallow		2	05	16S	36E	652106	3647441*	4987
L 10488	L	DOM	0	KENNY GORDON	LE	L 10488					2	05	16S	36E	652106	3647441*	4987
L 10489	L	STK	0	KENNY GORDON	LE	L 10489					2	05	16S	36E	652106	3647441*	4987
L 12275	L	DOL	3	ELOY GARDEA	LE	L 12275 POD1			Shallow	3	1 2	05	16S	36E	651730	3648478	4988

Record Count: 711

UTMNAD83 Radius Search (in meters):

Easting (X): 647259.57 **Northing (Y):** 3646264.1 **Radius:** 5000

Sorted by: Distance

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

Townsend State 5: 5306 ft to Watercourse

October 19, 2019

Wetlands

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Townsend St 5 fresh water 1921 ft

November 1, 2019

Wetlands

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

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U.S. Fish and Wildlife Service
National Wetlands Inventory

Townsend State 5: 923 ft Freshwater Pond

October 19, 2019

Wetlands

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

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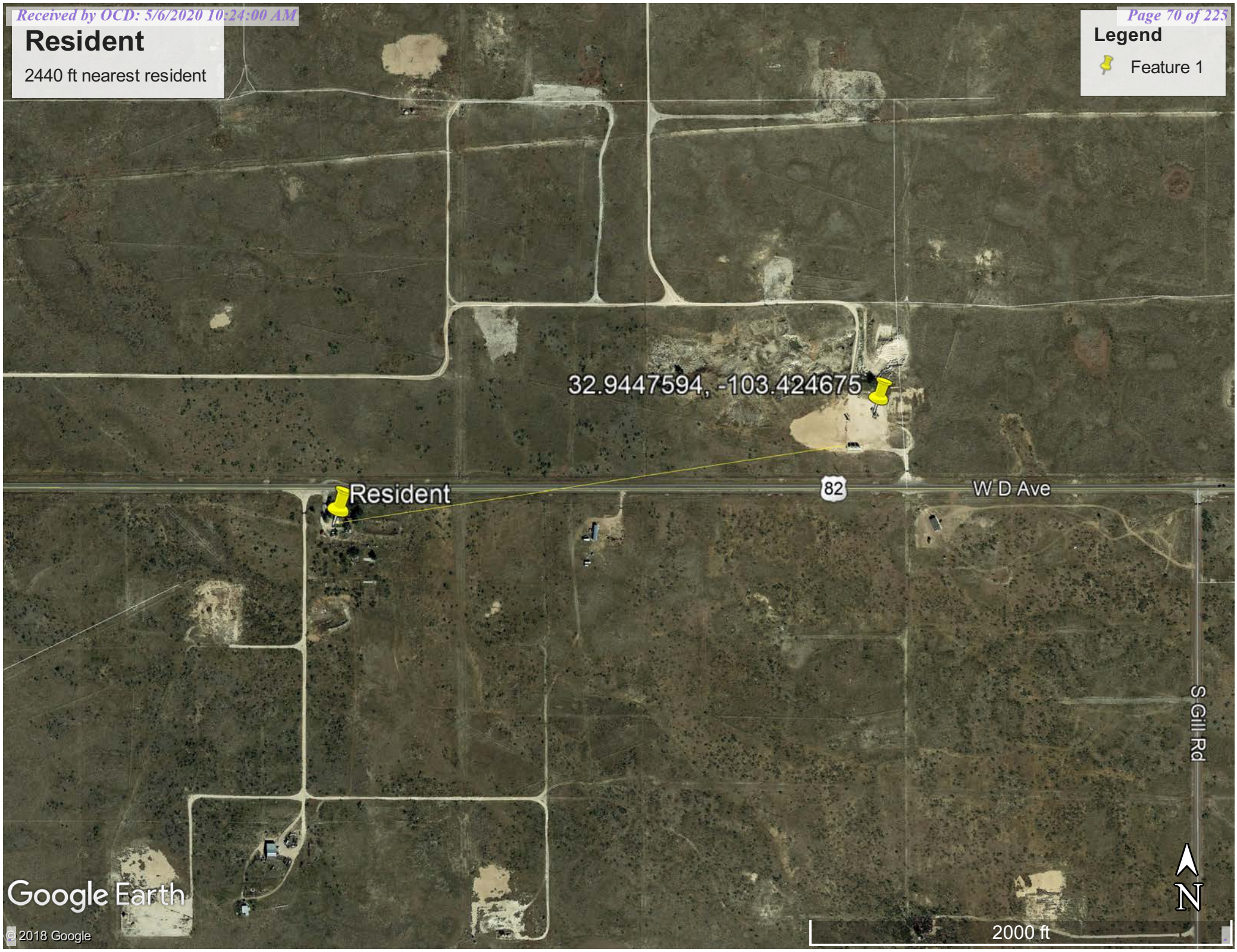
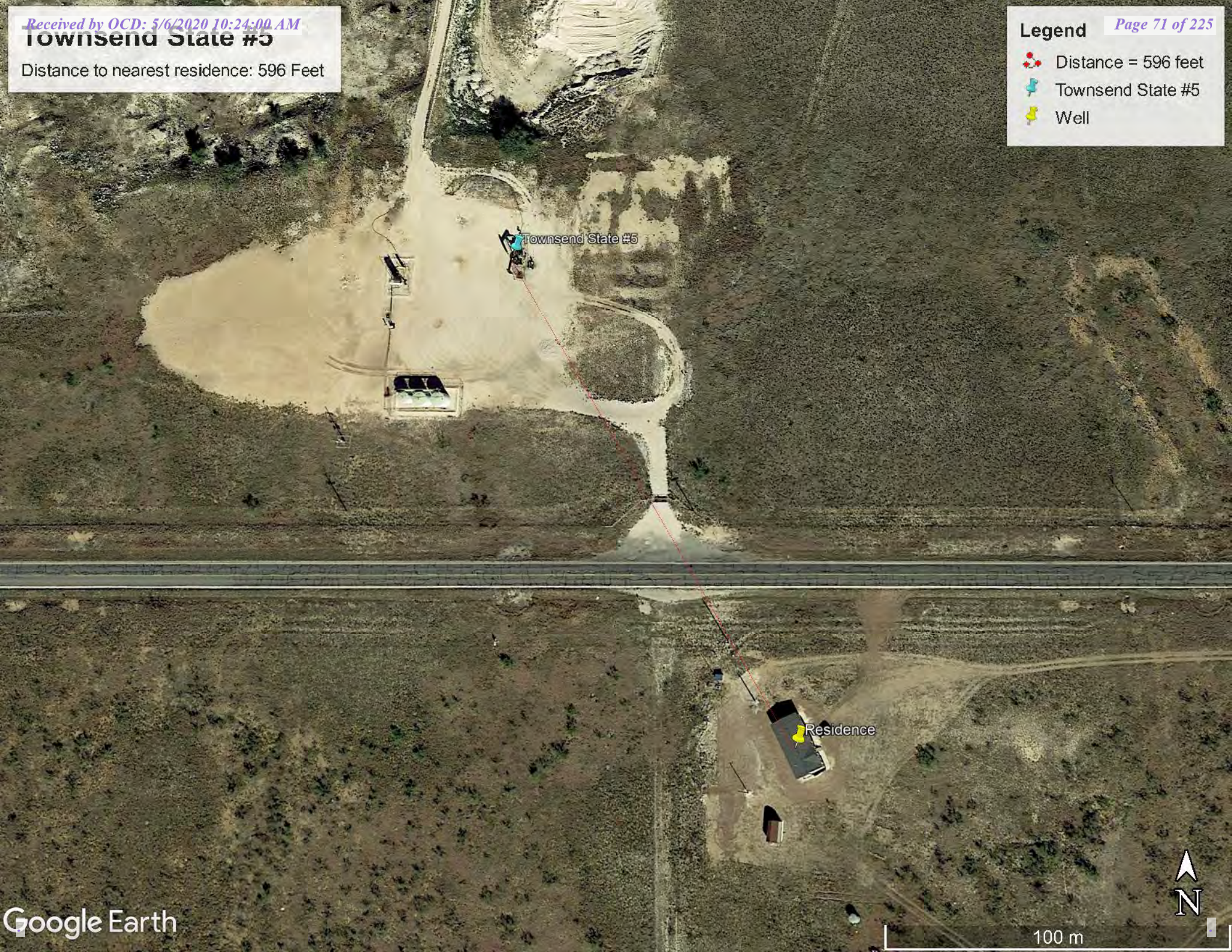

Resident
2440 ft nearest resident
Legend
Feature 1
32.9447594, -103.424675
Resident
82
W D Ave
S Gill Rd
N
2000 ft
Google Earth
© 2018 Google

Townsend State #5

Distance to nearest residence: 596 Feet



Townsend State #5

Distance to nearest water well: 897 feet

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)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	Sub-basin	County	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 00272 S2		L	LE	Shallow	1 2	2	11	16S	35E	647434	3646054*	273	04/08/1952	04/09/1952	05/01/1952	90	46	ABBOTT, FLOYD	46
L 02755		L	LE	Shallow	1	2	11	16S	35E	647134	3645949*	339	01/27/1955	01/27/1955	02/04/1955	105	55	BERNARD NELSON	46
L 14098 POD1		L	LE	Shallow	2 2	1	11	16S	35E	646856	3646038	462	03/31/2016	03/31/2016	04/07/2016	140	53	ROBERT MAUCK	1477
L 03013		L	LE	Shallow	2	4	02	16S	35E	647522	3646759*	560	11/08/1955	11/08/1955	11/17/1955	123	70	MURRELL ABBOTT	46
L 03029		L	LE	Shallow	1 3	3	01	16S	35E	647828	3646462*	601	11/18/1955	11/18/1955	11/25/1955	120	65	MURRELL ABBOTT	46
L 03170		L	LE	Shallow	1 1	1	12	16S	35E	647834	3646060*	609	04/06/1956	04/06/1956	04/12/1956	105	48	BURKE, EDWARD B.	111
L 02711		L	LE	Shallow	2	1	11	16S	35E	646733	3645944*	616	10/10/1954	10/11/1954	12/09/1954	105	51	MURRELL ABBOTT	46
L 00272		L	LE	Shallow	1 2	1	11	16S	35E	646632	3646043*	665	08/05/1948	08/10/1948	07/13/1949	80	60	ALDREDGE, C.O.	79
L 02945		L	LE	Shallow	2	3	02	16S	35E	646722	3646746*	721	07/24/1955	07/24/1955	07/28/1955	110	65	MURRELL ABBOTT	46
L 00272 S		L	LE	Shallow	3	2	11	16S	35E	647140	3645548*	726	05/09/1949	05/13/1949	09/15/1949	96	60	ALDREDGE, C.O.	79
L 03000		L	LE	Shallow			02	16S	35E	646930	3646942*	753	06/18/1955	06/18/1955	09/28/1955	105			134
L 05904 S	R	L	LE	Shallow		3	02	16S	35E	646528	3646540*	781	07/31/1974	08/06/1974	08/26/1974	150	60	O.R. MUSSELWHITE	99
L 05904 S2	R	L	LE	Shallow		3	02	16S	35E	646528	3646540*	781	04/19/1972	04/21/1972	07/16/1980	120	60	MURRELL ABBOTT	46
L 03092		L	LE	Shallow	1	3	01	16S	35E	647922	3646765*	830	01/26/1956	01/26/1956	04/05/1956	120	65	MURRELL ABBOTT	46
L 02958		L	LE	Shallow	4	1	11	16S	35E	646738	3645542*	890	08/09/1955	08/10/1955	08/31/1955	101	45	TATUM, CLAUDE E.	33
L 03164		L	LE	Shallow		3	01	16S	35E	648130	3646564*	920	03/26/1956	03/26/1956	04/05/1956	120	65	ABBOTT, MURRELL	46

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(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	Sub-basin	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 02727		L	LE	Shallow	3	3		02	16S	35E	646327	3646339*	935	12/23/1954	12/23/1954	01/19/1955	107	60	MURRELL ABBOTT	46
L 10594		L	LE	Shallow	3	3	1	01	16S	35E	647814	3647067*	975	09/10/1996	10/02/1996	10/21/1996	136	40	ABBOTT, FLOYD	46
L 00272 S3		L	LE	Shallow	1	1	4	11	16S	35E	647044	3645245*	1041	05/10/1989	05/10/1989	05/24/1989	90	45	ABBOTT, FLOYD	46
L 02860		L	LE	Shallow		1	3	02	16S	35E	646322	3646739*	1050	04/29/1955	04/29/1955	05/05/1955	112	55	MURRELL ABBOTT	46
L 03214		L	LE	Shallow		4	3	01	16S	35E	648331	3646370*	1076	05/19/1956	05/19/1956	05/31/1956	120	50	ABBOTT, MURRELL	46
L 05904 S3	R	L	LE	Shallow			2	02	16S	35E	647316	3647355*	1092	06/17/1981	06/26/1981	08/24/1981	132		CORKY GLENN	421
L 02578		L	LE	Shallow	3	1	1	11	16S	35E	646231	3645837*	1113	07/16/1954	07/18/1954	08/06/1954	105	60		116
L 10221		L	LE	Shallow	3	1	1	11	16S	35E	646231	3645837*	1113	10/02/1991	10/02/1991	11/15/1991	133	70	EADES, GENE	982
L 03263		L	LE	Shallow		2	3	01	16S	35E	648324	3646772*	1179	07/20/1956	07/20/1956	07/25/1956	120	50	ABBOTT, MURRELL	46
L 02812		L	LE	Shallow		2	3	11	16S	35E	646744	3645141*	1235	03/14/1955	03/15/1955	03/30/1955	100	50	TATUM, CLAUDE E.	33
L 03052		L	LE	Shallow		2	3	11	16S	35E	646744	3645141*	1235	12/07/1955	12/08/1955	12/19/1955	126	60	BURKE, EDWARD B.	111
L 01851 POD2		L	LE	Shallow			1	02	16S	35E	646519	3647340*	1306	03/01/1953	03/01/1953	07/13/1960	100	65	ROY TATUM	33
L 00272 POD5		L	LE	Shallow			4	11	16S	35E	647352	3644946*	1321	06/01/1993	06/03/1993	06/11/1993	80	60	KLASSEN, JACK & PETE, J SPEARS	1082
L 05904	R	L	LE	Shallow			1	01	16S	35E	648116	3647369*	1397	04/02/1975	04/06/1975	04/18/1975	150	70	CORKY GLENN	421
L 02713		L	LE	Shallow		2	4	03	16S	35E	645915	3646737*	1425	12/13/1954	12/13/1954	12/16/1954	103	50	B M NELSON	46
L 11247		L	LE	Shallow	3	1	4	01	16S	35E	648624	3646678*	1425	08/29/2001	08/29/2001	09/13/2001	158		ROOT, FRED D.	1332
L 11297		L	LE	Shallow	1	4	4	11	16S	35E	647452	3644849*	1428	02/18/2002	02/18/2002	02/27/2002	150	48	GLENN, CLARK A."CORKY" (LD)	421
L 03357		L	LE	Shallow				01	16S	35E	648532	3646966*	1453	11/06/1956	11/06/1956	11/14/1956	120	60	MURRELL ABBOTT	46
L 03420		L	LE	Shallow				01	16S	35E	648532	3646966*	1453	01/25/1957	01/25/1957	02/06/1957	120	60	MURRELL ABBOTT	46
L 11462		L	LE	Shallow	3	2	4	03	16S	35E	645814	3646636*	1492	05/13/2003	05/14/2003	05/27/2003	140	75	THOMPSON, STEVE	1414

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L 03663 POD2	R	L	LE	Shallow	1	1	4	01	16S	35E	648624	3646878*	1496	05/16/1984	05/23/1984	05/28/1984	164	60	MURRELL ABBOTT (LD)	46
L 01385		L	LE	Shallow		1	2	12	16S	35E	648739	3645975*	1507	03/07/1952	03/11/1952	04/03/1952	100	45	TATUM, CLAUDE E.	33
L 02456		L	LE	Shallow			2	10	16S	35E	645726	3645731*	1623	01/04/1954	01/05/1954	02/03/1954	105	60		33
L 10272		L	LE	Shallow	4	2	1	01	16S	35E	648409	3647475*	1669	07/09/1992	07/11/1992	07/16/1992	120	80	ABBOTT, MURRELL	46
L 03309		L	LE	Shallow			4	01	16S	35E	648933	3646578*	1702	09/14/1956	09/14/1956	09/26/1956	120	60	MURRELL ABBOTT	46
L 07704		L	LE	Shallow	4	4	2	12	16S	33E	645601	3645421	1860	06/10/1977	06/11/1977	06/14/1977	210	135	MURRELL ABBOTT	46
L 09593		L	LE	Shallow		4	3	12	16S	35E	648357	3644761*	1861	11/29/1984	11/29/1984	12/05/1984	130		GLENN, CLARK A."CORKY" (LD)	421
L 00270		L	LE	Shallow	1	1	1	13	16S	35E	647860	3644451*	1909	04/25/1948	04/29/1948	07/13/1949	82		CLAYTON MALLETT	
L 00270 S		L	LE	Shallow	2	1	1	13	16S	35E	648060	3644451*	1981		05/04/1948	09/28/1948	82		CLAYTON MALLETT	
L 02521		L	LE	Shallow		4	4	10	16S	35E	645942	3644731*	2021	03/25/1954	03/25/1954	06/23/1955	110	50		46
L 02799		L	LE	Shallow				03	16S	35E	645305	3646931*	2065	02/27/1955	02/27/1955	03/03/1955	103	65	TOM BUDGFORTH	46
L 03090		L	LE	Shallow				03	16S	35E	645305	3646931*	2065	01/23/1956	01/24/1956	02/02/1956	110	60	BURKE, EDWARD B.	111
L 02649		L	LE	Shallow	1	1	4	10	16S	35E	645430	3645228*	2102	09/25/1954	09/25/1954	11/17/1955	122	60	STONE, JOHN C.	134
L 02385		L	LE	Shallow		4	3	03	16S	35E	645108	3646330*	2152	10/12/1953	10/13/1953	10/15/1953	105	64	BURKE, EDWARD B.	111
L 10158		L	LE	Shallow		2	3	03	16S	35E	645102	3646732*	2207	12/17/1990	02/19/1990	12/26/1990	128	40	ABBOTT, MURRELL	46
L 07187		L	LE	Shallow		3	3	06	16S	36E	649536	3646391*	2279	05/06/1974	05/07/1974	05/09/1974	112	56	E H SUMRULD	230
L 00270 S2		L	LE	Shallow	1	3	1	13	16S	35E	647866	3644049*	2296	07/10/1952	07/13/1952	07/28/1952	93	34	M.L. FULLINGIM	
L 00960 POD1		L	LE	Shallow			1	13	16S	35E	648168	3644151*	2300		11/30/1949	11/13/1950	65	44	COLLUM, STANLEY	9
L 02956		L	LE	Shallow	3	4	1	03	16S	35E	644995	3647033*	2391	08/09/1955	08/10/1955	08/15/1955	130	58	BURKE, EDWARD B.	111

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L 14252 POD1		L	LE	Shallow	2	3	1	06	16S	36E	649500	3647248	2447	04/05/2017	04/05/2017	04/12/2017	140	53	MAUCK, ROBERT	1477
L 13987 POD1		L	LE	Shallow	4	3	1	06	16S	36E	649592	3647028	2454	06/10/2016	06/10/2016	06/16/2016	141	70	ALAN G EADES	1044
L 13724 POD1		L	LE	Shallow	1	1	3	06	16S	36E	649440	3647426	2471	10/28/2014	10/29/2014	11/13/2014	125	50	KURT PORTER	1698
L 06206		L	LE	Shallow			3	06	16S	36E	649737	3646592*	2499	04/18/1968	04/20/1968	05/02/1968	70	50	CLAUDE TATUM	33
L 10577		L	LE	Shallow			3	06	16S	36E	649737	3646592*	2499	07/07/1996	07/09/1996	08/13/1997	140	52	KIDD, GARY (LD)	854
L 10628		L	LE	Shallow			3	06	16S	36E	649737	3646592*	2499	02/10/1997	02/11/1997	04/15/1997	100	55	KIZER, WILLIAM	1395
L 11149		L	LE	Shallow			3	06	16S	36E	649737	3646592*	2499	03/14/2001	03/29/2001	04/04/2001	100	55	THOMPSON, STEVE (LD)	1414
L 12324 POD1		L	LE	Shallow	3	4	1	06	16S	36E	649595	3647173	2505	11/03/2008	11/05/2008	11/26/2008	120	52	THOMPSON, STEVE (LD)	1414
L 00153 POD3		L	LE	Shallow		1	3	07	16S	36E	649556	3645184*	2537	03/14/1961	03/17/1961	03/31/1961	120	60	BACKUS, GRADY	322
L 08466		L	LE	Shallow	1	4	3	06	16S	36E	649802	3646496*	2552	05/14/1981	05/16/1981	05/21/1981	110	54		230
L 02548		L	LE	Shallow		3	3	03	16S	35E	644702	3646328*	2558	05/25/1954	05/26/1954	06/07/1954	100	60		99
L 01510 POD1		L	LE	Shallow		1	1	10	16S	35E	644708	3645925*	2574	08/12/1952	08/14/1952	09/02/1953	115	60	BARBEE, W.L.	106
L 05706		L	LE	Shallow	3	2	1	07	16S	36E	649808	3645894*	2575			09/07/1965	74	60	BACKUS, GRADY	322
L 05904 S4	R	L	LE	Shallow			1	03	16S	35E	644891	3647333*	2598	02/25/1976	02/29/1976	03/05/1976	136	60	MURRELL ABBOTT	46
L 07110		L	LE	Shallow			4	3	06	16S	36E	649903	3646397*	2646	10/10/1973	10/12/1973	12/17/1973	100	57	GRADY BACKUS	322
L 01878 POD1		L	LE	Shallow	3	3	3	03	16S	35E	644601	3646227*	2658	02/02/1953	02/02/1953	03/04/1953	110	56	TATUM, R.L.	35
L 06042		L	LE	Shallow			3	3	33	15S	35E	647758	3648881*	2663			09/29/1966	92	52		35
L 03104		L	LE	Shallow			1	06	16S	36E	649718	3647396*	2706	02/03/1956	02/04/1956	02/08/1956	125	65	ABBOTT, MURRELL	46
L 07497		L	LE	Shallow			1	06	16S	36E	649718	3647396*	2706	03/11/1976	03/13/1976	03/23/1976	100	58		657
L 12942 POD1		L	LE	Shallow	4	4	3	06	16S	36E	650018	3646347	2759	03/09/2012	03/10/2012	03/14/2012	116	50		1698

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L 10243		L	LE	Shallow	3 3	4	33	15S	35E	648462	3648794*	2801	04/08/1992	04/10/1992	04/15/1992	120	69	ABBOTT, MURRELL	46
L 10668		L	LE	Shallow	1	3	13	16S	35E	647973	3643548*	2808	05/22/1997	05/24/1997	06/25/1997	150	53	KIDD, GARY (LD)	854
L 03344		L	LE	Shallow	3	2	15	16S	35E	645548	3643922*	2900	10/28/1956	10/28/1956	11/14/1956	120	60	MURRELL ABBOTT	46
L 00447		L	LE	Shallow	2	3	13	16S	35E	648375	3643554*	2930	04/30/1948	04/30/1948	01/27/1949	75			9
L 03122		L	LE	Shallow	4 2	3	32	15S	35E	646643	3649159*	2959	03/09/1956	03/09/1956	03/23/1956	138	70	ABBOTT, MURRELL	46
L 00275		L	LE	Shallow	1 1	4	13	16S	35E	648677	3643659*	2965	02/20/1954	02/25/1954	11/18/1954	126	86	ALDREDGE, C.O.	79
L 01681 POD1		L	LE	Shallow	3	3	10	16S	35E	644725	3644719*	2968	12/03/1952	12/04/1952	02/09/1953	120		TATUM, CLAUDE E.	33
L 03697		L	LE	Shallow			06	16S	36E	650139	3646994*	2970	09/25/1957	09/25/1957	10/02/1957	118	60	MURRELL ABBOTT	46
L 03773		L	LE	Shallow			06	16S	36E	650139	3646994*	2970	01/26/1959	01/27/1959	07/20/1959	120	50	BAKER, E.B.	274
L 03862		L	LE	Shallow			06	16S	36E	650139	3646994*	2970	05/10/1958	05/12/1958	05/19/1958	95	40		134
L 09962		L	LE	Shallow			06	16S	36E	650139	3646994*	2970	10/31/1987	10/31/1987	01/28/1988	138	60	EADES, GENE	982
L 10024		L	LE	Shallow			06	16S	36E	650139	3646994*	2970	08/17/1988	08/17/1988	08/25/1988	138	60	EADES, GENE	982
L 14170 POD1		L	LE	Shallow	1 3	4	06	16S	36E	650228	3646448	2974	06/09/2017	06/09/2017	06/28/2017	145	70	KIDD, GARY	854
L 00608 S		L	LE	Shallow	3 1	3	14	16S	35E	646264	3643427*	3006	06/27/1949	06/30/1949	09/15/1949	78		C.O ALDREDGE	
L 13801 POD1		L	LE	Shallow	1 1	4	06	16S	36E	650216	3646888	3021	08/17/2015	08/17/2015	09/08/2015	168	60	GARY KIDD	854
L 07020		L	LE	Shallow	1 4	4	14	16S	35E	647476	3643239*	3032	11/13/1972	11/14/1972	11/20/1972	130	80	MURRELL ABBOTT	46
L 02386		L	LE	Shallow	4	2	09	16S	35E	644310	3645520*	3041	10/20/1953	10/21/1953	11/05/1953	114	60	BARBEE, W.L.	106
L 03018		L	LE	Shallow	1	3	33	15S	35E	647752	3649283*	3058	11/19/1955	11/21/1955	02/01/1956	116	50	MATTHEWS, J. G	181
L 00275 POD2	R	L	LE	Shallow	2 1	4	13	16S	35E	648877	3643659*	3066	12/28/1951	12/28/1951	10/28/1953	128	46	COLLUM, STANLEY C.	69
L 13370 POD1		L	LE	Shallow	1	3	13	16S	35E	647777	3643150	3156	09/26/2013	09/26/2013	10/04/2013	175		ALAN G. EADES	1044

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L 00627		L	LE	Shallow	4	2	4	31	15S	35E	645838	3649144*	3211	07/01/1948	07/31/1948	02/11/1954	70	55	MURRELL ABBOTT	46
L 03243		L	LE	Shallow		1	4	15	16S	35E	645554	3643520*	3230	06/18/1956	06/18/1956	07/05/1956	120	50	ABBOTT, MURRELL	46
L 14096 POD1		L	LE	Shallow	3	2	4	31	15S	35E	645607	3649092	3275	10/31/2016	11/02/2016	11/28/2016	171	50	DYCK, ABE	1566
L 00627 POD3		L	LE	Shallow	1	1	3	32	15S	35E	646041	3649352*	3319	10/06/1959	10/10/1959	10/29/1959	90	60	C.O. ALDREDGE	79
L 05557 S		L	LE	Shallow	2	2	3	15	16S	35E	645248	3643615*	3326	11/01/1965	11/03/1965	11/18/1965	80	51		124
L 03343		L	LE	Shallow		4	4	15	16S	35E	645965	3643121*	3399	10/28/1956	10/28/1956	11/14/1956	120	60	MURRELL ABBOTT	46
L 01799 POD1		L	LE	Shallow		1	4	04	16S	35E	643889	3646725*	3401	12/15/1952	12/17/1952	02/09/1953	110	60	TATUM, CLAUDE E.	33
L 00196 POD9		L	LE	Shallow			2	06	16S	36E	650492	3647411*	3429	10/02/1975	10/04/1975	10/08/1975	102	56	E.H. SUMRULD	230
L 10657		L	LE	Shallow	2	1	2	06	16S	36E	650213	3648017	3434	04/28/1997	04/28/1997	04/30/1997	146	60	GLENN, CLARK A."CORKY" (LD)	421
L 00387		L	LE	Shallow	1	1	2	23	16S	35E	647079	3642832*	3436	06/24/1951	06/25/1951	07/23/1951	72		STANLEY COLLUM	69
L 00387	R	L	LE	Shallow	1	1	2	23	16S	35E	647079	3642832*	3436	06/24/1951	06/25/1951	07/23/1951	72		STANLEY COLLUM	69
L 09764		L	LE	Shallow	4	4	3	13	16S	35E	648481	3643050*	3438	11/15/1985	11/15/1985	01/27/1987	122	50	EADES, GENE	982
L 10606		L	LE	Shallow	3	4	2	07	16S	36E	650620	3645506*	3444	10/17/1996	10/17/1996	10/21/1996	160	55	GLENN, CLARK A.	421
L 05557 S2		L	LE	Shallow	1	2	3	15	16S	35E	645048	3643615*	3450	04/30/1965	05/14/1965	07/28/1965	100	42		79
L 02957		L	LE	Shallow		3	1	33	15S	35E	647745	3649686*	3456	08/10/1955	08/11/1955	08/18/1955	120	65	MURRELL ABBOTT	46
L 14624 POD1		L	LE	Shallow	4	4	4	06	16S	36E	650724	3646300	3464	03/12/2019	03/12/2019	04/11/2019	161	61	FRIESSEN, JACOBO	1753
L 08892		L	LE	Shallow		2	3	15	16S	35E	645149	3643516*	3465	07/06/1983	07/08/1983	07/11/1983	86	49	SUMRULD, ELMER	230
L 08454		L	LE	Shallow	3	3	4	04	16S	35E	643793	3646221*	3466	05/07/1983	05/09/1983	07/13/1983	115	62		854
L 02794		L	LE	Shallow	1	1	2	09	16S	35E	643799	3646019*	3469	03/11/1955	03/12/1955	04/21/1955	122	50	MURRELL ABBOTT	46
L 09817		L	LE	Shallow		4	1	32	15S	35E	646538	3649663*	3474	03/25/1986	03/25/1986	05/12/1986	130	65	KIDD, GARY (LD)	854

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L 00387 POD2		L	LE	Shallow	1	1	1	24	16S	35E	647884	3642842*	3478	04/11/1964	04/12/1964	05/08/1964	100	80		281
L 00387 POD3		L	LE	Shallow	1	1	1	24	16S	35E	647884	3642842*	3478	03/20/1954	03/25/1954	11/18/1954	127	60	ALDREDGE, C.O.	79
L 02694		L	LE	Shallow	1	1	1	24	16S	35E	647884	3642842*	3478	05/07/1955	05/07/1955	05/12/1955	69	56		79
L 01690 POD1		L	LE	Shallow	3	1	2	09	16S	35E	643799	3645819*	3489	01/05/1953	01/06/1953	01/14/1953	115	50	MERRELL ABBOTT	46
L 00631		L	LE	Shallow	3	3	4	13	16S	35E	648683	3643056*	3509	02/29/1948	02/29/1948	02/28/1949	110	70	TIM JOHNSON	
L 00631	R	L	LE	Shallow	3	3	4	13	16S	35E	648683	3643056*	3509	02/29/1948	02/29/1948	02/28/1949	110	70	TIM JOHNSON	
L 00983 POD1		L	LE	Shallow	3	3	4	13	16S	35E	648683	3643056*	3509		12/31/1920	03/08/1950	64			
L 00387 POD5	R	L	LE	Shallow	2	1	1	24	16S	35E	648084	3642842*	3520	01/28/1963	02/05/1963	03/04/1963	116	48	ALDREDGE, C.O.	79
L 04154		L	LE	Shallow	2	2	2	07	16S	36E	650813	3646109*	3556	05/25/1959	05/27/1959	06/08/1959	102	65		33
L 07438		L	LE	Shallow	3	3	2	04	16S	35E	643782	3647026*	3560	10/10/1975	10/11/1975	10/17/1975	115	58	ABBOTT, MURRELL	46
L 11266		L	LE	Shallow	2	4	2	32	15S	35E	647352	3649825	3562	10/16/2001	10/16/2001	11/15/2001	170		EADES, ALAN	1044
L 13307 POD1		L	LE	Shallow	2	2	2	07	16S	36E	650840	3646184	3581	04/30/2013	05/01/2013	05/22/2013	140	77		1626
L 05363		L	LE	Shallow		1	1	24	16S	35E	647985	3642743*	3595	04/11/1964	04/12/1964	05/08/1964	85	70	PRUETT, OTIS H.	281
L 00631 S		L	LE	Shallow	4	3	4	13	16S	35E	648883	3643056*	3595	01/26/1959	01/29/1959	04/19/1960	144	85	PRUETT, OTIS H.	281
L 02618		L	LE	Shallow	1	1	4	09	16S	35E	643811	3645214*	3604	08/07/1954	08/08/1954	08/23/1954	108	50	BURKE, EDWARD B.	111
L 13218 POD4		L	LE	Shallow	3	1	3	34	15S	35E	649314	3649240	3616	12/12/2012	12/13/2012	01/10/2013	68		LEE PETERSON	1222
L 14341 POD1		L	LE	Shallow	2	2	4	06	16S	36E	650802	3647013	3621	09/10/2017	09/14/2017	10/03/2017	180	60	TRAIVS GLENN	1719
L 14421 POD1		L	LE	Shallow	4	2	4	06	16S	36E	650867	3646672	3630	05/24/2018	05/24/2018	07/30/2018	158	60	ALAN G EADES	1044
L 00387 S2		L	LE	Shallow	4	1	2	23	16S	35E	647279	3642632*	3632	03/15/1952	03/15/1952	10/02/1953	65	40	STANLEY COLLUM	69
L 00387 POD4		L	LE	Shallow	3	1	1	24	16S	35E	647884	3642642*	3675	07/20/1953	07/22/1953	08/20/1953	81	48	C.O. ALDREDGE	79

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L 13218 POD5		L	LE	Shallow	3 1	3	34	15S	35E	649401	3649266	3687	12/12/2012	12/13/2012	01/10/2013	70		LEE PETERSON	1222
L 00153 POD2		L	LE	Shallow	2 2	4	07	16S	36E	650827	3645304*	3694	08/26/1960	08/27/1960	09/06/1960	80		BACKUS, GRADY	322
L 13218 POD1		L	LE	Shallow	1 1	3	34	15S	35E	649278	3649385	3717	12/11/2012	12/12/2012	01/10/2013	70		LEE PETERSON	1222
L 03141		L	LE	Shallow	2 3	3	31	15S	35E	644624	3648919*	3740	03/25/1956	03/25/1956	03/29/1956	130	65	ABBOTT, MURRELL	46
L 03058		L	LE	Shallow	3	3	31	15S	35E	644525	3648820*	3743	12/13/1955	12/13/1955	12/21/1955	85	71	STONE, JOHN C.	134
L 03083		L	LE	Shallow	3	3	31	15S	35E	644525	3648820*	3743			02/25/1957	85	73	STONE, JOHN C.	134
L 00967 POD1		L	LE	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749			12/02/1949	75			33
L 01319	R	L	LE	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749	12/23/1951	12/24/1951	02/18/1952	103	65	TATUM, CLAUDE E.	33
L 02465	R	L	LE	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749	02/20/1954	02/23/1954	03/03/1954	100	65		79
L 02465 POD2		L	LE	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749	10/19/1988	10/19/1988	11/04/1988	145	120		1044
L 02910		L	LE	Shallow	3 3	3	05	16S	36E	651009	3646319*	3749	09/07/1993	09/10/1993	09/15/1993	120	63	EARL ELLISON	1235
L 13218 POD2		L	LE	Shallow	4 1	3	34	15S	35E	649441	3649314	3750	12/11/2012	12/12/2012	01/10/2013	70		LEE PETERSON	1222
L 03385		L	LE	Shallow	1 3	3	05	16S	36E	651009	3646519*	3758	03/05/1957	03/05/1957	03/08/1957	100	55	SUMRULD, ELMER	230
L 09346		L	LE	Shallow	1 3	3	05	16S	36E	651009	3646519*	3758	11/30/1983	11/30/1983	01/23/1984	126	70	EADES, GENE	982
L 00160		L	LE	Shallow	1 1	1	08	16S	36E	651016	3646116*	3759	05/29/1963	05/30/1963	07/08/1963	95	65	ALDREDGE, C.O.	79
L 02270		L	LE	Shallow		4 3	04	16S	35E	643490	3646319*	3769	07/10/1953	07/12/1953	09/28/1953	85	58	TATUM, ROY	35
L 09579		L	LE	Shallow	3 1	3	05	16S	36E	651002	3646721*	3770	11/05/1984	11/05/1984	11/14/1984	150	50	GLENN, CLARK A.	421
L 01856		L	LE	Shallow	2 1	2	24	16S	35E	648889	3642854*	3779	07/10/1963	07/10/1963	08/05/1963	100	65		185
L 13218 POD3		L	LE	Shallow	2 1	3	34	15S	35E	649425	3649370	3786	12/11/2012	12/12/2012	01/10/2013	72		LEE PETERSON	1222
L 01033 POD1		L	LE	Shallow	4 4	4	13	16S	35E	649286	3643062*	3789	11/24/1950	11/25/1950	12/15/1950	70	50	COLLUM, STANLEY C.	69

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L 09262		L	LE	Shallow	1	1	3	05	16S	36E	651002	3646921*	3799	07/01/1983	07/01/1983	07/08/1983	120	60	GLENN, CLARK A."CORKY" (LD)	421
L 08616		L	LE			2	3	04	16S	35E	643484	3646722*	3803	12/05/1981	12/08/1981	12/28/1981	120		GLENN, CLARK A."CORKY" (LD)	421
L 13218 POD6		L	LE	Shallow	3	1	2	34	15S	35E	649507	3649343	3812	09/24/2015	09/24/2015	10/05/2015	70		BRYAN, EDWARD	1711
L 12959 POD1		L	LE	Shallow	2	3	1	24	16S	35E	648013	3642513	3825	05/15/2012	05/16/2012	05/21/2012	140	47		1477
L 00275 POD4		L	LE	Shallow		1	2	24	16S	35E	648790	3642755*	3828	02/03/1956	02/04/1956	08/19/1960	135	60	CAYTON, JACK/BACKUS	183
L 07508		L	LE	Shallow		4	2	33	15S	35E	648953	3649708*	3837	04/10/1976	04/12/1976	04/15/1976	95	61	SUMRULD, ELMER	230
L 00718 S		L	LE	Shallow				18	16S	36E	650192	3643772*	3848	09/16/1963	09/17/1963	11/06/1963	85	63	ALDREDGE C.O.	79
L 08852		L	LE	Shallow		3	3	05	16S	36E	651110	3646420*	3853	07/24/1982	07/28/1982	08/18/1982	110	70	BACKUS, GRADY	322
L 01727		L	LE	Shallow		1	1	33	15S	35E	647739	3650088*	3853	12/22/1959	12/23/1959	06/15/1960	130	60		33
L 01727	R	L	LE	Shallow		1	1	33	15S	35E	647739	3650088*	3853	12/22/1959	12/23/1959	06/15/1960	130	60		33
L 12440 POD1		L	LE	Shallow	1	3	1	08	16S	36E	651086	3645781	3856	10/14/2009	10/14/2009	10/23/2009	150		EADES, ALAN	1044
L 01423		L	LE	Shallow		1	1	08	16S	36E	651117	3646017*	3865	05/12/1952	05/14/1952	11/06/1953	90	60		35
L 05557 S3		L	LE	Shallow	3	1	3	15	16S	35E	644642	3643411*	3871	04/04/1969	04/10/1969	04/15/1969	80	46		79
L 09332		L	LE	Shallow	1	3	1	05	16S	36E	650995	3647324*	3882	09/20/1983	09/20/1983	09/23/1983	110	75	EADES, GENE	982
L 06969		L	LE	Shallow		1	3	05	16S	36E	651103	3646822*	3883	07/28/1972	07/10/1972	07/18/1973	51	36	BACKUS, GRADY	322
L 07430		L	LE	Shallow		1	3	05	16S	36E	651103	3646822*	3883	05/22/1976	05/26/1976	01/12/1977	100	60	BACKUS, GRADY	322
L 05557		L	LE	Shallow	2	3	3	15	16S	35E	644848	3643208*	3892	05/19/1965	05/28/1965	07/28/1965	90	42		79
L 07470		L	LE	Shallow	4	4	4	36	15S	34E	644222	3648712*	3901	01/14/1976	01/15/1976	02/19/1976	100	54		46
L 01624 S2		L	LE	Shallow	2	4	3	09	16S	35E	643613	3644809*	3926	12/12/1960	12/16/1960	12/30/1960	152	56	GRADY BACKUS	322
L 09532		L	LE	Shallow	3	1	1	05	16S	36E	650988	3647526*	3936	07/23/1984	07/25/1984	07/31/1984	125	58	ABBOTT, MURRELL	46

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L 00092 S3		L	LE	Shallow	3	1	1	05	16S	36E	650961	3647613	3939	03/02/2012	03/15/2012	05/10/2012	156	50	KIDD, GARY (LD)	854
L 00247 S		L	LE	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942			11/04/1954	80		NARD	
L 00247 S	R	L	LE	Shallow	3	1	3	08	16S	36E	651030	3645111*	3942			11/04/1954	80		NARD	
L 02203		L	LE	Shallow	4	3	3	05	16S	36E	651209	3646319*	3949	06/30/1953	06/30/1953	11/18/1954	95	60	TATUM, ROY	35
L 02809		L	LE	Shallow	4	3	3	05	16S	36E	651209	3646319*	3949	08/04/1955	08/04/1955	11/10/1955	100	64	JACK CLAYTON	183
L 01087		L	LE	Shallow		2	2	18	16S	36E	650742	3644399*	3950	04/01/1951	04/02/1951	01/07/1952	75		TATUM, ROY L.	
L 00718		L	LE		2	1	1	08	16S	36E	651216	3646116*	3959	03/05/1949	03/06/1949	04/18/1949			TATUM, ROY	
L 01011 POD1		L	LE	Shallow	2	1	1	08	16S	36E	651216	3646116*	3959	06/30/1950	06/30/1950	11/19/1951	75		TATUM, ROY L.	
L 00984 POD1		L	LE	Shallow	2	2	2	24	16S	35E	649292	3642860*	3964		12/31/1910	03/08/1950	60			
L 00985 POD1		L	LE	Shallow	2	2	2	24	16S	35E	649292	3642860*	3964		12/31/1910	03/08/1950	60			
L 11221		L	LE	Shallow	2	1	1	33	15S	35E	647838	3650187*	3965	07/07/2001	07/07/2001	07/20/2001	176		ROOT, FRED D.	1332
L 13729 POD1		L	LE	Shallow	4	1	2	33	15S	35E	648575	3650007	3967	10/27/2014	10/27/2014	11/03/2014	65		BRYAN, EDWARD	1711
L 13173 POD2		L	LE	Shallow			2	33	15S	35E	648524	3650040	3982	09/24/2012	09/24/2012	10/03/2012	38		NORRIS, JOHN D. (LD)	1682
L 13173 POD1		L	LE	Shallow			2	33	15S	35E	648540	3650040	3987	09/24/2012	09/24/2012	10/03/2012	28		NORRIS, JOHN D. (LD)	1682
L 02975		L	LE	Shallow		4	4	36	15S	34E	644123	3648813*	4041	09/01/1955	09/01/1955	09/08/1955	120	63	MURRELL ABBOTT	46
L 08478		L	LE	Shallow		1	1	05	16S	36E	651089	3647627*	4064	05/25/1981	05/27/1981	06/04/1981	107	68		322
L 00971 POD1		L	LE	Shallow			3	05	16S	36E	651311	3646621*	4067		05/31/1937	12/19/1949	70		TATUM, CLAUDE E.	33
L 01378		L	LE	Shallow	3	3	3	08	16S	36E	651036	3644708*	4084	02/27/1952	02/29/1952	07/28/1952	73	60	COLLUM, STANLEY C.	69
L 01581 POD1		L	LE	Shallow	3	3	3	08	16S	36E	651036	3644708*	4084	11/18/1952	11/22/1952	12/04/1952	89		STANLEY COLLIUN	
L 05218		L	LE	Shallow	3	3	3	08	16S	36E	651036	3644708*	4084	08/10/1963	08/12/1963	08/20/1963	120	90	PRUETT, OTIS H.	281

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L 06936		LE	Shallow	2	2	1	16	16S	35E	643620	3644407*	4085	04/20/1972	04/21/1972	04/26/1972	100	65	MURRELL ABBOTT	46
L 04010		LE	Shallow	4	1	1	09	16S	35E	643191	3645813*	4093	10/27/1958	10/27/1958	11/26/1958	100	72		281
L 01624 S		LE	Shallow	2	3	1	09	16S	35E	643197	3645611*	4114	10/20/1958	10/25/1958	11/26/1958	138	80	OTIS H. PRUETT	281
L 04939		LE	Shallow		3	3	08	16S	36E	651137	3644809*	4141	07/29/1962	08/01/1962	08/31/1962	100	75	PRUETT, OTIS H.	281
L 09466		LE	Shallow		3	3	08	16S	36E	651137	3644809*	4141	04/02/1984	04/02/1984	06/19/1984	135	60	EADES, GENE	982
L 09913		LE	Shallow		3	3	08	16S	36E	651137	3644809*	4141	07/07/1987	07/07/1987	07/22/1987	140	60	EADES, ALAN	1044
L 08047		LE	Shallow		4	2	22	16S	35E	645977	3642317*	4150	03/30/1979	03/31/1979	04/04/1979	137	65	MURRELL ABBOTT	46
L 00209		LE	Shallow	1	1	1	17	16S	36E	651043	3644505*	4172	01/01/1946	12/31/1948	01/20/1950	171		HAM BISHOP	9
L 00209	R	LE	Shallow	1	1	1	17	16S	36E	651043	3644505*	4172	01/01/1946	12/31/1948	01/20/1950	171		HAM BISHOP	9
L 13768 POD1		LE	Shallow	3	4	1	05	16S	36E	651368	3647064	4185	12/17/2014	12/19/2014	01/06/2015	135	64	PORTER, KURT	1698
L 00057		LE	Shallow	1	2	3	05	16S	36E	651406	3646929*	4199		12/31/1931	04/26/1949	80	70	BISHOP & LOVE	
L 00057	R	LE	Shallow	1	2	3	05	16S	36E	651406	3646929*	4199		12/31/1931	04/26/1949	80	70	BISHOP & LOVE	
L 00057 POD3		LE	Shallow	1	2	3	05	16S	36E	651406	3646929*	4199	04/18/1955	04/21/1955	05/12/1955	110	51	O.L. QUARLES	144
L 01726		LE	Shallow		2	2	33	15S	35E	648946	3650110*	4199	01/28/1970	02/13/1970	03/16/1970	125	60		322
L 00092 POD6		LE	Shallow			1	05	16S	36E	651297	3647426*	4201	05/08/1972	05/23/1972	06/05/1972	90	60	C.O. ALDREDGE	79
L 11841		LE	Shallow	1	1	1	17	16S	36E	651088	3644514	4209	11/13/2006	11/14/2006	11/22/2006	116	65	THOMPSON, STEVE (LD)	1414
L 07358		LE	Shallow			4	34	15S	35E	650375	3649127*	4231	04/09/1975	04/10/1975	11/20/1975	73	55	GLENN, CLARK A."CORKY" (LD)	421
L 00442		LE	Shallow	1	1	4	23	16S	35E	647091	3642028	4238	11/24/2018	11/29/2018	12/14/2018	170	60	ROY A TAYLOR	1626
L 11251		LE	Shallow	4	4	1	34	15S	35E	649857	3649622*	4245	08/28/2001	08/28/2001	09/11/2001	155		ROOT, FRED D.	1332
L 13176 POD1		LE	Shallow	1	4	4	05	16S	36E	651509	3646347	4250	01/23/2013	01/24/2013	01/30/2013	182	60	TAYLOR, ROY A.	1626

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L 07313		L	LE	Shallow		4	3	05	16S	36E	651514	3646428*	4257	03/01/1975	03/10/1975	03/14/1975	108	65	ROBINSON, DEWAYNE	625
L 04598		L	LE	Artesian	1	2	4	18	16S	36E	650654	3643692*	4258	01/21/1962	01/21/1962	01/31/1962	136	75		230
L 06934		L	LE	Shallow	1	2	4	18	16S	36E	650654	3643692*	4258	05/08/1972	05/12/1972	05/23/1972	118	68	SUMRULD, ELMER	230
L 06935		L	LE	Shallow	1	2	4	18	16S	36E	650654	3643692*	4258	01/19/1976	01/20/1976	01/30/1976	120	72	E.H. SUMRULD	230
L 10587		L	LE	Shallow			3	08	16S	36E	651338	3645010*	4266	08/15/1996	08/19/1996	09/24/1997	150	58	KIDD, GARY (LD)	854
L 10635		L	LE	Shallow			3	08	16S	36E	651338	3645010*	4266	05/20/1997	06/22/1997	03/11/1998	94	64	BOLAND, DALE	1415
L 10880		L	LE	Shallow			3	08	16S	36E	651338	3645010*	4266	07/20/1998	07/22/1998	10/19/1999	150	70	KIDD, GARY (LD)	854
L 09307	R	L	LE	Shallow	4	3	3	08	16S	36E	651236	3644708*	4270	08/31/1983	08/31/1983	09/06/1983	135	60	EADES, GENE	982
L 09307 POD2		L	LE	Shallow	4	3	3	08	16S	36E	651236	3644708*	4270	08/06/1985	08/15/1985	12/02/1985	123	70	KIDD, GARY (LD)	854
L 03756		L	LE	Shallow	3	3	3	04	16S	35E	642985	3646216*	4274			02/20/1958	98	60	GRADY BACKUS	183
L 01624		L	LE	Shallow	1	1	1	09	16S	35E	642991	3646013*	4275	10/05/1957	10/08/1957	01/09/1958	154	55	JACK CAYTON	183
L 02971		L	LE	Shallow	2	4	1	16	16S	35E	643627	3644004*	4278	09/06/1955	09/07/1955	09/15/1955	136	60	MURRELL ABBOTT	46
L 00057 S		L	LE	Shallow		2	3	05	16S	36E	651507	3646830*	4284	03/15/1955	03/15/1955	04/26/1955	85		O.L. QUARLES	144
L 00057 S	R	L	LE	Shallow		2	3	05	16S	36E	651507	3646830*	4284	03/15/1955	03/15/1955	04/26/1955	85		O.L. QUARLES	144
L 02056		L	LE	Shallow		1	1	17	16S	36E	651144	3644406*	4305	03/06/1953	03/06/1953	03/13/1953	130	60	BURKE, EDWARD B.	111
L 03110		L	LE	Shallow	4	4	3	05	16S	36E	651613	3646327*	4353	02/18/1956	02/18/1956	03/01/1956	100	65	CLAYTON, JACK	183
L 07182		L	LE	Shallow	4	4	3	05	16S	36E	651613	3646327*	4353	03/01/1974	03/03/1974	09/17/1975	138	68	CORKY GLENN	421
L 00057 POD5		L	LE	Shallow	4	2	3	05	16S	36E	651606	3646729*	4371	11/01/1983	11/16/1983	11/23/1983	106	70	H.L. GRAHAM	808
L 07514		L	LE	Shallow	4	2	3	05	16S	36E	651606	3646729*	4371	04/26/1976	05/19/1976	05/28/1976	115	56	HARDY, RAY	674
L 13689 POD1		L	LE	Shallow	2	4	1	05	16S	36E	651526	3647264	4381	09/14/2014	09/15/2014	10/01/2014	135	63	KURT PORTER	1698

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L 07975		L	LE	Shallow	1	3		24	16S	35E	647997	3641939*	4387	09/12/1978	09/14/1978	09/26/1978	88	43		230
L 00057 POD4		L	LE	Shallow	2	2	3	05	16S	36E	651606	3646929*	4396	12/08/1978	12/13/1978	12/26/1978			CORKY GLENN	421
L 07887		L	LE	Shallow	2	2	3	05	16S	36E	651606	3646929*	4396	12/08/1978	12/13/1978	12/26/1978	142			421
L 06132		L	LE	Shallow	2	4		18	16S	36E	650755	3643593*	4399	04/27/1967	04/30/1967	05/09/1967	98	70		33
L 10712		L	LE	Shallow	2	4		18	16S	36E	650755	3643593*	4399	09/26/1997	09/26/1997	10/03/1997	165	60	EXISTING WELL	421
L 00268 POD4		L	LE	Shallow	2	2	1	19	16S	36E	650063	3642872*	4400	08/26/1969	09/02/1969	09/29/1969	100	62	ALDREDGE, C.O. (LD)	79
L 09562		L	LE	Shallow	2	4	1	08	16S	36E	651627	3645721*	4401	09/15/1984	09/18/1984	12/02/1985	100	70	KIDD, GARY (LD)	854
L 00247 POD3		L	LE	Shallow		2	3	08	16S	36E	651535	3645219*	4401	03/25/1953	03/27/1953	05/04/1953	100	60	COLLUM, STANLEY C. (LD)	69
L 00247 POD3	R	L	LE	Shallow		2	3	08	16S	36E	651535	3645219*	4401	03/25/1953	03/27/1953	05/04/1953	100	60	COLLUM, STANLEY C. (LD)	69
L 00247 POD7		L	LE	Shallow		2	3	08	16S	36E	651535	3645219*	4401	02/01/1957	02/02/1957	10/27/1958	90	70	TATUM, CLAUDE E. (LD)	33
L 10103		L	LE	Shallow		2	3	08	16S	36E	651535	3645219*	4401	12/12/1989	12/12/1989	01/24/1991	123		SPEARS, JACK	1082
P 03010		P	RO	Shallow	3	4	4	30	15S	35E	645619	3650352*	4404	06/24/1977	06/25/1977	06/28/1977		82	DOYLE USREY	72
L 04895		L	LE	Shallow		2	1	19	16S	36E	649964	3642773*	4416	05/05/1962	05/05/1962	06/08/1962	100	80	PRUETT, OTIS H.	281
L 10209		L	LE	Shallow		2	1	19	16S	36E	649964	3642773*	4416	07/31/1991	08/03/1991	08/07/1991	128	94	ABBOTT, MURRELL	46
L 05021		L	LE	Shallow	2	1	1	16	16S	35E	643216	3644404*	4450	02/26/1963	02/27/1963	03/14/1963	172	65		46
L 01070		L	LE	Shallow	3	4	3	08	16S	36E	651441	3644715*	4459	04/15/1951	04/15/1951	02/28/1952	75	55	COLLUM, STANLEY C.	69
L 00209 S		L	LE	Shallow	3	3	1	17	16S	36E	651050	3643902*	4466	03/01/1952	03/31/1952	02/12/1953	100	60	STANLEY COLLUM	69
L 07974		L	LE	Shallow	3	1	3	24	16S	35E	647896	3641838*	4471	01/22/1979	01/25/1979	01/29/1979	90	45		230
L 00247 POD6		L	LE	Shallow	2	2	3	08	16S	36E	651634	3645318*	4475	07/10/1956	07/11/1956	08/08/1956	90	75	ALDREDGE, C.O. (LD)	79
L 03596		L	LE	Shallow	2	2	3	08	16S	36E	651634	3645318*	4475	07/12/1957	07/13/1957	08/14/1957	88	70	ALDREDGE, C.O.	79

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L 07445		L	LE	Shallow	2	2	3	08	16S	36E	651634	3645318*	4475	02/28/1976	03/01/1976	01/12/1977	100	68	BACKUS, GRADY	322
L 00268 POD3		L	LE	Shallow			1	19	16S	36E	649802	3642565*	4488	07/06/1974	07/08/1974	07/17/1974	124	62	REGISTER, H.D. (LD)	600
L 00268 POD7		L	LE	Shallow			1	19	16S	36E	649802	3642565*	4488	07/22/1970	07/27/1970	11/09/1970	100	65	TATUM, CLAUDE E. (LD)	33
L 12301 POD1		L	LE	Shallow	3	3	3	35	15S	35E	650858	3648951	4491	07/24/2008	09/25/2008	10/07/2008	123	54	THOMPSON, STEVE (LD)	1414
L 00209 S2		L	LE	Shallow		3	1	17	16S	36E	651151	3644003*	4500	01/06/1954	02/11/1954	12/19/1955	173	68		120
L 00209 S2	R	L	LE	Shallow		3	1	17	16S	36E	651151	3644003*	4500	01/06/1954	02/11/1954	12/19/1955	173	68		120
L 13282 POD1		L	LE	Shallow	4	3	3	35	15S	35E	650975	3648829	4515	06/04/2013	06/04/2013	06/12/2013	211		ALAN G EADES	1044
L 00055 POD3		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	05/22/1966	05/23/1966	06/02/1966	78	67	GRADY BACKUS	322
L 00092 POD2		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	09/09/1955	09/10/1955	09/27/1955	77	58	C.O. ALDREDGE	79
L 00092 POD2	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	09/09/1955	09/10/1955	09/27/1955	77	58	C.O. ALDREDGE	79
L 00092 POD5	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	04/19/1967	04/22/1967	05/26/1967	90	62	C.O. ADREDGE	79
L 00092 S2		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	06/29/1962	07/03/1962	07/24/1962	120	66	GRADY BACKUS	322
L 00092 S2	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	06/29/1962	07/03/1962	07/24/1962	120	66	GRADY BACKUS	322
L 00141 POD2		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	04/06/1953	06/30/1953	08/25/1953	156		COLLUM, STANLEY C.	69
L 00684	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	06/25/1955	06/07/1949	05/31/1956	97	57	C.O. ALDREDGE	79
L 00684 POD2	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	09/03/1955	09/08/1955	06/06/1956	90	60	C.O. ALDREDGE	79
L 00684 POD3		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	12/08/1955	12/12/1955	05/04/1956	152	136	JACK CAYTON	183
L 00684 POD3	R	L	LE	Shallow				05	16S	36E	651713	3647023*	4517	12/08/1955	12/12/1955	05/04/1956	152	136	JACK CAYTON	183
L 03268		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	08/23/1956	08/24/1956	09/10/1956	92	60	CLAYTON, JACK	183
L 03269		L	LE	Shallow				05	16S	36E	651713	3647023*	4517	06/22/1957	06/23/1957	06/26/1957	83	53	CLAYTON, JACK	183

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L 03270		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	09/20/1956	09/21/1956	10/31/1956	90	60	CLAYTON, JACK	183
L 03700		L	LE	Shallow		05	16S	36E	651713	3647023*	4517		06/08/1944	11/13/1957	100		TATUM, CLAUDE E.	33
L 03700	R	L	LE	Shallow		05	16S	36E	651713	3647023*	4517		06/08/1944	11/13/1957	100		TATUM, CLAUDE E.	33
L 03861		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	05/09/1958	05/12/1958	05/19/1958	100	55		134
L 03911		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	07/07/1958	07/07/1958	07/28/1958	85	65		33
L 04106		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	04/09/1959	04/10/1959	06/08/1959	85	65		33
L 04653		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	05/31/1961	06/01/1961	06/21/1961	88	60	ALDREDGE, C.O.	79
L 04897		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	05/06/1962	05/07/1962	08/27/1962	90	70	TATUM, CLAUDE E.	33
L 05186		L	LE	Shallow		05	16S	36E	651713	3647023*	4517			09/18/1964	100	64		322
L 05240		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	09/17/1963	09/18/1963	10/28/1963	84	60	ALDREDGE, C.O.	79
L 05798		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	05/02/1969	05/05/1969	03/24/1970	125		CLAUDE TATUM	33
L 05798	R	L	LE	Shallow		05	16S	36E	651713	3647023*	4517	05/02/1969	05/05/1969	03/24/1970	125		CLAUDE TATUM	33
L 06095		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	01/15/1967	01/17/1967	06/30/1967	93	65		281
L 06636		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	04/01/1970	04/04/1970	05/25/1970	110	75	GLASSPOOLE, FRANK A.	447
L 07748		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	09/10/1977	09/15/1977	10/17/1977	102	65	BACKUS, GRADY	322
L 07832		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	04/01/1978	04/20/1978	12/01/1978	120	65		711
L 09876		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	10/12/1986	10/12/1986	11/17/1986	160	60	EADES, GENE	982
L 10037		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	12/02/1988	12/03/1988	12/12/1988	151	85	ABBOTT, MURRELL	46
L 10603		L	LE	Shallow		05	16S	36E	651713	3647023*	4517	01/27/1997	01/27/1997	01/30/1997	158	60	EADES, ALAN	1044
L 13994 POD1		L	LE	Shallow	4 3 4	18	16S	36E	650460	3643073	4518	09/14/2015	09/14/2015	09/25/2015	137	63	ROBERT MAUCK	1477

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L 07845		L	LE	Shallow		4	3	08	16S	36E	651542	3644816*	4520	10/30/1978	11/01/1978	11/07/1978	110	73		230
L 03236		L	LE	Shallow	4	2	3	08	16S	36E	651634	3645118*	4522	05/03/1956	05/04/1956	06/11/1956	96	55	CLAYTON, JACK	183
L 11253		L	LE	Shallow	4	2	3	08	16S	36E	651634	3645118*	4522	08/25/2001	08/25/2001	09/11/2001	140	86	ROBINSON, TANDA	1318
L 05011		L	LE	Shallow	2	1	4	24	16S	35E	648901	3642049*	4523	07/23/1963	07/29/1963	09/25/1963	96	46	C.O ALDREDGE	79
L 05469		L	LE	Shallow	4	2	4	34	15S	35E	650670	3649236*	4523	04/06/1968	04/10/1968	11/04/1968	134	68		322
L 12223 POD1		L	LE	Shallow	3	1	3	24	16S	35E	647796	3641751	4543	06/04/2008	06/04/2008	06/17/2008	143		EADES, ALAN	1044
L 01054		L	LE	Shallow		3	1	19	16S	36E	649601	3642364*	4548	12/15/1950	12/15/1950	06/18/1951	76	45	COLLUM, STANLEY C.	69
L 00268 POD5		L	LE	Shallow	4	2	1	19	16S	36E	650063	3642672*	4556	08/30/1971	08/30/1971	08/30/1971	100	58	ALDREDGE, C.O. (LD)	79
L 04659		L	LE	Shallow	3	3	4	05	16S	36E	651818	3646334*	4558	06/20/1961	06/20/1961	07/05/1961	110	85	PRUETT, OTIS H.	281
L 04651		L	LE	Shallow				08	16S	36E	651740	3645412*	4560	05/26/1961	05/27/1961	06/08/1961	97	85	PRUETT, OTIS H.	281
L 01074		L	LE	Shallow	1	3	3	35	15S	35E	650880	3649041*	4562	05/10/1951	05/10/1951	02/18/1952	79	45	ABBOTT, CLYDE	46
L 00184	R	L	LE	Shallow	1	1	2	08	16S	36E	651824	3646131*	4566	07/30/1963	07/31/1963	09/12/1963	92	71	ALDREDGE, C.O.	79
L 00184 POD2		L	LE	Shallow	1	1	2	08	16S	36E	651824	3646131*	4566	11/03/1976	11/07/1976	12/22/1976	109	68	BACKUS, GRADY	322
L 00196 POD12		L	LE	Shallow	1	1	2	08	16S	36E	651824	3646131*	4566	02/22/1980	02/29/1980	08/28/1980	135	68	GRADY BACKUS	332
L 08189		L	LE	Shallow	3	4	3	08	16S	36E	651535	3644633	4575	03/25/1982	03/31/1982	04/16/1982	120	70		814
L 08189	R	L	LE	Shallow	3	4	3	08	16S	36E	651535	3644633	4575	03/25/1982	03/31/1982	04/16/1982	120	70		814
L 01401		L	LE	Shallow	3	1	4	05	16S	36E	651811	3646737*	4575	04/08/1975	04/10/1975	04/14/1975	96	70		625
L 04176		L	LE	Shallow	3	1	2	08	16S	36E	651824	3645931*	4576	06/15/1959	06/17/1959	07/24/1959	105	82		281
L 10674		L	LE	Shallow		3	3	35	15S	35E	650981	3648942*	4584	05/27/1997	05/28/1997	11/18/1997	115		SPEARS, JACK	1082
L 07632		L	LE	Shallow	1	1	4	05	16S	36E	651811	3646937*	4600	12/20/1976	01/09/1977	01/24/1977	116	58	HARDY, RAY	674

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L 00196		L	LE	Shallow	1	3	2	08	16S	36E	651831	3645728*	4602	06/12/1953	06/14/1953	07/23/1953	158		STANLEY COLLUM	
L 00196	R	L	LE	Shallow	1	3	2	08	16S	36E	651831	3645728*	4602	06/12/1953	06/14/1953	07/23/1953	158		STANLEY COLLUM	
L 00196 POD8		L	LE	Shallow	1	3	2	08	16S	36E	651831	3645728*	4602	03/05/1976	03/08/1976	09/18/1978	110	66	GRADY BACKUS	322
L 00196 S2		L	LE	Shallow	1	3	2	08	16S	36E	651831	3645728*	4602	01/01/1959	01/02/1959	01/08/1959	103	75	OTIS PRUETT	281
L 10381		L	LE	Shallow		3	4	30	15S	35E	645317	3650445*	4610	04/28/1994	04/28/1994	05/04/1994	175	60	EXISTING	421
L 08113 POD2		L	LE	Shallow		3	2	08	16S	36E	651825	3645540	4622	09/21/2007	09/21/2007	10/03/2007	155			1044
L 13746 POD1		L	LE	Shallow	3	4	4	18	16S	36E	650553	3643011	4629	11/07/2014	11/09/2014	11/13/2014	123	60	KURT PORTER	1698
L 07510		L	LE	Shallow	3	3	2	08	16S	36E	651831	3645528*	4630	04/12/1976	04/16/1976	07/07/1977	120	70	BACKUS, GRADY	322
L 08113	R	L	LE	Shallow	3	3	2	08	16S	36E	651831	3645528*	4630	08/15/1979	08/18/1979	08/28/1979	104	61		421
L 08208		L	LE	Shallow	3	3	2	08	16S	36E	651831	3645528*	4630	01/28/1980	02/04/1980	02/15/1980	100		CORKY GLENN	421
L 14659 POD1		L	LE	Shallow	2	4	1	19	16S	36E	650072	3642584	4630	05/24/2019	05/24/2019	06/20/2019	165	130	JACOB FRIESSEN	1753
L 00442 POD2		L	LE	Shallow	1	3	4	23	16S	35E	647098	3641625*	4641	06/30/1951	06/30/1951	07/28/1952	70	50	COLLUM, STANLEY C.	69
L 01457		L	LE	Shallow	4	4	3	08	16S	36E	651641	3644715*	4647	06/06/1952	06/06/1952	06/30/1952	85	60		35
L 03298		L	LE	Shallow	4	4	3	08	16S	36E	651641	3644715*	4647	09/21/1956	09/22/1956	11/01/1956	90	65	ALDREDGE, C.O.	79
L 03373		L	LE	Shallow	4	4	3	08	16S	36E	651641	3644715*	4647	12/12/1956	12/15/1956	01/02/1957	97	72	CLAYTON, JACK	183
L 05380		L	LE	Shallow	4	4	3	08	16S	36E	651641	3644715*	4647			06/04/1964	100	64	BACKUS, GRADY	322
L 13145 POD1		L	LE	Shallow	3	1	4	08	16S	36E	651747	3645049	4648	10/08/2012	11/12/2012	11/13/2012	111	67	PORTER, KURT	1698
L 10120		L	LE	Shallow	3	4	2	34	15S	35E	650464	3649638*	4653	05/01/1990	05/03/1990	05/11/1990	126	54	ABBOTT, MURRELL	46
L 00442 S2		L	LE	Shallow	2	4	4	23	16S	35E	647700	3641630*	4654	03/10/1982	03/26/1982	04/06/1982	120	65	BACKUS, GRADY	322
L 06982		L	LE	Shallow		4	4	18	16S	36E	650762	3643190*	4660	09/20/1972	09/21/1972	09/26/1972	120	72	MURRELL ABBOTT	46

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(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	Sub-basin	County	Source	q 6416	q	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 08926		L	LE	Shallow	1	3	2	05	16S	36E	651804	3647339*	4669	10/15/1982	11/05/1982	01/24/1983	125	72	HOBBS, BERRY L.	824
L 00196 POD14		L	LE	Shallow		1	2	08	16S	36E	651925	3646032*	4671	08/12/1986	08/12/1986	08/26/1986	100	65	GENE EADES	982
L 08296		L	LE	Shallow		1	2	08	16S	36E	651925	3646032*	4671	02/12/1981	02/13/1981	03/03/1981	150	70	G D OLDAKER	657
L 07063		L	LE	Shallow	2	4	4	18	16S	36E	650861	3643289*	4671	04/25/1973	04/26/1973	05/01/1973	120	80	MURRELL ABBOTT	46
L 08464		L	LE	Shallow	1	3	3	24	16S	35E	647903	3641636*	4672	05/19/1981	05/21/1981	05/27/1981	104	48		230
L 00340	R	L	LE	Shallow	1	1	4	08	16S	36E	651838	3645326*	4673	02/24/1948	02/29/1948	07/13/1949	87		C.O. ALDREDGE	
L 06716		L	LE	Shallow			4	28	15S	35E	648738	3650707*	4682	10/06/0970	10/07/1970	10/19/1970	90	55		322
L 07709		L	LE	Shallow		1	4	05	16S	36E	651912	3646838*	4687	07/09/1977	07/31/1977	08/15/1977	97	64	HARDY, RAY	674
L 02567		L	LE	Shallow	3	2	2	08	16S	35E	642590	3645809*	4691	06/03/1954	06/06/1954	06/16/1954	105	55	111	
L 09306		L	LE	Shallow	4	1	4	24	16S	35E	648901	3641849*	4710	08/24/1983	08/24/1983	11/04/1983	120	51	GLENN, CLARK A."CORKY" (LD)	421
L 13984 POD1		L	LE	Shallow	4	4	3	08	16S	36E	651706	3644697	4713	08/24/2015	08/25/2015	08/31/2015	131	70	MAUCK, ROBERT	1477
L 09733		L	LE	Shallow		3	2	08	16S	36E	651932	3645629*	4715	08/12/1985	08/13/1985	08/22/1985	120	78	ABBOTT, MURRELL	46
L 02914		L	LE		3	4	3	36	15S	34E	643217	3648696*	4717	07/13/1955	07/13/1955	07/20/1955	125		MURRELL ABBOTT	46
L 00268 POD6		L	LE	Shallow	2	4	1	19	16S	36E	650069	3642469*	4721	04/18/1972	04/20/1972	06/22/1972	116	58	BACKUS, GRADY (LD)	322
L 02783		L	LE	Shallow	2	4	1	19	16S	36E	650069	3642469*	4721	02/15/1955	02/19/1955	04/25/1955	80	50	TATUM, CLAUDE E.	33
L 02926		L	LE	Shallow	1	1	4	36	15S	34E	643614	3649306*	4747	07/14/1955	07/14/1955	07/20/1955	105	70	MURRELL ABBOTT	46
L 14259 POD1		L	LE	Shallow	4	3	2	08	16S	36E	651967	3645581	4756	04/07/2017	04/08/2017	04/17/2017	150	70	TAYLOR, ROY A.	1626
L 00340 POD5		L	LE	Shallow	3	4	4	08	16S	36E	651736	3644649	4758	02/22/2016	02/23/2016	03/11/2016	155	30	GOERTZEN, JOHN	1611
L 08676		L	LE	Shallow	4	3	4	05	16S	36E	652018	3646334*	4758	02/16/1982	02/17/1982	01/13/1983	127	70	GARY KIDD	854
L 11204		L	LE	Shallow	4	3	4	05	16S	36E	652018	3646334*	4758	05/23/2001	05/26/2001	06/06/2001	100	62	THOMPSON, STEVE	1414

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(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller (LD)	License Number
L 08312		L	LE	Shallow	2 2	05	16S	35E	642667	3647519*	4760	03/05/1979	03/16/1979	03/20/1979	132	60	STONE, T.J.	576
L 09784		L	LE	Shallow	2 1 2	08	16S	36E	652024	3646131*	4766	08/12/1986	08/12/1986	08/26/1986	100	65	EADES, GENE	982
L 08028		L	LE	Shallow	3 3	24	16S	35E	648004	3641537*	4785	02/15/1979	02/19/1979	02/22/1979	88	44	SUMRULD, ELMER	230
L 10911		L	LE	Shallow	3 3	24	16S	35E	648004	3641537*	4785	12/20/1998	12/23/1998	01/22/1999	120	53	GLASSPOOLE, GEORGE W.	571
L 00053 POD5		L	LE	Shallow	2 1 4	05	16S	36E	652011	3646937*	4798	11/09/1976	12/19/1976	01/24/1977	120	65	RAY HARDY	674
L 00053 S		L	LE	Shallow	2 1 4	05	16S	36E	652011	3646937*	4798	04/06/1949	04/12/1949	04/18/1949	84	58	C.O. ALDREDGE	79
L 00053 S	R	L	LE	Shallow	2 1 4	05	16S	36E	652011	3646937*	4798	04/06/1949	04/12/1949	04/18/1949	84	58	C.O. ALDREDGE	79
L 06963		L	LE	Shallow	4 4 4	18	16S	36E	650861	3643089*	4801	08/22/1972	08/24/1972	08/29/1972	120	80	GLASSPOOLE, FRANK A.	447
L 00209 POD4		L	LE	Shallow	4 2 1	17	16S	36E	651647	3644312*	4802	06/01/1959	06/03/1959	06/17/1959	126	80	OTIS H. PRUETT	281
L 00110 POD4	R	L	LE	Shallow	1 1 3	35	15S	35E	650874	3649443*	4813	03/22/1955	03/23/1955	04/22/1955	110	55	TATUM, CLAUDE E. (LD)	33
L 02918		L	LE	Shallow	2 2 2	17	16S	35E	642815	3644399*	4820	04/29/1955	04/29/1955	06/09/1955	105	105	STONE, JOHN C.	134
L 08491		L	LE		3 3	23	16S	35E	646393	3641517*	4825	07/14/1981	07/17/1981	07/23/1981	100			322
L 05909		L	LE	Shallow	4 3 2	08	16S	36E	652031	3645528*	4827	04/15/1966	04/15/1966	04/20/1966	96	81	PRUETT, OTIS H.	281
L 05910		L	LE	Shallow	4 3 2	08	16S	36E	652031	3645528*	4827	04/16/1966	04/16/1966	04/20/1966	93	70	PRUETT, OTIS H.	281
L 05964		L	LE	Shallow	4 3 2	08	16S	36E	652031	3645528*	4827	06/18/1966	06/20/1966	07/15/1966	93	70	OTIS PRUETT	281
L 07587		L	LE	Shallow	4 3 2	08	16S	36E	652031	3645528*	4827	09/12/1976	09/16/1976	08/31/1977	110	72	BACKUS, GRADY	322
L 07963		L	LE		4 3 2	08	16S	36E	652031	3645528*	4827	09/11/1978	09/11/1978	09/11/1978				322
L 00340 POD4	R	L	LE	Shallow	3 3 4	08	16S	36E	651845	3644723*	4837	04/07/1954	04/29/1954	05/21/1954	100	62	ALDREDGE, C.O.	79
L 00340 S		L	LE	Shallow	3 3 4	08	16S	36E	651845	3644723*	4837	02/20/1950	02/23/1950	05/04/1951	80	56	C.O. ALDREDGE	

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POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q 2	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 07444	L	LE	Shallow	1	3	2	19	16S	36E	650271	3642476*	4839	10/14/1975	10/14/1975	11/06/1975	178	120	E H SUMRULD	230
L 08665	L	LE	Shallow		1	2	05	16S	36E	651899	3647643*	4840	02/12/1982	02/14/1982	01/13/1983	127	70	GARY KIDD	854
L 09387	L	LE	Shallow		1	2	05	16S	36E	651899	3647643*	4840	08/09/1983	08/12/1983	01/26/1984	125	70	KIDD, GARY (LD)	854
L 00442 S	L	LE	Shallow	3	4	4	23	16S	35E	647500	3641430*	4840	09/30/1953	09/30/1953	09/07/1954	87	40	TATUM, R.L.	35
L 05497	L	LE	Shallow			4	24	16S	35E	649009	3641748*	4843	11/20/1964	11/25/1964	02/01/1965	142	130	PRUETT, OTIS H.	281
L 13299 POD1	L	LE	Shallow	3	3	1	35	15S	35E	650815	3649579	4861	09/30/2013	09/30/2013	10/23/2013	160	70	GARY KIDD DRILLING	854
L 10372	L	LE	Shallow			3	35	15S	35E	651182	3649143*	4865	01/10/1994	01/16/1994	01/25/1994	100	55	EARL ELLISON	1235
L 13146 POD1	L	LE	Shallow	2	1	4	05	16S	36E	652064	3647038	4866	08/20/2012	08/22/2012	08/29/2012	200	62		1626
L 14512 POD1	L	LE	Shallow	1	3	4	08	16S	36E	651933	3644877	4874	04/08/2019	04/08/2019	04/25/2019	158	61	1044	1044
L 04884	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874			05/24/1962	95	66	BACKUS, GRADY	322
L 04902	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	08/04/1962	08/08/1962	08/27/1962	110	65	TATUM, CLAUDE E.	33
L 04903	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	05/23/1962	05/24/1962	06/08/1962	100	80	PRUETT, OTIS H.	281
L 05520	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	01/15/1965	01/17/1965	01/27/1965	100	80		281
L 05962	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	06/20/1966	06/20/1966	06/16/1967	125	70	TATUM, CLAUDE E.	33
L 06590	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	09/30/1969	10/04/1969	02/06/1970	100	65	TATUM, CLAUDE E.	33
L 06804	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	05/24/1971	05/24/1971	06/04/1971	74	60		79
L 08218	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	02/25/1980	02/28/1980	03/13/1980	120	68	E H SUMRULD	230
L 08274	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	05/23/1981	05/25/1981	06/04/1981	120	68	GRADY BACKUS	322
L 08705	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874			07/25/1983	102	65	OWENS, JIMMY D.	814
L 10244	L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	04/27/1992	05/01/1992	05/07/1992	120	67	EARL ELLISON	1235

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L 11023		L	LE	Shallow			4	05	16S	36E	652120	3646636*	4874	01/18/2000	01/20/2000	01/25/2000	80	60	THOMPSON, STEVE (LD)	1414
L 10441		L	LE	Shallow	1	4	3	35	15S	35E	651283	3649048*	4892	10/28/1994	10/30/1994	11/10/1994	100	55	EARL ELLISON	1235
L 00196 POD6	R	L	LE	Shallow			2	08	16S	36E	652133	3645830*	4892	10/01/1973	10/02/1973	12/07/1973	140	75	MURRELL ABBOTT	46
L 10255		L	LE	Shallow			2	08	16S	36E	652133	3645830*	4892	05/05/1992	05/05/1992	07/15/1992	150	70	EADES, ALAN	1044
L 07067		L	LE	Shallow	4	3	3	24	16S	35E	648103	3641436*	4901	10/20/1975	10/28/1975	11/05/1975	100	34	SUMRULD, ELMER	230
L 09370		L	LE	Shallow	4	1	2	05	16S	36E	651998	3647542*	4907	11/10/1983	11/10/1983	11/16/1983	120	70	FELKINS, LARRY	882
L 09433		L	LE	Shallow	4	1	2	05	16S	36E	651998	3647542*	4907	02/28/1984	02/28/1984	05/23/1984	140	75	EADES, GENE	982
L 00209 POD8		L	LE	Shallow	1	1	2	17	16S	36E	651851	3644520*	4911	07/01/1979	08/01/1979	01/25/1980	110	72	BERRY HOBBS	824
L 07757		L	LE	Shallow	1	1	2	17	16S	36E	651851	3644520*	4911	01/06/1978	01/18/1978	11/08/1978	120			711
L 00110	R	L	LE	Shallow		4	3	35	15S	35E	651384	3648949*	4921	02/28/1942	02/28/1942	02/05/1943	82	70	TATUM, CLAUDE E. (LD)	33
L 00110 POD6		L	LE	Shallow		4	3	35	15S	35E	651384	3648949*	4921	04/16/1984	06/27/1984	07/31/1984	132	70	KIDD, GARY (LD)	854
L 08143		L	LE	Shallow		4	3	35	15S	35E	651384	3648949*	4921	09/20/1980	09/23/1980	06/19/1981	130	52		657
L 12023 POD1		L	LE	Shallow	4	1	4	08	16S	36E	652050	3645134	4921	04/06/2007	04/10/2007	05/01/2007	110	60	THOMPSON, STEVE (LD)	1414
L 10413	R	L	LE	Shallow				05	16S	36E	652162	3646881	4940	07/11/1994	07/13/1994	07/26/1994	110	76	EARL ELLISON	1235
L 10413 POD2		L	LE	Shallow				05	16S	36E	652162	3646881	4940	01/23/2012	01/23/2012	01/25/2012	194		EADES, ALAN	1044
L 00110 S		L	LE	Shallow	3	3	1	35	15S	35E	650867	3649646*	4944	03/31/1951	03/31/1951	02/14/1952	100		TATUM, CLAUDE E. (LD)	33
L 00110 S	R	L	LE	Shallow	3	3	1	35	15S	35E	650867	3649646*	4944	03/31/1951	03/31/1951	02/14/1952	100		TATUM, CLAUDE E. (LD)	33
L 08849		L	LE	Shallow	4	4	3	35	15S	35E	651483	3648848*	4951	06/21/1982	06/24/1982	07/07/1982	114	61	SUMRULD, ELMER	230
L 10796		L	LE	Shallow	4	3	1	28	15S	35E	647819	3651195*	4962	04/14/1998	04/14/1998	04/24/1998	180	70	CORKY GLENN	421
L 05835		L	LE	Shallow	3	4	4	05	16S	36E	652222	3646342*	4963	01/12/1966	01/15/1966	02/24/1966	96	72		322

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L 09529		L	LE	Shallow	2	1	2	05	16S	36E	651998	3647742*	4963	07/14/1984	07/14/1984	11/26/1984	135	65		982
L 09669		L	LE	Shallow	2	1	2	05	16S	36E	651998	3647742*	4963	04/28/1985	04/28/1985	06/27/1985	170	80	EADES, GENE	982
L 12516 POD1		L	LE	Shallow	3	1	2	05	16S	36E	651794	3648297	4969	02/15/2010	02/17/2010	03/04/2010	217	70	ROBINSON, B.J. (LD)	1498
L 03212		L	LE	Shallow	3	2	4	05	16S	36E	652216	3646744*	4979	06/06/1959	06/08/1959	07/06/1959	95	65	ALDREDGE, C.O.	79
L 07500		L	LE	Shallow	3	2	4	05	16S	36E	652216	3646744*	4979	02/14/1977	03/30/1977	04/06/1977	116	0	HARDY, RAY	674
L 02921		L	LE	Shallow		1	2	08	16S	35E	642291	3645905*	4981	06/29/1955	06/29/1955	07/05/1955	102	60	JACK CLAYTON	183
L 00055 S		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	07/30/1968	08/02/1968	09/25/1968	84	63	C.O. ALDREDGE	79
L 00092 S		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	06/06/1958	06/06/1958	06/25/1958	100		GRADY BACKUS	183
L 00092 S	R	L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	06/06/1958	06/06/1958	06/25/1958	100		GRADY BACKUS	183
L 00970 POD1		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987			12/19/1949	70			
L 08707		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	05/15/1982	07/02/1982	07/20/1982	130	65	SELMAN, AL	764
L 08847		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	06/29/1982	06/30/1982	07/09/1982	120	81	FELKINS, LARRY	882
L 08872		L	LE	Shallow			2	05	16S	36E	652106	3647441*	4987	07/13/1982	07/13/1982	07/20/1982	130	60	EADES, GENE	982
L 12275 POD1		L	LE	Shallow	3	1	2	05	16S	36E	651730	3648478	4988	10/27/2008	10/27/2008	11/14/2008	215		EADES, ALAN	1044

Record Count: 428

UTMNAD83 Radius Search (in meters):

Easting (X): 647259.57 **Northing (Y):** 3646264.1 **Radius:** 5000

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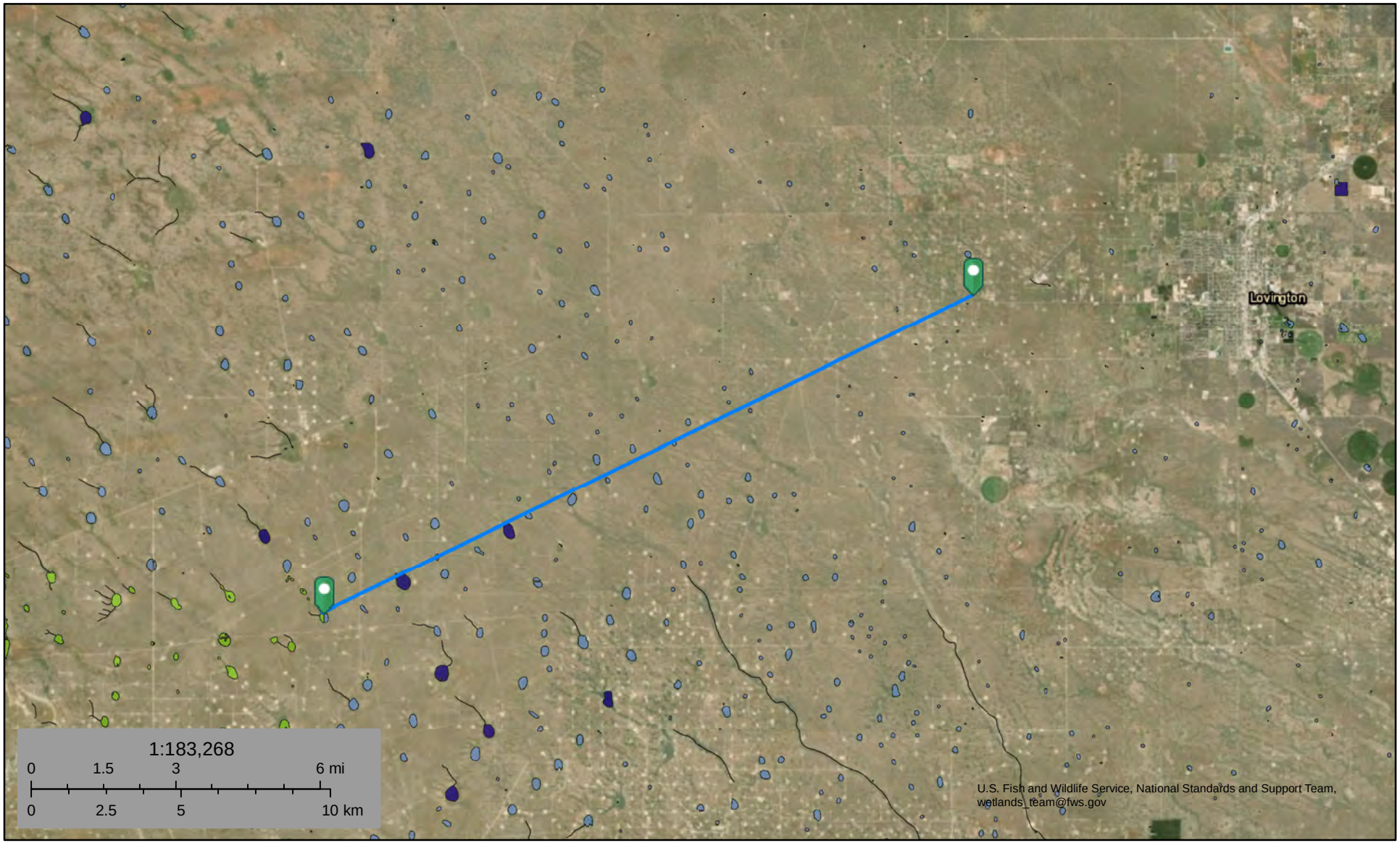
U.S. Fish and Wildlife Service
National Wetlands Inventory

Townsend State 5: 66731 ft Wetland



October 19, 2019

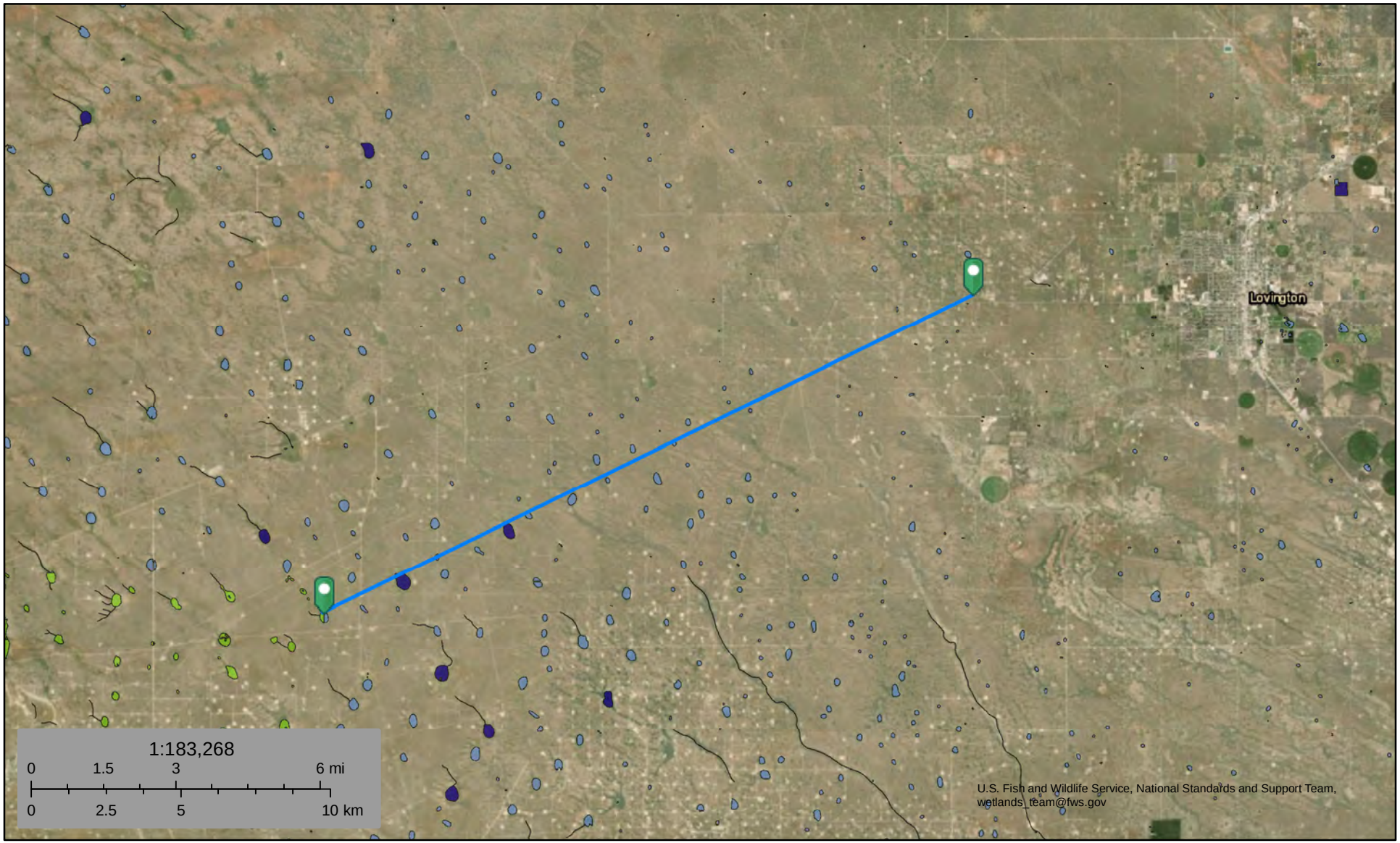
Wetlands

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Townsend State 5: 66731 ft Wetland



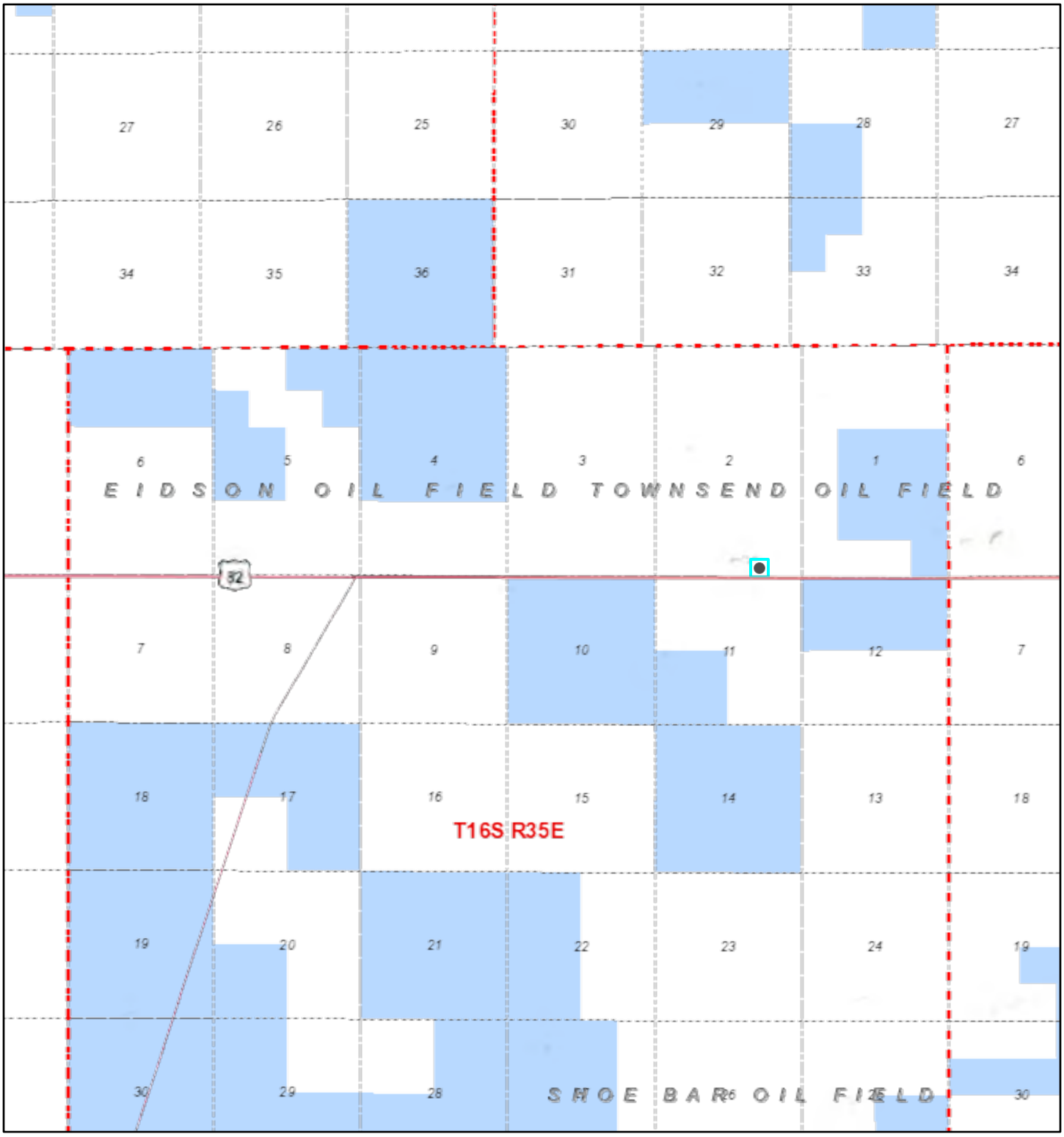
October 19, 2019

Wetlands

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Active Mines near Townsend State #5



11/1/2019, 8:33:16 AM

1:72,224

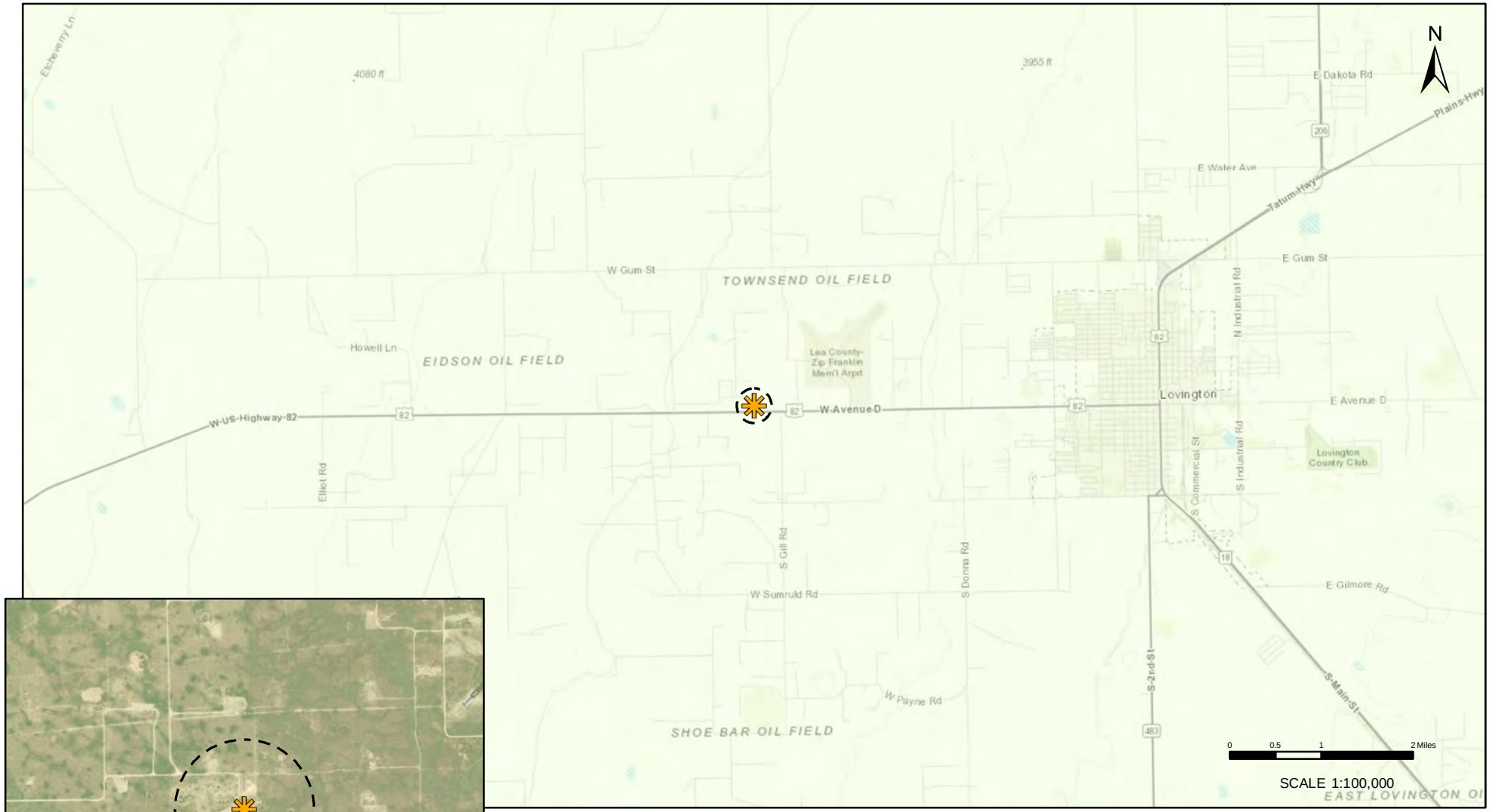
0 0.5 1 2 mi

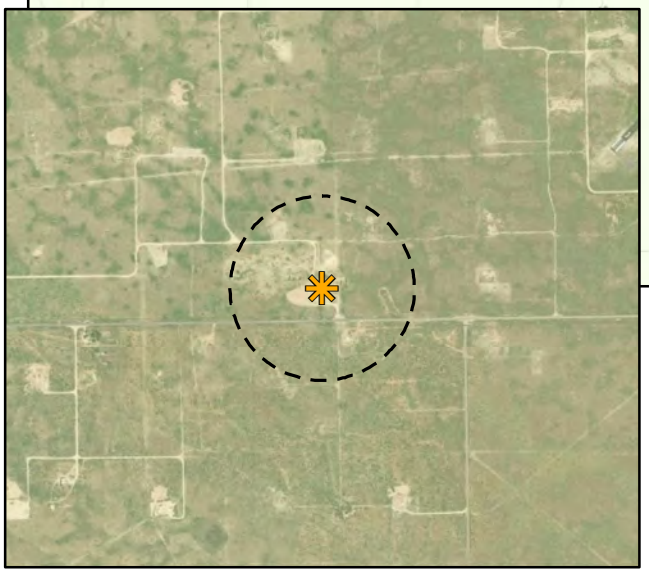
0 0.75 1.5 3 km

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

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)





LEGEND

SITE

1000FT BUFFER

KARST POTENTIAL

CRITICAL

HIGH

MEDIUM

LOW

Notes: Aerial Image from ESRI Digital Globe 2018

devon

Karst Potential
Townsend State 5

VERTEX

DRAWN:	NM
APPROVED:	SH
DATE:	OCT 22/19

FIGURE: 1

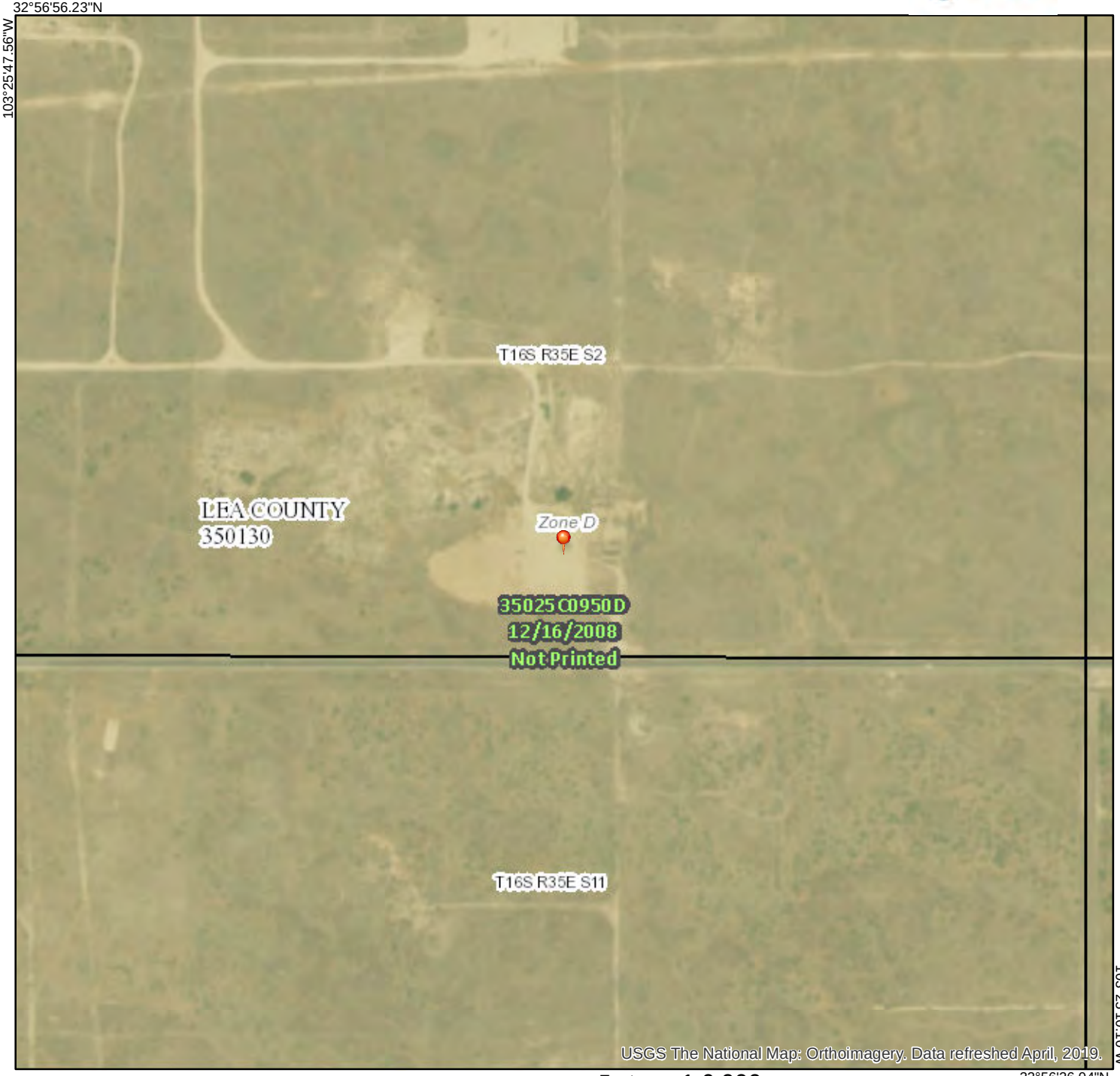
VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette

FEMA

32°56'56.23"N

103°25'47.56"W



103°25'10.10"W

32°56'26.04"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/19/2019 at 1:20:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

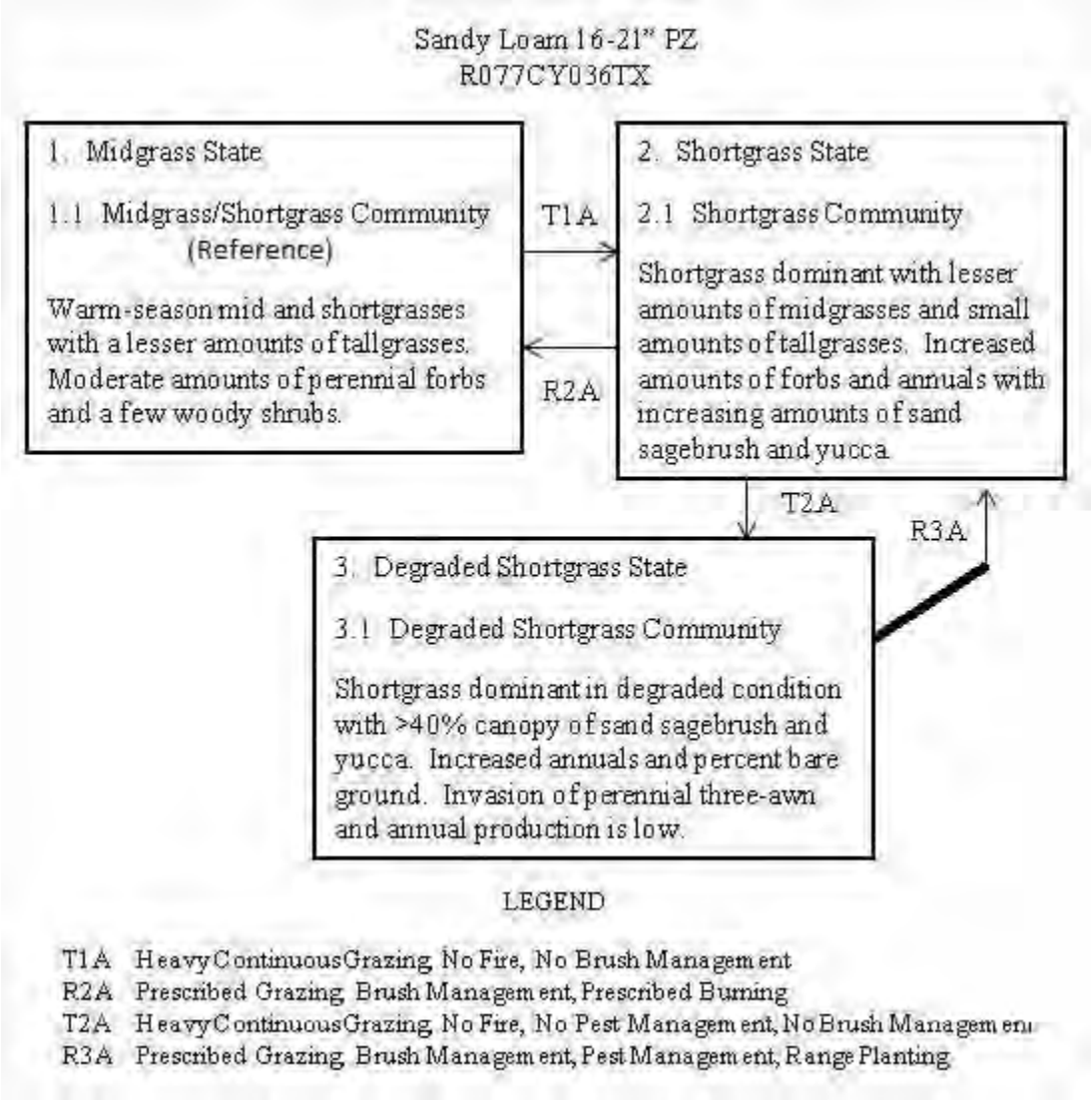
R077CY036TX — Sandy Loam 16-21 PZ Ecological Site

Plant Community Photos

Midgrass/Shortgrass Dominant Community

Shortgrass Community

Degraded Shortgrass Community



State Transition Diagram for R077CY036TX — Sandy Loam 16-21" PZ Ecological Site

Ecological Dynamics Description

The soils, topographic location, climate, periodic droughts and fire influenced the stabilization of the reference plant community on this site as was the case on most all High Plains ecological sites. This plant community as found by European settlers in the early 1800's developed under the prevailing climate over time along with the soils in their topographic location. Grazing and/or browsing by local and nomadic wildlife influenced the plant community as well. The resulting plant community is a Midgrass/Shortgrass Community (1.1). The sandy loam site is quite possibly the most productive site in the Texas Panhandle. Midgrasses tend to dominate over most of the site with sideoats grama (Bouteloua curtipendula) being the overall dominant species. Lesser amounts of vine-mesquite (Panicum obtusum), Arizona cottontop (Digitaria californica), plains bristlegrass (Setaria leucopila), hooded windmillgrass (Chloris cucullata), sand dropseed (Sporobolus cryptandrus), tumble windmillgrass (Chloris verticillata), silver bluestem (Bothriochloa laguroides), hairy grama (Bouteloua hirsuta), fall witchgrass (Digitaria cognata), gummy lovegrass (Eragrostis curtipedicellata), black grama (Bouteloua eriopoda), and sand muhly (Muhlenbergia arenicola) are present. Little bluestem (Schizachyrium scoparium)is present with lesser amounts of Indiangrass (Sorghastrum nutans) and sand bluestem (Andropogon hallii). In areas where tighter soils occur, the shortgrasses are blue grama (Bouteloua gracilis) and buffalograss (Bouteloua dactyloides). Some cool-season grasses occurr in small amounts such as western wheatgrass (Pascopyrum smithii), Canada wildrye (Elymus canadensis) and needle & thread (Hesperostipa comata). Typically associated forbs include dotted gayfeather (Liatris punctata), prairie clover (Dalea purpurea), catclaw sensitivebriar (Mimosa microphylla), golden dalea (Dalea aurea), gaura (Gaura spp.), rushpea (Hoffmanseggia glauca), Engelmann's daisy (Engelmannia peristenia), lyreleaf greeneyes (Berlandiera lyrata), sagewort (Artemisia ludoviciana), scarlet globemallow (Sphaeralcea coccinea), Fendler's penstemon (Penstemon fendleri), wild alfalfa (Psoralidium tenuiflorum) and numerous annual forbs. Woody species include sand sagebrush (Artemesia filifolia), yucca (Yucca glauca), and catclaw mimosa (Mimosa aculeaticarpa var. biuncifera). Nutrient cycling, the water cycle, watershed protection and biological functions were functioning at their peak.

Fire plays an important role in the function of most plains sites, especially the tallgrass communities. Tallgrasses such as sand bluestem and little bluestem were dependent upon fire to stimulate them and remove old growth that would accumulate on the soil surface. Fire also keeps shrubs from getting too thick. Fire helps to keep a balance between the grasses, forbs, and shrubs. Wildlife habitat is improved by opening up canopies and stimulating forb growth. The deep-rooted species that grow on the site are not easily damaged by fire. Yucca and associated shrubs will usually resprout, but are suppressed for a time allowing grasses to dominate. If periodic fire does not occur, then the yucca and woody plants will slowly increase and with grazing pressure can begin to dominate the site. Since fire is not always available to be applied, practices such as brush management may necessary from time to time to help keep the community in balance.

Periodic overgrazing and trampling by migrating herds of bison and resident herds of pronghorn antelope probably occurred during drought periods. However,

long rest periods followed once the large herds of bison and antelope moved out of the area, allowing the resilient grassland to re-establish itself and maintain its climax community structure.

The major forces influencing the transition from the reference community are continued overgrazing by livestock and a decrease in the frequency and intensity of fire. As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density.

Under good management this is one of the most productive sites in the Texas Panhandle and will give good animal performance. Little bluestem and sideoats grama are fairly resistant to grazing pressure but will decline if continuous heavy grazing persists. The tallgrasses are fairly sensitive to overgrazing and will begin to decrease more quickly if continuous heavy grazing occurs for long periods. If excessive grazing pressure continues, ecological retrogression occurs. The tendency of this site, as excessive grazing pressure occurs, is to become a shortgrass dominant site, allowing sideoats grama and little bluestem to give way to blue grama. There will be an increase in perennial and annual forbs, and perennial three-awn will increase. Yucca and sand sagebrush tend to increase. Invasion of mesquite, broom snakeweed and pricklypear may occur on some sites. The decrease in density and stature of the midgrasses and tallgrasses and an increase in shortgrasses and the density of the yucca and woody vegetation bring about a new plant community, the Shortgrass Community (2.1).

In the Shortgrass Community (2.1), the transition back to the reference community requires proper grazing management, brush management, and pest management. Prescribed burning could be used if the conditions allow. The production of vegetation has shifted from mostly herbaceous vegetation to more yucca and woody, although the herbaceous vegetation biomass is still the largest amount. Nutrient cycling, the water cycle, watershed protection and biological functions have changed little.

If long-term heavy grazing continues, a threshold will be crossed to a Degraded Shortgrass Community (3.1). In this degraded state, typical vegetation will be low vigor blue grama with bare areas opening up with annuals filling the voids. Perennial three-awn will increase when the more desirable grasses are weakened and/or removed. Yucca and sand sagebrush will increase dramatically. On sites where mesquite, pricklypear and broom snakeweed have invaded, these woody invaders can increase to the point of dominating the woody canopy. The loss of herbaceous cover and increased bare ground encourages accelerated erosion. Nutrient cycling, the water cycle, watershed protection and biological functions have been severely reduced. The plant community is so degraded that it cannot reverse retrogression without extensive energy and management inputs. Restoration will require prescribed grazing with rest periods during the growing season, re-seeding bare areas with adapted native grass species, and chemical and/or mechanical brush management and some form of pest management. With the reduced amounts of grass fuel, prescribed burning is usually not an option in this phase.

Recovery can occur fairly rapidly if the competitive plants are controlled and proper grazing management is applied. Full recovery and maintenance of the

reference community requires continued proper grazing management as well as occasional brush and pest management.

NOTE: Rangeland Health Reference Worksheets have been posted for this site on the Texas NRCS website (www.tx.nrcs.usda.gov) in Section II of the eFOTG under (F) Ecological Site Descriptions.

STATE AND TRANSITIONAL PATHWAYS

Narrative:

The following diagram suggests some pathways that the vegetation on this site might take. There may be other states not shown on the diagram. This information is intended to show what might happen in a given set of circumstances; it does not mean that this would happen the same way in every instance. Local professional guidance should always be sought before pursuing a treatment scenario.

Changes in the structure and composition of the plant community may be due to management and/or natural occurrences. At some point thresholds are crossed as indicated by the State and Transition Diagram. This suggests that once changes have progressed to a certain point, the plant community has been altered to the extent that a return to the former state is not possible unless some form of energy is applied. These changes take place on all ecological sites. Some sites support communities that are more resistant to change than others. Also, some sites are more resilient and can heal or restore themselves more easily. Usually, changes in management practices alone, such as grazing techniques, will not be sufficient to restore former plant communities. An example of energy input might be the implementation of chemical brush management to decrease the amount of woody/cacti shrubs and increase the amount of grasses and forbs. This shift in community balance could not be brought about with grazing alone. The amount of energy required to bring about a change in plant community balance may vary a great deal depending on the present state and the desired result.

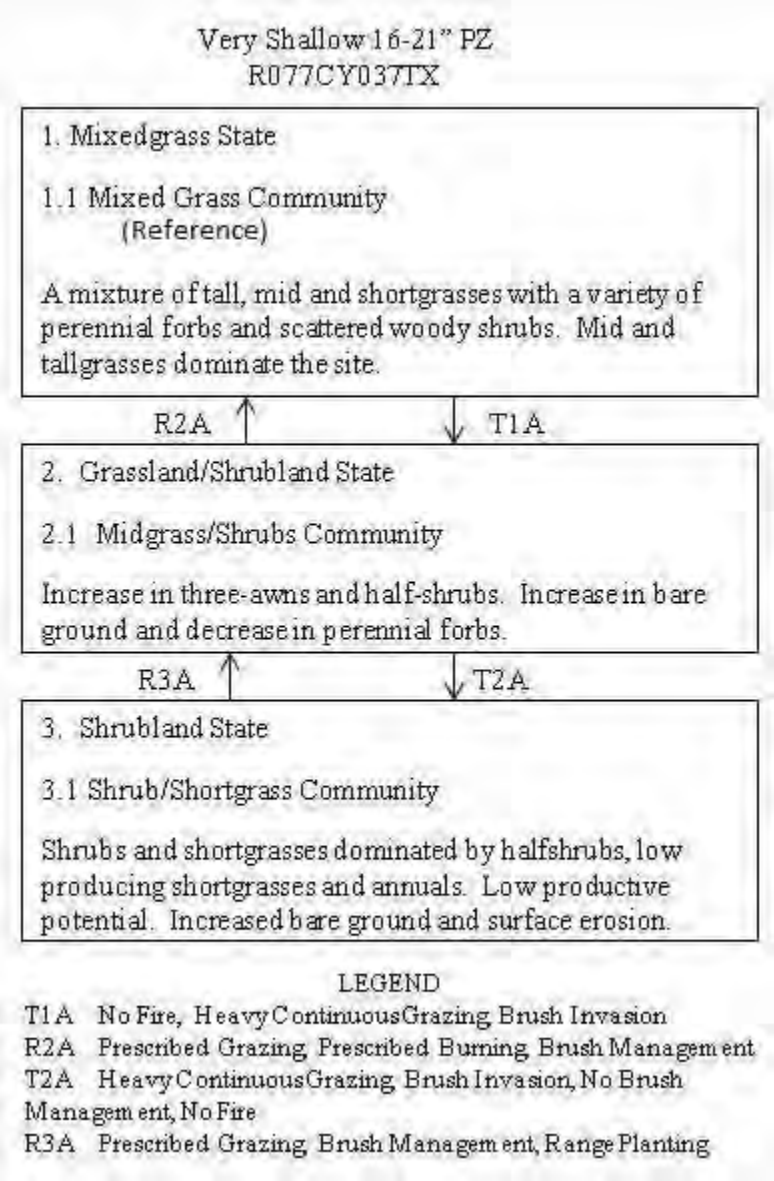
R077CY037TX — Very Shallow 16-21 PZ Ecological Site

Plant Community Photos

Mixed Grass Community

Midgrass/Shrubs Community

Shrub/Shortgrass Community



State Transition Diagram for R077CY037TX — Very Shallow 16-21" PZ Ecological Site

Ecological Dynamics Description

The Reference Plant Community is a mixture of grasses, forbs, and low growing shrubs. Vegetation is generally sparse. Soil depth limits plant density. Areas of bare ground are common. The limy nature of the soil further defines the species occupying the site. The plant community is more productive where less limey conditions occur. Production is low and palatability of forage is less than sites with deeper soil resources. Tall, mid, and shortgrass species are found on the site along with several species of forbs and shrubs. Little bluestem (Schizachyrium scoparium) and sideoats grama (Bouteloua curtipendula) are often the most common grasses. Grasses such as hairy grama (Bouteloua hirsuta), blue grama (Bouteloua gracilis), New Mexico feathergrass (Hesperostipa neomexicana), and perennial three-awns (Aristida spp.) are also frequently present, with occasional sand bluestem (Andropogon hallii) and Indiangrass (Sorghastrum nutans). The more common shrubs are feather dalea (Dalea formosa), skunkbush sumac (Rhus trilobata), and juniper (Juniper monosperma). Broom snakeweed (Gutierrezia sarothrae) typically increases when grasses decline. However, broom snakeweed is a cyclic plant sensitive to fall moisture, once broom snakeweed dominates a site, it tends to be persistent. Small amounts of plains greasebush (Glossopetalon planitierum) may occur on areas along escarpment edges. Areas occur within the site where the shrubs may make up a large percent of the vegetation. Likewise, there are areas where grasses dominate. Forbs are generally fairly well dispersed throughout the entire site. This site is not a preferred grazing area for most domestic livestock. Plants growing on shallow, limy soils tend not to be as palatable as when growing on deep, fertile soil. Nutrients are tied up by the large amounts of lime present, and are not available to plants. This site is seldom as heavily grazed as associated upland sites. The site is frequently utilized by browsing species such as mule deer and the largely forb-consuming pronghorn.

Fire plays a role in the ecology of the site. The general effects of fire are to promote grasslands and suppress woody shrubs. The shallow, limy soils on this site have much more influence on the plant community than does any external ecological influence. Sparse vegetation and lower production limited the heat generated by natural fire and may have limited the degree of damage to woody plants. This site takes longer to recover from a burn than some associated sites. Overgrazing causes the taller grasses to decline and shrubby species to increase. Bare ground and runoff will be increased. It is somewhat uncommon to find this site severely degraded due to grazing abuse, but it can occur.

The site is not very susceptible to wind erosion due to coarse fragments on the surface. Water erosion can occur with poor cover. Severe degradation causes a drought-like condition and it becomes very difficult to restore the plant community close to the reference community. This site has limited production potential and it quickly loses the ability to support sufficient cover to protect the soil resource when degraded.

If heavy or even moderately heavy continuous grazing does occur for prolonged periods of time the most palatable plants will be severely pressured. As retrogression proceeds, this site will move towards a Midgrass/Shrub Community (2.1). Tallgrasses will decline and midgrass species will increase along with a

dramatic increase in the shrub component. The plant community will be less diverse than the reference. In this phase, the ecological processes have changed somewhat, but the pathway back toward the reference plant community can be initiated through prescribed grazing and prescribed burning. Limited fine fuel may prevent effective suppression of the woody plants.

If heavy continuous grazing occurs for long periods of time, along with periodic droughts, retrogression will move towards a Shrub/Shortgrass Community (3.1). In extreme cases, shrubs such as yucca, skunkbush and juniper along with a high percentage of broom snakeweed will dominate the site. Numerous bare areas with surface rock fragments will be exposed increasing the potential for excessive soil erosion from water. This plant community is so degraded that retrogression can not be reversed without extensive energy and management inputs. At this point, a major threshold has been crossed. Restoration of the Shrub/Shortgrass plant community will be difficult due the droughty and rocky nature of the site. Prescribed grazing (3–5 consecutive years of deferment during the growing season), brush management (chemical and/or mechanical) and range planting will be necessary. At this point, prescribed burning is not an option due to the lack of fine fuel and poor continuity.

NOTE: Rangeland Health Reference Worksheets have been posted for this site on the Texas NRCS website (www.tx.nrcs.usda.gov) in Section II of the eFOTG under (F) Ecological Site Descriptions.

PLANT COMMUNITIES AND TRANSITIONAL PATHWAYS (DIAGRAM)

The following diagram suggests some pathways that the vegetation on this site might take. There may be other states not shown on the diagram. This information is intended to show what might happen in a given set of circumstances; it does not mean that this would happen the same way in every instance. Local professional guidance should always be sought before pursuing a treatment scenario.

Changes in the structure and composition of the plant community may be due to management and/or natural occurrences. At some point thresholds are crossed as indicated by the lined box on the State and Transition Diagram. This suggests that once changes have progressed to a certain point, the plant community has been altered to the extent that a return to the former state is not possible unless some form of energy is applied. These changes take place on all ecological sites. Some sites support communities that are more resistant to change than others. Also, some sites are more resilient and can heal or restore themselves more easily. Usually, changes in management practices alone, such as grazing techniques, will not be sufficient to restore former plant communities. An example of energy input might be the implementation of chemical brush management to decrease the amount of woody/cacti shrubs and increase the amount of grasses and forbs. This shift in community balance could not be brought about with grazing alone. The amount of energy required to bring about a change in plant community balance may vary a great deal depending on the present state and the desired result.

STATE AND TRANSITIONAL PATHWAYS (DIAGRAM)

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)

Interpretive groups

Land capability classification (irrigated): None specified

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

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

ATTACHMENT 4

devon

Amanda Davis

Townsend State #5

Delineation Plan

API NO. 30-025-34500

1RP-5222

Release Date: 09/13/2018

U/L O, Section 2, Township 16S, Range 35 E

Lea County, NM

03/18/2019

Prepared By:

WHITE BUFFALO ENVIRONMENTAL INC.

White Buffalo Environmental, Inc.

407 East Broadway

Hobbs, NM 88240

Phone: (575)738-0424

Fax: (575)738-0430

March 15, 2019

New Mexico Energy, Minerals & Natural Resources
Oil Conservation Division, Environmental Bureau-District I
1625 N. French Drive
Hobbs, NM 88240

Devon Energy
C/O Amanda Davis
6488 Seven Rivers Hwy
Artesia, NM 88210

RE: Remediation Work Plan
Devon Energy – Townsend State #5
UL/O, S2, T26S, R35E
API No. 30-025-34500

To Whom it May Concern,

Devon Energy has retained White Buffalo Environmental to address potential environmental concerns for the site detailed herein.

Background

The site is located in Lea County, New Mexico. The release occurred on September 13th, 2018, due to the heater treater over pressurized causing the release to the pad. Approximately 23bbls of oil was released. The repairs were made to the heater treater and production commenced. A vacuum truck was dispatched to recover the standing fluids and approximately 15bbls of oil was recovered.

The area of impact is inside an unlined earthen berm inside the heater treater containment, which measures 1392.60 sq. ft. WBE has attached the corresponding C-141's for the incident detailed herein.

Ground Water Information

WBE has conducted a ground water study of the area. It has been determined that according to the New Mexico Office of the State Engineer, the average depth of ground water is averaged to 56'bgs, minimum 40'bgs and maximum depth is 70'bgs. Several wells were found in the area of the Townsend State #5 location. Please see the water map and information attached to this report. Wells found in and around the area are as follows:

L00272S2 – 46'bgs @ 273' from site
L02755 – 55'bgs @ 339' from site
L14098POD1 – 53'bgs @ 462' from site
L03013 – 70'bgs @ 560' from site

L03029 – 65'bgs @ 601' from site

With the average depth found, the Closure Criteria for Soils impacted by a release is below based on the new rule. This site was delineated using the new rule requirements. Below you will find the new rule criteria for the ground water depth that is closest to the well, the ground water depth used for this site was 46'bgs which was found to be the closed well to the site.

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Delineation for 1RP-5222

On November 5th, 2018, White Buffalo Environmental personnel-initiated delineation of this site as per Devon Energy. Surface samples were taken from inside the earthen bermed area of the heater treater facility, the area of impact was field testing for chloride. This site was delineated using the "new rule". Field testing indicated the following concentrations were found at the surface of the impacted area:

SP1: <30 MG/KG CHLORIDE, BTEX/TPH NOTED
SP2: 60 MG/KG CHLORIDE, BTEX/TPH NOTED
SP3: 458 MG/KG CHLORIDE, BTEX/TPH NOTED
SP4: 246 MG/KG CHLORIDE, BTEX/TPH NOTED
SP5: 702 MG/KG CHLORIDE, BTEX/TPH NOTED
SP6: 804 MG/KG CHLORIDE, BTEX/TPH NOTED
SP7: 172 MG/KG CHLORIDE, BTEX/TPH NOTED
SP8: 804 MG/KG CHLORIDE, BTEX/TPH NOTED
SP9: 60 MG/KG CHLORIDE, BTEX/TPH NOTED

At this time the impacted area was fully delineated, horizontally and vertically to show migration of chloride and BTEX contamination. Vertical soil samples were taken by use of hand auger. Soil was field tested for chloride using both the chloride strip method as well as titration. A PID meter was also used to indicate concentrations to BTEX. Soil samples were taken from nine sample points from within the unlined earthen containment. SP4 and SP9, had two samples delivered to the lab; one at 1'bgs and one at 3'bgs. The area was sampled using 1' intervals for each sample point by use of hand auger with split spoon attachments.

The vertical bottom hole samples for the impacted area inside the unlined earthen containment and represent the confirmed concentrations by Cardinal Laboratories:

SP1: 6'BGS: 240 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 67.2 MG/KG TPH
SP2: 3'BGS: 704 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 63.1 MG/KG TPH
SP3: 3'BGS: 560 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 123 MG/KG TPH
SP4: 1'BGS: 640 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 10 MG/KG TPH
SP4: 3'BGS: 672 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 5127 MG/KG TPH

SP5: 2'BGS: 1200 MB/KG CHLORIDE, <0.300 MG/KG BTEX, 19.6 MG/KG TPH
SP6: 3'BGS: 368 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SP7: 3'BGS: 704 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 314 MG/KG TPH
SP8: 5'BGS: 992 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SP9: 1'BGS: 880 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SP9: 2'BGS: 608 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH

The horizontal sidewall sample results for the impacted area as follows and have been confirmed by Cardinal Laboratories:

SW1: 1': 32 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SW2: 3': 48 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SW3: 1': 416 MG/KG CHLORIDE, <0.300 MG/KG BTEX, <10 MG/KG TPH
SW4: 1': 720 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 6369 MG/KG TPH
SW4: 4': 848 MG/KG CHLORIDE, <0.300 MG/KG BTEX, 143 MG/KG TPH

All final soil samples were delivered to Cardinal Lab for confirmation. Please see the sample data sheet for the sample trending documentation attached herein.

Conclusion

White Buffalo Environmental would like to propose excavating to 1'bgs by hand shovel due to above ground lines, buried lines and to keep the integrity of the equipment. The impacted soil will be placed on plastic and then hauled to a Lea Landfill. Clean caliche will be brought back in to backfill and topping with 2" of pea gravel.

After excavation of the 1'bgs, the NMOCD and BLM will be notified for witnessing of final samples. Final samples will be delivered to Cardinal Lab and confirmed before backfilling commences.

Thank you for allowing White Buffalo Environmental to assist you in this matter. Please contact me with any questions and/or concerns.

Sincerely,

Natalie Gladden
Environmental & Regulatory Director
White Buffalo Environmental, Inc.
407 East Broadway
Hobbs, NM 88240
(Office) 738-0424
(Fax) 575-738-0430
(Cell) 575-390-2940
Email: natalie.gladden@whitebuffalo.com

Attachments:
C-141 including page 3,4,5
Groundwater Data
Site Map with groundwater data and Karst Map
Site Photographs and Sample Map, Sample Data and Lab Analyses

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

Release Notification

Responsible Party

Responsible Party	Devon Energy Production Company	OGRID	6137
Contact Name	Brett Fulks	Contact Telephone	575 748 1844
Contact email	brett.fulks@dvn.com	Incident #	NCH1827850988 TOWNSEND STATE 5 @ 30-025-34500
Contact mailing address	PO Box 250, Artesia NM 88211		

Location of Release Source

Latitude 32.9447594 Longitude -103.424675

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Townsend State 5	Site Type Oil
Date Release Discovered 9/13/2018	API# *(if applicable)* 30-025-34500

Unit Letter	Section	Township	Range	County
O	02	16S	35E	Lea

Surface Owner: ☐ State ■ Federal ☐ Tribal X Private (*Name:* _____)

State Minerals

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

■ Crude Oil	Volume Released (bbls) 23BBLS	Volume Recovered (bbls) 15BBLS
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Heater treater over pressured. Repairs made. Approximately 15bbls of oil was recovered.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dana DeLaRosa
Title: Field Admin Support
Signature:
Date: 10.11.18
email: dana.delarosa@dvn.com
Telephone: 575.748.3371

OCD Only

Received by:

RECEIVED
By CHernandez at 9:10 am, Oct 16, 2018

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

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

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Townsend State 5

23BBLS Oil_9.24.2018

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Dana DeLaRosa
Map is current as of: 26-Sep-2018

N

Miles
0 0.00 0.00 0.01 1: 445

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	46' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Natalie Gladden Title: Environmental and Regulatory Director

Signature: Natalie Gladden Date: 3-18-19

email: Natalie.Gladden@whitebuffalo.com Telephone: 575-390-6397

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☒ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Natalie Gladden Title: Environmental and Regulatory Director

Signature: Natalie Gladden Date: 3-18-19

email: natalie.gladden@whitebuffalo.com Telephone: 575-390-6397

OCD Only

Received by: Date:

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date:

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 00272 S2		L	LE	1	2	2	11	16S	35E	647434	3646054*	273	90	46	44
L 02755		L	LE		1	2	11	16S	35E	647134	3645949*	339	105	55	50
L 14098 POD1		L	LE	2	2	1	11	16S	35E	646856	3646038	462	140	53	87
L 03013		L	LE		2	4	02	16S	35E	647522	3646759*	560	123	70	53
L 03029		L	LE	1	3	3	01	16S	35E	647828	3646462*	601	120	65	55
L 03170		L	LE	1	1	1	12	16S	35E	647834	3646060*	609	105	48	57
L 02711		L	LE		2	1	11	16S	35E	646733	3645944*	616	105	51	54
L 00272		L	LE	1	2	1	11	16S	35E	646632	3646043*	665	80	60	20
L 02945		L	LE		2	3	02	16S	35E	646722	3646746*	721	110	65	45
L 00272 S		L	LE		3	2	11	16S	35E	647140	3645548*	725	96	60	36
L 03000		L	LE				02	16S	35E	646930	3646942*	753	105		
L 05904 S	R	L	LE			3	02	16S	35E	646528	3646540*	781	150	60	90
L 05904 S2	R	L	LE			3	02	16S	35E	646528	3646540*	781	120	60	60
L 03092		L	LE		1	3	01	16S	35E	647922	3646765*	830	120	65	55
L 02958		L	LE		4	1	11	16S	35E	646738	3645542*	890	101	45	56
L 03164		L	LE			3	01	16S	35E	648130	3646564*	920	120	65	55
L 02727		L	LE		3	3	02	16S	35E	646327	3646339*	935	107	60	47
L 10594		L	LE	3	3	1	01	16S	35E	647814	3647067*	975	136	40	96

Average Depth to Water: **56 feet**
Minimum Depth: **40 feet**
Maximum Depth: **70 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 647259.57 **Northing (Y):** 3646264 **Radius:** 1000

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 00272 S2	1	2	2	11	16S	35E	647434	3646054*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT, FLOYD				
Drill Start Date:	04/08/1952	**Drill Finish Date:**	04/09/1952	**Plug Date:**	
Log File Date:	05/01/1952	**PCW Rcv Date:**	07/28/1953	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	6	**Estimated Yield:**	400 GPM
Casing Size:	16.00	**Depth Well:**	90 feet	**Depth Water:**	46 feet

Water Bearing Stratifications:	Top	Bottom	Description
	46	90	Sandstone/Gravel/Conglomerate

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

New Mexico Office of the State Engineer
Point of Diversion Summary

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

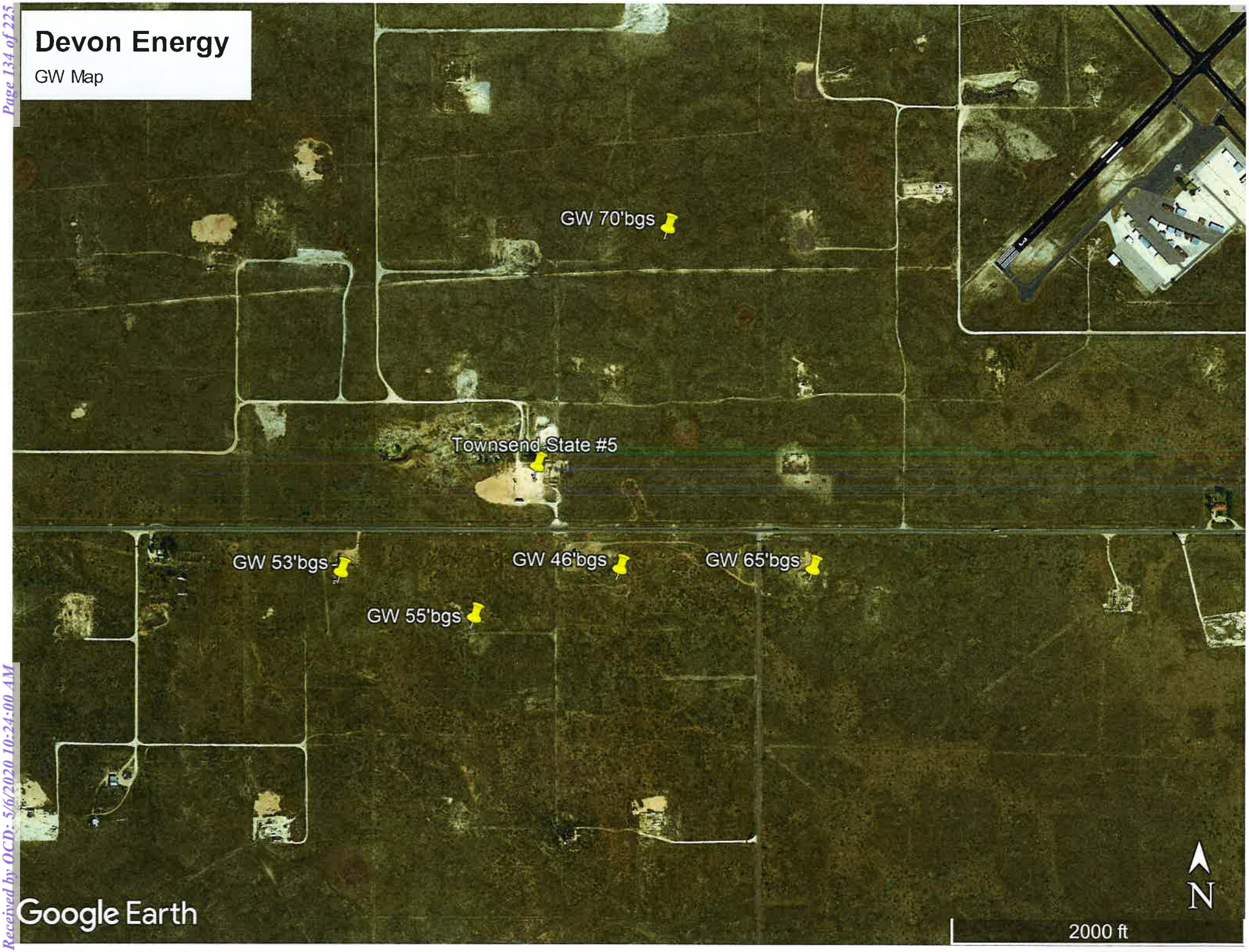
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 02755		1	2	11	16S	35E	647134	3645949*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	BERNARD NELSON				
Drill Start Date:	01/27/1955	**Drill Finish Date:**	01/27/1955	**Plug Date:**	05/21/1958
Log File Date:	02/04/1955	**PCW Rcv Date:**	02/04/1955	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	105 feet	**Depth Water:**	55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	58	105	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	80	105

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



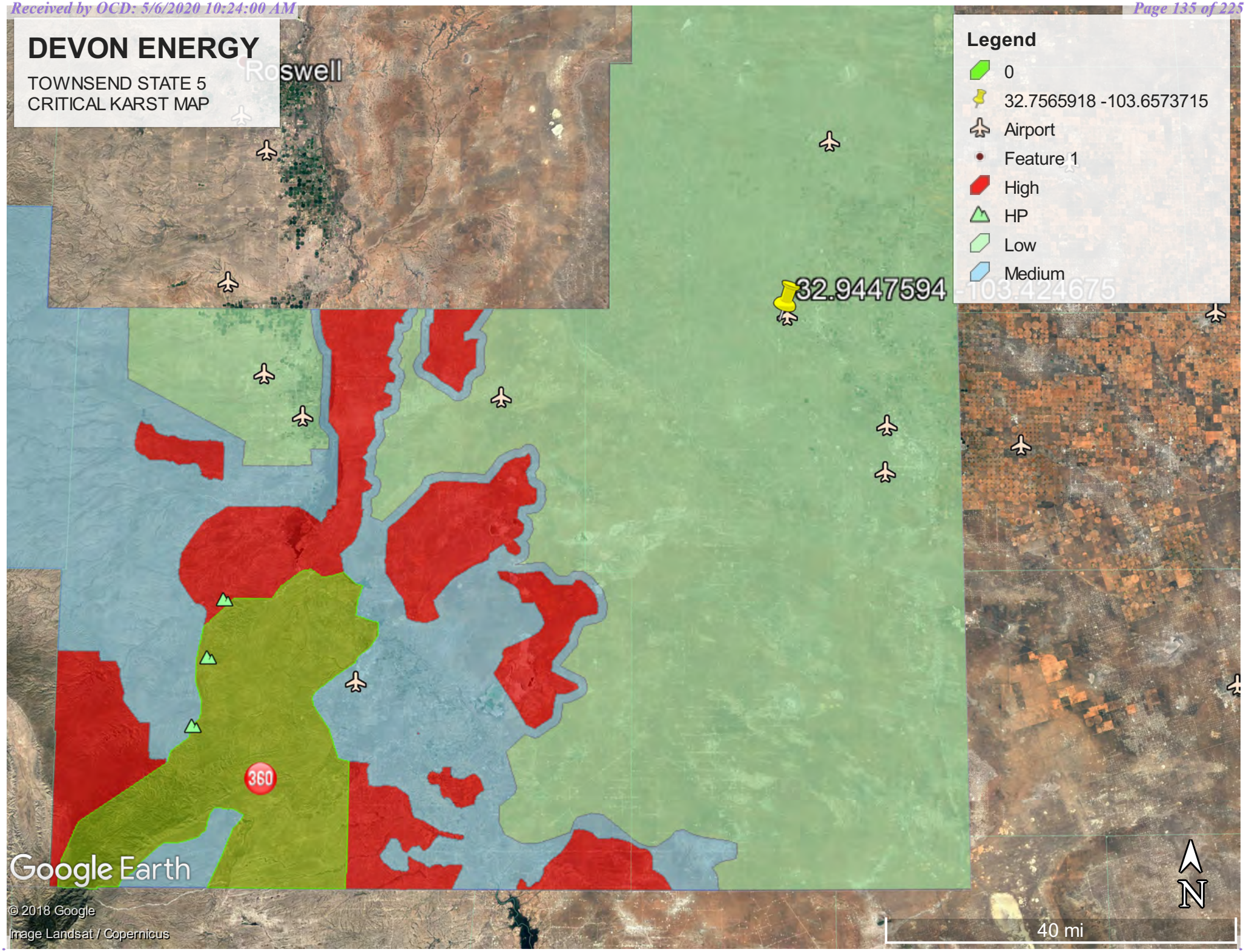

DEVON ENERGY
TOWNSEND STATE 5
CRITICAL KARST MAP
Roswell
Legend
0
32.7565918 -103.6573715
Airport
Feature 1
High
HP
Low
Medium
32.9447594
-103.424675
360
Google Earth
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Image Landsat / Copernicus
N
40 mi

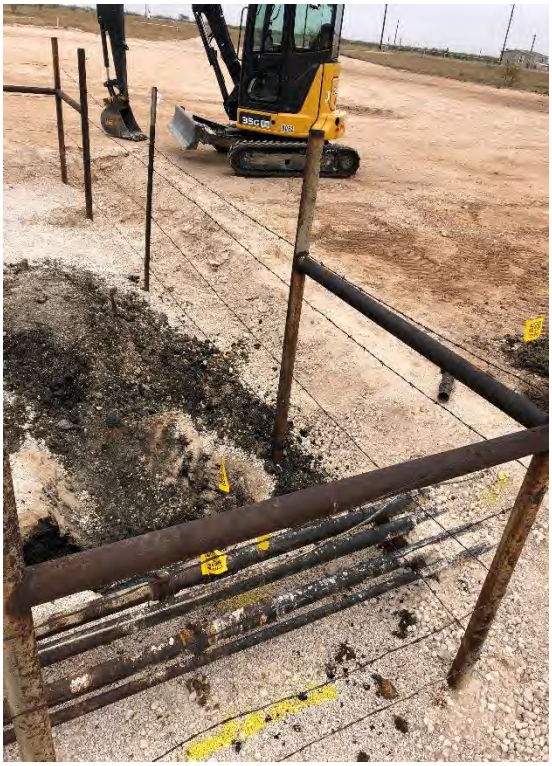
DEVON
TOWNSEND STATE 5
BEFORE PHOTOS

DEVON
TOWNSEND STATE 5
BEFORE PHOTOS

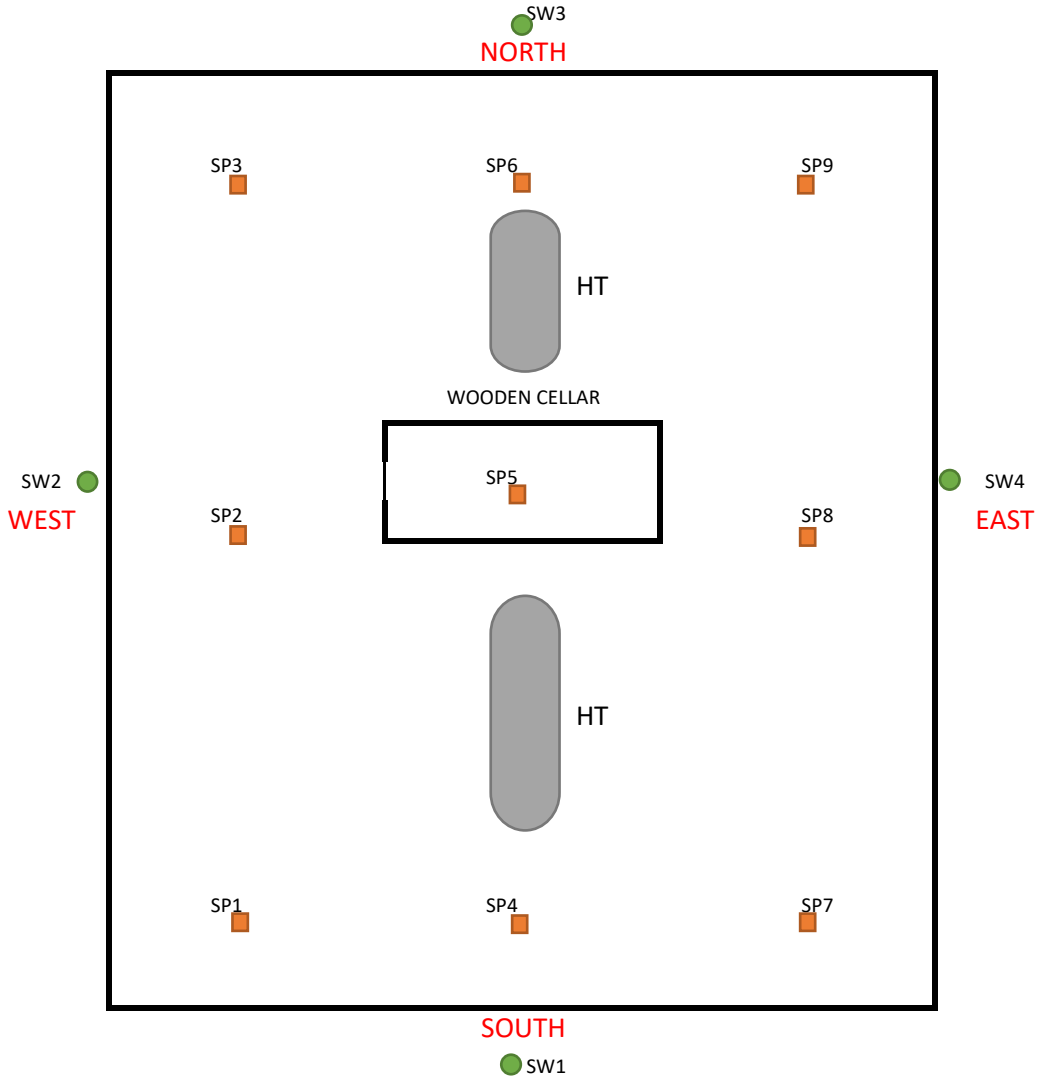
DEVON
TOWNSEND STAE #5
DURING PHOTOS




DEVON
TOWNSEND STAE #5
DURING PHOTOS



DEVON
TOWNSEND STAE #5
DURING PHOTOS



SAMPLE POINTS 1392.60 sq. ft.
SIDE WALL SAMPLE POINTS

DEVON - TOWNSEND STATE #5
1RP-5222
API: 30-025-34500
RELEASE DATE: 9/13/2018

DEVON - TOWNSEND STATE #5

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	<30		>100								TPH
	1'	<30		>100								TPH
	2'	<30		>100								TPH
	3'	<30		>100								TPH
	4'	<30		>100								TPH
	5'	<30		>100								TPH
	6'	<30	68	<50	240	<0.300	<10	67.2	<10	67.2	CAL	TPH
SP2	SUR	60		>100								TPH
	1'	<30		>100								TPH
	2'	<30		>100								TPH
	3'	<30	106	<50	704	<0.300	<10	47.3	15.8	63.1	CAL	TPH
SP3	SUR	458		>100								TPH
	1'	<30		>100								TPH
	2'	<30		>100								CANT GO DEEPER DUE TO LINE
	3'	<30	94	>100	560	<0.300	<10	107	15.8	123	CAL	TPH
SP4	SUR	246		>100								TPH
	1'	<30	90	>100	640	<0.300	<10	<10	<10	<10	CAL	TPH
	2'	462		>100								TPH
	3'	660	78	>100	672	0.425	44.7	5040	42.7	5127	CAL	CANT GO DEEPER DUE TO LINE
SP5	SUR	702		>100								TPH
	1'	<30		>100								TPH
	2'	<30	130	>100	1200	<0.300	<10	19.6	<10	19.6	CAL	TPH
	3'	218		>100								TPH
	4'	262	90	>100	1100	<0.300	<10	19.6	<10	19.6	CAL	TPH
SP6	SUR	804		>100								TPH
	1'	932		>100								TPH
	2'	<30										
	3'	<30	78		368	<0.300	<10	<10	<10	<10	CAL	
SP7	SUR	172		>100								TPH
	1'	1032		>100								TPH
	2'	<30		>100								CANT GO DEEPER
	3'	<30	118	>100	704	<0.300	<10	285	28.5	314	CAL	TPH

SP8	SUR	804		>100								TPH
	1'	1256		>100								TPH
	2'	<30		>100								TPH
	3'	668		>100								TPH
	4'	<30										
	5'	<30	134		992	<0.300	<10	<10	<10	<10	CAL	
SP9	SUR	60		>100								TPH
	1'	<30	142		880	<0.300	<10	<10	<10	<10	CAL	
	2'	100	92		608	<0.300	<10	<10	<10	<10	CAL	
SW1	SUR	<30										
	1'	<30	42		32	<0.300	<10	<10	<10	<10	CAL	
SW2	SUR	668		>100								TPH
	1'	750		>100								TPH
	2'	<30										
	3'	<30	44		48	<0.300	<10	<10	<10	<10	CAL	
SW3	SUR	<30										
	1'	<30	88		416	<0.300	<10	<10	<10	<10	CAL	
SW4	SUR	<30		>100								
	1'	<30	78	>100	720	<0.300	63.7	5800	505	6369	CAL	
	2'	428		>100								TPH
	3'	534		>100								
	4'	366		>100	848	<0.300	<10	128	15.2	143	CAL	

CARDINAL Laboratories

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

November 14, 2018

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: TOWNSEND STATE #5

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 - 2' (H803241-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	**47.3**	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	**15.8**	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *92.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *79.6 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 - 3' (H803241-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	**107**	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	**15.8**	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *96.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/05/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 4 - 1' (H803241-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.2 %* *37.6-147*

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 5 - 2' (H803241-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1200**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	**19.6**	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.1 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 6 - 3' (H803241-05)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	202	101	200	9.47	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *97.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *84.8 %* *37.6-147*

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 7 - 3' (H803241-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	202	101	200	9.47	
DRO >C10-C28*	**285**	10.0	11/10/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	**28.5**	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/05/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 9 - 1' (H803241-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**880**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	202	101	200	9.47	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane *97.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *85.0 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SW 1 - 1' (H803241-08)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2018	ND	202	101	200	9.47	
DRO >C10-C28*	<10.0	10.0	11/11/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	11/11/2018	ND					

Surrogate: 1-Chlorooctane *98.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SW 2 - 3' (H803241-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2018	ND	202	101	200	9.47	
DRO >C10-C28*	<10.0	10.0	11/11/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	11/11/2018	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.7 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SW 3 - 1' (H803241-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.8-142*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2018	ND	202	101	200	9.47	
DRO >C10-C28*	<10.0	10.0	11/11/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	11/11/2018	ND					

Surrogate: 1-Chlorooctane *91.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *77.5 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SW 4 - 1' (H803241-11)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *129 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	11/14/2018	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**63.7**	10.0	11/11/2018	ND	202	101	200	9.47	
DRO >C10-C28*	**5800**	10.0	11/11/2018	ND	215	108	200	3.96	
EXT DRO >C28-C36	**505**	10.0	11/11/2018	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *317 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Devon Energy	**BILL TO**
Project Manager: Brett Fulks	P.O. #:
Address: 6488 7 Rivers Hwy	Company: White Buffalo
City: Artesia State: NM Zip: 88210	Attn: Steve McFarlin
Phone #: Fax #:	Address: 8908 Yale Ave #210
Project #: Project Owner:	City: Tulsa
Project Name: Townsend State #5	State: OK Zip: 74137
Project Location:	Phone #: 918-660-0999
Sampler Name: Monique Cueto	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH
H8003241																	
1	SP2 - 2'	G				✓					✓		11/6/18	11:23	✓	✓	✓
2	SP3 - 3'	G				✓					✓		11/7/18	1:14	✓	✓	✓
3	SP4 - 1'	G				✓					✓		11/5/18	1:26	✓	✓	✓
4	SP5 - 2'	G				✓					✓		11/6/18	11:02	✓	✓	✓
5	SP6 - 3'	G				✓					✓		11/6/18	12:10	✓	✓	✓
6	SP7 - 3'	G				✓					✓		11/7/18	1:49	✓	✓	✓
7	SP9 - 1'	G				✓					✓		11/5/18	1:21	✓	✓	✓
8	SW1 - 1'	G				✓					✓		11/6/18	8:46	✓	✓	✓
9	SW2 - 3'	G				✓					✓		11/6/18	9:03	✓	✓	✓
10	SW3 - 1'	G				✓					✓		11/6/18	9:25	✓	✓	✓

Relinquished By:	Date: 11/8/18	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 14:40		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email: Natalie.Gladden@whitebuffalo.com, Monique.Cueto@whitebuffalo.com
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3.9°C / #97	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Devon Energy	**BILL TO**
Project Manager: Brett Fulks	P.O. #:
Address: 6488 7 Rivers Hwy	Company: White Buffalo
City: Artesia State: NM Zip: 88210	Attn: Steve McFarlin
Phone #: Fax #:	Address: 8908 Yale Ave #210
Project #: Project Owner:	City: Tulsa
Project Name: Townsend State #5	State: OK Zip: 74137
Project Location:	Phone #: 918-660-0999
Sampler Name: Monique Cueto	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH
H803241																	
11	SW4-1'	G				✓					✓		11/6/18	9:54	✓	✓	✓

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

Relinquished By:	Date: 11/8/18	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 14:40		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email: Natalie.Gladden@whitebuffalo.com Monique.Cueto@whitebuffalo.com
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3.9°C / #97	Sample Condition Cool: ☐ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

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

November 15, 2018

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: TOWNSEND STATE #5

Enclosed are the results of analyses for samples received by the laboratory on 11/13/18 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/13/2018	Sampling Date:	11/08/2018
Reported:	11/15/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 - 6' (H803285-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2018	ND	1.76	88.1	2.00	1.13	
Toluene*	<0.050	0.050	11/15/2018	ND	1.71	85.3	2.00	0.472	
Ethylbenzene*	<0.050	0.050	11/15/2018	ND	1.67	83.3	2.00	1.36	
Total Xylenes*	<0.150	0.150	11/15/2018	ND	5.18	86.4	6.00	1.43	
Total BTEX	<0.300	0.300	11/15/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	11/15/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2018	ND	192	95.8	200	1.01	
DRO >C10-C28*	**67.2**	10.0	11/13/2018	ND	201	101	200	0.0348	
EXT DRO >C28-C36	<10.0	10.0	11/13/2018	ND					

Surrogate: 1-Chlorooctane *94.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	11/13/2018	Sampling Date:	11/08/2018
Reported:	11/15/2018	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 8 - 5' (H803285-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.24	112	2.00	1.33	
Toluene*	<0.050	0.050	11/14/2018	ND	2.15	108	2.00	1.82	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.09	105	2.00	1.60	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	6.49	108	6.00	1.81	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	11/15/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2018	ND	192	95.8	200	1.01	
DRO >C10-C28*	<10.0	10.0	11/13/2018	ND	201	101	200	0.0348	
EXT DRO >C28-C36	<10.0	10.0	11/13/2018	ND					

Surrogate: 1-Chlorooctane *87.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.5 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Devon Energy		BILL TO	
Project Manager: Brett Fulks		P.O. #:	
Address: 6488 7 Rivers Hwy		Company: White Buffalo	
City: Artesia	State: NM Zip: 88210	Attn: Steve McFarlin	
Phone #:	Fax #:	Address: 8908 Yale Ave #210	
Project #:	Project Owner:	City: Tulsa	
Project Name: Townsend State #5		State: OK Zip: 74137	
Project Location:		Phone #: 918-660-0999	
Sampler Name: Monique Cueto		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH								
H803285																									
1	SP1-6'	G				X					X		11/8/18	10:39	✓	✓	✓								
2	SP8-5'	G				X					X		11/8/18	9:50	✓	✓	✓								

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

Relinquished By: Monique Cueto	Date: 11-13-18 Time: 8:30	Received By: Tamara Oldaker	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)	
-6.8°C #97		TO	

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Email:
Natalie.Gladden@whitebuffalo.com
Monique.Cueto@whitebuffalo.com

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

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

January 07, 2019

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: TOWNSEND STATE #5

Enclosed are the results of analyses for samples received by the laboratory on 12/28/18 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	12/28/2018	Sampling Date:	12/21/2018
Reported:	01/07/2019	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 4 - 3' (H803806-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/02/2019	ND	2.08	104	2.00	2.09	
Toluene*	**0.074**	0.050	01/02/2019	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/02/2019	ND	2.05	102	2.00	1.93	
Total Xylenes*	**0.351**	0.150	01/02/2019	ND	6.41	107	6.00	2.26	
Total BTEX	**0.425**	0.300	01/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**672**	16.0	01/03/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**44.7**	10.0	12/31/2018	ND	217	108	200	6.81	
DRO >C10-C28*	**5040**	10.0	12/31/2018	ND	192	96.1	200	4.34	
EXT DRO >C28-C36	**42.7**	10.0	12/31/2018	ND					

Surrogate: 1-Chlorooctane *84.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *176 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	12/28/2018	Sampling Date:	12/21/2018
Reported:	01/07/2019	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 5 - 4' (H803806-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/02/2019	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	01/02/2019	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/02/2019	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/02/2019	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	01/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	01/03/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2018	ND	217	108	200	6.81	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	192	96.1	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					

Surrogate: 1-Chlorooctane *83.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *78.6 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	12/28/2018	Sampling Date:	12/21/2018
Reported:	01/07/2019	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 9 - 2' (H803806-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/02/2019	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	01/02/2019	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/02/2019	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/02/2019	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	01/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	01/03/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2018	ND	217	108	200	6.81	
DRO >C10-C28*	<10.0	10.0	12/31/2018	ND	192	96.1	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	12/31/2018	ND					

Surrogate: 1-Chlorooctane *89.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.6 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	12/28/2018	Sampling Date:	12/21/2018
Reported:	01/07/2019	Sampling Type:	Soil
Project Name:	TOWNSEND STATE #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SW 4 - 4' (H803806-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/02/2019	ND	2.08	104	2.00	2.09	
Toluene*	<0.050	0.050	01/02/2019	ND	2.07	104	2.00	1.73	
Ethylbenzene*	<0.050	0.050	01/02/2019	ND	2.05	102	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/02/2019	ND	6.41	107	6.00	2.26	
Total BTEX	<0.300	0.300	01/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	01/03/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2018	ND	217	108	200	6.81	
DRO >C10-C28*	**128**	10.0	12/31/2018	ND	192	96.1	200	4.34	
EXT DRO >C28-C36	**15.2**	10.0	12/31/2018	ND					

Surrogate: 1-Chlorooctane *76.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.3 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Devon Energy
Project Manager:	Brett Fulks
Address:	6488 7 Rivers Hwy
City:	Artesia State: NM Zip: 88210
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	Townsend St #5
Sampler Name:	Monique Cueto

BILL TO

P.O. #:	
Company:	White Buffalo
Attn:	Steve McFarlin
Address:	6908 Yale Ave #210
City:	Tulsa
State:	OK Zip: 74137
Phone #:	918-660-0999
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	BTEX	TPH
H803806																	
1	SP4-3'	G	1			✓					✓		12-21-18	9:56	✓	✓	✓
2	SP5-4'	G	1			✓					✓		12-21-18	11:00	✓	✓	✓
3	SP9-2'	G	1			✓					✓		12-21-18	11:16	✓	✓	✓
4	SW4-4'	G	1			✓					✓		12-21-18	10:51	✓	✓	✓

Relinquished By:	Date: 12/28/18	Received By:	Jodi Henson
	Time: 1:45		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: -13.5°C / #97

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

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Email:
Natalie.Gladden@whitebuffalo.com
Monique.Cueto@whitebuffalo.com

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

ATTACHMENT 5

Client Name: Devon Energy Production Company
Site Name: Townsend State 5
Project #: 19E-00575-031
Lab Report: 1909F47

Table 2. Characterization Soil Samples - Depth to Groundwater <50 feet

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS 1	0.5	September 23, 2019	<0.023	<0.211	<4.7	4,200	2,300	**4,200**	**6,500**	460
CS 2	0.5	September 23, 2019	<0.023	<0.211	20	6,700	5,300	**6,720**	**12,020**	430
CS 3	0.5	September 23, 2019	0.071	0.541	62	3,200	2,900	**3,262**	**6,162**	120
CS 4	0.5	September 23, 2019	<0.024	<0.220	<4.9	980	1,300	**980**	**2,280**	**660**
CS 5	0.5	September 23, 2019	<0.025	<0.221	<4.9	2,400	1,900	**2,400**	**4,300**	600
CS 6	0.5	September 23, 2019	<0.024	<0.217	<4.8	380	670	**380**	**1,050**	**940**
CS 7	0.5	September 23, 2019	<0.023	<0.210	<4.7	540	1,200	**540**	**1,740**	**1,400**

Bold and shaded indicates exceedance outside of applied action level

Client Name: Devon Energy Production Company
Site Name: Townsend State 5
Project #: 19E-00575-031
Lab Reports: 1911774 and 1911C65

Table 3. Confirmatory Soil Samples - Depth to Groundwater <50 feet

Sample Description			Petroleum Hydrocarbons							Inorganic
			Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS 19-01	3	November 15, 2019	<0.024	<0.217	13	1,100	530	**1,113**	**1,643**	**730**
WS 19-01	3	November 15, 2019	<0.024	<0.216	<4.8	12	<47	12	12	97
WS 19-02	3	November 15, 2019	<0.024	<0.216	<4.8	22	<45	22	22	560
BS 19-01	5	November 15, 2019	<0.025	<0.224	12	810	<46	**822**	**822**	490
BS 19-01	5	November 15, 2019	<0.025	<0.221	<4.9	<9.8	<49	<14.7	<63.7	<60
BS 19-02	3	November 15, 2019	<0.023	<0.208	<4.6	60	<50	60	60	390
BG 19-01	0	November 15, 2019	<0.024	<0.213	<4.7	<9.9	<50	<14.6	<64.6	<60
BG 19-01	2	November 15, 2019	<0.025	<0.224	<5.0	<9.9	<50	<14.9	<64.9	<60
BG 19-01	4	November 15, 2019	<0.024	<0.215	<4.8	<9.8	<49	<14.6	<63.6	<60

Bold and shaded indicates exceedance outside of applied action level

ATTACHMENT 6

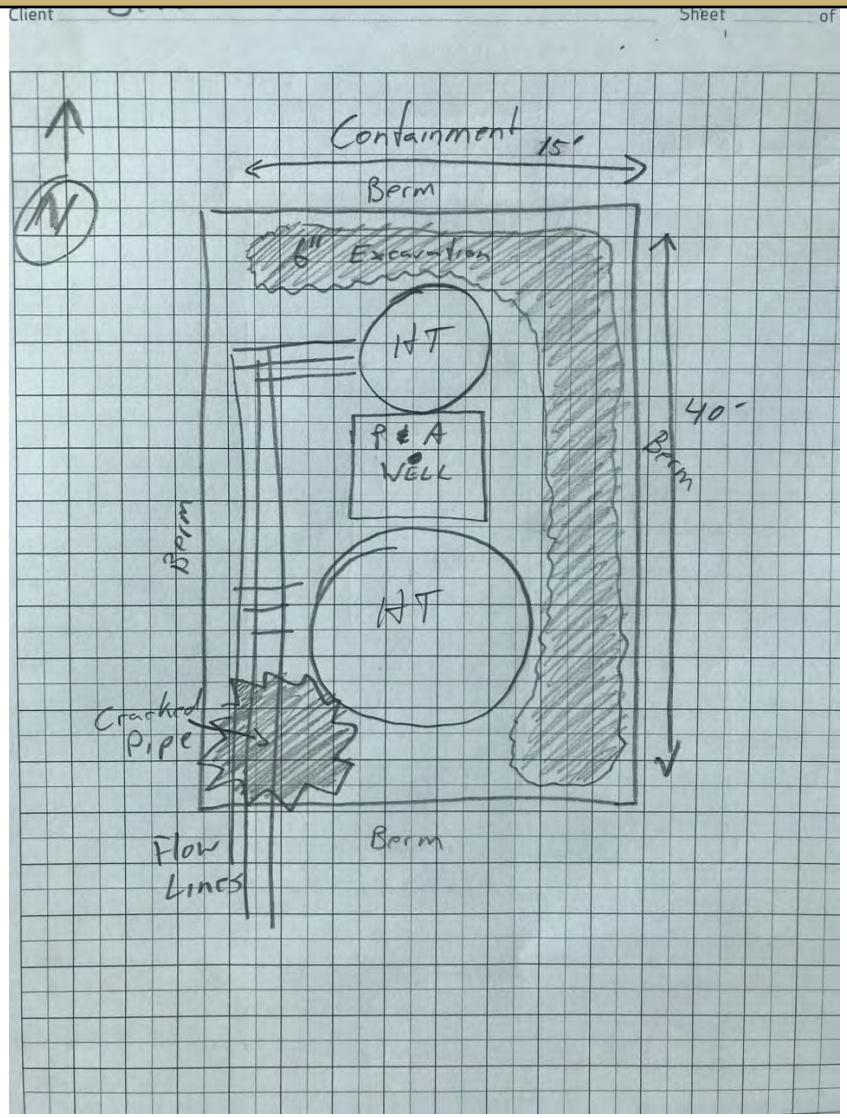
Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	11/2/2019
Site Location Name:	Townsend State #5	Report Run Date:	11/2/2019 9:12 PM
Project Owner:	Amanda Davis	File (Project) #:	19E-00575
Project Manager:	Natalie Gordon	API #:	30-025-34500
Client Contact Name:	Amanda Davis	Reference	Heater Treater
Client Contact Phone #:	(575) 748-0176		

Summary of Times	
Left Office	11/2/2019 6:30 AM
Arrived at Site	11/2/2019 7:46 AM
Departed Site	11/2/2019 12:18 PM
Returned to Office	11/2/2019 3:04 PM

Daily Site Visit Report

Site Sketch



Daily Site Visit Report

Summary of Daily Operations

7:47 Arrive on site.
Complete safety paperwork.
Remediate heater treater containment.
Field screen and obtain confirmatory samples.
Complete DFR.
Return to office.

Next Steps & Recommendations

1 Reschedule hydrovac for further excavation.

Daily Site Visit Report

Site Photos

Viewing Direction: West	**Viewing Direction**: North
	
Production containment	Production containment
Viewing Direction: North	**Viewing Direction**: South
	
Production containment	Production containment

Daily Site Visit Report

Viewing Direction: Northeast	**Viewing Direction**: East
	
Production containment	Production containment
Viewing Direction: Northwest	**Viewing Direction**: North
	
Cracked line	Cracked line

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Austin Harris

Signature: 

Signature

ATTACHMENT 7

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 03, 2019

Natalie Gordon

HRL Compliance Solutions
PO Box 1708
Artesia, NM 88211
TEL: (936) 689-0078
FAX

RE: Townsend 5 OrderNo.: 1909F47

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/26/2019 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 1
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-001 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	460	60		mg/Kg	20	10/1/2019 9:09:16 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	4200	94		mg/Kg	10	10/1/2019 1:40:31 AM	47779
Motor Oil Range Organics (MRO)	2300	470		mg/Kg	10	10/1/2019 1:40:31 AM	47779
Surr: DNOP	0	70-130	S	%Rec	10	10/1/2019 1:40:31 AM	47779
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/30/2019 8:26:00 PM	47785
Surr: BFB	107	77.4-118		%Rec	1	9/30/2019 8:26:00 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	9/30/2019 8:26:00 PM	47785
Toluene	ND	0.047		mg/Kg	1	9/30/2019 8:26:00 PM	47785
Ethylbenzene	ND	0.047		mg/Kg	1	9/30/2019 8:26:00 PM	47785
Xylenes, Total	ND	0.094		mg/Kg	1	9/30/2019 8:26:00 PM	47785
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/30/2019 8:26:00 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 2
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-002 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	430	60		mg/Kg	20	10/1/2019 9:21:41 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	6700	92		mg/Kg	10	10/1/2019 2:59:43 PM	47790
Motor Oil Range Organics (MRO)	5300	460		mg/Kg	10	10/1/2019 2:59:43 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/1/2019 2:59:43 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	20	4.7		mg/Kg	1	9/30/2019 9:12:59 PM	47785
Surr: BFB	104	77.4-118		%Rec	1	9/30/2019 9:12:59 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/30/2019 9:12:59 PM	47785
Toluene	ND	0.047		mg/Kg	1	9/30/2019 9:12:59 PM	47785
Ethylbenzene	ND	0.047		mg/Kg	1	9/30/2019 9:12:59 PM	47785
Xylenes, Total	ND	0.094		mg/Kg	1	9/30/2019 9:12:59 PM	47785
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	9/30/2019 9:12:59 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 3
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-003 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	120	60		mg/Kg	20	10/1/2019 9:34:06 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	3200	91		mg/Kg	10	10/2/2019 4:12:27 PM	47790
Motor Oil Range Organics (MRO)	2900	460		mg/Kg	10	10/2/2019 4:12:27 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/2/2019 4:12:27 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	62	4.9		mg/Kg	1	9/30/2019 10:00:03 PM	47785
Surr: BFB	128	77.4-118	S	%Rec	1	9/30/2019 10:00:03 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.071	0.024		mg/Kg	1	9/30/2019 10:00:03 PM	47785
Toluene	0.14	0.049		mg/Kg	1	9/30/2019 10:00:03 PM	47785
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2019 10:00:03 PM	47785
Xylenes, Total	0.33	0.097		mg/Kg	1	9/30/2019 10:00:03 PM	47785
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	9/30/2019 10:00:03 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 4
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-004 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	660	60		mg/Kg	20	10/1/2019 9:46:31 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	980	91		mg/Kg	10	10/2/2019 4:56:38 PM	47790
Motor Oil Range Organics (MRO)	1300	450		mg/Kg	10	10/2/2019 4:56:38 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/2/2019 4:56:38 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/30/2019 10:24:04 PM	47785
Surr: BFB	106	77.4-118		%Rec	1	9/30/2019 10:24:04 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/30/2019 10:24:04 PM	47785
Toluene	ND	0.049		mg/Kg	1	9/30/2019 10:24:04 PM	47785
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2019 10:24:04 PM	47785
Xylenes, Total	ND	0.098		mg/Kg	1	9/30/2019 10:24:04 PM	47785
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	9/30/2019 10:24:04 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 5
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-005 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	600	60		mg/Kg	20	10/1/2019 9:58:56 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	2400	86		mg/Kg	10	10/2/2019 5:18:44 PM	47790
Motor Oil Range Organics (MRO)	1900	430		mg/Kg	10	10/2/2019 5:18:44 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/2/2019 5:18:44 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/30/2019 10:47:52 PM	47785
Surr: BFB	103	77.4-118		%Rec	1	9/30/2019 10:47:52 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/30/2019 10:47:52 PM	47785
Toluene	ND	0.049		mg/Kg	1	9/30/2019 10:47:52 PM	47785
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2019 10:47:52 PM	47785
Xylenes, Total	ND	0.098		mg/Kg	1	9/30/2019 10:47:52 PM	47785
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/30/2019 10:47:52 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 6
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-006 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	940	60		mg/Kg	20	10/1/2019 10:11:21 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	380	96		mg/Kg	10	10/2/2019 6:03:07 PM	47790
Motor Oil Range Organics (MRO)	670	480		mg/Kg	10	10/2/2019 6:03:07 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/2/2019 6:03:07 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/30/2019 11:11:43 PM	47785
Surr: BFB	98.4	77.4-118		%Rec	1	9/30/2019 11:11:43 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/30/2019 11:11:43 PM	47785
Toluene	ND	0.048		mg/Kg	1	9/30/2019 11:11:43 PM	47785
Ethylbenzene	ND	0.048		mg/Kg	1	9/30/2019 11:11:43 PM	47785
Xylenes, Total	ND	0.097		mg/Kg	1	9/30/2019 11:11:43 PM	47785
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	9/30/2019 11:11:43 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909F47**
Date Reported: **10/3/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: CS 7
Project: Townsend 5
Collection Date: 9/23/2019 3:00:00 PM
Lab ID: 1909F47-007 **Matrix:** SOIL **Received Date:** 9/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1400	60		mg/Kg	20	10/1/2019 10:23:45 PM	47866
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	540	90		mg/Kg	10	10/1/2019 4:50:15 PM	47790
Motor Oil Range Organics (MRO)	1200	450		mg/Kg	10	10/1/2019 4:50:15 PM	47790
Surr: DNOP	0	70-130	S	%Rec	10	10/1/2019 4:50:15 PM	47790
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/30/2019 11:35:40 PM	47785
Surr: BFB	108	77.4-118		%Rec	1	9/30/2019 11:35:40 PM	47785
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/30/2019 11:35:40 PM	47785
Toluene	ND	0.047		mg/Kg	1	9/30/2019 11:35:40 PM	47785
Ethylbenzene	ND	0.047		mg/Kg	1	9/30/2019 11:35:40 PM	47785
Xylenes, Total	ND	0.093		mg/Kg	1	9/30/2019 11:35:40 PM	47785
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	9/30/2019 11:35:40 PM	47785

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909F47**
03-Oct-19

Client: HRL Compliance Solutions
Project: Townsend 5

Sample ID: **MB-47866**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **47866**	RunNo: **63337**							
Prep Date: **10/1/2019**	Analysis Date: **10/1/2019**	SeqNo: **2162858**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-47866**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **47866**	RunNo: **63337**							
Prep Date: **10/1/2019**	Analysis Date: **10/1/2019**	SeqNo: **2162859**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.5	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909F47**
03-Oct-19

Client: HRL Compliance Solutions
Project: Townsend 5

Sample ID: **LCS-47779** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **47779** RunNo: **63295**
Prep Date: **9/27/2019** Analysis Date: **9/30/2019** SeqNo: **2160208** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	63.9	124			
Surr: DNOP	4.8		5.000		96.5	70	130			

Sample ID: **MB-47779** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **47779** RunNo: **63295**
Prep Date: **9/27/2019** Analysis Date: **9/30/2019** SeqNo: **2160209** Units: **mg/Kg**

Analyte	Result	PQL	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	11		10.00		114	70	130			

Sample ID: **LCS-47790** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **47790** RunNo: **63295**
Prep Date: **9/27/2019** Analysis Date: **10/1/2019** SeqNo: **2161411** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	63.9	124			
Surr: DNOP	4.8		5.000		96.8	70	130			

Sample ID: **MB-47790** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **47790** RunNo: **63295**
Prep Date: **9/27/2019** Analysis Date: **10/1/2019** SeqNo: **2161412** Units: **mg/Kg**

Analyte	Result	PQL	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	11		10.00		113	70	130			

Sample ID: **LCS-47875** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **47875** RunNo: **63364**
Prep Date: **10/2/2019** Analysis Date: **10/2/2019** SeqNo: **2163537** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	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
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909F47**
03-Oct-19

Client: HRL Compliance Solutions
Project: Townsend 5

Sample ID: **MB-47875**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **47875**	RunNo: **63364**
Prep Date: **10/2/2019**	Analysis Date: **10/2/2019**	SeqNo: **2163538** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909F47**

03-Oct-19

Client: HRL Compliance Solutions

Project: Townsend 5

Sample ID: **MB-47785**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **47785**	RunNo: **63312**
Prep Date: **9/27/2019**	Analysis Date: **9/30/2019**	SeqNo: **2160553** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	77.4	118			

Sample ID: **LCS-47785**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **47785**	RunNo: **63312**
Prep Date: **9/27/2019**	Analysis Date: **9/30/2019**	SeqNo: **2160554** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	80	120			
Surr: BFB	1100		1000		110	77.4	118			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909F47**

03-Oct-19

Client: HRL Compliance Solutions

Project: Townsend 5

Sample ID: **MB-47785**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **47785**	RunNo: **63312**
Prep Date: **9/27/2019**	Analysis Date: **9/30/2019**	SeqNo: **2160589** Units: **mg/Kg**

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	1.0		1.000		100	80	120			

Sample ID: **LCS-47785**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **47785**	RunNo: **63312**
Prep Date: **9/27/2019**	Analysis Date: **9/30/2019**	SeqNo: **2160751** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.5	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HRL COMPLIANCE ART Work Order Number: 1909F47 RcptNo: 1

Received By: Juan Rojas 9/26/2019 8:50:00 AM

Completed By: **Erin Melendrez** 9/26/2019 3:24:45 PM

Reviewed By: 9/26/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DM 9/27/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: HRL

Mailing Address: ON FILE

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day Turn
☑ Standard ☐ Rush

Project Name: TOWNSEND #5

Project #: WO # 20715138

Project Manager: Natalie Gordon

Sampler: Natalie Gordon

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1 + 0.3 = 1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1909F47	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F^-, Cl^-, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
9-23-19	1500	soil	CS 1	Jar 1	ICE	-001	X		X					X								
			CS 2			-002																
			CS 3			-003																
			CS 4			-004																
			CS 5			-005																
			CS 6			-006																
			CS 7			-007																

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/25/19	1045			9/25/19	1045
9/25/19	1910			9/26/19	8:50

Remarks:
Email results to:
nataliengordon@hotmail.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 25, 2019

Dennis Williams

Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210
TEL: (575) 748-0176
FAX:

RE: Townsend State 5 OrderNo.: 1911774

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/16/2019 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-001 **Matrix:** SOIL

Client Sample ID: WS19-01 3'
Collection Date: 11/15/2019 2:30:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CJS**
Chloride	730	60		mg/Kg	20	11/20/2019 1:24:48 AM	48900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	1100	50		mg/Kg	5	11/20/2019 6:09:02 PM	48851
Motor Oil Range Organics (MRO)	530	250		mg/Kg	5	11/20/2019 6:09:02 PM	48851
Surr: DNOP	116	70-130		%Rec	5	11/20/2019 6:09:02 PM	48851
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	13	4.8		mg/Kg	1	11/19/2019 5:28:36 PM	48841
Surr: BFB	203	77.4-118	S	%Rec	1	11/19/2019 5:28:36 PM	48841
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	11/19/2019 5:28:36 PM	48841
Toluene	ND	0.048		mg/Kg	1	11/19/2019 5:28:36 PM	48841
Ethylbenzene	ND	0.048		mg/Kg	1	11/19/2019 5:28:36 PM	48841
Xylenes, Total	0.11	0.097		mg/Kg	1	11/19/2019 5:28:36 PM	48841
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	11/19/2019 5:28:36 PM	48841

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-002 **Matrix:** SOIL

Client Sample ID: WS19-02 3'
Collection Date: 11/15/2019 2:35:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CJS**
Chloride	560	60		mg/Kg	20	11/20/2019 1:37:13 AM	48900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	22	9.1		mg/Kg	1	11/19/2019 8:29:52 AM	48857
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/19/2019 8:29:52 AM	48857
Surr: DNOP	83.3	70-130		%Rec	1	11/19/2019 8:29:52 AM	48857
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/19/2019 9:35:00 AM	48850
Surr: BFB	100	77.4-118		%Rec	1	11/19/2019 9:35:00 AM	48850
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	11/19/2019 9:35:00 AM	48850
Toluene	ND	0.048		mg/Kg	1	11/19/2019 9:35:00 AM	48850
Ethylbenzene	ND	0.048		mg/Kg	1	11/19/2019 9:35:00 AM	48850
Xylenes, Total	ND	0.096		mg/Kg	1	11/19/2019 9:35:00 AM	48850
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	11/19/2019 9:35:00 AM	48850

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-003 **Matrix:** SOIL

Client Sample ID: BS19-01 5'
Collection Date: 11/15/2019 2:40:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	490	60		mg/Kg	20	11/20/2019 1:49:37 AM	48900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	810	92		mg/Kg	10	11/19/2019 8:57:08 AM	48857
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	11/19/2019 8:57:08 AM	48857
Surr: DNOP	0	70-130	S	%Rec	10	11/19/2019 8:57:08 AM	48857
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	12	5.0		mg/Kg	1	11/19/2019 10:43:51 AM	48850
Surr: BFB	195	77.4-118	S	%Rec	1	11/19/2019 10:43:51 AM	48850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/19/2019 10:43:51 AM	48850
Toluene	ND	0.050		mg/Kg	1	11/19/2019 10:43:51 AM	48850
Ethylbenzene	ND	0.050		mg/Kg	1	11/19/2019 10:43:51 AM	48850
Xylenes, Total	0.11	0.099		mg/Kg	1	11/19/2019 10:43:51 AM	48850
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	11/19/2019 10:43:51 AM	48850

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
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

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-004 **Matrix:** SOIL

Client Sample ID: BS19-02 3'
Collection Date: 11/15/2019 2:45:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	390	60		mg/Kg	20	11/20/2019 2:02:02 AM	48900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	60	9.9		mg/Kg	1	11/19/2019 9:06:17 AM	48857
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2019 9:06:17 AM	48857
Surr: DNOP	107	70-130		%Rec	1	11/19/2019 9:06:17 AM	48857
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/19/2019 12:15:50 PM	48850
Surr: BFB	108	77.4-118		%Rec	1	11/19/2019 12:15:50 PM	48850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	11/19/2019 12:15:50 PM	48850
Toluene	ND	0.046		mg/Kg	1	11/19/2019 12:15:50 PM	48850
Ethylbenzene	ND	0.046		mg/Kg	1	11/19/2019 12:15:50 PM	48850
Xylenes, Total	ND	0.093		mg/Kg	1	11/19/2019 12:15:50 PM	48850
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	11/19/2019 12:15:50 PM	48850

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-005 **Matrix:** SOIL

Client Sample ID: BG19-01 0'
Collection Date: 11/15/2019 2:50:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	11/20/2019 2:14:26 AM	48900
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/21/2019 6:56:01 PM	48921
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/21/2019 6:56:01 PM	48921
Surr: DNOP	93.4	70-130		%Rec	1	11/21/2019 6:56:01 PM	48921
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/19/2019 12:38:48 PM	48850
Surr: BFB	97.2	77.4-118		%Rec	1	11/19/2019 12:38:48 PM	48850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/19/2019 12:38:48 PM	48850
Toluene	ND	0.047		mg/Kg	1	11/19/2019 12:38:48 PM	48850
Ethylbenzene	ND	0.047		mg/Kg	1	11/19/2019 12:38:48 PM	48850
Xylenes, Total	ND	0.095		mg/Kg	1	11/19/2019 12:38:48 PM	48850
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	11/19/2019 12:38:48 PM	48850

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-006 **Matrix:** SOIL

Client Sample ID: BG19-01 2'
Collection Date: 11/15/2019 2:55:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	11/20/2019 4:21:39 PM	48908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/19/2019 9:24:31 AM	48857
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2019 9:24:31 AM	48857
Surr: DNOP	80.9	70-130		%Rec	1	11/19/2019 9:24:31 AM	48857
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/19/2019 1:01:47 PM	48850
Surr: BFB	99.8	77.4-118		%Rec	1	11/19/2019 1:01:47 PM	48850
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	11/19/2019 1:01:47 PM	48850
Toluene	ND	0.050		mg/Kg	1	11/19/2019 1:01:47 PM	48850
Ethylbenzene	ND	0.050		mg/Kg	1	11/19/2019 1:01:47 PM	48850
Xylenes, Total	ND	0.099		mg/Kg	1	11/19/2019 1:01:47 PM	48850
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	11/19/2019 1:01:47 PM	48850

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911774**
Date Reported: **11/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Project: Townsend State 5
Lab ID: 1911774-007 **Matrix:** SOIL

Client Sample ID: BG19-01 4'
Collection Date: 11/15/2019 3:00:00 PM
Received Date: 11/16/2019 10:22:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	11/20/2019 4:34:03 PM	48908
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/19/2019 9:33:42 AM	48857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2019 9:33:42 AM	48857
Surr: DNOP	108	70-130		%Rec	1	11/19/2019 9:33:42 AM	48857
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/19/2019 1:24:43 PM	48850
Surr: BFB	96.5	77.4-118		%Rec	1	11/19/2019 1:24:43 PM	48850
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	11/19/2019 1:24:43 PM	48850
Toluene	ND	0.048		mg/Kg	1	11/19/2019 1:24:43 PM	48850
Ethylbenzene	ND	0.048		mg/Kg	1	11/19/2019 1:24:43 PM	48850
Xylenes, Total	ND	0.095		mg/Kg	1	11/19/2019 1:24:43 PM	48850
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	11/19/2019 1:24:43 PM	48850

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**

25-Nov-19

Client: Devon Energy

Project: Townsend State 5

Sample ID: **MB-48900** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **48900** RunNo: **64625**

Prep Date: **11/19/2019** Analysis Date: **11/19/2019** SeqNo: **2213578** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-48900** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **48900** RunNo: **64625**

Prep Date: **11/19/2019** Analysis Date: **11/19/2019** SeqNo: **2213579** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: **MB-48908** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **48908** RunNo: **64637**

Prep Date: **11/20/2019** Analysis Date: **11/20/2019** SeqNo: **2214771** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-48908** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **48908** RunNo: **64637**

Prep Date: **11/20/2019** Analysis Date: **11/20/2019** SeqNo: **2214772** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**

25-Nov-19

Client: Devon Energy

Project: Townsend State 5

Sample ID: **LCS-48851** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **48851** RunNo: **64601**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	63.9	124			
Surr: DNOP	4.8		5.000		95.5	70	130			

Sample ID: **LCS-48857** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **48857** RunNo: **64601**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212603** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	63.9	124			
Surr: DNOP	4.6		5.000		91.4	70	130			

Sample ID: **MB-48851** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **48851** RunNo: **64601**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212605** Units: **mg/Kg**

Analyte	Result	PQL	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	9.5		10.00		94.7	70	130			

Sample ID: **MB-48857** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **48857** RunNo: **64601**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212606** Units: **mg/Kg**

Analyte	Result	PQL	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	11		10.00		112	70	130			

Sample ID: **1911774-002AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **WS19-02 3'** Batch ID: **48857** RunNo: **64601**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212652** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.5	47.30	21.67	93.6	57	142			
Surr: DNOP	4.3		4.730		89.9	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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**

25-Nov-19

Client: Devon Energy

Project: Townsend State 5

Sample ID: **1911774-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **WS19-02 3'** Batch ID: **48857** RunNo: **64601**

Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2212653** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	8.9	44.44	21.67	73.6	57	142	19.2	20	
Surr: DNOP	3.6		4.444		81.5	70	130	0	0	

Sample ID: **LCS-48921** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **48921** RunNo: **64670**

Prep Date: **11/20/2019** Analysis Date: **11/21/2019** SeqNo: **2215580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.8	63.9	124			
Surr: DNOP	4.9		5.000		98.5	70	130			

Sample ID: **MB-48921** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **48921** RunNo: **64670**

Prep Date: **11/20/2019** Analysis Date: **11/21/2019** SeqNo: **2215581** Units: **mg/Kg**

Analyte	Result	PQL	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	11		10.00		109	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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**

25-Nov-19

Client: Devon Energy

Project: Townsend State 5

Sample ID: **MB-48841**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **48841**	RunNo: **64615**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213051**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	77.4	118			

Sample ID: **LCS-48841**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **48841**	RunNo: **64615**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213052**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	1200		1000		118	77.4	118			

Sample ID: **MB-48850**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **48850**	RunNo: **64616**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213163**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.7	77.4	118			

Sample ID: **LCS-48850**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **48850**	RunNo: **64616**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213164**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	80	120			
Surr: BFB	1100		1000		110	77.4	118			

Sample ID: **1911774-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **WS19-02 3'**	Batch ID: **48850**	RunNo: **64616**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213166**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.70	0	108	69.1	142			
Surr: BFB	1000		947.9		110	77.4	118			

Sample ID: **1911774-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **WS19-02 3'**	Batch ID: **48850**	RunNo: **64616**							
Prep Date: **11/18/2019**	Analysis Date: **11/19/2019**	SeqNo: **2213167**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**
25-Nov-19

Client: Devon Energy
Project: Townsend State 5

Sample ID: **1911774-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS19-02 3'** Batch ID: **48850** RunNo: **64616**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213167** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.90	0	106	69.1	142	1.68	20	
Surr: BFB	1100		956.0		112	77.4	118	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**

25-Nov-19

Client: Devon Energy

Project: Townsend State 5

Sample ID: **MB-48841** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **48841** RunNo: **64615**

Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213101** Units: **mg/Kg**

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	1.1		1.000		108	80	120			

Sample ID: **LCS-48841** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **48841** RunNo: **64615**

Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213107** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: **MB-48850** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **48850** RunNo: **64616**

Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213201** Units: **mg/Kg**

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	0.95		1.000		94.6	80	120			

Sample ID: **LCS-48850** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **48850** RunNo: **64616**

Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213202** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.7	80	120			
Toluene	0.90	0.050	1.000	0	89.5	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911774**
25-Nov-19

Client: Devon Energy
Project: Townsend State 5

Sample ID: **1911774-003AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BS19-01 5'** Batch ID: **48850** RunNo: **64616**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9766	0.01056	92.6	76	123			
Toluene	0.91	0.049	0.9766	0.008948	92.0	80.3	127			
Ethylbenzene	0.93	0.049	0.9766	0.02239	93.1	80.2	131			
Xylenes, Total	2.9	0.098	2.930	0.1137	93.8	78	133			
Surr: 4-Bromofluorobenzene	0.91		0.9766		93.3	80	120			

Sample ID: **1911774-003AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BS19-01 5'** Batch ID: **48850** RunNo: **64616**
Prep Date: **11/18/2019** Analysis Date: **11/19/2019** SeqNo: **2213206** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.023	0.9268	0.01056	91.9	76	123	5.94	20	
Toluene	0.85	0.046	0.9268	0.008948	90.7	80.3	127	6.55	20	
Ethylbenzene	0.87	0.046	0.9268	0.02239	91.4	80.2	131	6.95	20	
Xylenes, Total	2.7	0.093	2.780	0.1137	91.6	78	133	7.38	20	
Surr: 4-Bromofluorobenzene	0.85		0.9268		91.4	80	120	0	0	

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **DEVON ENERGY** Work Order Number: **1911774** RcptNo: **1**

Received By: **Anne Thorne** **11/16/2019 10:22:00 AM** Anne Thorne

Completed By: **Yazmine Garduno** **11/18/2019 8:51:01 AM** Yazmine Garduno

Reviewed By: YG 11/18/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: ELM 11/18/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				
2	1.3	Good				

Chain-of-Custody Record

Client: Devon Energy ~~Inc~~

Mailing Address: on File

Phone #: 575 748 0176

email or Fax#: Permian@Vertex.ca

QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)
Jgordon@Vertex.ca
dwilliams@vertex.ca

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day Turn
☑ Standard ☐ Rush

Project Name: Townsend State #5

Project #: 19E-00614

Project Manager: Dennis Williams

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 1.3 - 0.6 = 0.7 (°C) CF
1.9 - 0.6 = 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1911774	BTEX / MTBE / TMB's (8021)	TPH: 8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11-15-19	2:30	Soil	WS19-01 3'	Glass Jar	ICE	-001	X	X					X			
11	2:35	11	WS19-02 3'	11	11	-002	X	X					X			
11	2:40	11	BS19-01 5'	11	11	-003	X	X					X			
11	2:45	11	BS19-02 3'	11	11	-004	X	X					X			
11	2:50	11	BG19-01 0'	11	11	-005	X	X					X			
11	2:55	11	11 01 2'	11	11	-006	X	X					X			
11	3:00	11	11 01 4'	11	11	-007	X	X					X			

Date	Time	Relinquished by	Received by	Via	Date	Time
11-15-2019	3:02	Dennis Williams				
11/15	1900				11/16/19	1022

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 06, 2019

Natalie Gordon

Vertex Resource Group Ltd.
213 S. Mesa St
Carlsbad, NM 88220
TEL:
FAX

RE: Townsend State 5 OrderNo.: 1911C65

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/27/2019 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1911C65**
Date Reported: **12/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.
Client Sample ID: WS19-01 3'
Project: Townsend State 5
Collection Date: 11/15/2019 1:00:00 PM
Lab ID: 1911C65-001 **Matrix:** SOIL
Received Date: 11/27/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	12	9.4	H	mg/Kg	1	12/3/2019 3:23:23 PM
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	12/3/2019 3:23:23 PM
Surr: DNOP	118	70-130	H	%Rec	1	12/3/2019 3:23:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **CJS**
Chloride	97	60		mg/Kg	20	12/5/2019 10:40:12 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.024	H	mg/Kg	1	12/3/2019 1:07:36 AM
Toluene	ND	0.048	H	mg/Kg	1	12/3/2019 1:07:36 AM
Ethylbenzene	ND	0.048	H	mg/Kg	1	12/3/2019 1:07:36 AM
Xylenes, Total	ND	0.096	H	mg/Kg	1	12/3/2019 1:07:36 AM
Surr: 1,2-Dichloroethane-d4	101	70-130	H	%Rec	1	12/3/2019 1:07:36 AM
Surr: 4-Bromofluorobenzene	90.9	70-130	H	%Rec	1	12/3/2019 1:07:36 AM
Surr: Dibromofluoromethane	111	70-130	H	%Rec	1	12/3/2019 1:07:36 AM
Surr: Toluene-d8	98.6	70-130	H	%Rec	1	12/3/2019 1:07:36 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	12/3/2019 1:07:36 AM
Surr: BFB	93.1	70-130	H	%Rec	1	12/3/2019 1:07:36 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
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

Analytical Report
Lab Order **1911C65**
Date Reported: **12/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.
Client Sample ID: BS 19-01 5'
Project: Townsend State 5
Collection Date: 11/15/2019 1:00:00 PM
Lab ID: 1911C65-002 **Matrix:** SOIL **Received Date:** 11/27/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	ND	9.8	H	mg/Kg	1	12/3/2019 3:32:37 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	12/3/2019 3:32:37 PM
Surr: DNOP	86.0	70-130	H	%Rec	1	12/3/2019 3:32:37 PM
EPA METHOD 300.0: ANIONS						Analyst: **CJS**
Chloride	ND	60		mg/Kg	20	12/5/2019 11:17:15 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JMR**
Benzene	ND	0.025	H	mg/Kg	1	12/3/2019 1:35:54 AM
Toluene	ND	0.049	H	mg/Kg	1	12/3/2019 1:35:54 AM
Ethylbenzene	ND	0.049	H	mg/Kg	1	12/3/2019 1:35:54 AM
Xylenes, Total	ND	0.098	H	mg/Kg	1	12/3/2019 1:35:54 AM
Surr: 1,2-Dichloroethane-d4	97.7	70-130	H	%Rec	1	12/3/2019 1:35:54 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	H	%Rec	1	12/3/2019 1:35:54 AM
Surr: Dibromofluoromethane	111	70-130	H	%Rec	1	12/3/2019 1:35:54 AM
Surr: Toluene-d8	100	70-130	H	%Rec	1	12/3/2019 1:35:54 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JMR**
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	12/3/2019 1:35:54 AM
Surr: BFB	94.0	70-130	H	%Rec	1	12/3/2019 1:35:54 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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C65**

06-Dec-19

Client: Vertex Resource Group Ltd.

Project: Townsend State 5

Sample ID: **MB-49160**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **49160**	RunNo: **64920**							
Prep Date: **12/4/2019**	Analysis Date: **12/4/2019**	SeqNo: **2227398**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-49160**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **49160**	RunNo: **64920**							
Prep Date: **12/4/2019**	Analysis Date: **12/4/2019**	SeqNo: **2227400**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C65**

06-Dec-19

Client: Vertex Resource Group Ltd.

Project: Townsend State 5

Sample ID: **LCS-49070** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **49070** RunNo: **64876**
Prep Date: **12/2/2019** Analysis Date: **12/3/2019** SeqNo: **2224173** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.0	70	130			

Sample ID: **MB-49070** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **49070** RunNo: **64876**
Prep Date: **12/2/2019** Analysis Date: **12/3/2019** SeqNo: **2224174** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	70	130			

Sample ID: **LCS-49089** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **49089** RunNo: **64876**
Prep Date: **12/2/2019** Analysis Date: **12/3/2019** SeqNo: **2224924** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.9	63.9	124			
Surr: DNOP	4.1		5.000		82.7	70	130			

Sample ID: **MB-49089** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **49089** RunNo: **64876**
Prep Date: **12/2/2019** Analysis Date: **12/3/2019** SeqNo: **2224925** Units: **mg/Kg**

Analyte	Result	PQL	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	8.5		10.00		85.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C65**
06-Dec-19

Client: Vertex Resource Group Ltd.
Project: Townsend State 5

Sample ID: **lcs-49064** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **49064** RunNo: **64875**
Prep Date: **11/27/2019** Analysis Date: **12/2/2019** SeqNo: **2224128** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	68	135			
Toluene	0.99	0.050	1.000	0	99.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.9	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.50		0.5000		99.5	70	130			

Sample ID: **mb-49064** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **49064** RunNo: **64875**
Prep Date: **11/27/2019** Analysis Date: **12/2/2019** SeqNo: **2224129** Units: **mg/Kg**

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: 1,2-Dichloroethane-d4	0.49		0.5000		98.6	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.2	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.50		0.5000		99.4	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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C65**

06-Dec-19

Client: Vertex Resource Group Ltd.

Project: Townsend State 5

Sample ID: **lcs-49064**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **49064**	RunNo: **64875**
Prep Date: **11/27/2019**	Analysis Date: **12/2/2019**	SeqNo: **2224171** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB	470		500.0		94.5	70	130			

Sample ID: **mb-49064**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **49064**	RunNo: **64875**
Prep Date: **11/27/2019**	Analysis Date: **12/2/2019**	SeqNo: **2224172** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.0	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **VERTEX CARLSBAD** Work Order Number: **1911C65** RcptNo: **1**

Received By: Juan Rojas **11/27/2019 9:00:00 AM**

Completed By: **Leah Baca** **11/27/2019 10:21:29 AM** Leah S Baca

Reviewed By: DM 11/27/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: ENM 11/27/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good				
2	1.7	Good				

Chain-of-Custody Record

Client: VERTEX RESOURCE GROUP

Mailing Address: ON FILE

Phone #:

email or Fax#: ngordon@vertex.ca

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush

Project Name: Townsend State #5

Project #: 19E-00575-031

Project Manager: N. GORDON

Sampler: DENNIS WILLIAMS

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.4-0.2=0.2(°C) 1.9-0.2=1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1911C65	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/15/19	1300	soil	WS 19-01 3'	1 jar	ICE	-001	X	X					X			
11/15/19	↓	soil	BS 19-01 5'	↓	↓	-002	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/26/19	1400				11/26	1400
11/26	1900			carrier	11/27/19	9:00

Remarks:
send results to permian@vertex.ca
ngordon@vertex.ca

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

State of New Mexico
Oil Conservation Division

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wes Mathews . Title: EnvironmentalRepresentative

Signature: Wesley Mathews Date: _____

email: Wesley.mathews@dvn.com . Telephone: 575-746-5549 .

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nCH1827850988
District RP	1RP-5222
Facility ID	
Application ID	pCH1828936373

Closure

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

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

[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: 1/30/2020

email: wesley.mathews@dvn.com . Telephone: 575-746-5549 .

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____