



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

October 21, 2020

NMOCD District 2
Mr. Mike Bratcher
811 S. First Street
Artesia, NM 88210

**Re: Site Assessment and Closure Report
Hawkeye 7 Federal #1
API No. 30-025-00892
GPS: Latitude 32.66946 Longitude -103.81169
UL "M", Sec. 07, T19S, R32E
Eddy County, NM
NMOCD Ref. No. 1RP-4986**

Dear Mr. Bratcher,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment, site remediation and has prepared this Closure Report for a produced water release that occurred at the Hawkeye 7 Fed 1 (Hawkeye). The initial C-141 was submitted on February 23, 2018 (Appendix C). This incident was assigned 1RP-4986, Incident ID NOY1806632744, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Hawkeye is located approximately thirty (30) miles northeast of Carlsbad, NM. This spill site is in Unit M, Section 07, Township 19S, Range 32E, Latitude 32.66946, Longitude -103.81169, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Simona fine sandy loam, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Hawkeye (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 100 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is a Playa located approximately 5.61 miles to the south of this location. See Appendix A for the referenced Surface Water Map.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 300 feet of any continuously flowing watercourse or any other significant watercourse					x
Within 200 feet of any lakebed, sinkhole, or playa lake (measures from the ordinary high-water mark)					x
Within 300 feet from an occupied permanent residence, school, hospital, institution, or church					x
Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within 1000 feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within 300 feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)					x
Within a 100-year floodplain					x

Reference Figure 2 for a TOPO Map.

Release Information

1RP-4986: On February 19, 2018, the water tank overflowed, causing a release of 11.5 barrels (bbls) of produced water into the earthen bermed containment. A vac truck was dispatched and recovered 10 bbls, and the heater treater was isolated to prevent any further release.

Site Assessment and Soil Sampling Results

On July 29, 2020, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table.

8-4-20 Soil Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 7-29-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	0	ND	ND	ND	105	ND	105	80
BG-2	0	ND	ND	ND	ND	ND	ND	ND
BG-3	0	ND	ND	ND	ND	ND	ND	16
S-1	0-6	ND	ND	ND	ND	ND	ND	1380
S-2	0-6	ND	ND	ND	ND	ND	ND	2360
	1	ND	ND	ND	ND	ND	ND	560
	2	ND	ND	ND	ND	ND	ND	720
	3	ND	ND	ND	ND	ND	ND	880
S-4	0-6	ND	ND	ND	ND	ND	ND	64
S-5	0-6	ND	ND	ND	ND	ND	ND	16
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	48
S-3	0-6	ND	ND	ND	7670	1910	9580	7330

ND- Analyte Not Detected

Remediation Activities

On September 4, 2020, Pima mobilized personnel and equipment to conduct remedial activities. The area in the vicinity of S-3 was excavated to a depth of 1.0-foot below grade surface (BGS). The excavation extended 10-feet by 30-feet horizontally away from the center of the initial sample point. Sidewall and bottom confirmation samples were obtained, and the laboratory results can be found in the following data table.

9-8-20 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 9-8-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N. Bottom	1	ND	ND	ND	14.3	ND	14.3	528
N. Sidewall	1	ND	ND	ND	ND	ND	ND	912
E. Bottom	1	ND	ND	ND	89.4	44.3	133.7	1380
E. Sidewall	1	ND	ND	ND	16.6	11	27.6	1420
S. Bottom	1	ND	ND	ND	557	160	717	928
S. Sidewall	1	ND	ND	ND	154	56	210	1760
W. Bottom	1	0.801	ND	21.5	2630	675	3326.5	1250
W. Sidewall	1	ND	ND	ND	31.1	20	51.1	1920

ND- Analyte Not Detected

Based on the results, Pima returned to the site to continue excavating from the west side, removing another 1.0-foot BGS from the excavation's bottom. Composite confirmation samples were again obtained to ensure the contamination was removed. The laboratory results can be found in the following data table.

9-29-20 Confirmation Soil Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')						
Sample Date 9-29-20						
Sample ID	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	
West Bottom	2	ND	ND	ND	ND	

ND- Analyte Not Detected

Complete Laboratory results can be found attached in Appendix D.

The final sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no further remediation activities were needed at this location. The excavation was backfilled with clean, like material, the area was then contoured to match the tank battery, and the berm was built back up.

Closure Request

After careful review, Pima requests that this incident, NOY1806632744, be closed. Devon has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Chris Jones at 575-964-7740 or chris@pimaoil.com.

Respectfully,



Chris Jones
Environmental Professional
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey and Geological Data
- Appendix C- C-141's
- Appendix D- Laboratory Reports
- Appendix E- Photographic Documentation



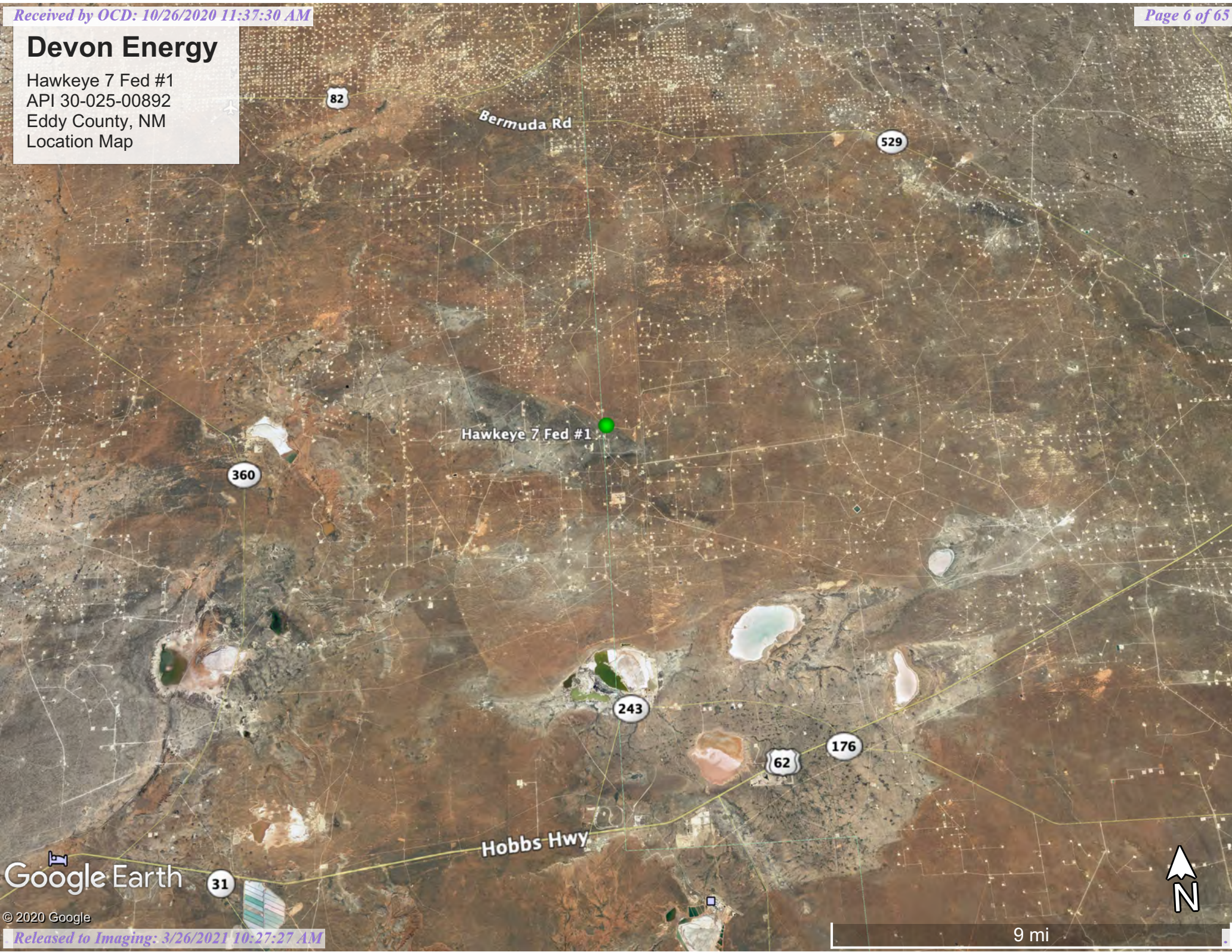
Pima Environmental Services

Figures:

- 1-Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site Map

Devon Energy

Hawkeye 7 Fed #1
API 30-025-00892
Eddy County, NM
Location Map



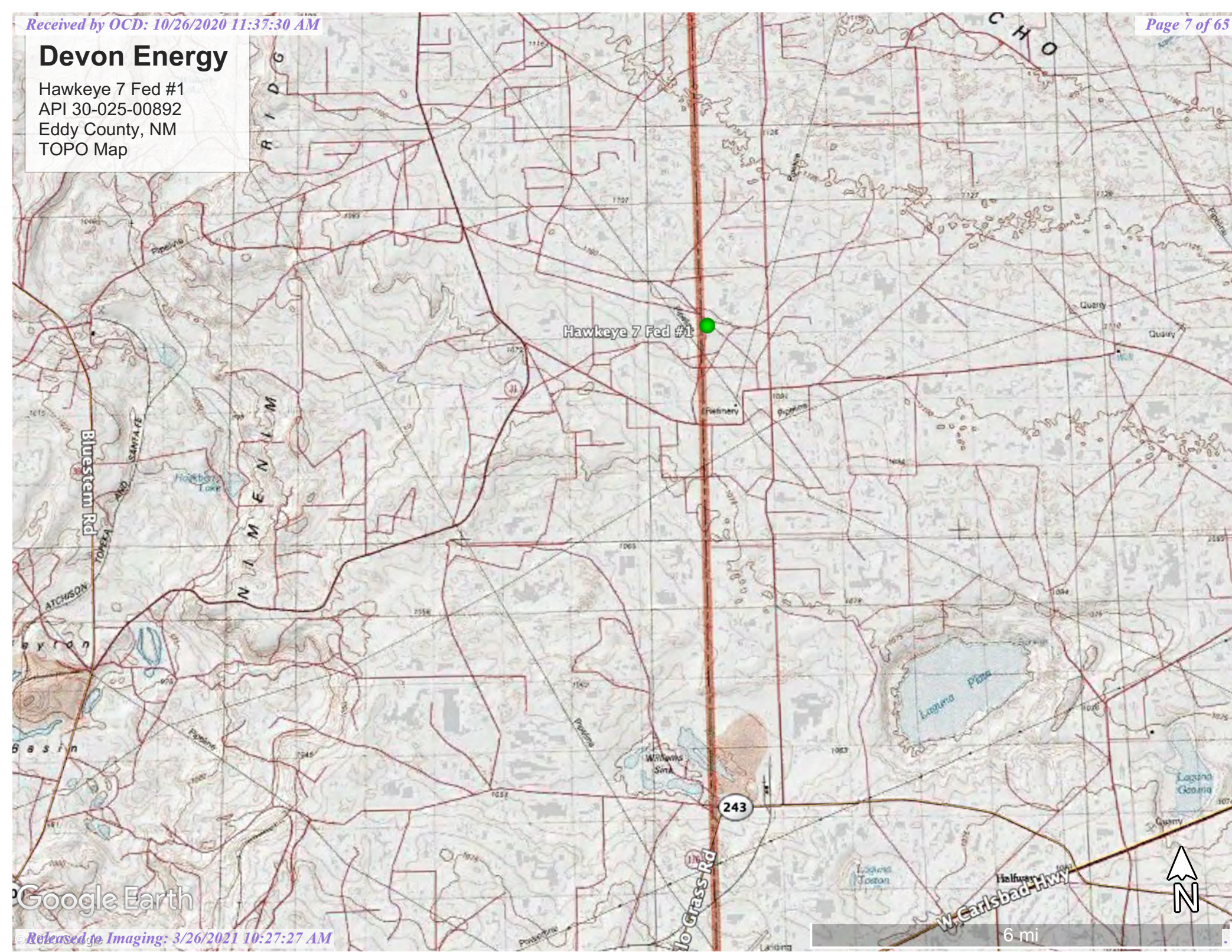
Google Earth

© 2020 Google

9 mi

Devon Energy

Hawkeye 7 Fed #1
API 30-025-00892
Eddy County, NM
TOPO Map



Google Earth

Devon Energy

Hawkeye 7 Fed #1
API 30-025-00892
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium

Hawkeye 7 Fed #1

Bluestem Rd

Google Earth



6 mi

Devon Energy

Hawkeye 7 Fed #1
API 30-025-00892
Eddy County, NM
Site Map

Legend

- Excavated Area
- Samples

Hawkeye 7 Fed #1

BG-1

S-1

S-5

BG-3

S-2

S-3

S-4

BG-2

Google Earth



100 ft



Pima Environmental Services

Appendix A
Water Surveys:
OSE
USGS



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	DepthWell	DepthWater	Water Column
CP 00563 POD1		CP	LE	1	1	2	19	19S	32E	612118	3613376*	2036	300		
CP 00640 POD1		CP	LE		2	2	19	19S	32E	612621	3613280*	2347	260	102	158
CP 01656 POD2		CP	LE	3	4	3	17	19S	32E	613364	3613648	2561	70		
CP 01656 POD1		CP	LE	3	4	3	17	19S	32E	613368	3613646	2565	70		
CP 01656 POD3		CP	LE	3	4	3	17	19S	32E	613374	3613633	2578	30		
CP 00639 POD1		CP	LE		3	1	20	19S	32E	613029	3612880*	2905	350	345	5

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 6

UTM NAD83 Radius Search (in meters):

Easting (X): 611386.539

Northing (Y): 3615276.335

Radius: 3000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/6/20 9:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Driller License:	882	Driller Company:	LARRY'S DRILLING & PUMP CO.	
Driller Name:	FELKINS, LARRY			
Drill Start Date:	02/08/1982	Drill Finish Date:	02/09/1982	Plug Date:
Log File Date:	03/04/1982	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:		Depth Well:	260 feet	Depth Water: 102 feet

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

- Click to hide News Bulletins
- Introducing The Next Generation of USGS Water Data for the Nation

Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324046103464101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324046103464101 19S.32E.08.2

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°40'42", Longitude 103°47'00" NAD27
Land-surface elevation 3,640 feet above NGVD29

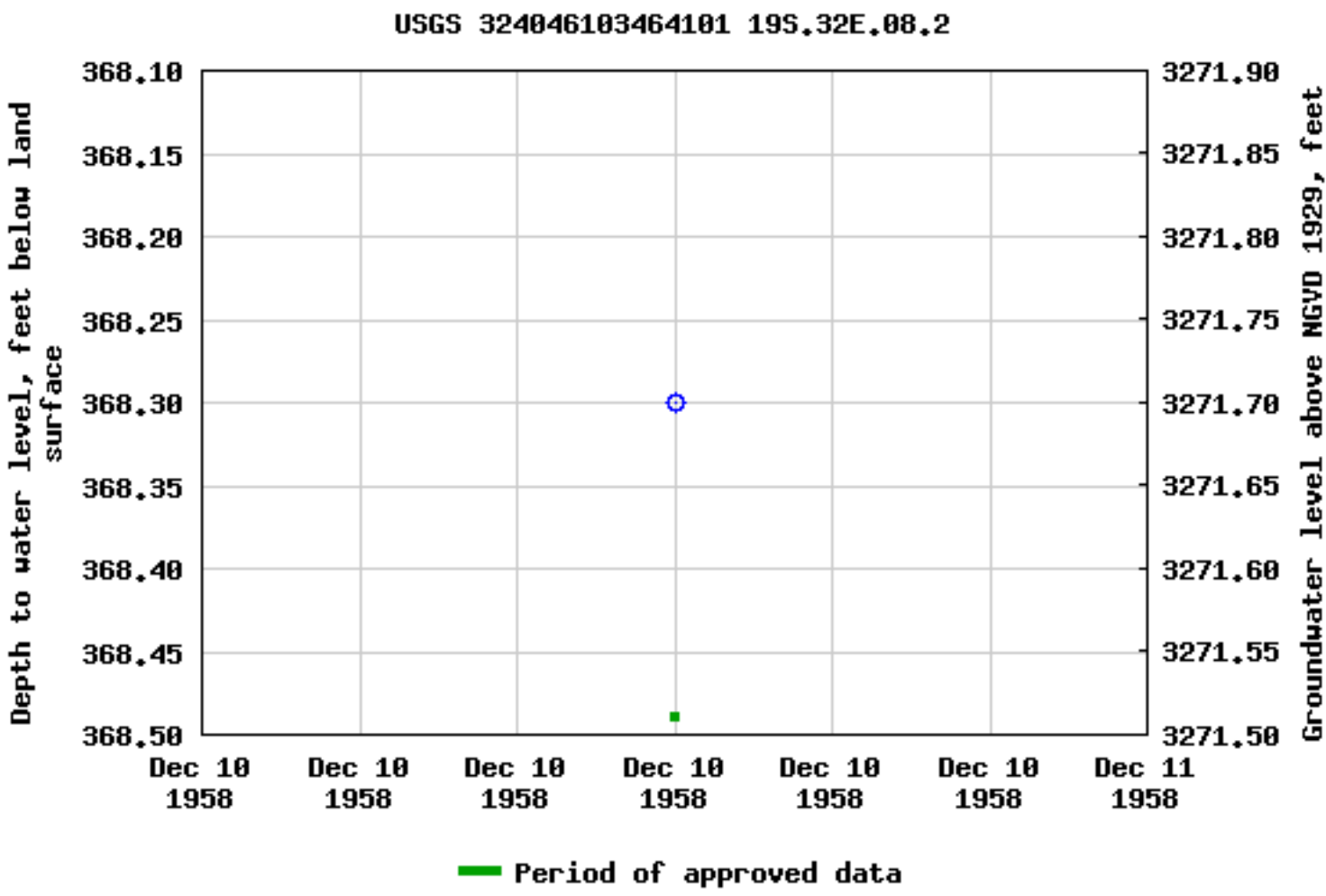
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)



National Water Information System: Mapper

Help Info

Sites

Map

Search

Surface-Water Sites

Groundwater Sites

Active Sites

Any data

Instantaneous data

Daily data

Water-quality data

Measurements

Annual Report

Inactive Sites

Any data

Instantaneous data

Daily data

Water-quality data

Measurements

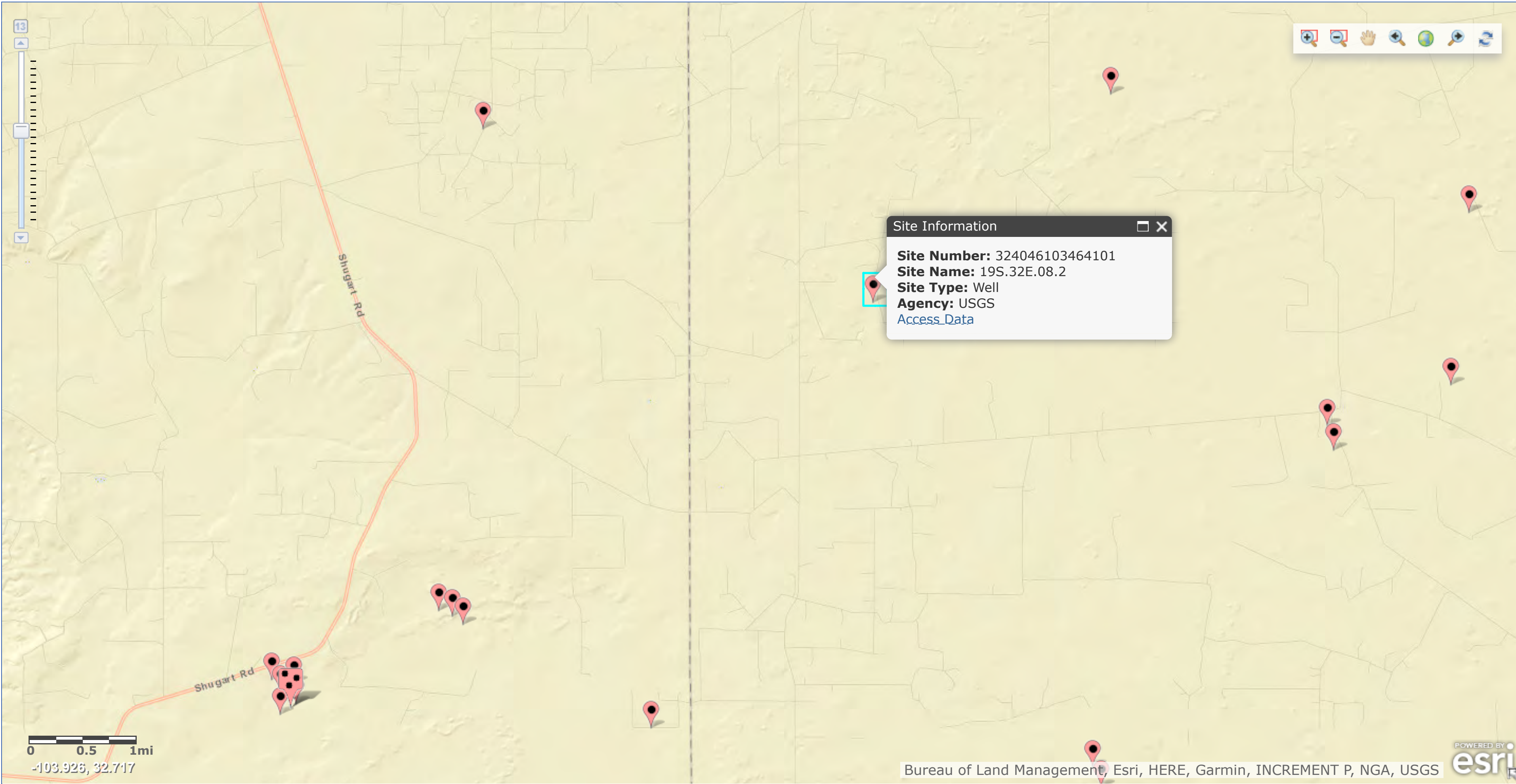
Annual Report

Springs

Atmospheric Sites

Other Sites

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Site Information



Devon Energy

Hawkeye 7 Fed #1
API 30-025-00892
Eddy County, NM
Surface Water Map

Legend

-  5.61 Miles
-  Surface Water

Hawkeye 7 Fed #1

5.61 Miles

Google Earth

243

3 mi





Pima Environmental Services

Appendix B
Soil Survey & Geological Data:
FEMA Flood Map

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

SE—Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2

Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam

Bk - 8 to 16 inches: gravelly fine sandy loam

Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very 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 content: 35 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water capacity: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea

Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 17, Jun 8, 2020

National Flood Hazard Layer FIRMette



103°49'1"W 32°40'25"N



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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



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 **8/6/2020 at 12:23 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.

Released to Imaging: 3/26/2021 10:27:27 AM

103°48'23"W 32°39'55"N

USGS The National Map: Orthoimagery. Data refreshed April 2020

Feet

1:6,000

1,500

2,000



Pima Environmental Services

Appendix C

C-141's:

Initial

Final

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Hubert Perry
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-9637
Facility Name Hawkeye 7 Federal 1	Facility Type Oil
Surface Owner Federal	Mineral Owner Federal
API No. 30-025-00892	

LOCATION OF RELEASE

Unit Letter M	Section 07	Township 19S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude 32.66946 Longitude -103.81169 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 11.5 bbls	Volume Recovered 10 bbls
Source of Release Water tank	Date and Hour of Occurrence February 19, 2018 10:00 AM MST	Date and Hour of Discovery February 19, 2018 10:00 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Olivia Yu BLM-Shelly Tucker	
By Whom? Mike Shoemaker	Date and Hour February 20, 2018 8:23 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

RECEIVED

By Olivia Yu at 8:58 am, Mar 07, 2018


Describe Cause of Problem and Remedial Action Taken.*

The water tank overflowed causing produced water to be release into the unlined earthen berm SPCC containment. The water leg on the heater treater was shut off and isolated to prevent farther release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 11.5 bbls of produced water was released from the water tank in an unlined earthen berm SPCC containment. A vacuum truck was dispatched and recovered approximately 10 bbls of produced water. An environmental contractor will be contacted to assist with delineation and remediation efforts.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Jennifer Reyna		OIL CONSERVATION DIVISION	
Printed Name: Jennifer Reyna		Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 3/7/2018	Expiration Date:	
E-mail Address: Jennifer.Reyna@dmv.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>	
Date: 2/23/2018 Phone: 575.746.5588	see attached directive		

* Attach Additional Sheets If Necessary

1RP-4986

nOY1806632744

pOY1806632992

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/5/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4986 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 4/7/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Hawkeye 7 Fed 1

11.5 bbls of Produced Water

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: Jennifer Reyna
Map is current as of: 27-Feb-2018



Miles
0 0.00 0.01 1:445

S7-T19S-R32E

11.5 bbls of PW

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>102</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NOY18906632744
District RP	1RP-4986
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: Tom Bynum Title: EHS Consultant
Signature: *Tom Bynum* Date: 10/12/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Incident ID	NOY18906632744
District RP	1RP-4986
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: Tom Bynum Title: EHS Consultant
Signature: Tom Bynum Date: 10/12/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

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: _____



Pima Environmental Services

Appendix D:
Laboratory Analysis



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

August 04, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: HAWKEYE 7 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 07/31/20 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0' (H001981-01)

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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTEX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	80.0	16.0	08/04/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	105	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0' (H001981-02)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/04/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	<10.0	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0' (H001981-03)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	<10.0	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 0-6" (H001981-04)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	08/04/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	<10.0	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 0-6" (H001981-05)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	08/04/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	<10.0	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 1' (H001981-06)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26		
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79		
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76		
Total BTX	<0.300	0.300	08/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/04/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2020	ND	201	101	200	12.1	
DRO >C10-C28*	<10.0	10.0	08/01/2020	ND	192	95.9	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	08/01/2020	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 2' (H001981-07)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26		
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79		
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76		
Total BTX	<0.300	0.300	08/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/04/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 3' (H001981-08)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26		
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49		
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79		
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76		
Total BTX	<0.300	0.300	08/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/04/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 0-6" (H001981-09)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/04/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 0-6" (H001981-10)

BTX 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	08/01/2020	ND	1.79	89.7	2.00	1.26	
Toluene*	<0.050	0.050	08/01/2020	ND	1.79	89.6	2.00	1.49	
Ethylbenzene*	<0.050	0.050	08/01/2020	ND	1.82	90.9	2.00	1.79	
Total Xylenes*	<0.150	0.150	08/01/2020	ND	5.26	87.7	6.00	1.76	
Total BTX	<0.300	0.300	08/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 1' (H001981-11)

BTX 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	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTX	<0.300	0.300	08/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/04/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 2' (H001981-12)

BTX 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	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTX	<0.300	0.300	08/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/04/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	<10.0	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/31/2020
Reported: 08/04/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 20869662
Project Location: DEVON - EDDY CO NM

Sampling Date: 07/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 0-6" (H001981-13)

BTX 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	08/03/2020	ND	1.97	98.4	2.00	2.40	
Toluene*	<0.050	0.050	08/03/2020	ND	1.97	98.7	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/03/2020	ND	2.01	100	2.00	2.53	
Total Xylenes*	<0.150	0.150	08/03/2020	ND	5.80	96.6	6.00	2.47	
Total BTX	<0.300	0.300	08/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	7330	16.0	08/04/2020	ND	400	100	400	0.00	

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*	<10.0	10.0	08/03/2020	ND	197	98.5	200	6.64	
DRO >C10-C28*	7670	10.0	08/03/2020	ND	202	101	200	8.14	
EXT DRO >C28-C36	1910	10.0	08/03/2020	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 417 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Pima		P.O. #: 20869662	
Project Manager: Chris Jones		Company: Devon	
Address: 1601 N. Turner		Attn: Tom Byrum	
City: Hobbs	State: NM Zip: 88240	Address:	
Phone #: 575-964-7740	Fax #: 	City:	
Project #: 20869662	Project Owner: Devon	State:	
Project Name: Hawkeye 7 Fed #1		Zip:	
Project Location: Eddy, NM		Phone #:	
Sampler Name: Mark Newcomb		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
H001981	BG-1	0	6			<input checked="" type="checkbox"/>				7.24.20	1500	<input checked="" type="checkbox"/>	Chlorides	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	BG-2	0									1510	<input checked="" type="checkbox"/>	TPH EXT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	BG-3	0									1515	<input checked="" type="checkbox"/>	BTEX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-1	0-6"									1520	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-2	1									1525	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-2	2									1530	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-2	3									1535	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-4	0-6									1545	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	5-5	0-6									1550	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

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Relinquished By:	Date: 7-31-20	Received By: Bill Devon	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1300	Date: 7-31-20	Received By: Bill Devon	All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS: Bill Devon	
Time:	Date:	Received By:	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Delivered By: (Circle One)	Observed Temp. °C 41.3	Sample Condition	CHECKED BY: (Initials) TD	Bacteria (only) <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Thermometer ID #113	Cool Intact <input checked="" type="checkbox"/>
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor None	Observed Temp. °C
				Corrected Temp. °C

FORM-000-R-3.1 06/04/20

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pima				BILL TO				ANALYSIS REQUEST			
Project Manager: Chris Jones				P.O. #: 20869662							
Address: 1601 N. Turner St Ste 500				Company: Devon							
City: Hobbs				Attn: Tom Elynn							
State: NM Zip: 88240				Address:							
Phone #: 575-764-7740 Fax #:				City:							
Project #: 20869662 Project Owner: Devon				State:				Zip:			
Project Name: Hawkeye 7 Fed # 1				Phone #:							
Project Location: Eddy, NM				Fax #:							
Sampler Name: Mark Newcomb											

FOR LAB USE ONLY		SAMPLE ID.		MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
HDD1981	S-5	G	1			-							7-29-20	1:55	-	-	-				
	S-5	C	2			-							"	1:00	-	-	-				
	S-3	G	0-6"			-							7-29-20		-	-	-				

Chlorides
TPH EXT
BTEX

REMARKS: B.I.1 Devon

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #13 ☐ **Bacteria (only)** Sample Condition Cool Intact ☐ Observed Temp. °C Yes ☐ No ☐

Correction Factor None ☐ **Corrected Temp. °C**

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:



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

September 17, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: HAWKEYE 7 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 09/11/20 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N BOTTOM (H002425-01)

BTX 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	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	14.3	10.0	09/14/2020	ND	171	85.3	200	8.54	QR-03
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N SIDE (H002425-02)

BTX 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	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	<10.0	10.0	09/14/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	<10.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E BOTTOM (H002425-03)

BTX 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	09/14/2020	ND	1.99	99.4	2.00	3.88	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74	
Total BTX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	89.4	10.0	09/14/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	44.3	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E SIDE (H002425-04)

BTX 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	09/14/2020	ND	1.99	99.4	2.00	3.88		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	99.9	2.00	4.16		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.76	96.1	6.00	3.74		
Total BTX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	16.6	10.0	09/15/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	11.0	10.0	09/15/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S BOTTOM (H002425-05)

BTX 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	09/14/2020	ND	1.98	99.1	2.00	5.50	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	5.63	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	1.99	99.5	2.00	5.50	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.74	95.7	6.00	5.35	
Total BTX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	557	10.0	09/15/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	160	10.0	09/15/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S SIDE (H002425-06)

BTX 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	09/14/2020	ND	1.98	99.1	2.00	5.50		
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	5.63		
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	1.99	99.5	2.00	5.50		
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.74	95.7	6.00	5.35		
Total BTX	<0.300	0.300	09/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	09/14/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	154	10.0	09/14/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	56.0	10.0	09/14/2020	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W BOTTOM (H002425-07)

BTX 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	09/14/2020	ND	1.98	99.1	2.00	5.50	
Toluene*	0.065	0.050	09/14/2020	ND	2.00	100	2.00	5.63	
Ethylbenzene*	0.156	0.050	09/14/2020	ND	1.99	99.5	2.00	5.50	
Total Xylenes*	0.580	0.150	09/14/2020	ND	5.74	95.7	6.00	5.35	
Total BTX	0.801	0.300	09/14/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	09/14/2020	ND	416	104	400	0.00		

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*	21.5	10.0	09/15/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	2630	10.0	09/15/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	675	10.0	09/15/2020	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 191 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/11/2020
Reported: 09/17/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/08/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W SIDE (H002425-08)

BTX 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	09/14/2020	ND	1.98	99.1	2.00	5.50	
Toluene*	<0.050	0.050	09/14/2020	ND	2.00	100	2.00	5.63	
Ethylbenzene*	<0.050	0.050	09/14/2020	ND	1.99	99.5	2.00	5.50	
Total Xylenes*	<0.150	0.150	09/14/2020	ND	5.74	95.7	6.00	5.35	
Total BTX	<0.300	0.300	09/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	09/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2020	ND	165	82.5	200	12.8	
DRO >C10-C28*	31.1	10.0	09/15/2020	ND	171	85.3	200	8.54	
EXT DRO >C28-C36	20.0	10.0	09/15/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



BILL TO

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	

TPH	EXT
BTEX	
Chloride	

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Relinquished By:

Date:	Received By:
-------	--------------

Verbal Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
----------------	------------------------------	-----------------------------	----------------

Relinquished By:

Date: _____ Received By: _____

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C -8.0

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

☐

Bacteria (only

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

☒ Yes ☒ Yes

2

Thermometer ID #113

[

☐ Yes ☐ Yes

[illegible]



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

October 05, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: HAWKEYE 7 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 09/30/20 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 09/30/2020
Reported: 10/05/2020
Project Name: HAWKEYE 7 FED #1
Project Number: 35
Project Location: DEVON - EDDY CO NM

Sampling Date: 09/29/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: WEST BOTTOM (H002592-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2020	ND	205	103	200	5.24	
DRO >C10-C28*	<10.0	10.0	10/01/2020	ND	192	96.2	200	2.77	
EXT DRO >C28-C36	<10.0	10.0	10/01/2020	ND					
Surrogate: 1-Chlorooctane	102 %	44.3-144							
Surrogate: 1-Chlorooctadecane	92.7 %	42.2-156							

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Pima</i>		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Chris Jones</i>		P.O. #: <i>20849662</i>			
Address: <i>1601 P Turner St 500</i>		Company: <i>Devon</i>			
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn: <i></i>			
Phone #: <i>631-6577</i> Fax #: <i></i>		Address: <i></i>			
Project #: <i>35</i> Project Owner: <i>Devon</i>		City: <i></i>			
Project Name: <i>Heritage 7 Fed 1</i>		State: <i></i> Zip: <i></i>			
Project Location: <i>Eddy NM</i>		Phone #: <i></i>			
Sampler Name: <i>C Jones</i>		Fax #: <i></i>			
FOR LAB USE ONLY					
Lab I.D. <i>H063592</i>	Sample I.D. <i>West Bottom</i>	(G)RAB OR (C)OMP. <i>C</i>	# CONTAINERS	GROUNDWATER	WASTEWATER
				SOIL	OIL
				SLUDGE	OTHER :
				ACID/BASE:	ICE / COOL
				OTHER :	
		DATE <i>9-29-20</i>	TIME <i>1200</i>		
TTH EX					

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 consequential 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: <i>[Signature]</i>	Date: <i>9-30-20</i>	Received By: <i>[Signature]</i>	Time: <i>1655</i>	Date: <i>9-30-20</i>	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: <i></i>	Received By: <i></i>	Time: <i></i>	Date: <i></i>	Received By: <i></i>

Delivered By: (Circle One)	Observed Temp. °C <i>19.0</i>	Sample Condition	CHECKED BY: (Initials) <i>TS</i>	Turnaround Time:	Standard <input checked="" type="checkbox"/> <i>Rush</i>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Thermometer ID #113		Cool <input type="checkbox"/> Intact <input type="checkbox"/>
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		Correction Factor None		No <input type="checkbox"/> Yes <input type="checkbox"/>
						Corrected Temp. °C

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



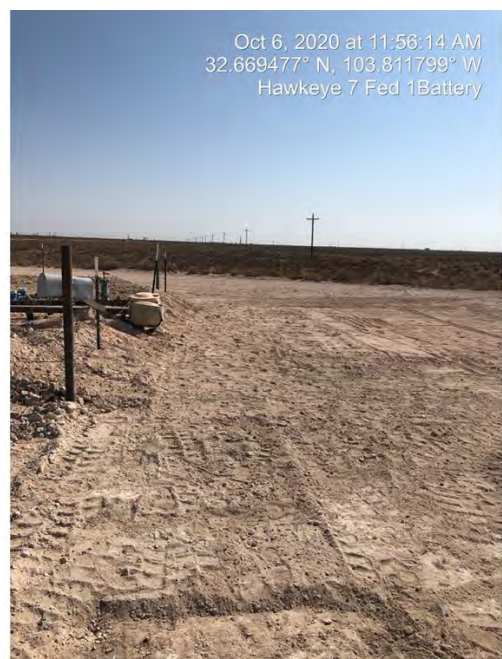
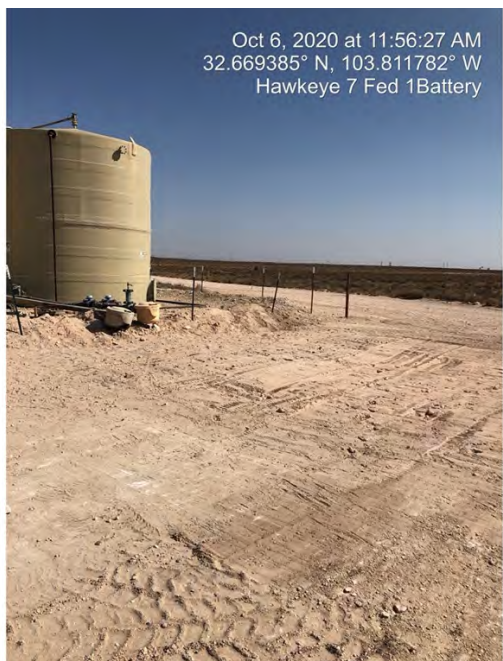
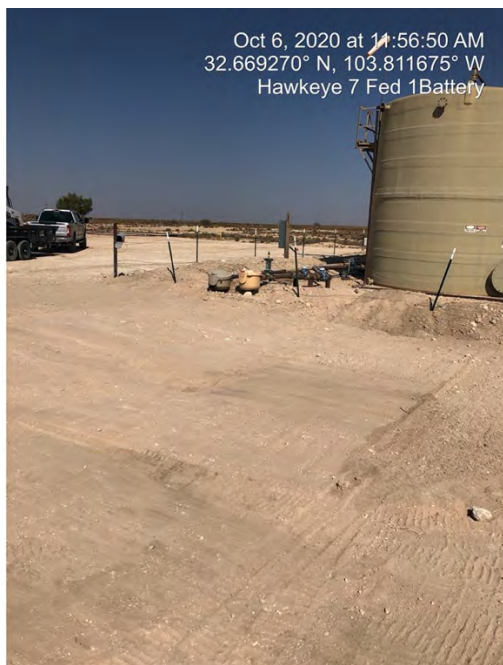
Pima Environmental Services

Appendix E:
Photographic Documentation

Excavation



Completed



Incident ID	NOY18906632744
District RP	1RP-4986
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: Tom Bynum Title: EHS Consultant
Signature: Tom Bynum Date: 10/12/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: Robert Hamlet Date: 3/26/2021

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: Robert Hamlet Date: 3/26/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 10840

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
PIMA ENVIRONMENTAL SERVICES, L	1601 N. Turner	329999	10840	C-141
Suite 500	Hobbs, NM88240			

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NOY1806632744 HAWKEYE 7 FEDERAL 1, thank you. This closure is approved.