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

February 25th, 2020

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

Bureau of Land Management
Mr. Jim Amos
620 East Green Street
Carlsbad, NM 88220

Re: Site Assessment and Closure Report
W Shugart 19 Fed #2
API No. 30-015-30780
GPS: Latitude 32.722393 Longitude -103.829475
UL "C", Sec. 19, T18S, R31E
Eddy County, NM
NMOCD Ref. No. NJMW1327756448 (2RP-1971)

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a produced water release that occurred at the W Shugart 19 Fed #2 (W Shugart). The initial C-141 was submitted on September 29th, 2013 (Appendix C). This incident was assigned 2RP-1971, Incident ID NJMW1327756448, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The W Shugart is located approximately eleven (11) miles southeast of Loco Hills, NM. This spill site is in Unit C, Section 19, Township 18S, Range 31E, Latitude 32.722393, Longitude -103.829475, 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- Piedmont alluvial deposits (Holocene to lower Pleistocene)-includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits (QP). The soil in this area is made up of Simona and Wink fine sandy loams, 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 Capella (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 430 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 250 feet BGS. The closest waterway is a playa located approximately 7.9 miles to the southwest of this location. See Appendix A for 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
250'	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

2RP-1971: On September 29th, 2013, the heater treater developed a hole in the bottom of the vessel causing fluid to release onto the pad surface. The lease operator shut the well down so repairs could be made. A vac truck was called out to recover standing fluid, of which approximately 2 barrels of produced water were recovered.

Site Assessment and Soil Sampling Results

On February 1st, 2021 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.

2-1-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 2-1-21		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
S-1	0-6"	ND	ND	ND	ND	ND	ND	ND
S-2	0-6"	ND	ND	ND	ND	ND	ND	ND
S-3	0-6"	ND	ND	ND	ND	ND	ND	ND
S-4	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-1	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-2	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-3	0-6"	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete Laboratory results can be found attached in Appendix D.

Remediation Activities

The sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no remediation activities were needed at this location.

Closure Request

After careful review, Pima requests that this incident, NJMW1327756448 (2RP-1971), be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

Tom Bynum

Tom Bynum
Environmental Project Manager
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- Photographic Documentation
Appendix E- Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

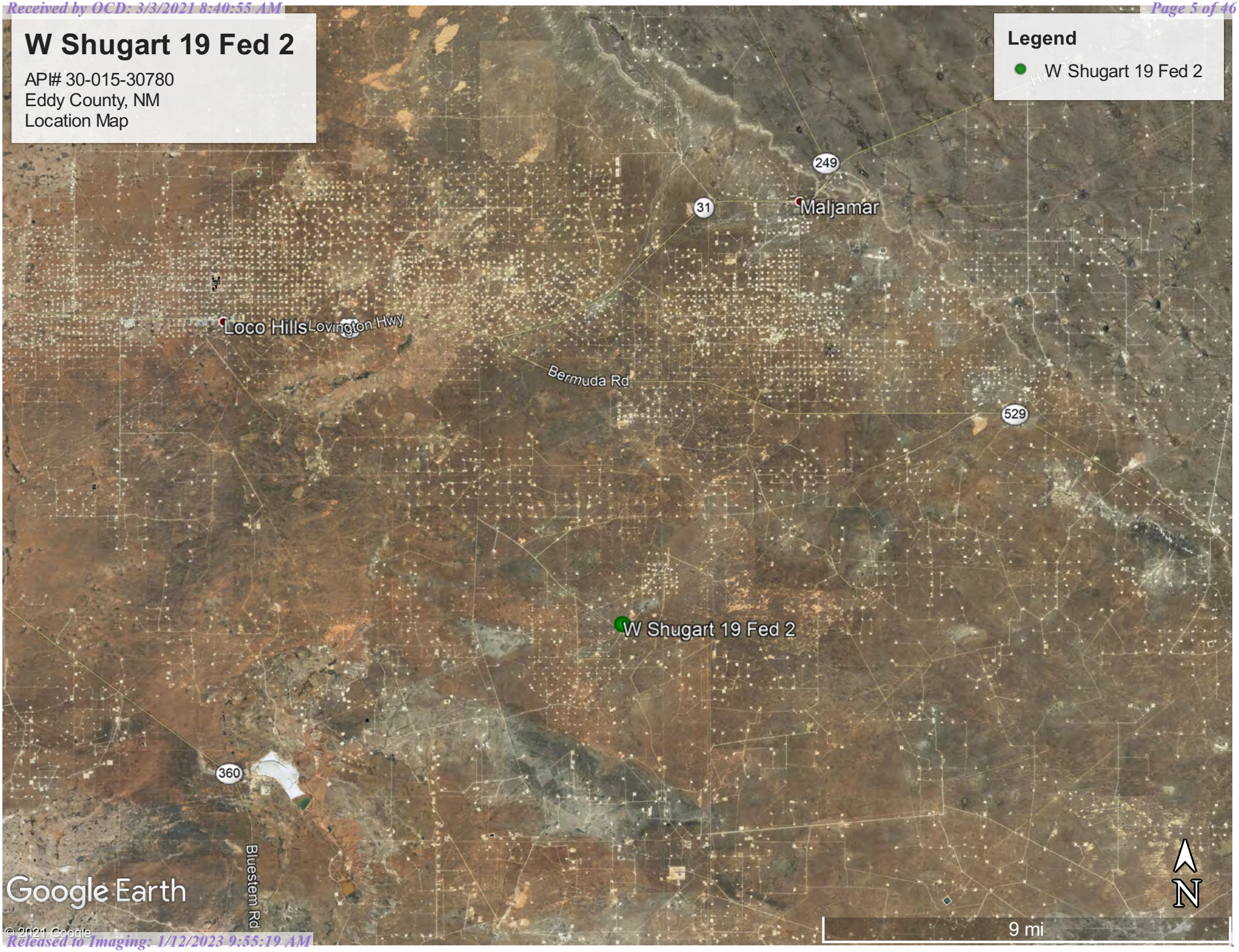
2-TOPO Map

3-Karst Map

4-Site Map

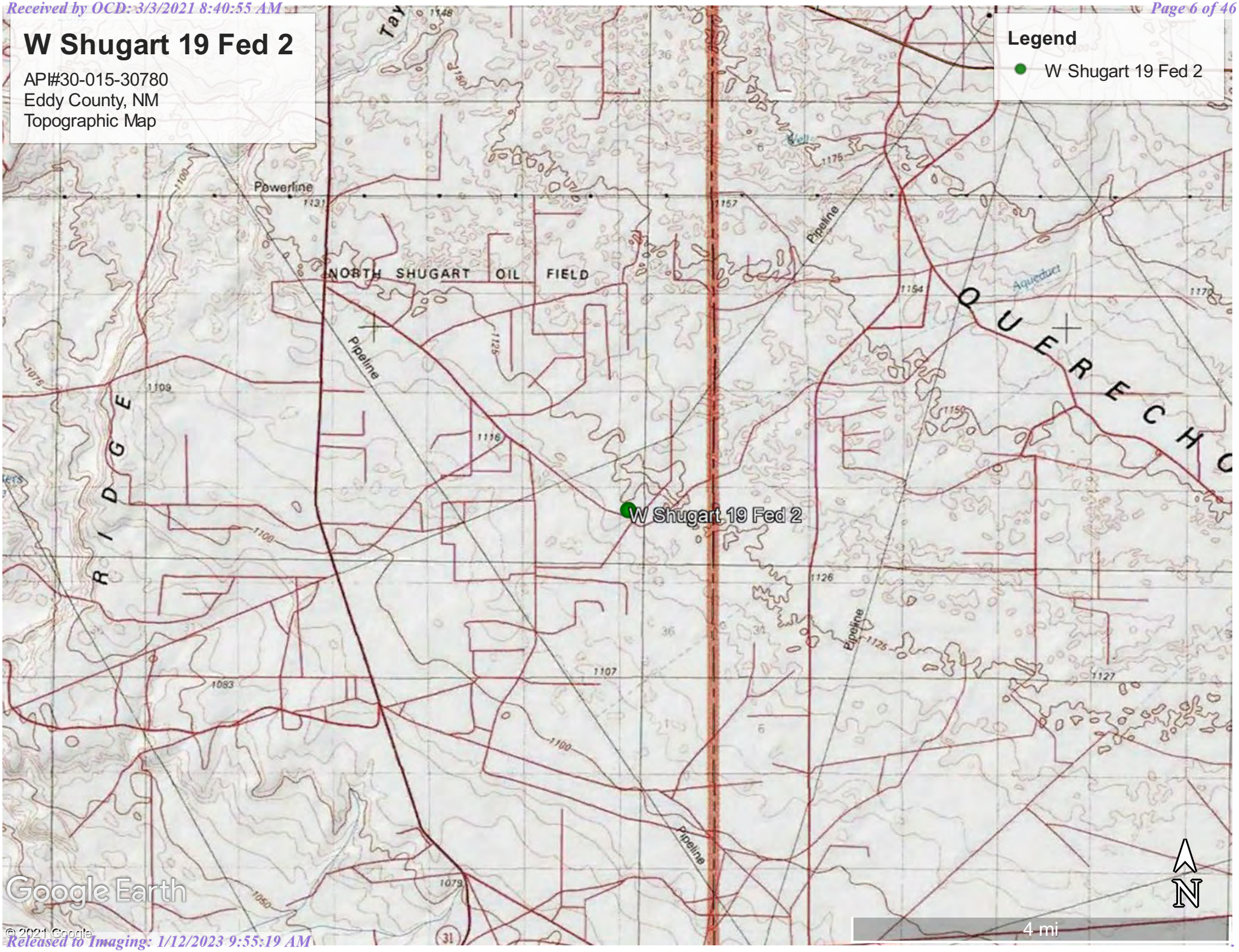
W Shugart 19 Fed 2

API# 30-015-30780
Eddy County, NM
Location Map



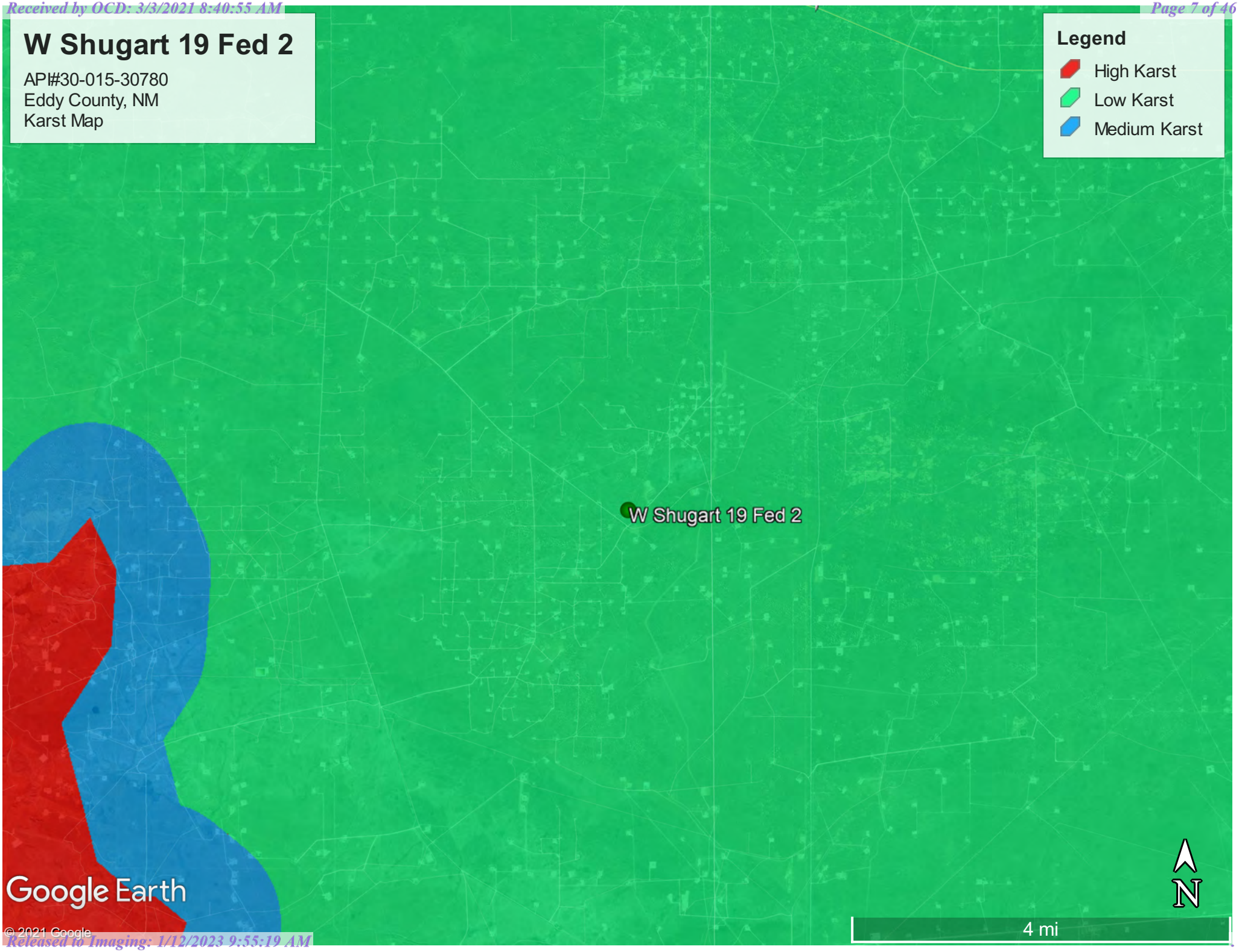
W Shugart 19 Fed 2

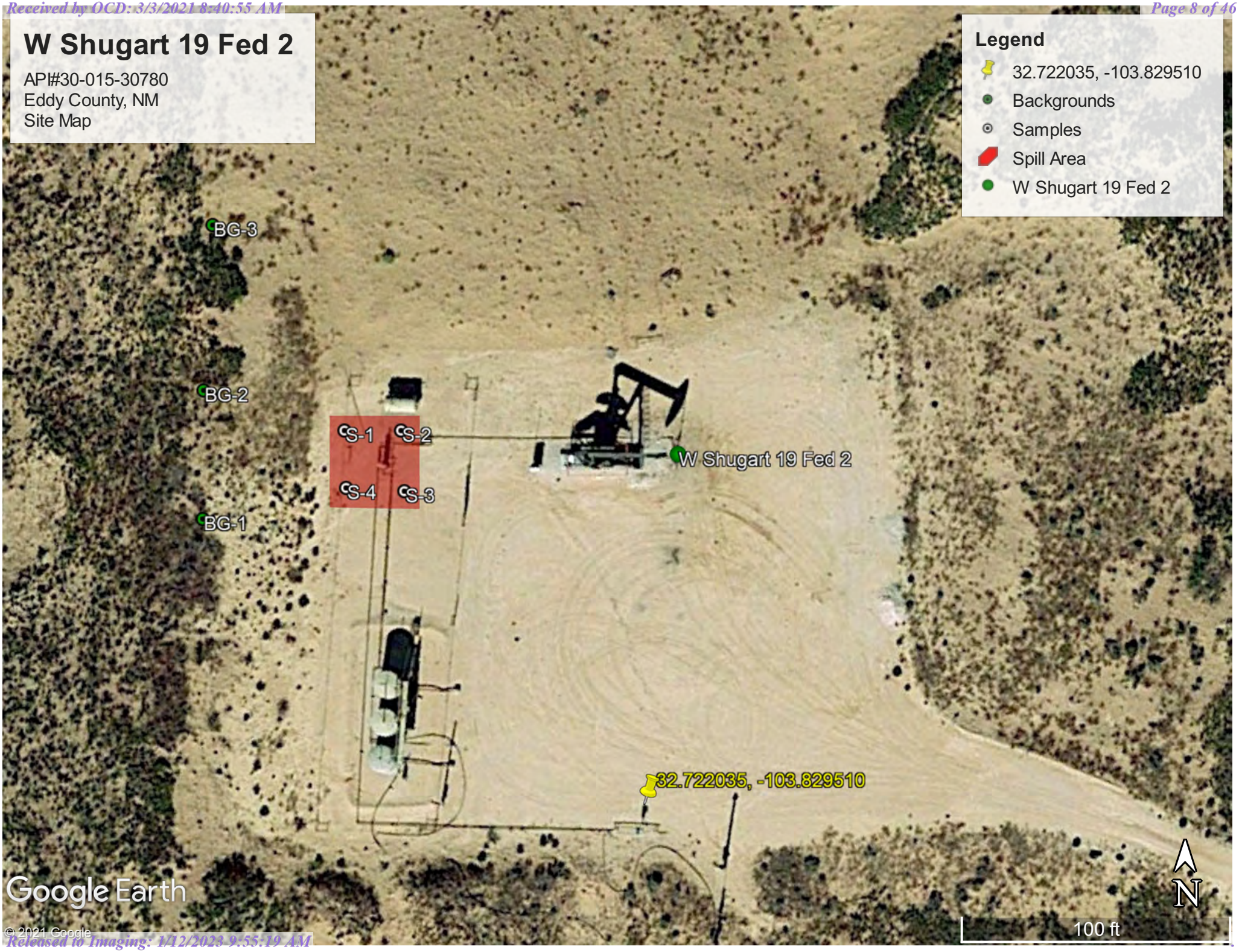
API#30-015-30780
Eddy County, NM
Topographic Map



W Shugart 19 Fed 2

API#30-015-30780
Eddy County, NM
Karst Map




W Shugart 19 Fed 2
API#30-015-30780
Eddy County, NM
Site Map
Legend
32.722035, -103.829510
Backgrounds
Samples
Spill Area
W Shugart 19 Fed 2
BG-3
BG-2
BG-1
S-1
S-2
S-3
S-4
W Shugart 19 Fed 2
32.722035, -103.829510
Google Earth
© 2021 Google
N
100 ft

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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

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
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757*	2862	300		
CP 00672		CP	LE		4	4	07	18S	32E	612475	3624947*	4768	524	430	94
CP 00672 CLW475398	O	CP	LE		4	4	07	18S	32E	612475	3624947*	4768	540	460	80

Average Depth to Water: **445 feet**

Minimum Depth: **430 feet**

Maximum Depth: **460 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 609687.94 **Northing (Y):** 3621077.5 **Radius:** 6000

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

2/25/21 1:18 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 324159103503801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

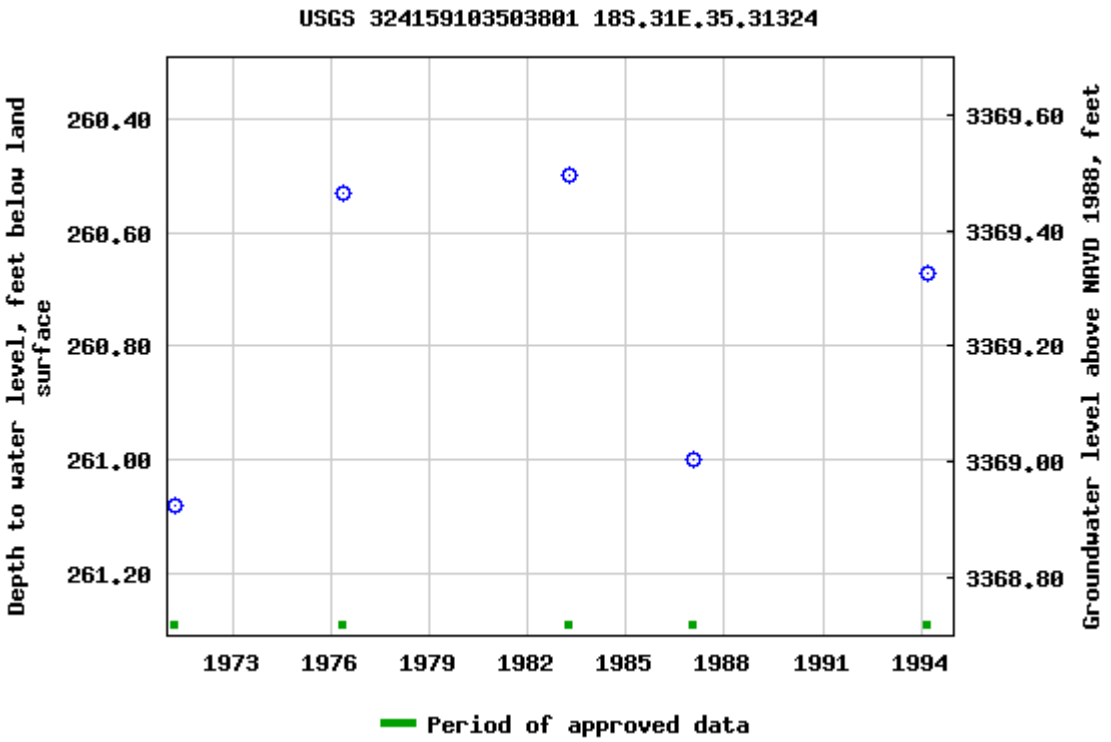
USGS 324159103503801 18S.31E.35.31324

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83
Land-surface elevation 3,630 feet above NAVD88
The depth of the well is 300 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

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

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

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-02-25 15:20:07 EST
0.74 0.62 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 324356103471601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

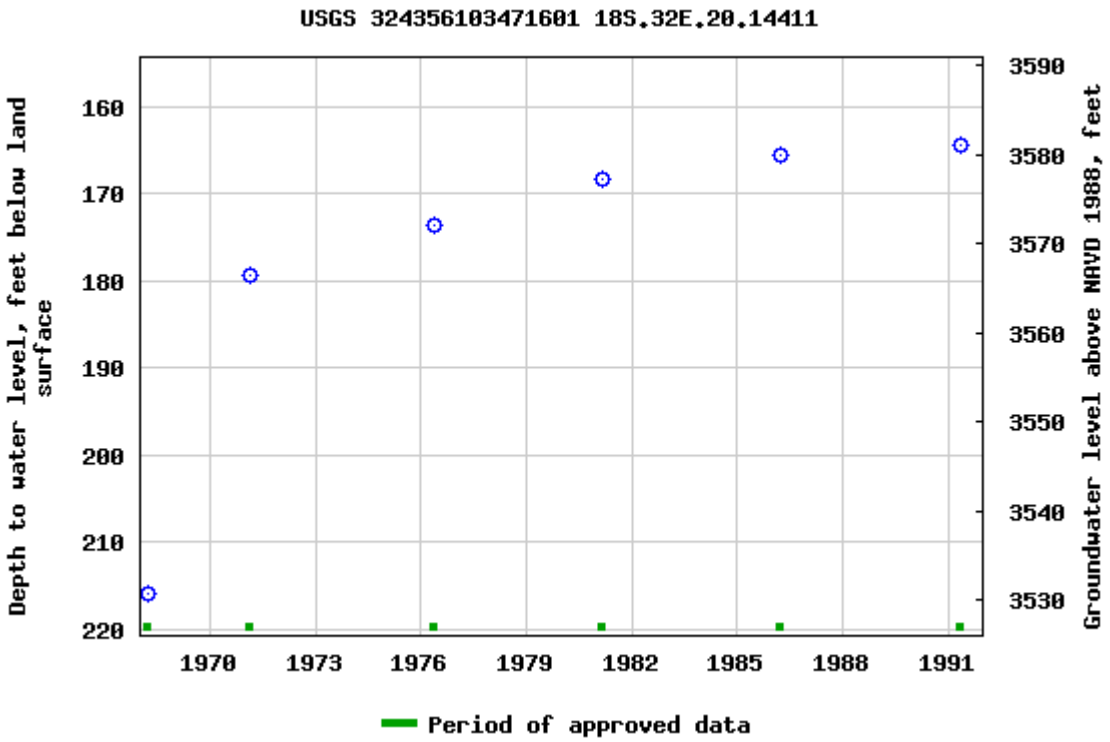
USGS 324356103471601 18S.32E.20.14411

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°43'56", Longitude 103°47'16" NAD27
Land-surface elevation 3,746 feet above NAVD88
The depth of the well is 270 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

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

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-02-25 15:20:37 EST
0.77 0.68 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

- 324502103495801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

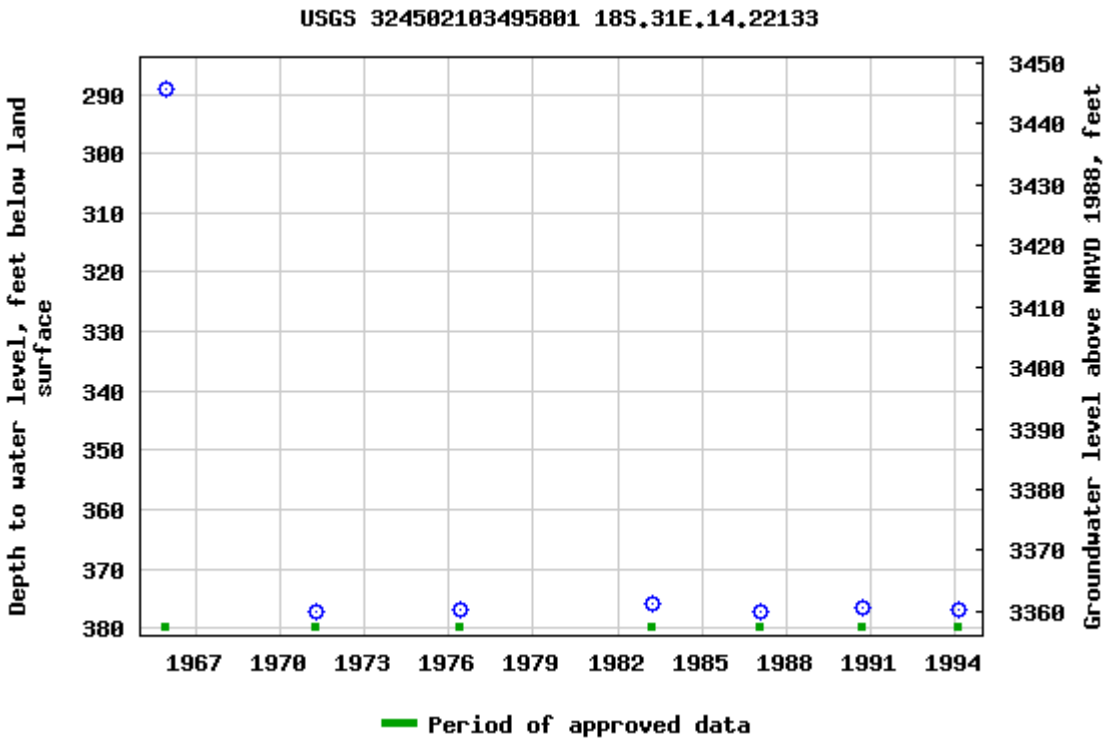
USGS 324502103495801 18S.31E.14.22133

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°45'02", Longitude 103°49'58" NAD27
Land-surface elevation 3,736 feet above NAVD88
The depth of the well is 400 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

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

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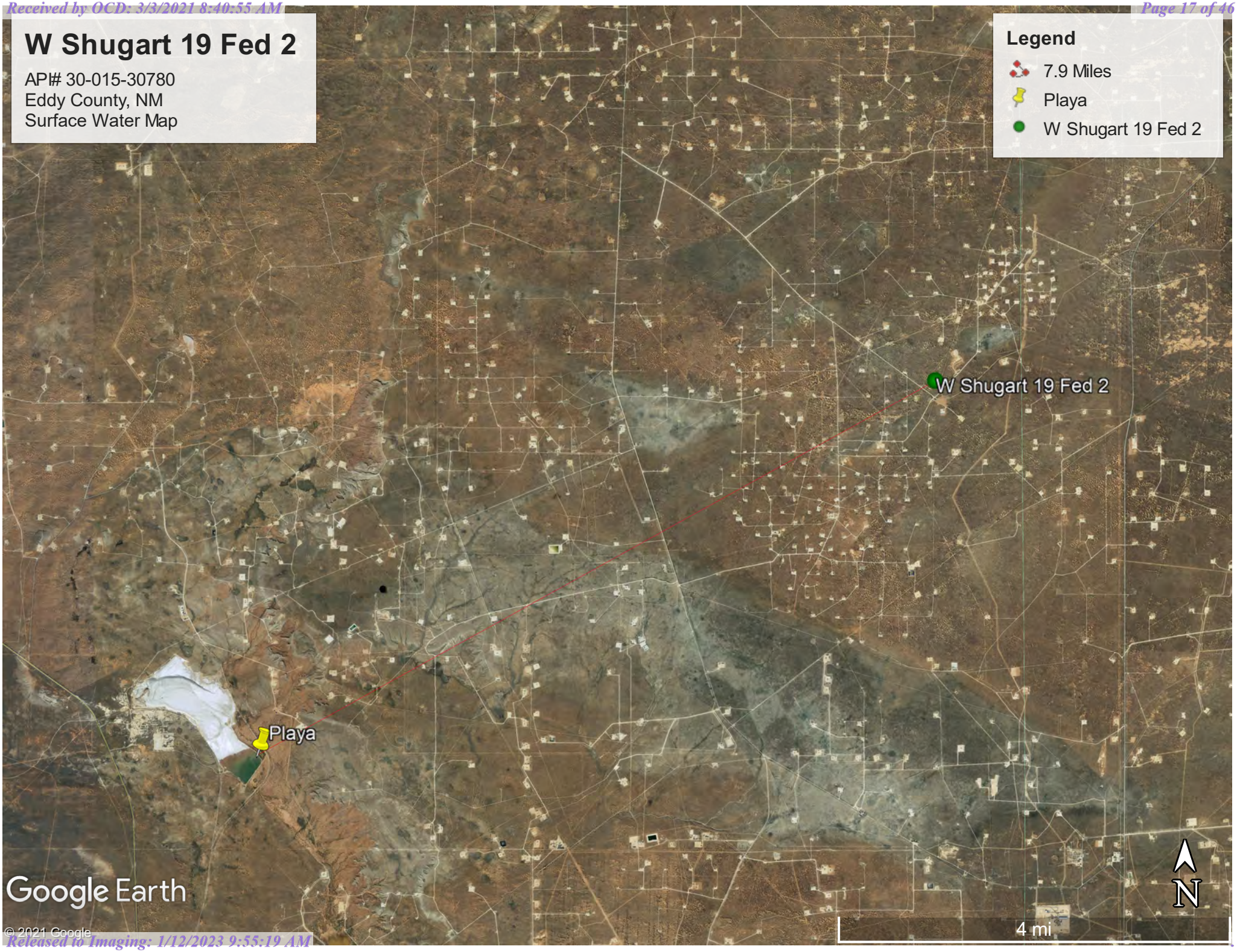
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-02-25 15:21:11 EST
0.66 0.58 nadww02

W Shugart 19 Fed 2

API# 30-015-30780
Eddy County, NM
Surface Water Map



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Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R042XC005NM - Deep Sand
Hydric soil rating: No

Description of Berino

Setting

Landform: Fan piedmonts, plains
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

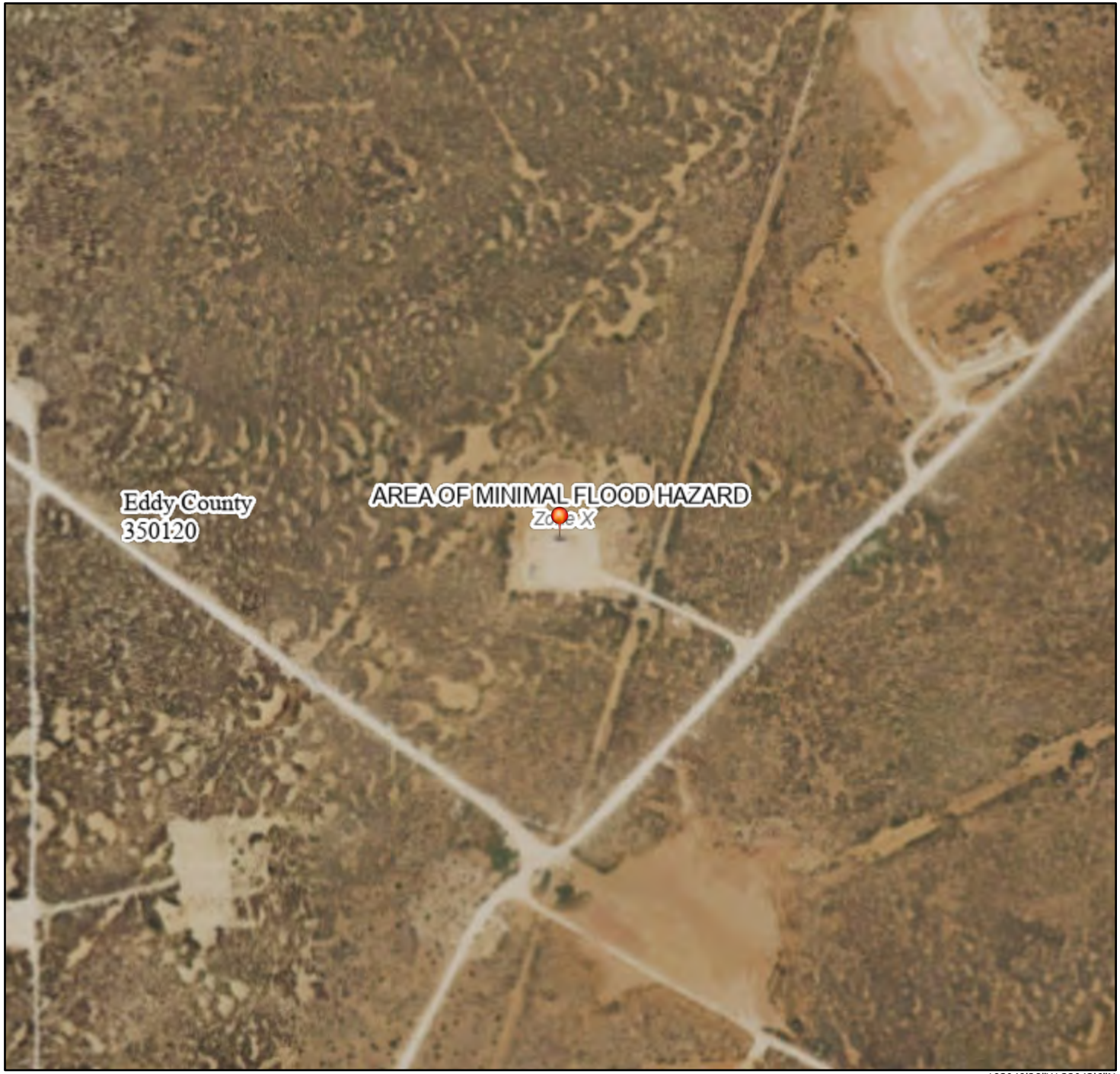
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette

FEMA

103°50'5"W 32°43'36"N



103°49'28"W 32°43'6"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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 Cross Sections with 1% Annual Chance
- 17.5 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 2/25/2021 at 5:18 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.

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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 August 8, 2011

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

Release Notification and Corrective Action

nJMW1327756448

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy 6137	Contact Merle Lewis
Address P.O. Box 250, Artesia, NM 88211	Telephone No. 575-748-6304
Facility Name West Shugart 19 Federal 2	Facility Type Oil Well

Surface Owner	Mineral Owner	API No. 30-015-30780

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	19	18S	31E	510	SOUTH	2310	WEST	EDDY

Latitude 32.722393 **Longitude** -103.829475

NATURE OF RELEASE

Type of Release Spill	Volume of Release 7 bbls	Volume Recovered 2
Source of Release Hole in heater treater vessel * 9-29-13	Date and Hour of Occurrence ~~10/29/13~~, 3:00 PM	Date and Hour of Discovery ~~10/29/13~~, 3:00 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Jeffery Robins/BLM, Mike Bratcher/OCD	
By Whom? Jaime Castillo, Assistant Foreman	Date and Hour 10/01/2013, BLM 2:27pm, OCD 2:31pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
(Spoke w/Gracie via phone 10/4/13 to get a corrected date for the release, Jean Marie Warren)

RECEIVED
OCT 04 2013
NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.*
At the Shugart 19-2, the heater treater developed a hole in the bottom of the vessel and leaked 7 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*
At the Shugart 19-2, the heater treater developed a hole in the bottom of the vessel and leaked 7 bbls of produced water. Lease operator shut in production, and plans to repair or replace heater treater before putting back into operation. At this time it is still under investigation to see if repairs can be made or it must be replaced. 2 bbls of produced water was recovered.

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: Graciela C. Bustamante

Printed Name: Graciela C. Bustamante

Title: Field Admin. Tech

E-mail Address: Gracie.Bustamante@dvn.com

Date: 10/02/2013 Phone: 575-746-5561

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: OCT 04 2013 Expiration Date:

Conditions of Approval:
Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: November 4, 2013

Attached ☐

2RP-1971

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	NJMW1327756448
District RP	2RP-1971
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?	>100' (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.

State of New Mexico
Oil Conservation Division

Incident ID	NJMW1327756448
District RP	2RP-1971
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.

Type text here

Printed Name: Lupe Carrasco Title: EHS Professional

Signature: Lupe Carrasco Date: 2/25/2021

email: lupe.carrasco@dvn.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NJMW1327756448
District RP	2RP-1971
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: Lupe Carrasco Title: EHS Professional

Signature: Lupe Carrasco Date: 2/25/2021

email: lupe.carrasco@dvn.com Telephone: 575-725-0787

OCD Only

Received by: OCD Date: 03/03/2021

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: Ashley Maxwell Date: 01/12/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Pima Environmental Services

Appendix D

Photographic Documentation

Pima Environmental Services

Appendix E

Laboratory Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 05, 2021

Chris Jones

Pima Environmental Services LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
TEL: (575) 631-6977
FAX:

RE: West Shugart 19 Fed 2 OrderNo.: 2102063

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/2/2021 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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG1
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:20:00 PM
Lab ID: 2102063-001 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/3/2021 11:12:57 PM	57892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/3/2021 3:00:07 PM	57853
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2021 3:00:07 PM	57853
Surr: DNOP	89.8	70-130		%Rec	1	2/3/2021 3:00:07 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2021 8:14:59 PM	57850
Surr: BFB	107	75.3-105	S	%Rec	1	2/3/2021 8:14:59 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 8:14:59 PM	57850
Toluene	ND	0.049		mg/Kg	1	2/3/2021 8:14:59 PM	57850
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2021 8:14:59 PM	57850
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2021 8:14:59 PM	57850
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/3/2021 8:14:59 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG2
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:25:00 PM
Lab ID: 2102063-002 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/3/2021 11:25:22 PM	57892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/3/2021 4:12:15 PM	57853
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2021 4:12:15 PM	57853
Surr: DNOP	90.9	70-130		%Rec	1	2/3/2021 4:12:15 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2021 9:26:11 PM	57850
Surr: BFB	102	75.3-105		%Rec	1	2/3/2021 9:26:11 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 9:26:11 PM	57850
Toluene	ND	0.049		mg/Kg	1	2/3/2021 9:26:11 PM	57850
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2021 9:26:11 PM	57850
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2021 9:26:11 PM	57850
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	2/3/2021 9:26:11 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG3
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:30:00 PM
Lab ID: 2102063-003 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/3/2021 11:37:47 PM	57892
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/3/2021 4:36:18 PM	57853
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/3/2021 4:36:18 PM	57853
Surr: DNOP	90.4	70-130		%Rec	1	2/3/2021 4:36:18 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2021 10:36:45 PM	57850
Surr: BFB	107	75.3-105	S	%Rec	1	2/3/2021 10:36:45 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 10:36:45 PM	57850
Toluene	ND	0.050		mg/Kg	1	2/3/2021 10:36:45 PM	57850
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2021 10:36:45 PM	57850
Xylenes, Total	ND	0.10		mg/Kg	1	2/3/2021 10:36:45 PM	57850
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/3/2021 10:36:45 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:35:00 PM
Lab ID: 2102063-004 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	59		mg/Kg	20	2/4/2021 1:28:05 PM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/3/2021 5:00:23 PM	57853
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2021 5:00:23 PM	57853
Surr: DNOP	92.1	70-130		%Rec	1	2/3/2021 5:00:23 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2021 11:00:26 PM	57850
Surr: BFB	105	75.3-105		%Rec	1	2/3/2021 11:00:26 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 11:00:26 PM	57850
Toluene	ND	0.049		mg/Kg	1	2/3/2021 11:00:26 PM	57850
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2021 11:00:26 PM	57850
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2021 11:00:26 PM	57850
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	2/3/2021 11:00:26 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:40:00 PM
Lab ID: 2102063-005 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/4/2021 1:40:29 PM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	2/3/2021 5:24:29 PM	57853
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/3/2021 5:24:29 PM	57853
Surr: DNOP	94.0	70-130		%Rec	1	2/3/2021 5:24:29 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2021 11:24:07 PM	57850
Surr: BFB	104	75.3-105		%Rec	1	2/3/2021 11:24:07 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 11:24:07 PM	57850
Toluene	ND	0.050		mg/Kg	1	2/3/2021 11:24:07 PM	57850
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2021 11:24:07 PM	57850
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2021 11:24:07 PM	57850
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	1	2/3/2021 11:24:07 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:45:00 PM
Lab ID: 2102063-006 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/4/2021 1:52:53 PM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/3/2021 5:48:31 PM	57853
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2021 5:48:31 PM	57853
Surr: DNOP	93.0	70-130		%Rec	1	2/3/2021 5:48:31 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2021 11:47:46 PM	57850
Surr: BFB	103	75.3-105		%Rec	1	2/3/2021 11:47:46 PM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/3/2021 11:47:46 PM	57850
Toluene	ND	0.049		mg/Kg	1	2/3/2021 11:47:46 PM	57850
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2021 11:47:46 PM	57850
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2021 11:47:46 PM	57850
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	2/3/2021 11:47:46 PM	57850

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 **2102063**
Date Reported: **2/5/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4
Project: West Shugart 19 Fed 2
Collection Date: 2/1/2021 12:50:00 PM
Lab ID: 2102063-007 **Matrix:** SOIL
Received Date: 2/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	2/4/2021 2:05:17 PM	57911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2021 6:12:31 PM	57853
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2021 6:12:31 PM	57853
Surr: DNOP	93.1	70-130		%Rec	1	2/3/2021 6:12:31 PM	57853
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/4/2021 12:11:11 AM	57850
Surr: BFB	105	75.3-105	S	%Rec	1	2/4/2021 12:11:11 AM	57850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/4/2021 12:11:11 AM	57850
Toluene	ND	0.049		mg/Kg	1	2/4/2021 12:11:11 AM	57850
Ethylbenzene	ND	0.049		mg/Kg	1	2/4/2021 12:11:11 AM	57850
Xylenes, Total	ND	0.098		mg/Kg	1	2/4/2021 12:11:11 AM	57850
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/4/2021 12:11:11 AM	57850

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#: **2102063**

05-Feb-21

Client: Pima Environmental Services LLC

Project: West Shugart 19 Fed 2

Sample ID: **MB-57892**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **57892**	RunNo: **75031**							
Prep Date: **2/3/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649254**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-57892**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **57892**	RunNo: **75031**							
Prep Date: **2/3/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649255**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: **MB-57911**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **57911**	RunNo: **75086**							
Prep Date: **2/4/2021**	Analysis Date: **2/4/2021**	SeqNo: **2650452**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-57911**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **57911**	RunNo: **75086**							
Prep Date: **2/4/2021**	Analysis Date: **2/4/2021**	SeqNo: **2650453**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	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#: **2102063**

05-Feb-21

Client: Pima Environmental Services LLC

Project: West Shugart 19 Fed 2

Sample ID: **MB-57853**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **57853**	RunNo: **75034**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649194** 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		84.5	70	130			

Sample ID: **LCS-57853**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **57853**	RunNo: **75034**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649195** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.3	68.9	141			
Surr: DNOP	4.1		5.000		81.3	70	130			

Sample ID: **2102063-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BG1**	Batch ID: **57853**	RunNo: **75034**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649197** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	48.97	0	94.9	15	184			
Surr: DNOP	4.5		4.897		91.2	70	130			

Sample ID: **2102063-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BG1**	Batch ID: **57853**	RunNo: **75034**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649198** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	8.8	43.82	0	93.3	15	184	12.9	23.9	
Surr: DNOP	3.9		4.382		90.0	70	130	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#: **2102063**

05-Feb-21

Client: Pima Environmental Services LLC

Project: West Shugart 19 Fed 2

Sample ID: **lcs-57850** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **57850** RunNo: **75040**

Prep Date: **2/2/2021** Analysis Date: **2/3/2021** SeqNo: **2649132** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	80	120			
Surr: BFB	1200		1000		117	75.3	105			S

Sample ID: **2102063-002ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **BG2** Batch ID: **57850** RunNo: **75040**

Prep Date: **2/2/2021** Analysis Date: **2/3/2021** SeqNo: **2649135** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.85	0	115	61.3	114			S
Surr: BFB	1200		994.0		117	75.3	105			S

Sample ID: **2102063-002amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **BG2** Batch ID: **57850** RunNo: **75040**

Prep Date: **2/2/2021** Analysis Date: **2/3/2021** SeqNo: **2649136** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.34	0	115	61.3	114	1.93	20	S
Surr: BFB	1100		973.7		116	75.3	105	0	0	S

Sample ID: **mb-57850** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **57850** RunNo: **75040**

Prep Date: **2/2/2021** Analysis Date: **2/4/2021** SeqNo: **2649192** 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		105	75.3	105			

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#: **2102063**

05-Feb-21

Client: Pima Environmental Services LLC

Project: West Shugart 19 Fed 2

Sample ID: **mb-57850**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **57850**	RunNo: **75040**
Prep Date: **2/2/2021**	Analysis Date: **2/4/2021**	SeqNo: **2649180** 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		99.5	80	120			

Sample ID: **LCS-57850**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **57850**	RunNo: **75040**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649181** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: **2102063-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BG1**	Batch ID: **57850**	RunNo: **75040**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649183** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9911	0	94.7	76.3	120			
Toluene	0.97	0.050	0.9911	0.01078	96.9	78.5	120			
Ethylbenzene	0.99	0.050	0.9911	0	99.8	78.1	124			
Xylenes, Total	3.0	0.099	2.973	0.01843	99.1	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9911		101	80	120			

Sample ID: **2102063-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BG1**	Batch ID: **57850**	RunNo: **75040**
Prep Date: **2/2/2021**	Analysis Date: **2/3/2021**	SeqNo: **2649184** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9794	0	96.6	76.3	120	0.826	20	
Toluene	0.98	0.049	0.9794	0.01078	99.3	78.5	120	1.29	20	
Ethylbenzene	0.99	0.049	0.9794	0	101	78.1	124	0.394	20	
Xylenes, Total	3.0	0.098	2.938	0.01843	101	79.3	125	0.356	20	
Surr: 4-Bromofluorobenzene	0.99		0.9794		101	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Pima Environmental Services LLC** Work Order Number: **2102063** RcptNo: **1**

Received By: **Juan Rojas** **2/2/2021 7:30:00 AM**

Completed By: **Cheyenne Cason** **2/2/2021 7:56:47 AM**

Reviewed By: SGL 2/2/21

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. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 2/2/21 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by:

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	1.1	Good				
2	2.0	Good				

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N. Turner #500

Phone #: 575-631-6977

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5day
☒ Standard ☐ Rush

Project Name: West Shugart 19 Fed 2

Project #: #401

Project Manager: Chris Jones

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 6.9+0.2=1.1 (°C) 1.8+0.2=2.0

HEAL No. 2102063

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)	Chloride
2/1/21	1220	soil	BG1	Glass	ICE	001											
	1225		BG2			002											
	1230		BG3			003											
	1235		S1			004											
	1240		S2			005											
	1245		S3			006											
↓	1250	↓	S4	↓	↓	007	↓	↓									↓
			ENM 2/2/21 per Mark			inc 2/2/21											

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/1/21	1630				2/1/21	1630
2/1/21	1900			Courier	2/2/21	7:30

Remarks: Bill to Devon

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

Analysis Request

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.

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 19555

CONDITIONS

Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240	OGRID: 329999
	Action Number: 19555
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/12/2023