

Incident ID	nCH1823935024
District RP	1RP-5176
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?	51-100 (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 4

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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: Dale Woodall Title: Env. Professional
 Signature: *Dale Woodall* Date: 12/7/2022
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/07/2022

Incident ID	nCH1823935024
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Closure

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

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: Dale Woodall Title: Env. Professional
 Signature: *Dale Woodall* Date: 12/7/2022
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 12/07/2022

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: 2/02/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist



PO Box 1120
 Carlsbad, New Mexico 88221
 Phone (575) 236-6600

October 10, 2019 (edited 12/7/2022)

NMOCD District 2
 1625 N. French Drive
 Hobbs, New Mexico 88240

To Whom It May Concern:

M&M Excavating, Inc. (MMX) has prepared this Remediation Closure Report for Devon Energy Production Company that describes the site characterization and remediation of the fire associated with 1RP-5176 at the Thistle Unit #118H site. The site is in Unit N, Section 34, Township 23S, Range 33E, Latitude 32.2556006, Longitude - 103.5616293, Lea County, New Mexico, on State land. Figure 1 provides the vicinity and site location on an USGS 7.5-minute quadrangle map.

Site Information and Closure Criteria

The Thistle Unit #118H is located approximately thirty (30) miles east of Malaga, New Mexico on State land at an elevation of approximately 3,650 feet above mean sea level (amsl).

Based upon well water data. (Appendix B), depth to groundwater in the area is estimated to be between > 51 feet below grade surface (bgs). 12/7/2022 Edit: There is one well within 0.5 miles of the location, C-0495 POD1, according to the New Mexico Office of the State Engineer (NMOSE) and USGS. The nearest significant watercourse is an unnamed pond located approximately 5975 feet to the southwest.

The site has been remediated to the applicable NMOCD Closure Criteria for groundwater of 51-100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

Release Information and Closure Criteria			
Name	Thistle Unit #118H		
API Number	30-025-43451		
Incident Number	1RP-5176		
Source of Release	Fire/Compressor		
Released Material	N/A	Released Volume	0 BBLS
Recovered Volume	0 BBLS	Net Release	0 BBLS
NMOCD Closure Criteria	>51 but < 100 feet to groundwater		

Release Information

On August 10, 2018, a lease operator arrived on location and discovered a 2-foot flame coming from the top of the compressor on the blowdown line. Shortly after, the flame went out on its own with no apparent release associated with the fire. Figures 1 and 2 illustrate the vicinity and site location. Figure 3 illustrates the release location. The C-141 forms are included in Appendix A.

Release Characterization and Remediation Activities

On August 22, 2019, MMX personnel arrived on site in response to the release associated with Thistle Unit #118H. MMX collected soil samples at the surface and at six inch depth at five (5) sample locations (L1-L5) around the source of the fire. A total of ten (10) samples were collected for laboratory analysis of a combination of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

As summarized in Table 3, sample location L1 exceeded NMOCD Closure Criteria for TPH at the surface, but was below closure criteria at six inches. The remainder of the sample locations met the closure criteria for the location.

On September 20, 2019, MMX personnel returned to the location to excavate the area represented by sample location L1. A five-point composite confirmation sample was collected from the bottom of the 10-inch excavation (BH) and from the sidewalls (SW). Sample SW and BH were analyzed using the methods listed above. Figure 3 shows the final extent of the excavation and sample locations.

NMOCD was notified on 9/18/2019 that confirmation samples were to be collected within 48 hours. All laboratory results are summarized in Table 3 and all laboratory reports are included in Appendix C.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at an NMOCD permitted disposal facility. A photo of the excavation prior to backfill is included in Appendix D.

On behalf of Devon Energy, MMX requests closure for the release associated with 1RP-5176.

Submitted by:
M&M Excavating, Inc.

Lupe Carrasco

Lupe Carrasco

ATTACHMENTS:

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

Figures:

Figure 1: Vicinity and Well Head Protection

Map Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Appendices:

Appendix A: Form C-141

Appendix B: Water Well Data

Appendix C: Laboratory Analytical Reports

Appendix D: Excavation Photo

Tables

Table 2: NMOCD Closure Criteria

Thistle Unit #118H
Devon Energy Production Company

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes
Depth to Groundwater (feet bgs)	135-150 OSE & USGS (Appendix B)
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	--
Horizontal Distance to Nearest Significant Watercourse (ft)	5975 Unnamed pond/lake to the southwest

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater	Closure Criteria (units in mg/kg)					
	Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene	
Less than 50' BGS	600	100		50	10	
Greater than 100'	20000	2500	1000	50	10	
51' to 100'	x	10000	2500	1000	50	10
Surface Water	Yes	No	if yes, then			
Less than 300' from continuously flowing watercourse or other significant watercourse?		x	600	100	50	10
Less than 200' from lakebed, sinkhole or playa lake?		x				
Water Well or Water Source						
Less than 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?		x				
Less than 1000' from fresh water well or spring?		x				
Human and Other Areas						
Less than 300' from an occupied permanent residence, school, hospital, institution or church?		x				
Within incorporated municipal boundaries or within a defined municipal fresh water well field?		x				
Less than 100' from wetland?		x				
Within area overlying a subsurface mine		x				
Within an unstable area?		x				
Within a 100-year floodplain?		x				



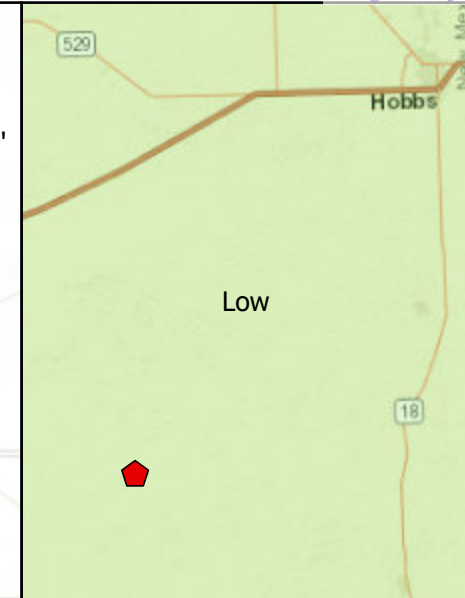
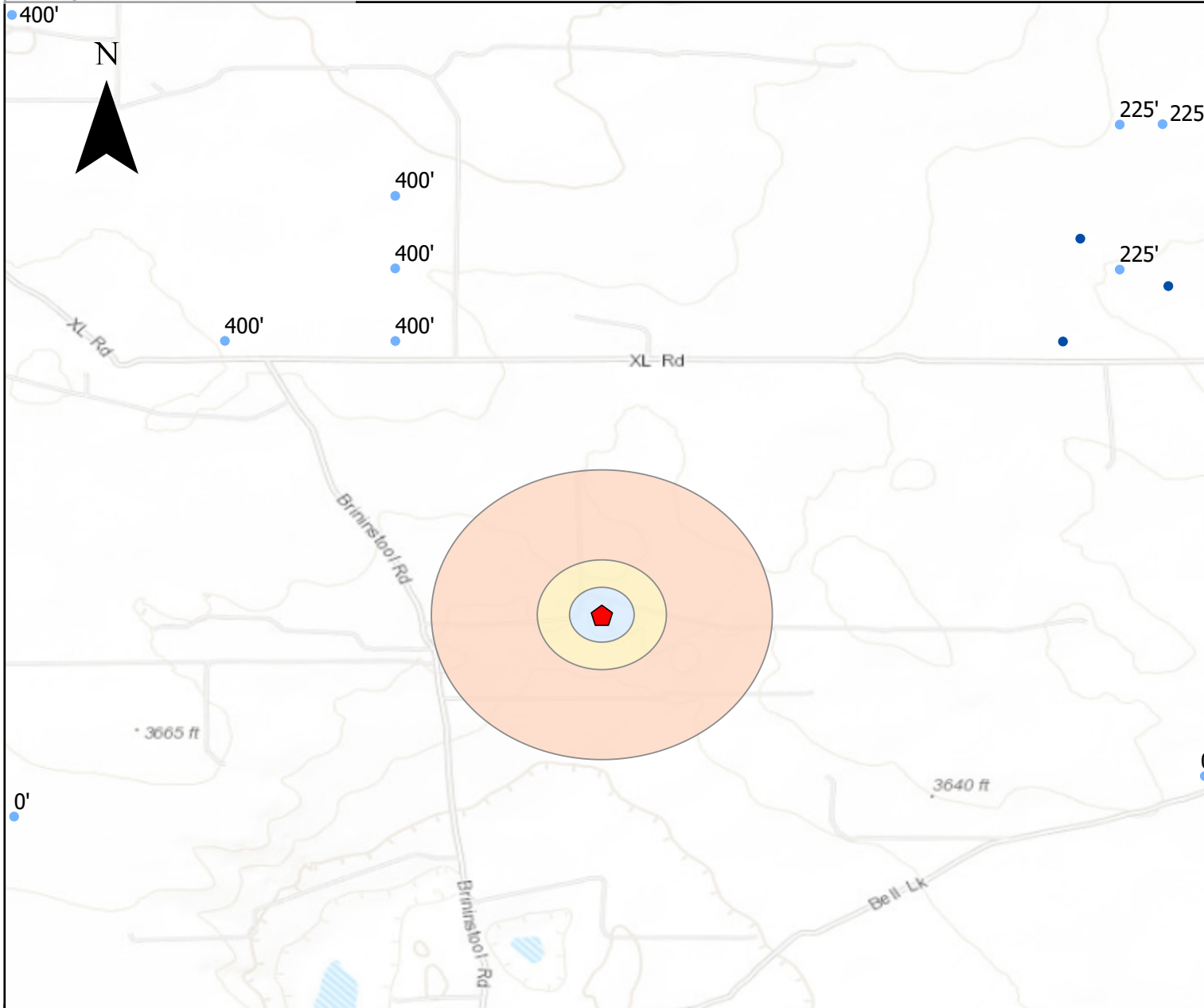
Table 3: Summary of Sample Results

Thistle Unit #118H
 Devon Energy Production Company
 1RP-5176

Sample ID	Sample Date	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
NMOCD Closures Criteria			50	10				2,500	10,000
Compressor									
L1	8/22/2019	surface	1.45	<0.050	20.9	701	2560	3281.9	32
		0.5	--	--	<10.0	29.4	318	347.4	48
L2		surface	<0.300	<0.050	<10.0	<10.0	21.7	21.7	96
		0.5	--	--	--	--	--	--	96
L3		surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	3840
		0.5	--	--	--	--	--	--	8930
		3	--	--	--	--	--	--	640
L4		surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	128
		0.5	--	--	--	--	--	--	96
L5		surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32
	0.5	--	--	--	--	--	--	32	
BH	9/20/2019	0.8	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	96
SW		0-0.8	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	96



Figures



Karst Potential

- High
- Low
- Medium

- Point of Release
- OSE Waterwells
- USGS Waterwells

Buffer Distance

- .5 Mile
- 1000 Feet
- 500 Feet

0 0.22 0.43 0.87 Miles

Regional Vicinity & Wellhead Protection Map
 Thistle Unit #118H - Devon Energy
 Sec 34 T23S R33E Lea County, New Mexico

Figure 1

P:\5-MM Excavating (5128335)\GIS\ARCGIS\MMX_MIT.aprx
Date Saved: 7/17/2019

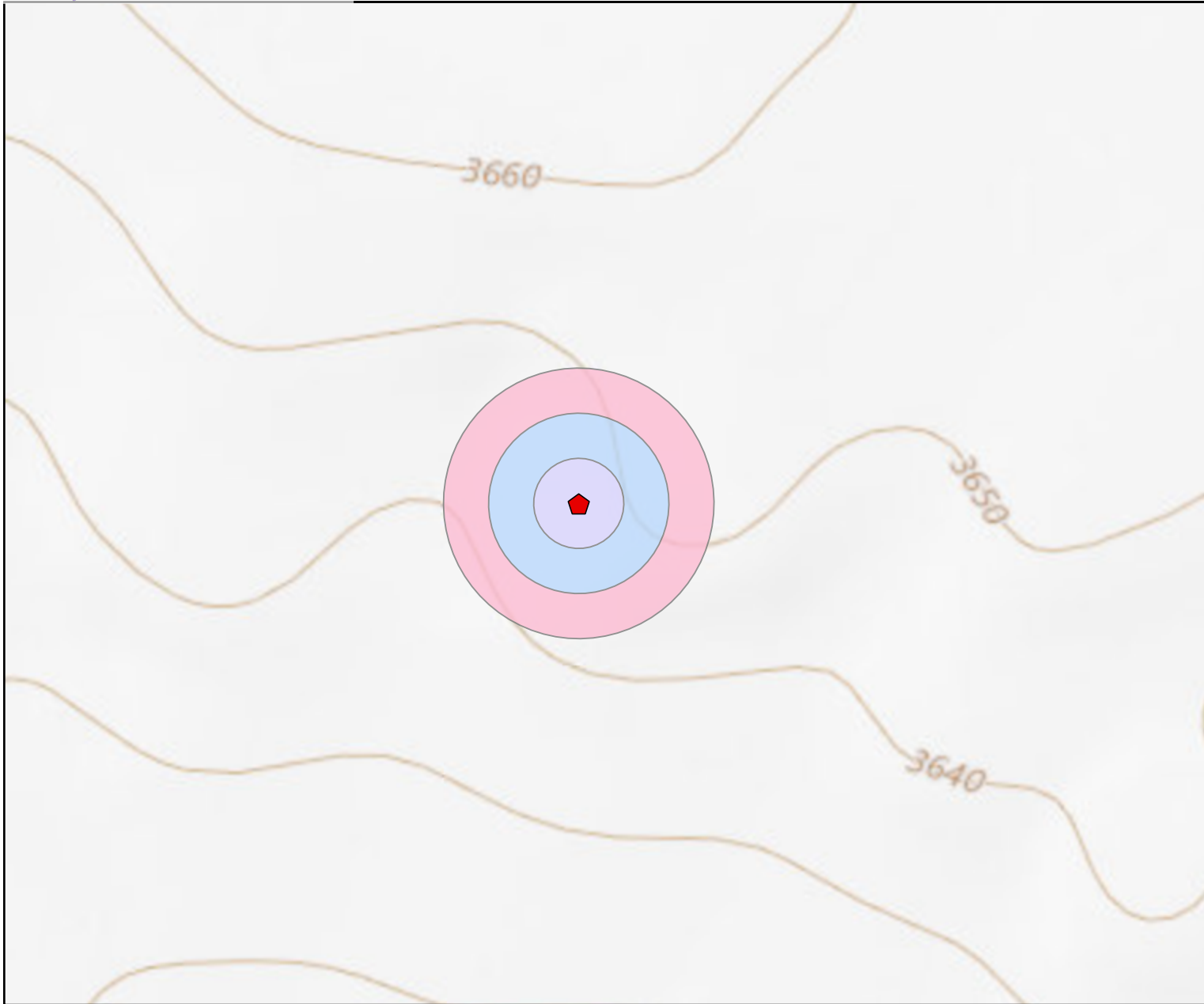
Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

Copyright 2019 M&M Excavating, Inc.- All Rights Reserved

Drawn	LC
Date	7/17/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
 (575) 230-6600



- Point of Release
 - Springs Seeps
 - Streams Canals
 - Rivers
 - NM Wetlands
 - Lakes Playas
 - FEMA Flood Zones 2011
- Buffer Distance**
- 100 Feet
 - 200 Feet
 - 300 Feet
 - Release Area



0 425 850 1,700 Feet

Surface Water Protection Map
 Thistle Unit #118H - Devon Energy
 Sec 34 T23S R33E Lea County, New Mexico

Figure 2

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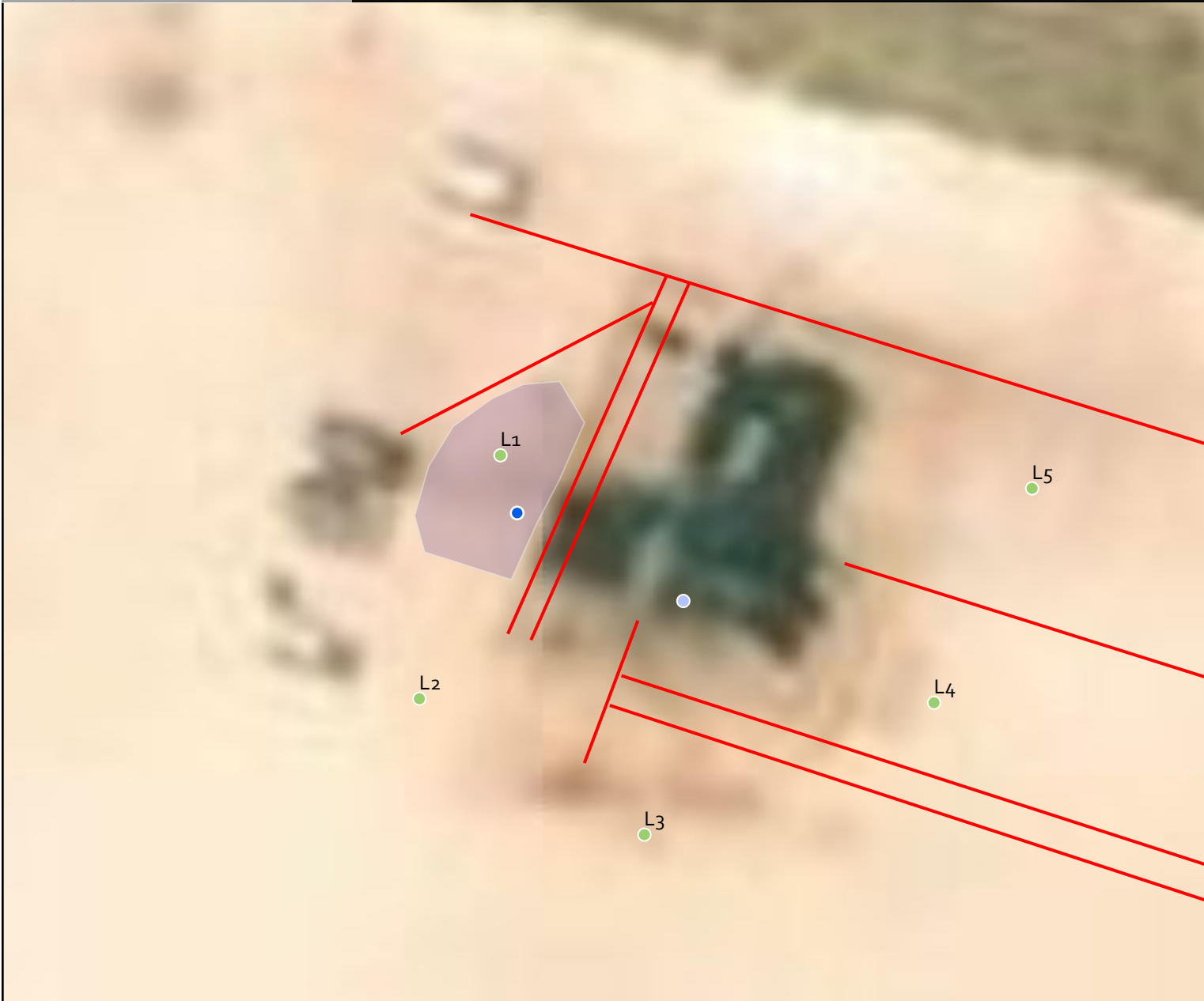
Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

Date Saved: 7/17/2019
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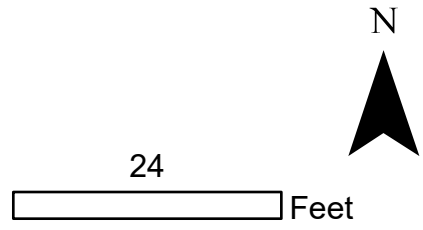
Drawn	LC
Date	7/17/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
 (575) 236-6600



- Excavated 10"
- Pipelines
- BH Sample Location
- Point of Release
- Sample Locations



Site & Sample Locations
 Thistle Unit #118H - Devon Energy
 Sec. 33 T23S R33E, Lea County, NM

Figure 3

P:\5-MM Excavating (5128335)\GIS\ARCGIS\MMX_MIT.aprx

Revisions		
By: _____	Date: _____	Descr: _____
By: _____	Date: _____	Descr: _____

Copyright 2019 M&M Excavating, Inc. - All Rights Reserved

Drawn	LC
Date	9/20/2019
Checked	_____
Approved	_____



78 Roberson Rd
 Carlsbad, NM 88220
 (575) 236-6600

Appendix A Form C-141

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 Merle Lewis, Production Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-3371	
Facility Name Thistle Unit 118H	Facility Type	
Surface Owner State	Mineral Owner State	API No. 30-025-43451

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	34	23S	33E	621'	FSL	2199'	FWL	Lea

Latitude_32.2556006_ Longitude_103.5616293_ NAD83

NATURE OF RELEASE

Type of Release Fire	Volume of Release 0	Volume Recovered 0
Source of Release Compressor	Date and Hour of Occurrence August 10, 2018 @ 5:00 AM	Date and Hour of Discovery August 10, 2018 @ 5:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, OCD Chistina Hernandez, BLM	
By Whom? Brett Fulks, EHS Representative	Date and Hour August 11, 2018 @ 1:29 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

RECEIVED
By CHernandez at 9:19 am, Aug 27, 2018

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

Describe Cause of Problem and Remedial Action Taken.*
Lease Operator arrived on location and discovered a 2' flame coming from the top of the compressor on the blowdown line.

Describe Area Affected and Cleanup Action Taken.*
The flame went out on its own and no release was associated with the fire.

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: <i>Sheila Fisher</i>	OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher	Approved by Environmental Specialist: <i>OH</i>	
Title: Field Admin Support	Approval Date: 8/27/2018	Expiration Date:
E-mail Address: Sheila.Fisher@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/14/18 Phone: 575.748.1829	<p>NMAC 19.15.29 effective August 14, 2018. Complete release characterization before any significant remediation. Dated photo documentation of the fire site.</p>	

* Attach Additional Sheets If Necessary

1RP-5176

nCH1823935024

pCH1823939786

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1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	1RP-5176
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Devon Energy	OGRID: 6137
Contact Name: Amanda Davis	Contact Telephone: 575-748-0176
Contact email: Amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address: 6488 Seven Rivers Highway Artesia NM 88210	

Location of Release Source

Latitude 32.2556006

Longitude -103.5616293
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Thistle Unit #118H	Site Type: Oil Well
Date Release Discovered: 8/10/2018	API# (if applicable) 30-025-43451

Unit Letter	Section	Township	Range	County
N	34	23S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Fire. Lease operator arrived on location and discovered a 2' flame coming from the top of the compressor on the blowdown line

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <p style="text-align: center;">Fire</p>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <p style="text-align: center;">Yes. To Olivia Yu (District 2) & BLM by Brett Faulks 8/11/2018 via email</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: <p style="text-align: center;">No recoverable liquids/materials</p>	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: _____	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nCH1823935024
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- 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 4

Incident ID	nCH1823935024
District RP	1RP-5176
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: Dale Woodall Title: Env. Professional

Signature: *Dale Woodall* Date: 12/7/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	nCH1823935024
District RP	1RP-5176
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/7/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

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: _____

Appendix B
Water Well Data
with 12-7-2022
addendum

ADDENDUM

Location name: Thistle Unit #118H

OCD Spill Number: NCH1823935024

From: Dale Woodall, Devon Energy

Date: 12/7/2022

Since this report for the above referenced spill(s) was written, there has been an update in the status of the PODs for the location.

A review of New Mexico Office of the State Engineers (OSE) online water well database (New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/).

One pod location is within ½ mile radius and less than 25 years old.

C-4595 POD 1 (installed in 2022) did not encounter groundwater and is within 0.5 miles of the location

The spill was remediated to criteria for DTW of 51-100 feet bgs.

Boring log of the well C-4595 POD1 is attached.

A map denoting the location of pod C4595 and Thistle Unit 118H is attached.



New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04595 POD1	4	3	3	34	23S	33E	635150	3569564
Driller License: 1249		Driller Company: ATKINS ENGINEERING ASSOC. INC.							
Driller Name: JACKIE ATKINS									
Drill Start Date: 03/09/2022	Drill Finish Date: 03/09/2022	Plug Date: 03/31/2022							
Log File Date: 04/04/2022	PCW Rcv Date:	Source:							
Pump Type:	Pipe Discharge Size:	Estimated Yield:							
Casing Size:	Depth Well: 55 feet	Depth Water:							

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.

12/7/22 7:31 AM

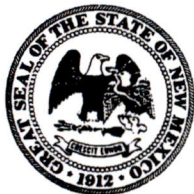
POINT OF DIVERSION SUMMARY



NORTH



FIGURE 1: NM OSE POD LOCATIONS	
THISTLE UNIT 118H	
32.2556006,-103.5616293	
OCD INCIDENT nCH1823935024	
drawn by: RDW	Date: 12/2022



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4595			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 15	SECONDS 16.73	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	33	54.92	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SW SW Sec. 34 T23S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/09/2022	DRILLING ENDED 03/09/2022	DEPTH OF COMPLETED WELL (FT) temporary well casing	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) dry	DATE STATIC MEASURED 03/9/22, 3/15/22		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

OSE DTI RPR 4/2022 PM 2:05

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)			
FILE NO.	C-4595	POD NO.	1	TRN NO.	719171
LOCATION	23S.33E.34433		WELL TAG ID NO.		PAGE 1 OF 2



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	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	1806	545	400	145
C 02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2157	650	400	250
C 02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	2341	650	400	250
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2372	40	20	20
C 02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	2523	650	400	250
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	2991			

Average Depth to Water: **324 feet**
Minimum Depth: **20 feet**
Maximum Depth: **400 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 635490

Northing (Y): 3569675

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.

7/17/19 4:41 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER




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National Water Information System: Web Interface

USGS Water Resources

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

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321611103321601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321611103321601 23S.33E.26.42100

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'28.0", Longitude 103°32'15.6" NAD83

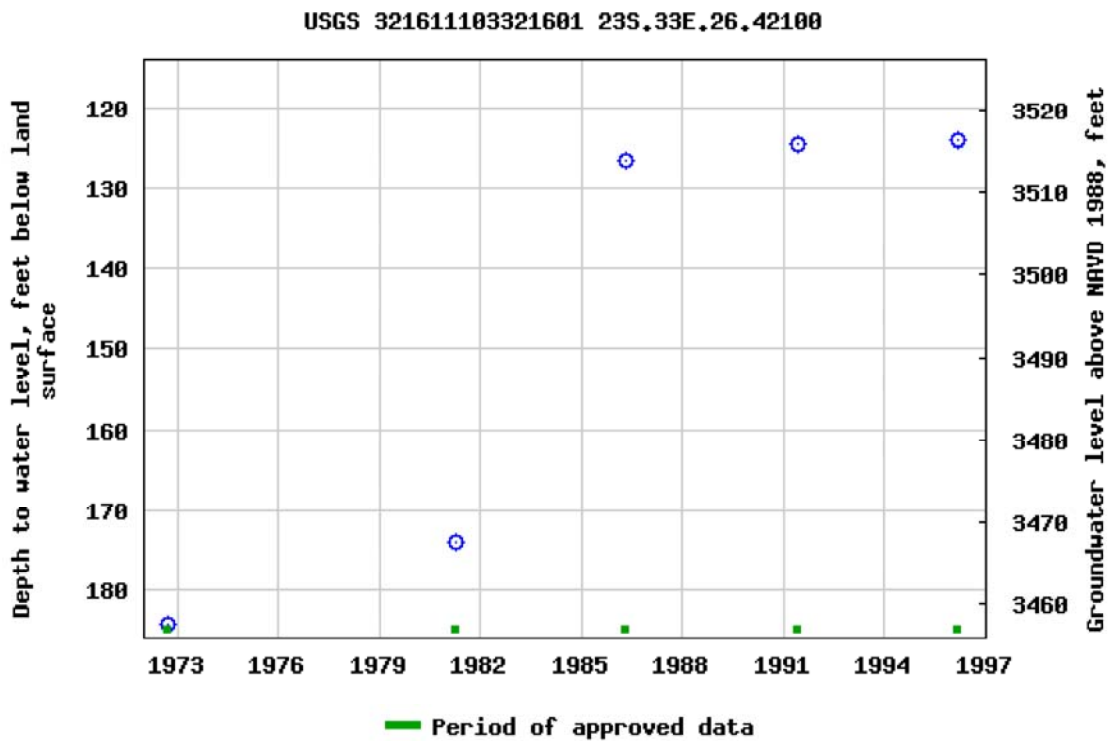
Land-surface elevation 3,641 feet above NAVD88

The depth of the well is 190 feet below land surface.

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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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: 2019-07-17 19:00:46 EDT

1.25 1.09 nadww01




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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater	Geographic Area: United States	GO
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321609103321701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321609103321701 23S.33E.26.421342

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'09", Longitude 103°32'17" NAD27

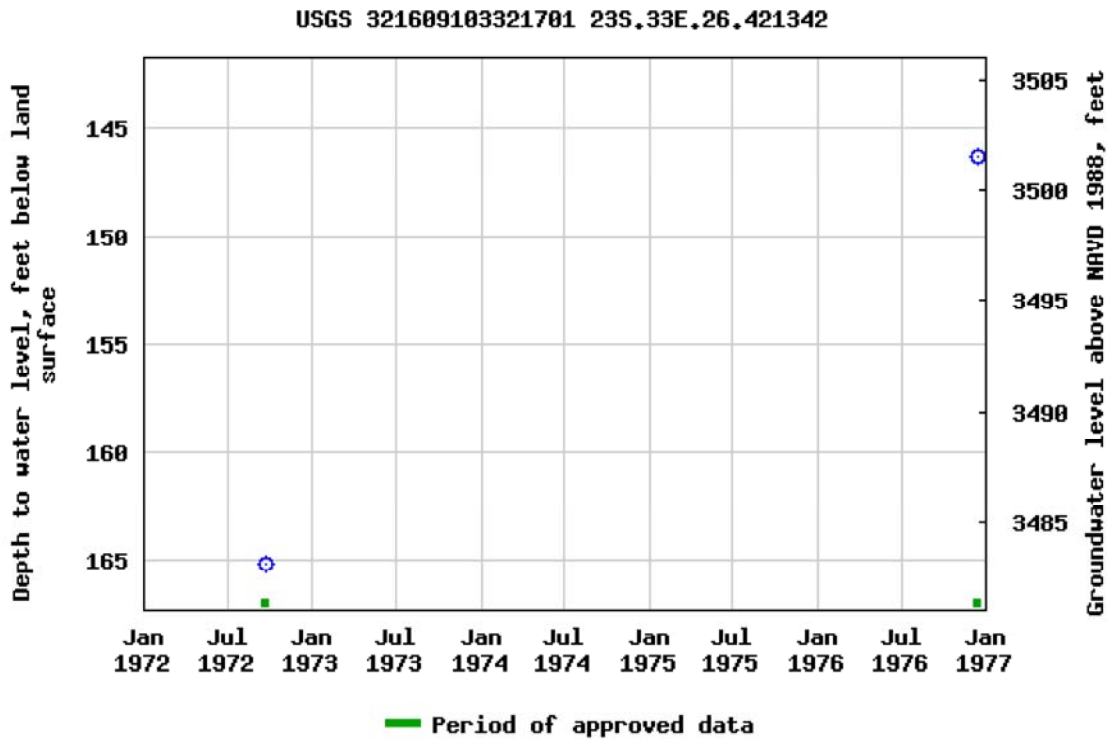
Land-surface elevation 3,648 feet above NAVD88

The depth of the well is 173 feet below land surface.

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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Page Last Modified: 2019-07-17 18:59:27 EDT

1.04 0.91 nadww01

Appendix C

Laboratory Analytical Reports



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

September 05, 2019

MELODIE SANJARI

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: 118 H - COMP

Enclosed are the results of analyses for samples received by the laboratory on 08/26/19 11:15.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L 1 - SURFACE	H902927-01	Soil	22-Aug-19 06:00	26-Aug-19 11:15
L 1 - 0.5'	H902927-02	Soil	22-Aug-19 06:10	26-Aug-19 11:15
L 2 - SURFACE	H902927-03	Soil	22-Aug-19 07:00	26-Aug-19 11:15
L 2 - 0.5'	H902927-04	Soil	22-Aug-19 07:10	26-Aug-19 11:15
L 3 - SURFACE	H902927-05	Soil	22-Aug-19 08:00	26-Aug-19 11:15
L 3 - 0.5'	H902927-06	Soil	22-Aug-19 08:10	26-Aug-19 11:15
L 4 - SURFACE	H902927-07	Soil	22-Aug-19 09:00	26-Aug-19 11:15
L 4 - 0.5'	H902927-08	Soil	22-Aug-19 09:10	26-Aug-19 11:15
L 5 - SURFACE	H902927-09	Soil	22-Aug-19 10:00	26-Aug-19 11:15
L 5 - 0.5'	H902927-10	Soil	22-Aug-19 10:10	26-Aug-19 11:15

09/04/19 - Client added TPH to sampe -02.

09/05/19 - This is the revised report and will replace the one sent on 08/29/19.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
---	---	------------------------------

**L 1 - SURFACE
H902927-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	0.083		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	0.227		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	1.14		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	1.45		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.7 %		73.3-129	9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	20.9		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
DRO >C10-C28*	701		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
EXT DRO >C28-C36	2560		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	

Surrogate: 1-Chlorooctane			104 %		41-142	9082706	CK	28-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			118 %		37.6-147	9082706	CK	28-Aug-19	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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L 1 - 0.5'
H902927-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
DRO >C10-C28*	29.4		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	
EXT DRO >C28-C36	318		10.0	mg/kg	1	9090401	MS	04-Sep-19	8015B	

Surrogate: 1-Chlorooctane			73.8 %	41-142		9090401	MS	04-Sep-19	8015B	
Surrogate: 1-Chlorooctadecane			76.9 %	37.6-147		9090401	MS	04-Sep-19	8015B	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
---	---	------------------------------

**L 2 - SURFACE
H902927-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			87.1 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
EXT DRO >C28-C36	21.7		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	

Surrogate: 1-Chlorooctane			103 %	41-142		9082706	CK	28-Aug-19	8015B	
---------------------------	--	--	-------	--------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			116 %	37.6-147		9082706	CK	28-Aug-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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L 2 - 0.5'
H902927-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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**L 3 - SURFACE
H902927-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3840		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			87.9 %		73.3-129	9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	

Surrogate: 1-Chlorooctane			102 %		41-142	9082706	CK	28-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			116 %		37.6-147	9082706	CK	28-Aug-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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L 3 - 0.5'
H902927-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds

Chloride	8930		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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**L 4 - SURFACE
H902927-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.6 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	

Surrogate: 1-Chlorooctane			92.9 %	41-142		9082706	CK	28-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	37.6-147		9082706	CK	28-Aug-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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L 4 - 0.5'
H902927-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	96.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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**L 5 - SURFACE
H902927-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9082803	BF	28-Aug-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9082803	BF	28-Aug-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.8 %	73.3-129		9082803	BF	28-Aug-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9082706	CK	28-Aug-19	8015B	

Surrogate: 1-Chlorooctane			107 %	41-142		9082706	CK	28-Aug-19	8015B	
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Surrogate: 1-Chlorooctadecane			122 %	37.6-147		9082706	CK	28-Aug-19	8015B	
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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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L 5 - 0.5'
H902927-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	32.0		16.0	mg/kg	4	9082818	CK	28-Aug-19	4500-CI-B	

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9082818 - 1:4 DI Water										
Blank (9082818-BLK1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	ND	16.0	mg/kg							
LCS (9082818-BS1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9082818-BSD1)										
Prepared & Analyzed: 28-Aug-19										
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9082803 - Volatiles

Blank (9082803-BLK1)

Prepared & Analyzed: 28-Aug-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0887		mg/kg	0.100		88.7	73.3-129			

LCS (9082803-BS1)

Prepared & Analyzed: 28-Aug-19

Benzene	1.77	0.050	mg/kg	2.00		88.6	72.2-131			
Toluene	1.95	0.050	mg/kg	2.00		97.5	71.7-126			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	68.9-126			
Total Xylenes	6.27	0.150	mg/kg	6.00		104	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0889		mg/kg	0.100		88.9	73.3-129			

LCS Dup (9082803-BSD1)

Prepared & Analyzed: 28-Aug-19

Benzene	1.68	0.050	mg/kg	2.00		83.9	72.2-131	5.48	6.91	
Toluene	1.86	0.050	mg/kg	2.00		92.8	71.7-126	4.88	7.12	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	4.00	7.88	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125	3.52	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0873		mg/kg	0.100		87.3	73.3-129			

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9082706 - General Prep - Organics

Blank (9082706-BLK1)		Prepared: 27-Aug-19 Analyzed: 28-Aug-19								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	37.6-147			

LCS (9082706-BS1)		Prepared: 27-Aug-19 Analyzed: 28-Aug-19								
GRO C6-C10	227	10.0	mg/kg	200		113	76.5-133			
DRO >C10-C28	234	10.0	mg/kg	200		117	72.9-138			
Total TPH C6-C28	461	10.0	mg/kg	400		115	78-132			
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	41-142			
Surrogate: 1-Chlorooctadecane	63.1		mg/kg	50.0		126	37.6-147			

LCS Dup (9082706-BSD1)		Prepared: 27-Aug-19 Analyzed: 28-Aug-19								
GRO C6-C10	227	10.0	mg/kg	200		114	76.5-133	0.151	20.6	
DRO >C10-C28	241	10.0	mg/kg	200		121	72.9-138	3.14	20.6	
Total TPH C6-C28	468	10.0	mg/kg	400		117	78-132	1.68	18	
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	41-142			
Surrogate: 1-Chlorooctadecane	63.7		mg/kg	50.0		127	37.6-147			

Batch 9090401 - General Prep - Organics

Blank (9090401-BLK1)		Prepared & Analyzed: 04-Sep-19								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.8	41-142			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		87.0	37.6-147			

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Analytical Results For:

MMX 2737 PECOS HWY CARLSBAD NM, 88220	Project: 118 H - COMP Project Number: NONE GIVEN Project Manager: MELODIE SANJARI Fax To: (575) 236-6201	Reported: 05-Sep-19 09:05
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9090401 - General Prep - Organics

LCS (9090401-BS1)

Prepared & Analyzed: 04-Sep-19

GRO C6-C10	203	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	211	10.0	mg/kg	200		105	72.9-138			
Total TPH C6-C28	414	10.0	mg/kg	400		103	78-132			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.8	41-142			
Surrogate: 1-Chlorooctadecane	45.0		mg/kg	50.0		90.0	37.6-147			

LCS Dup (9090401-BSD1)

Prepared & Analyzed: 04-Sep-19

GRO C6-C10	199	10.0	mg/kg	200		99.3	76.5-133	2.19	20.6	
DRO >C10-C28	204	10.0	mg/kg	200		102	72.9-138	3.43	20.6	
Total TPH C6-C28	402	10.0	mg/kg	400		101	78-132	2.82	18	
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.5	41-142			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	37.6-147			

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

- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **MMX**
 Project Manager: **Melodie Sanjaric**
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____ Company: **MMX**
 Attn: **Lupe Carrasco**
 Address: _____
 City: _____ State: _____ Zip: _____
 Project #: _____ Project Owner: _____
 Project Name: **118H-Comp**
 Project Location: _____ State: _____ Zip: _____
 Sampler Name: **MRS**
 Phone #: _____ Fax #: _____
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
4900997	L1-SWTF									8/22	9:00	BTEX	
	L1-0.5'										10:10	TPH	TPH added 9/14 Rush
	L2-SWTF										7:00	CI	
	L2-0.5'										7:10	TPH	
	L3-SWTF										8:00	TPH	
	L3-0.5'										8:10	TPH	
	L4-SWTF										9:00	TPH	
	L4-0.5'										9:10	TPH	
	L5-SWTF										10:00	TPH	
	L5-0.5'										10:00	TPH	

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Reinquired By: _____ Date: **8-26-19** Received By: _____
 Time: _____
 Relinquished By: _____ Date: **11-15** Received By: _____
 Time: _____

Delivered By: (Circle One) **0.9%** #497 Sample Condition
 Cooler Intact Yes No
 Sample - UPS - Bus - Other: **Inspected 1.3%** Yes No
 CHECKED BY: _____ (Initials)

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

REMARKS:
 email results to
 Melodie.Sanjaric@southernmiller.com.
 111



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

September 11, 2019

MELODIE SANJARI

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: 118 H - COMP

Enclosed are the results of analyses for samples received by the laboratory on 09/09/19 10:00.

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

Cardinal Laboratories is 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MMX
 MELODIE SANJARI
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	09/09/2019	Sampling Date:	08/22/2019
Reported:	09/11/2019	Sampling Type:	Soil
Project Name:	118 H - COMP	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MMX		

Sample ID: L 3 - 3' (H903096-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/10/2019	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: MMX
 Project Manager: Melodee Sanjari
 Address: _____
 City: _____ State: _____ Zip: _____
 P.O. #: _____
 Company: MMX
 Attn: Lupe Carasco
 Address: _____
 City: _____ State: _____ Zip: _____
 Project #: _____
 Project Owner: _____
 Project Name: 118th Comp.
 Project Location: _____
 State: _____ Zip: _____
 Phone #: _____
 Sample Name: MRS
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING	DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :								
<u>H903094</u>	<u>13-3</u>					<u>X</u>							<u>8/22/19</u>	<u>8:45</u>	<u>✓</u>					

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Relinquished By: _____
 Date: 9/19/19
 Time: 10:00
 Received By: _____
 Date: _____
 Time: _____

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:
email results to
Melodee.Sanjari@soudermiller.com

Delivered By: (Circle One) 5:32
 Sampler - UPS - Bus - Other: Resisted 5:32
 Sample Condition: #47
 Cool Intact
 Yes No
 Yes No
 CHECKED BY: VG

+ Cardinal cannot accept verbal pharase. Please see website.



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

September 26, 2019

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: THISTLE UNIT 118H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/19 12:30.

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

Cardinal Laboratories is 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 style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	09/23/2019	Sampling Date:	09/20/2019
Reported:	09/26/2019	Sampling Type:	Soil
Project Name:	THISTLE UNIT 118H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MMX		

Sample ID: BH (H903261-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.87	93.4	2.00	4.41	
Toluene*	<0.050	0.050	09/24/2019	ND	1.80	90.2	2.00	2.88	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.78	89.1	2.00	2.93	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.30	88.3	6.00	3.54	
Total BTEX	<0.300	0.300	09/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.0 % 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	96.0	16.0	09/24/2019	ND	432	108	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	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					

Surrogate: 1-Chlorooctane 78.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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* = 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:

MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	09/23/2019	Sampling Date:	09/20/2019
Reported:	09/26/2019	Sampling Type:	Soil
Project Name:	THISTLE UNIT 118H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MMX		

Sample ID: SW (H903261-02)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2019	ND	1.87	93.4	2.00	4.41	
Toluene*	<0.050	0.050	09/25/2019	ND	1.80	90.2	2.00	2.88	
Ethylbenzene*	<0.050	0.050	09/25/2019	ND	1.78	89.1	2.00	2.93	
Total Xylenes*	<0.150	0.150	09/25/2019	ND	5.30	88.3	6.00	3.54	
Total BTEX	<0.300	0.300	09/25/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.3 % 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	96.0	16.0	09/24/2019	ND	432	108	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	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: MMX		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Merodie Sanjari		Company: MMX		Address:		Att: Lupe Carrasco	
Address:		State:		City:		Address:	
City:		State:		City:		Address:	
Phone #:		Fax #:		Project Owner:		Project Name:	
Project #:		Project Location:		Project Name: TRISTLE UNIT 1184H		State:	
Project Name:		Project Location:		Project Name:		State:	
Project Location:		Project Name:		Project Location:		State:	
Sampler Name: MRS		Fax #:		Phone #:		Zip:	
FOR LAB USE ONLY		PRESERV:		SAMPLING			
Lab I.D. H903261		Sample I.D.		(G)RAB OR (C)OMP.			
1 BH		2 SW		# CONTAINERS			
				GROUNDWATER			
				WASTEWATER			
				SOIL		X	
				OIL		X	
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
				DATE		TIME	
				9/20/19		11:00	
				9/20/19		12:00	
						BTEX X	
						TPH X	
						CI-	

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: **M. Sanjari** Date: **9/20/19** Received By: **Jennifer A. Decker** Date: **9/20/19**
 Relinquished By: **M. Sanjari** Date: **12:30** Received By: **Jennifer A. Decker** Date: **12:30**

Delivered By: (Circle One) **1.3c** Sample Condition: **Intact** CHECKED BY: **JS**
 Sampler - UPS - Bus - Other: **Collected 1.7c** Cool Intact Yes No No No

Appendix D Excavation Photo



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 164781

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 164781
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/2/2023