

June 2023

## Remediation Report & Closure Request

### DeSoto Springs Recycling Containment Release

Incident #NRM2025449421

Section 5, T26S R36E, Lea County



Release excavation of surface not "in-use," outside of containment facility on April 25, 2021; view north-northwest

**Prepared for:**  
**Ameredev Operating, LLC**  
**Austin, Texas**

**Prepared by:**  
**R.T. Hicks Consultants, Ltd.**  
**901 Rio Grande NW F-142**  
**Albuquerque, New Mexico**

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996  
Artesia ▲ Carlsbad ▲ Midland

June 22, 2023

New Mexico Oil & Gas Conservation Division, District I  
1625 N. French Drive  
Hobbs, New Mexico 88240

*Emailed to OCD.Enviro@state.nm.us and submitted via NMOCD E-permitting portal*

RE: Ameredev Operating LLC – DeSoto Springs Release (8/4/2020)  
Remediation Report and Closure Request  
Incident Number NRM2025449421

To Whom It May Concern:

In accordance with 19.15.29 NMAC (Release Rule), R.T. Hicks Consultants submits this Remediation Report and Closure Request on behalf of Ameredev Operating LLC (Ameredev). Through our increased understanding and experience with the Release Rule, we now realize (and the excavation confirmed) that a *remediation* plan was not required for this release. The November 2020 Remediation Plan would have been more aptly termed a “Reclamation Plan” for the upper four feet of the surface as the Table 1 Closure Criteria were met for groundwater depth greater than 100 feet. Nonetheless, we will refer to the Remediation Plan with the understanding that only reclamation was necessary in this circumstance.

This Closure Request submission includes the following components:

1. Updated C-141 form (with release volume and water well proximity added)
2. Table 1 (analyses) and Plate 1 (map) of excavation
3. Appendix A: Calculation of release volume estimate
4. Appendix B: Additional groundwater data (map, logs, POD summary)
5. Appendix C: Photographic summary of excavation, backfill, seeding
6. Appendix D: Laboratory reports of excavation composites
7. Appendix E: Disposal manifests (432 cubic yards)

## **Timeline & Summary of Activities**

All delineation and final samples were collected in accordance with 19.15.29.11, following the NRCS Field Guide<sup>1</sup>. As presented in the 2020 Remediation Plan, the only area of the release

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<sup>1</sup> [https://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052523.pdf](https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052523.pdf)

footprint with remediation planned was a 754 square-foot portion of sandy surface off-site of the facility, between the east location fence and a buried gas pipeline (Plate 1). History of the release and implementation of the Plan is summarized below:

8/4/2020	Release discovered; volume unknown. NMOCD notified via email by R.T. Hicks
8/11/2020	Notice of sampling emailed to NMOCD
8/13/2020	Hand auger sampling conducted at release
9/8/2020	Notice of sampling submitted to NMOCD
9/9/2020	Ameredev submitted Initial C-141 form submitted to NMOCD
9/10/2020	Sampled site using backhoe
10/29/2020	Request extension from NMOCD to submit Characterization Report/Remediation Plan; NMOCD approved extension
11/23/2020	Submit Characterization Report/Remediation Plan to NMOCD
3/30/2020	Email notification of excavation to NMOCD
3/31/2021	Initiate excavation, beginning at terminus of release and encompassing Sample Point A; voicemail to NMOCD explaining wall composites collected that may become closure samples
4/6/2021	Collect composite samples from and 4-ft floor; transport to disposal ongoing; <u>FINAL SAMPLE OF SOUTH WALL</u>
4/25/2021	Collect composite samples from extended N, E, W walls and 5-ft floor <u>FINAL SAMPLE OF EAST WALL</u>
April 26-29	2-3 inches of rainwater in excavation
5/4/2021	Targeted excavation and removal of standing water; composite samples of floor and extended walls; <u>FINAL SAMPLE OF WEST WALL and 5-ft FLOOR (divided into 3 areas)</u> ; Began creating ramp from north wall to aid reach of excavator; heavy rains followed
6/7/2021	Email notice of sampling north wall to NMOCD
6/8/2021	Field test of composite sample of north wall; begin extension Heavy rains filled excavation
8/5/2021	<u>FINAL SAMPLE OF NORTH WALL (with ramp)</u>
8/22/2021	Remove rainwater from bottom of excavation
9/16/2021	Email notice of backfill to NMOCD
9/21/2021	Backfill of excavation with clean, imported soil begins (EC = 0.14 dS/m)
9/29/2021	Backfill complete; measure disturbed area (0.25 acre) for seed
5/23/2022	Seed disturbed area with BLM #2 mixture via broadcast method ahead of rain forecasted for the next day

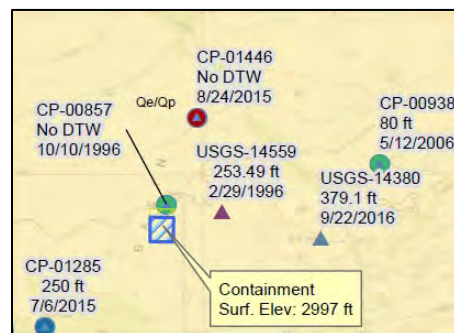
## Closure Criteria and Groundwater

### Volume of Release

The volume of the release was unknown at the time of submission of the initial C-141. Appendix A demonstrates how, using chloride delineation data, we estimated the volume of the release is approximately 319 barrels and have added this volume to the C-141 form.

### Well Proximity

Figure 1 of the Nov. 2020 Remediation Plan showed a water well (CP-00857) north of the site (adjacent image). We were not able to locate CP-00857 during the investigation of the release. Since then, however, the well has been located and measures approximately 650 feet north of the Site and the C-141 has been updated to reflect this proximity. The well operator reports that the well has not been pumping and needs repair, but when working, it was used commercially and for livestock. Depth to groundwater at the time of installation in 1996 was reported as 300 feet. Appendix B contains the well record and POD summary for CP-00857 as found on the Office of the State Engineer's (OSE) website.



**Map of water wells**  
(crop from Fig. 1 of 2020 Remediation Plan)

Paragraph (4) of Subsection C of 19.15.29.12 NMAC states that releases that meet certain siting criteria must be treated using the most stringent tier of Table 1 closure requirements. Subparagraph (c) addresses proximity to water wells:

- (c) within
  - (i) 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or
  - (ii) 1000 feet of any fresh water well or spring;



**CP-00857 on 2/13/2023, view north** (provided by Ameredev)

We believe this is an error that was overlooked during the drafting of the Release Rule and that the setback distances for the two categories of water wells in Items (i) and (ii) were likely meant to be reversed as greater protection (e.g., greater radius) afforded to specifically domestic or stock wells would be logical. The Site is 650 feet away from water well CP-00857, greater than 500 feet (i) but less than 1000 feet (ii); therefore, during delineation and excavation, the proximity of this water well did not affect our closure target for chloride.

### Groundwater Depth

We employed the closure criteria from the Release Rule for depth to water greater than 100 feet. The 2020 Remediation Plan used USGS groundwater measurements to determine a depth-to-water of 222 feet. A newly-acquired soil boring log from September 26, 2022 confirms groundwater greater than 101 feet approximately 1,245 feet northwest of the Site. The information for CP-1922 POD 1 submitted to OSE is also included in Appendix B.



In summary, the chloride closure criterion of 20,000 mg/kg was used for soils greater than four feet deep because

- The commercial/livestock well (CP-00857) is greater than 500 feet from the edge of the release and we believe that the applicable part of the Rule that seemingly affords greater protection to “other” wells over domestic and livestock wells is an oversight.
- Depth to groundwater is greater than 100 feet

## **Excavation and Disposal**

### Off-Site Remediation and Reclamation (not in-use)

The spill footprint encompassing Sample Points A and B were excavated beginning on March 31, 2021. After approximate dimensions of the surface area shown on Plate 1 were met, the walls were laterally extended as needed in order to meet reclamation/closure criteria of the 5-point wall composite samples. The final volume of soil removed was 432 cubic yards, transported to Northern Delaware Basin Landfill (Appendix E).

Plate 1 also depicts the final excavation dimensions and locations of three composite samples on the floor/base. The excavation was backfilled using clean, imported fill and shaped to match the surrounding surface. The disturbed surface was seeded using BLM #2 mixture by broadcast method during the next growing season ahead of a forecasted rainfall.

### On-Site Reclamation (In-use)

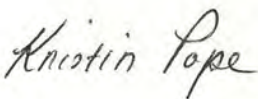
As reported in the 2020 Characterization Report/Remediation Plan, the remainder of the impacted area was confined to the active recycling location pad (approximately 90% of the release area). All characterization samples from this area met the closure criteria of Table 1 of the Release Rule, therefore, reclamation activity on this in-use portion of the release consisted of restoration of the surface of the location pad and ramp to prevent ponding and erosion.

## **Proposed Timeline**

NMOCD will be notified when re-vegetation criteria described in the Rule are met; this is expected to take approximately two years, depending of seasonal rain and drought conditions.

Thank you for your consideration of this Closure Request. Please contact me or Andrew Parker of Ameredev (970-570-9535) with any questions regarding this submission.

Sincerely,



R.T. Hicks Consultants, Ltd.  
Kristin Pope  
Sr. Project Geologist

# UPDATED C-141 FORM

*REVISED VOLUME ESTIMATE & WATER WELL PROXIMITY (PP.1, 3)*

Plate 1	Scaled excavation map
Table 1	Excavation sampling summary

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party <b>Ameredev Operating, LLC</b>	OGRID <b>372224</b>
Contact Name <b>Shane McNeely</b>	Contact Telephone <b>737-300-4729</b>
Contact email <b>smcneely@amerdev.com</b>	Incident # (assigned by OCD) <b>NRM2025449421</b>
Contact mailing address <b>2901 Via Fortuna, Suite 600</b>	<b>Austin, Texas 78746</b>

### Location of Release Source

Latitude **32.075571°** Longitude **-103.281182° (approx.)**  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>DeSoto Springs Recycling Containment</b>	Site Type <b>Recycling Containment</b>
Date Release Discovered <b>8/4/2020, 7 am</b>	API# (if applicable)

Unit Letter	Section	Township	Range	County
	<b>5</b>	<b>26S</b>	<b>36E</b>	<b>Lea</b>

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

### 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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>319 (revised June 2023)</b>	Volume Recovered (bbls) <b>0</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

**Gasket on a water transport pump failed and created a spray of produced water with a few small pooling areas.**

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>There are no reasonable data at this time to determine if this release less than 25 bbls. Therefore, we are reporting the release within the 24-hour window and will provide an estimate of the volume of the release after site characterization.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>This form was transmitted to <a href="mailto:ocd.enviro@state.nm.us">ocd.enviro@state.nm.us</a> with return/read receipt.</b>	

## Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input 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:          	
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: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____



Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>222</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? <i>REVISED June 2023</i>	<input checked="" type="checkbox"/> Yes <input 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 <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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

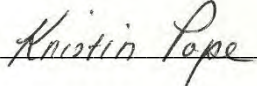
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

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Incident ID	
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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: Kristin Pope Title: Consultant for Ameredev Operating LLCSignature:  Date: 11/6/2020 **REVISED 6/22/2023**email: kristin@rthicksconsult.com AND smcneely@ameredev.com Telephone: 575-302-6755, 737-300-4729**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kristin Pope Title: Consultant for Ameredev Operating LLC

Signature: Kristin Pope Date: 11/6/2020

email: kristin@rthicksconsult.com AND smcneely@amerdev.com Telephone: 575-302-6755, 737-300-4729

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Kristin Pope, R.T. Hicks Consultants Title: Consultant for Ameredev Operating LLC


Signature:  Date: 6/22/2023

email: kristin@rthicksconsult.com Telephone: 575-302-6755

### 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.

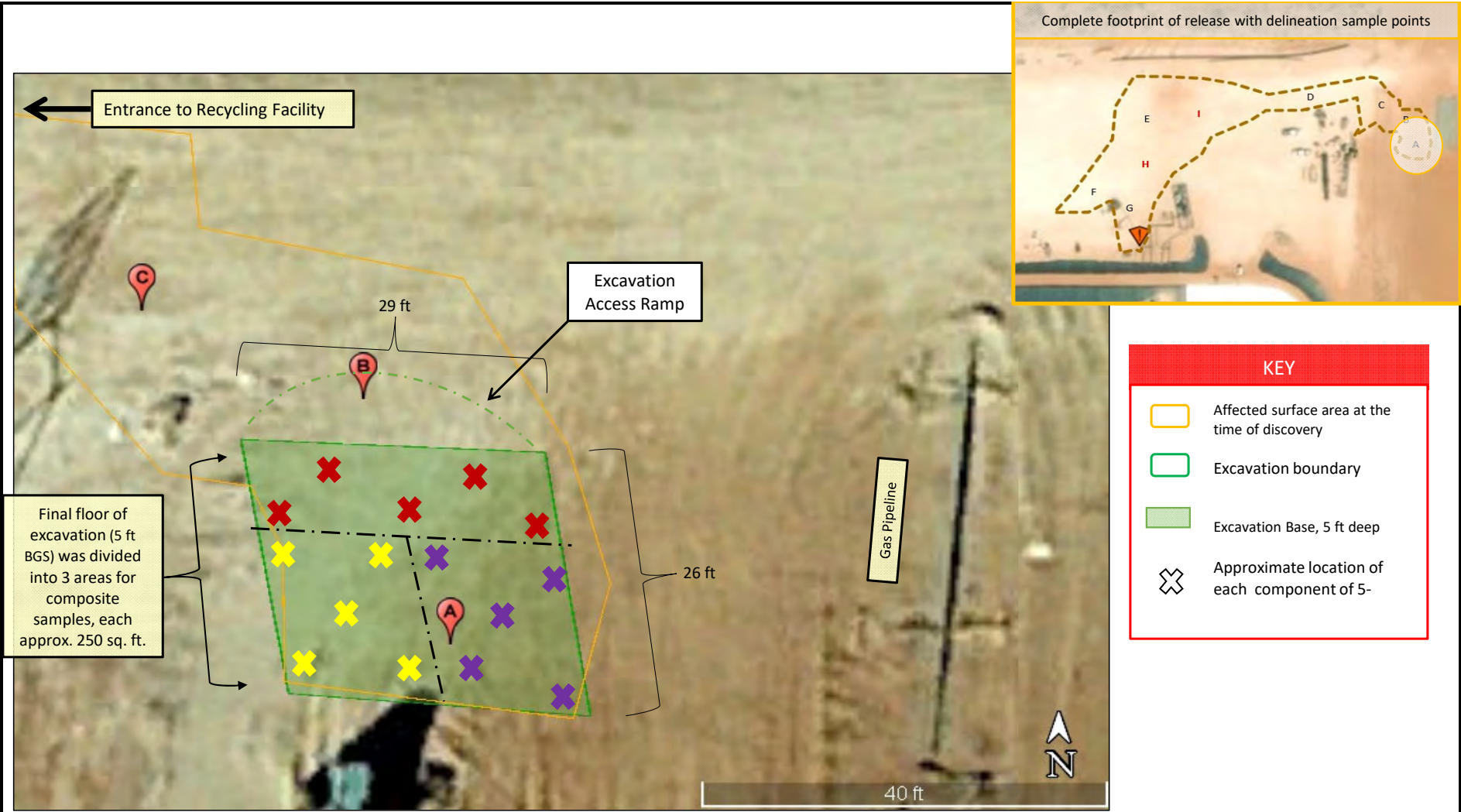
Closure Approved by:  Date: 09/20/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

**Note: Water well designated as CP-00857 is older than the existing preference; therefore, it has been excluded from it being use toward site criteria per 19.15.29.11A (5a)(ii) NMAC.**

**Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or drilling operations.**





TOTAL VOLUMED DISPLACED			SEEDING SUMMARY (5/23/2022)		
2021 Disposal	432	cubic yards	Disturbed surface area after backfill	0.25	acre
			BLM #2 seed mixture	8.64	lbs seed used
R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW, Suite F-142 Albuquerque, NM 87104 505-266-5004			Excavation Map (2019 Google Earth satellite image)		Plate 1
			Ameredev Operating, LLC	DeSoto Springs Containment Release	June 2023

## DeSoto Springs Release (8/4/2020)

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (Hanna) (dS/m)	Chloride (mg/kg)	In Use?	Comments
NMOCD Limits					Field	Lab		
0 - 4 feet & "not in-use"						600		
> 4 ft or "in-use"						20,000		
N wall comp.	4/25/2021		0.0	4.0	1.64	704	No	Material removed and wall extended
N wall comp. (ramp)	5/4/2021	ramp created for excavator reach	0.0	4.0	0.08	752	No	Material removed and wall extended
N wall comp. (ramp)	8/5/2021		0.0	4.0	0.06	16	No	
S wall comp.	4/6/2021		0.0	4.0	0.59	560	No	
E wall comp.	4/25/2021		0.0	4.0	1.33	1180	No	Material removed and wall extended
E wall comp.	5/4/2021		0.0	4.0	0.56	448	No	
W wall comp.	4/6/2021		0.0	4.0	0.58	720	No	Material removed and wall extended
W wall comp.	5/4/2021		0.0	4.0	0.55	32	No	
Floor comp. 675 sq. ft	4/25/2021	5.0			1.66	2040	No	
Floor comp. (N 1/3)	5/4/2021	5.0				1720	No	Base divided into 3 sample areas
Floor comp. (SE 1/3)	5/4/2021	5.0				1960	No	Base divided into 3 sample areas
Floor comp. (SW 1/3)	5/4/2021	5.0				1180	No	Base divided into 3 sample areas
All concentrations of Benzene, total BTEX, DRO, GRO, MRO, and total TPH for all samples are below laboratory detection limits. See lab reports for complete analyses.								
R.T. Hicks Consultants, Ltd. 901 Rio Grande Blvd. NW, Suite F-142 Albuquerque, New Mexico 87104			Excavation Base & Wall Soil Analyses				Table 1	
			Ameredev Operating LLC				June 2023	

# APPENDIX A

Estimate of Release Volume

## RELEASED VOLUME ESTIMATE

We modified Table 1 from the 2020 Release Characterization Report and Remediation Plan to create a better format to calculate our estimate of the volume of produced water released. We considered the following in our calculation/estimate:

1. Field measurements of conductance and laboratory analyses indicate that the release is restricted to the upper 4 feet of the unsaturated zone.
2. Using the data from 0-4 depth interval provides a reasonable estimate of chloride concentration of the sand/caliche beneath the release footprint.
3. In general, chloride concentrations of the pad footprint are lower than concentrations in the sand, and the compacted caliche of the pad is very different than the sand of the pasture. Thus, we elected to consider these two areas separately for the estimate.
4. A limited Google Search to compare published densities of caliche and sand suggests they are similar. There is much more data for sand density than caliche density and caliche pads are generally less than 1.5 feet thick. Thus, we elected to use the density of sand in the calculation.
5. The "background" concentration of 16 mg/kg chloride is negligible so we elected not to subtract it from the calculation.
6. The chloride concentration of the produced water in a recycling containment may vary daily. Discussions with operators suggest that the chloride concentration used (80,000 mg/L) is a reasonable estimate.

Arithmetic yields an estimate of 319 barrels of released produced water.



Characterization Sample Points



## DeSoto Springs Release Volume Estimate

Sample ID	Date	Discrete Depth	Top Depth	Bottom Depth	EC (Hanna)	Chloride
		(Feet)	(Feet)	(Feet)	(dS/m)	(mg/kg)
A @ 4.1 ft	9/10/2020	4.1			0.16	280
B @ 4.1 ft	9/10/2020	4.1			0.00	
C @ 4.1 ft	9/10/2020	4.1			0.01	
D @ 4.1 ft	9/10/2020	4.1			0.00	
E @ 4.1 ft	9/10/2020	4.1			0.00	<60
F @ 4.1 ft	9/10/2020	4.1			0.01	
G @ 4.1 ft	9/10/2020	4.1			0.00	
H @ 4.1 ft	9/10/2020	4.1			0.01	
I @ 4.1 ft	9/10/2020	4.1			0.00	
A @ 5.0 ft	9/10/2020	5.0				190
F @ 1.0 ft	8/13/2020		0.0	1.0	1.66	2160
D @ 1.5 ft	8/13/2020		0.0	1.5	2.05	4080
E @ 1.5 ft	8/13/2020		0.0	1.5	1.97	3360
G @ 1.5 ft	8/13/2020		0.0	1.5	3.75	5920
A @ 0-2 ft	8/13/2020		0.0	2.0	1.30	2200
B @ 0-2 ft	8/13/2020		0.0	2.0	2.75	2480
Background	8/13/2020		0.0	2.0	0.02	16
C @ 0-2 ft	8/13/2020		0.0	2.0	4.61	6080
A @ 0-4 ft	9/10/2020		0.0	4.0		2200
B @ 0-4 ft	9/10/2020		0.0	4.0		1700
C @ 0-4 ft	9/10/2020		0.0	4.0		860
D @ 0-4 ft	9/10/2020		0.0	4.0		1800
E @ 0-4 ft	9/10/2020		0.0	4.0		470
F @ 0-4 ft	9/10/2020		0.0	4.0		190
G @ 0-4 ft	9/10/2020		0.0	4.0		680
H @ 0-4 ft	9/10/2020		0.0	4.0		580
I @ 0-4 ft	9/10/2020		0.0	4.0		680

Average 0-4 on Pad	733	mg/kg
Average 0-4 Pasture	1587	mg/kg
Average 4.1 EC Pad	0.00	
Average 4.1 EC Pasture	0.06	
Area Release on Pad	2100	m2 approx
Area Release in Pasture	200	m2 approx
Depth of Release is 4 feet	1.3	meters
Density Sand (NOTE 1)	1682	kg/m3
Mass Sand below Pad Footprint	4,591,860	mg
Mass Sand below Pasture Footprint	437,320	mg
Chloride in Spill on Pad	3,367,364,000	mg
Chloride in Spill on Pasture	693,881,067	mg
Total Chloride Released	4,061,245,067	mg
Chloride of Released Water (NOTE 2)	80000	mg/L
Volume Released	50,766	L
Volume Released bbls	319.31	bbls

NOTE 1

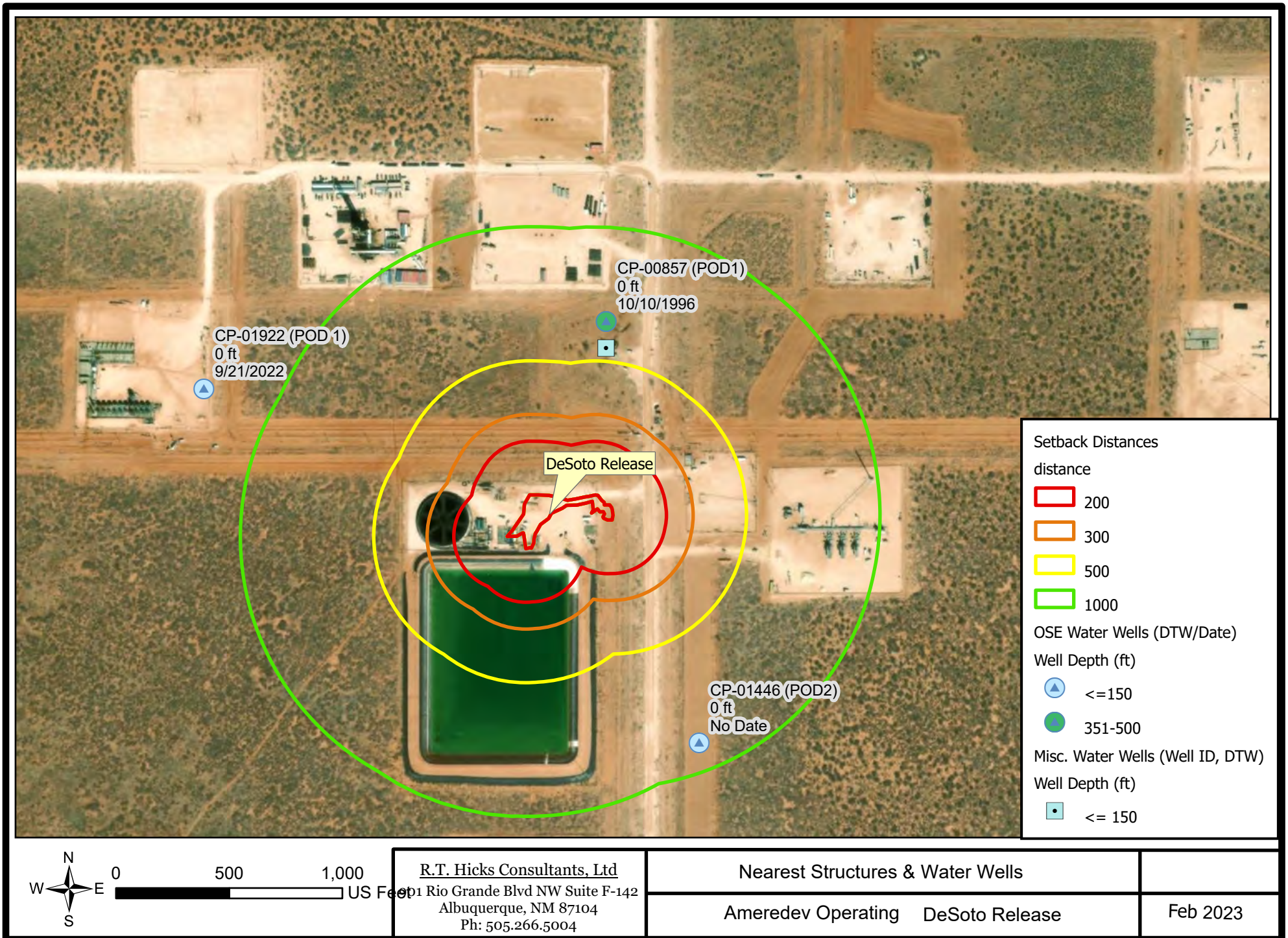
[https://dreamcivil.com/density-of-sand/#b\\_Density\\_of\\_Dry\\_Sand](https://dreamcivil.com/density-of-sand/#b_Density_of_Dry_Sand)

NOTE 2

Attached

## APPENDIX B

Additional Groundwater Data






# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 00857 POD1	1 2 2 05 26S 36E	662244	3550380 

**Driller License:** 1184 **Driller Company:** WEST TEXAS WATER WELL SERVICE

**Driller Name:** COLLIS, ROBERT E. (LD)

**Drill Start Date:** 10/09/1996

**Drill Finish Date:** 10/10/1996

**Plug Date:**

**Log File Date:** 01/15/1997

**PCW Rcv Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:** 100 GPM

**Casing Size:**

**Depth Well:** 365 feet

**Depth Water:**

**Water Bearing Stratifications:**

**Top Bottom Description**

300 365 Sandstone/Gravel/Conglomerate

**Meter Number:** 18966

**Meter Make:**

**Meter Serial Number:**

**Meter Multiplier:** 1.0000

**Number of Dials:** 1

**Meter Type:** Diversion

**Unit of Measure:** Gallons

**Return Flow Percent:**

**Usage Multiplier:**

**Reading Frequency:** Quarterly (No Reading Expected)

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2017	0

**Meter Number:** 19007

**Meter Make:** OCTAVE

**Meter Serial Number:** 19235055

**Meter Multiplier:** 1.0000

**Number of Dials:** 9

**Meter Type:** Diversion

**Unit of Measure:** Gallons

**Return Flow Percent:**

**Usage Multiplier:**

**Reading Frequency:** Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
02/01/2017	2017	2599614	A	RPT		0
04/01/2017	2017	2627531	A	RPT		3.598
05/01/2017	2017	2631319	A	RPT		0.488
06/01/2017	2017	2652251	A	RPT		2.698
07/01/2017	2017	2720508	A	RPT		8.798
08/01/2017	2017	2782114	A	RPT		7.941
09/01/2017	2017	2858989	A	RPT		9.909
10/01/2017	2017	2906622	A	RPT		6.140



**Meter Readings (in Acre-Feet)**

<b>Read Date</b>	<b>Year</b>	<b>Mtr Reading</b>	<b>Flag</b>	<b>Rdr</b>	<b>Comment</b>	<b>Mtr Amount Online</b>
11/01/2017	2017	2912696	A	RPT		0.783
12/01/2017	2017	2998304	A	RPT		11.034
02/01/2018	2018	3146658	A	RPT		19.122
03/01/2018	2018	3212353	A	RPT		8.468
04/01/2018	2018	3286487	A	RPT		9.555
05/01/2018	2018	3381113	A	RPT		12.197
06/01/2018	2018	3470486	A	RPT		11.520
07/01/2018	2018	3547614	A	RPT		9.941
09/01/2018	2018	3569776	A	RPT		2.857
12/01/2018	2018	4076874	A	RPT		65.362
01/01/2019	2018	4181523	A	RPT		13.489
02/01/2019	2019	4296954	A	RPT		14.878
03/01/2019	2019	4346796	A	RPT		6.424
04/01/2019	2019	4365803	A	RPT		2.450
05/01/2019	2019	4418132	A	RPT		6.745
07/31/2019	2019	0	A	RPT		0
09/30/2019	2019	325518	A	RPT		41.957
10/31/2019	2019	388564	A	RPT		8.126
12/31/2019	2019	622880	A	RPT		30.202
01/19/2020	2020	672026	A	RPT		6.335
01/19/2020	2020	0	A	RPT		0
01/31/2020	2020	336667	A	RPT		1.033
03/31/2020	2020	9198198	A	RPT		27.195
08/31/2020	2020	25497766	A	RPT		50.022
09/30/2020	2020	29234202	A	RPT		11.467
11/30/2020	2020	36579854	A	RPT		22.543
12/31/2020	2020	40821185	A	RPT		13.016
01/31/2021	2021	45738623	A	RPT		15.091
11/01/2021	2021	69784825	A	ad		73.795
11/30/2021	2021	72486254	A	ad		8.290
12/31/2021	2021	74803427	A	ad		7.111
01/31/2022	2022	77275311	A	ad		7.586
02/28/2022	2022	80922116	A	ad		11.192
03/31/2022	2022	85274916	A	ad		13.358
04/30/2022	2022	89038721	A	ad		11.551
05/31/2022	2022	90103234	A	ad		3.267
06/30/2022	2022	90784534	A	ad		2.091
08/31/2022	2022	90870989	A	ad		0.265
09/30/2022	2022	90870989	A	ad		0
10/31/2022	2022	90870989	A	ad		0
11/30/2022	2022	90870989	A	ad		0

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2017	51.389
	2018	152.511
	2019	110.782
	2020	131.611
	2021	104.287
	2022	49.310

<b>Meter Number:</b>	19056	<b>Meter Make:</b>	MASTER METER
<b>Meter Serial Number:</b>	19814845	<b>Meter Multiplier:</b>	10.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	Quarterly

**Meter Readings (in Acre-Feet)**

<b>Read Date</b>	<b>Year</b>	<b>Mtr Reading</b>	<b>Flag</b>	<b>Rdr</b>	<b>Comment</b>	<b>Mtr Amount Online</b>
11/30/2020	2020	38460	A	RPT		0
12/31/2020	2020	42150	A	RPT		0.113
01/31/2021	2021	49850	A	RPT		0.236
11/01/2021	2021	352020	A	ad		9.273
11/30/2021	2021	405990	A	ad		1.656
12/31/2021	2021	434000	A	ad		0.860
01/31/2022	2022	457770	A	ad		0.729
02/28/2022	2022	52859	R	ad	Meter Rollover	18.263
03/31/2022	2022	59521	A	ad		0.204
04/30/2022	2022	79643	A	ad		0.618
05/31/2022	2022	102895	A	ad		0.714
06/30/2022	2022	105962	A	ad		0.094
08/31/2022	2022	111490	A	ad		0.170
09/28/2022	2022	111490	A	ad		0
10/31/2022	2022	111490	A	ad		0
11/30/2022	2022	111490	A	ad		0

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2020	0.113
	2021	12.025
	2022	20.792

File

CP-857



## NEW MEXICO OFFICE OF THE STATE ENGINEER

## Update Well Location



Date: 03/27/2020

POD No.: CP-00857-POD1

OSE Staff: Chris Angel

## Instructions:

Use this form to correct or update POD location(s) based on In-Office Geospatial Applications. Update WATERS by creating a UWL transaction in the pertinent file number(s). Create and image a map, if necessary.

## Current Location:

NM State Plane (NAD83) - In feet	NM West Zone	<input type="checkbox"/>	X (in feet): Y (in feet):		
	NM Central Zone	<input type="checkbox"/>			
	NM East Zone	<input type="checkbox"/>			
UTM (NAD83) - In meters	UTM Zone 13N	<input type="checkbox"/>	Easting (in meters): Northing (in meters):		
	UTM Zone 12N	<input type="checkbox"/>			
Lat/Long (WGS84) - To 1/10 <sup>th</sup> of second	Lat:	deg	min	sec	
<input type="checkbox"/> Check if seconds are decimal format	Long:	deg	min	sec	
Other Location Information (complete the below, if applicable):					
PLSS Quarters or Halves: SW1/4NE1/4NE1/4		Section: 05		Township: 26 South Range: 36 East	
County: Lea		Subasin: Capitan			

## Updated Location:

NM State Plane (NAD83) - In feet	NM West Zone	<input type="checkbox"/>	X (in feet): Y (in feet):			
	NM Central Zone	<input type="checkbox"/>				
	NM East Zone	<input type="checkbox"/>				
UTM (NAD83) - In meters	UTM Zone 13N	<input type="checkbox"/>	Easting (in meters): Northing (in meters):			
	UTM Zone 12N	<input type="checkbox"/>				
Lat/Long (WGS84) - To 1/10 <sup>th</sup> of second	Lat: 32	deg	04	min	40.0	sec
<input type="checkbox"/> Check if seconds are decimal format	Long: 103	deg	16	min	51.5	sec
Other Location Information (complete the below, if applicable):						
PLSS Quarters or Halves: SE1/4NW1/4NE1/4NE1/4		Section: 05		Township: 26 South		Range: 36 East
County: Lea		Subasin: Capitan				

## Comments:

A GPS was used to locate the well on the attached map.

Update Well Location Form, Rev. 12/11/18

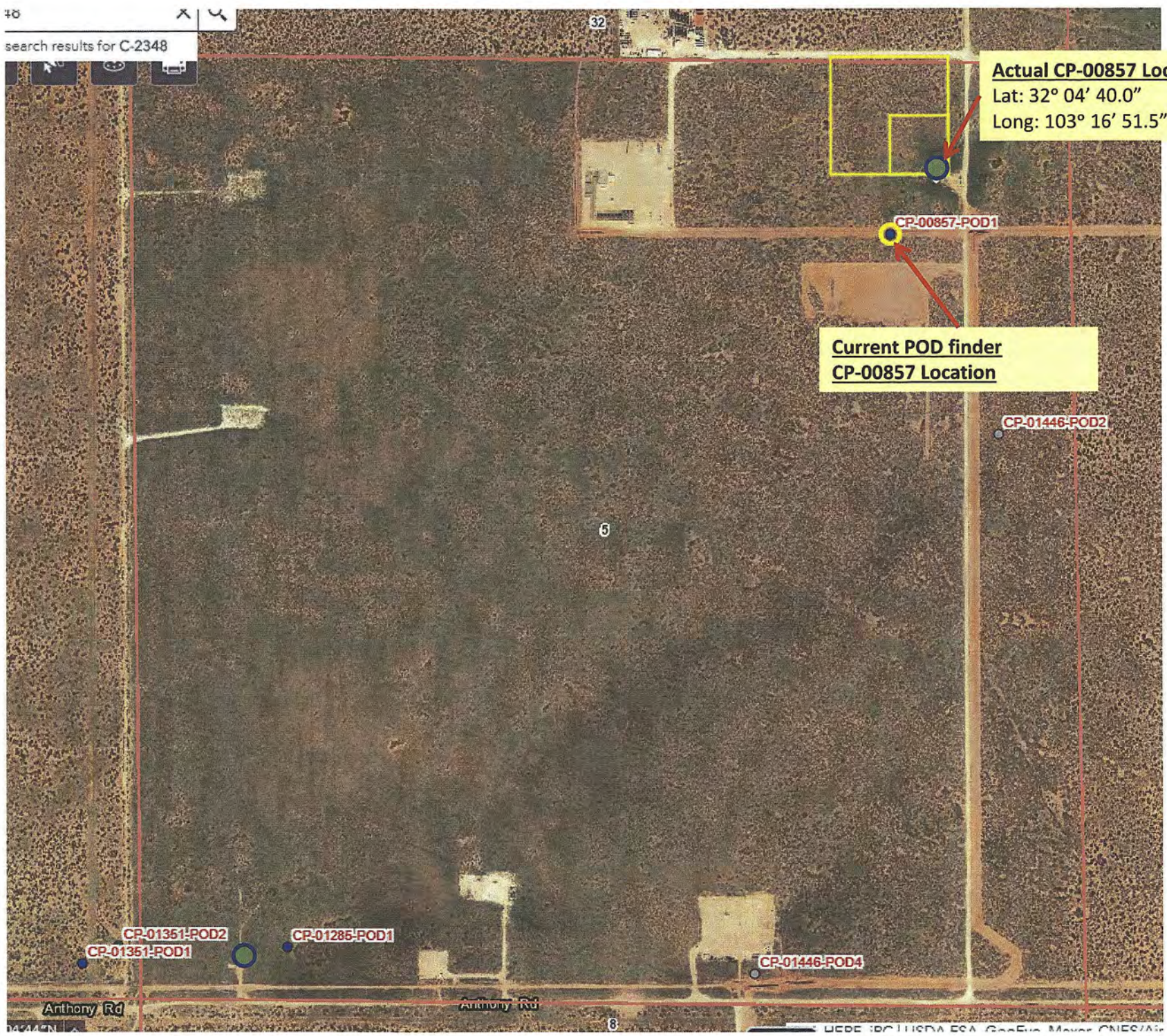
File No.:

CP-857

Trn. No.:

670905





search results for C-2348

**Actual CP-00857 Location**  
Lat: 32° 04' 40.0"  
Long: 103° 16' 51.5"

**Current POD finder**  
**CP-00857 Location**

Anthony Rd

Anthony Rd

CP-01351-POD2  
CP-01351-POD1

CP-01285-POD1

CP-00857-POD1

CP-01446-POD2

CP-01446-POD4

32

6

8



Revised June 1972

STATE ENGINEER OFFICE  
WELL RECORD

676330

## Section 1. GENERAL INFORMATION

(A) Owner of well Anthony Ranch Recompletion  
 Street or Post Office Address P.O. Box 398 Owner's Well No. \_\_\_\_\_  
 City and State Jal, New Mexico 88252

Well was drilled under Permit No. \_\_\_\_\_ and is located in the:

- a. NW 1/4 NW 1/4 SWINEE 1/4 of Section 5 Township 26 S Range 36 E N.M.P.M.  
 b. Tract No. XX of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
 c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
 Subdivision, recorded in \_\_\_\_\_ County.  
 d. X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
 the \_\_\_\_\_ Grant.

(B) Drilling Contractor West Texas Water Well Service License No. WD-1184  
 Address 3432 W. University, Odessa, TX 79764  
 Drilling Began 10-9-96 Completed 10-10-96 Type tools air rotary Size of hole 9 7/8 in.  
 Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 365 ft.  
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well \_\_\_\_\_ ft.

## Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
West Texas Water	Well Service pulled casing from existing well and			
deepened it 65'				
300	365	65	Broken sandstone with streaks	
			of brown sand 100 gpm+	

## Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

## Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	15	9 7/8		13	Poured Slurry

## Section 5. PLUGGING RECORD

Plugging Contractor \_\_\_\_\_  
 Address \_\_\_\_\_  
 Plugging Method \_\_\_\_\_  
 Date Well Plugged \_\_\_\_\_  
 Plugging approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

#130947

Date Received 01/15/97

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. CP-857 Use Stock Location No. 26.36.5.22322

STATE DEPARTMENT OFFICE  
ROSWELL, NEW MEXICO  
97 JAN 15 AM 11 22

Robert E. Collins  
Driller

Released to Imaging: 9/20/2023 7:39:44 AM



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

~~July 8, 2022~~ 10/12/2022

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Resubmitted Well Record CP-1922 Pod-1

To whom it may concern:

Attached please find a corrected well log & record and a plugging record that was originally filed on 9/30/2022 ,corrected is in duplicate, for a one (1) soil borings, CP-1922 Pod-1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above

DSE DII OCT 12 2022 PM2:04



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1922			
	WELL OWNER NAME(S) Ameredev Operating, LLC				PHONE (OPTIONAL) 737-300-4700			
	WELL OWNER MAILING ADDRESS 2901 Via Fortuna Suite 600				CITY Austin	STATE TX	ZIP 78746	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 4	SECONDS 38.51 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	17	9.02 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NE Sec.5 T26S R36S NMPM								
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 9/21/2022	DRILLING ENDED 9/21/2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) ±101	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) n/a	DATE STATIC MEASURED 9/26/2022		
	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 PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		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)
	0 101		±6.25"	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

USE ON OCT 12 2022 PM 2:04

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

# 1. HYDROGEOLOGIC LOG OF WELL

## 5. TEST: RIG SUPERVISION

## 6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO		PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1922

Well owner: Ameredev Operating, LLC

Phone No.: 737-300-4700

Mailing address: 2901 Via Fortuna Suite 600

City: Austin State: Texas Zip code: 78746

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Shane Eldridge, Cameron Pruitt

4) Date well plugging began: 7/26/2022 Date well plugging concluded: 7/26/2022

5) GPS Well Location: Latitude: 32 deg, 4 min, 38.51 sec  
Longitude: 103 deg, 17 min, 9.02 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),  
by the following manner: water level probe

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 9/12/2022

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

DSE DJT OCT 12 2022 PM2:04



- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-101'	Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

USE DT OCT 12 2022 PM2:04

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

### III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

*Jack Atkins*

Signature of Well Driller

10/4/2022

Date






# 6\_CP-1922\_WellLog-packet-forsign-DTW-16

Final Audit Report

2022-10-04

Created:	2022-10-04
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAzK7AaPUzEPE-3Y1tAUQrH1EtAYsYz3H5

## "6\_CP-1922\_WellLog-packet-forsign-DTW-16" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2022-10-04 - 2:26:57 PM GMT - IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2022-10-04 - 2:27:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2022-10-04 - 2:58:39 PM GMT - IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2022-10-04 - 3:00:40 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.  
2022-10-04 - 3:00:40 PM GMT

OSE DTI OCT 12 2022 PM 2:04



Adobe Acrobat Sign

## APPENDIX C

### Photographic Summary



3/31/2021 Beginning excavation from southern extent; view N



4-25-2021 Final excavation with ramp on N side (left); view E



9-21-2021 Imported fill placed at N edge of excavation (background); view S



9-21-2021 Field test of imported fill; EC = 0.14 dS/m



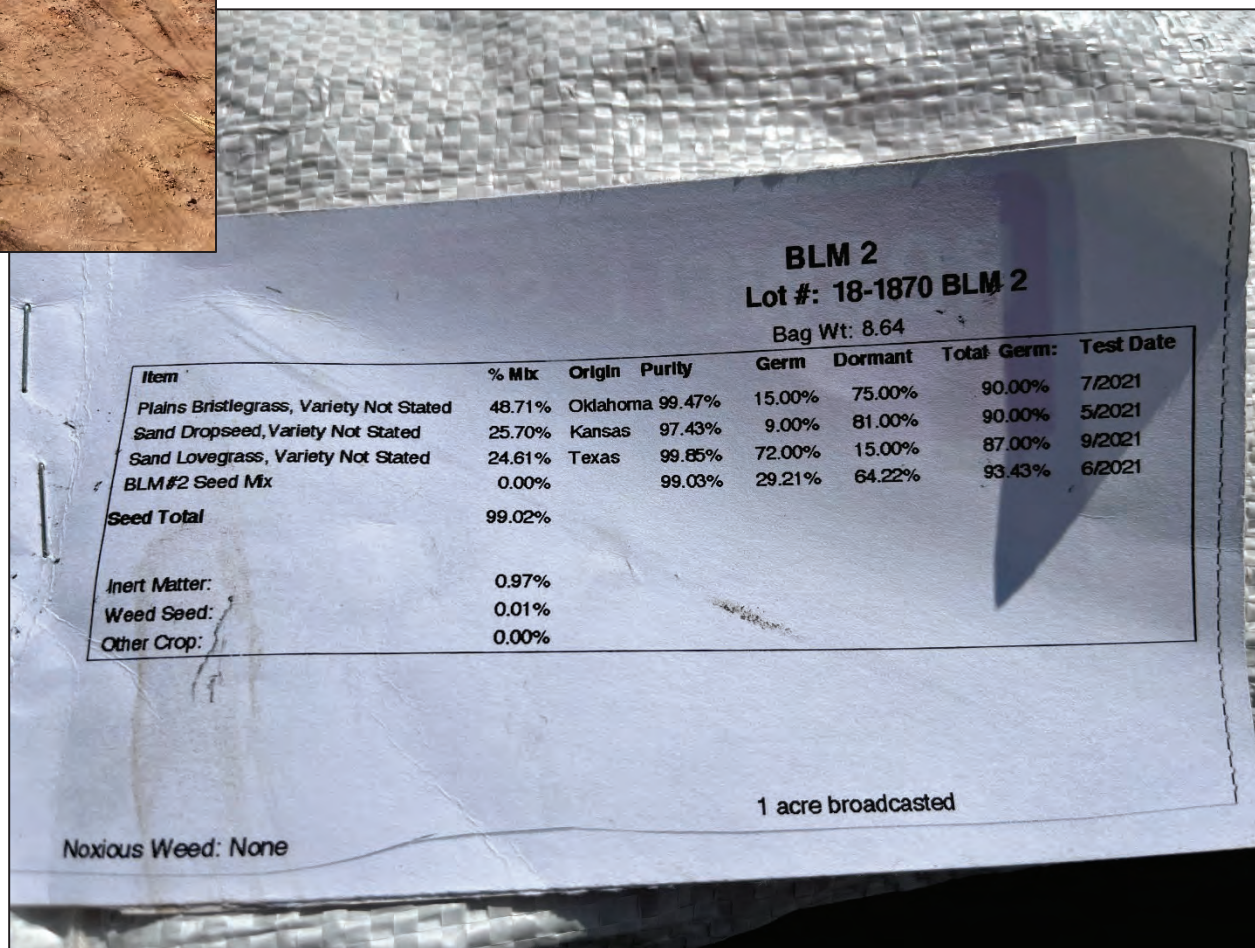
Ameredev Operating

DeSoto Springs release (#NRM2025449421)

Remediation Report/Closure Request (May 2023)



1/27/2022 Backfilled and contoured site; view SW from access road at gas ROW



5-23-2022

Label of seed mixture on day of seeding via broadcast and raking method

## APPENDIX D

Laboratory Reports from Excavation



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

April 28, 2021

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: DE SOTO RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/26/21 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

R T HICKS CONSULTANTS  
KRISTIN POPE  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104  
Fax To: NONE

Received:	04/26/2021	Sampling Date:	04/25/2021
Reported:	04/28/2021	Sampling Type:	Soil
Project Name:	DE SOTO RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	AMEREDEV - LEA CO.		

**Sample ID: E. WALL COMP (H211055-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2021	ND	2.02	101	2.00	3.03	
Toluene*	<0.050	0.050	04/27/2021	ND	1.99	99.4	2.00	3.27	
Ethylbenzene*	<0.050	0.050	04/27/2021	ND	1.95	97.6	2.00	3.49	
Total Xylenes*	<0.150	0.150	04/27/2021	ND	5.82	97.0	6.00	3.08	
Total BTX	<0.300	0.300	04/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	04/27/2021	ND	400	100	400	3.92		

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	04/27/2021	ND	248	124	200	0.772	
DRO >C10-C28*	<10.0	10.0	04/27/2021	ND	252	126	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/27/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.8 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
 KRISTIN POPE  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 04/26/2021  
 Reported: 04/28/2021  
 Project Name: DE SOTO RELEASE  
 Project Number: NOT GIVEN  
 Project Location: AMEREDEV - LEA CO.

Sampling Date: 04/25/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N. WALL COMP (H211055-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2021	ND	2.02	101	2.00	3.03		
Toluene*	<0.050	0.050	04/27/2021	ND	1.99	99.4	2.00	3.27		
Ethylbenzene*	<0.050	0.050	04/27/2021	ND	1.95	97.6	2.00	3.49		
Total Xylenes*	<0.150	0.150	04/27/2021	ND	5.82	97.0	6.00	3.08		
Total BTEx	<0.300	0.300	04/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	04/27/2021	ND	400	100	400	3.92		

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	04/28/2021	ND	248	124	200	0.772	
DRO >C10-C28*	<10.0	10.0	04/28/2021	ND	252	126	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 38.9-142

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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:**

R T HICKS CONSULTANTS  
 KRISTIN POPE  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 04/26/2021  
 Reported: 04/28/2021  
 Project Name: DE SOTO RELEASE  
 Project Number: NOT GIVEN  
 Project Location: AMEREDEV - LEA CO.

Sampling Date: 04/25/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FLOOR COMP @ 5' BGS (H211055-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2021	ND	2.02	101	2.00	3.03	
Toluene*	<0.050	0.050	04/27/2021	ND	1.99	99.4	2.00	3.27	
Ethylbenzene*	<0.050	0.050	04/27/2021	ND	1.95	97.6	2.00	3.49	
Total Xylenes*	<0.150	0.150	04/27/2021	ND	5.82	97.0	6.00	3.08	
Total BTX	<0.300	0.300	04/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/27/2021	ND	400	100	400	3.92	

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	04/28/2021	ND	248	124	200	0.772	
DRO >C10-C28*	<10.0	10.0	04/28/2021	ND	252	126	200	0.273	
EXT DRO >C28-C36	<10.0	10.0	04/28/2021	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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\*=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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager







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

August 11, 2021

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: DE SOTO RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/09/21 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
 KRISTIN POPE  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	08/09/2021	Sampling Date:	08/05/2021
Reported:	08/11/2021	Sampling Type:	Soil
Project Name:	DE SOTO RELEASE	Sampling Condition:	Cool & Intact
Project Number:	AMEREDEV - DESOTO RELEASE	Sample Received By:	Tamara Oldaker
Project Location:	AMEREDEV - LEA CO.		

**Sample ID: N. WALL COMP. ( RAMP ) (H212110-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2021	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

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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

[illegible]



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

---

April 09, 2021

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: DE SOTO RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/07/21 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
KRISTIN POPE  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104  
Fax To: NONE

Received:	04/07/2021	Sampling Date:	04/06/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	DE SOTO RELEASE	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION	Sample Received By:	Tamara Oldaker
Project Location:	AMEREDEV - LEA CO.		

**Sample ID: S WALL COMP (H210869-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2021	ND	2.04	102	2.00	4.70	
Toluene*	<0.050	0.050	04/08/2021	ND	2.02	101	2.00	3.84	
Ethylbenzene*	<0.050	0.050	04/08/2021	ND	1.97	98.7	2.00	4.72	
Total Xylenes*	<0.150	0.150	04/08/2021	ND	5.86	97.7	6.00	4.46	
Total BTEX	<0.300	0.300	04/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	560	16.0	04/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	244	122	200	3.30	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	232	116	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
KRISTIN POPE  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104  
Fax To: NONE

Received: 04/07/2021  
Reported: 04/09/2021  
Project Name: DE SOTO RELEASE  
Project Number: EXCAVATION  
Project Location: AMEREDEV - LEA CO.

Sampling Date: 04/06/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: W WALL COMP (H210869-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2021	ND	2.04	102	2.00	4.70		
Toluene*	<0.050	0.050	04/08/2021	ND	2.02	101	2.00	3.84		
Ethylbenzene*	<0.050	0.050	04/08/2021	ND	1.97	98.7	2.00	4.72		
Total Xylenes*	<0.150	0.150	04/08/2021	ND	5.86	97.7	6.00	4.46		
Total BTEx	<0.300	0.300	04/08/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	244	122	200	3.30	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	232	116	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.0 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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: <u>RT Hicks</u>		P.O. #:	
Project Manager: <u>Kristin Pope</u>		Company: <u>RT Hicks</u>	
Address:		Attn: <u>Randy</u>	
City:	State:	City:	Address:
Phone #:	Fax #:	State:	Zip:
Project #:		Project Owner: <u>Armstrong</u>	
Project Name: <u>De Soto Release Excavation</u>		Phone #:	
Project Location:		Fax #:	
Sampler Name: <u>K. Pope</u>		SAMPLING	
FOR LAB USE ONLY		MATRIX	
Lab I.D.		Sample I.D.	
<u>H210869</u>		<u>1 S wall comp.</u>	
<u>2 N wall comp.</u>		<u>C1</u>	
(G)RAB OR (C)OMP.		# CONTAINERS	
GROUNDWATER		WASTEWATER	
SOIL		OIL	
SLUDGE		OTHER:	
ACID/BASE:		ICE / COOL	
OTHER:		DATE	
4-6-21/1436		4-6-21/1430	
TIME		TIME	
4-6-21/1436		4-6-21/1430	
C1-		BTEX	
BTEX		8015 M	
ANALYSIS REQUEST			

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 analysis. 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 theories of damages.

Relinquished By: Kristin Pope Date: 4-7-21 Time: 1:350 Received By: Lawrence Williams Date: 4-7-21 Time: 1:350

Delivered By: (Circle One) 0.1c #13 Sample Condition: Intact Checked By: Y.E.

Sampler - UPS - Bus - Other: 0.1c #13

REMARKS: Email to kristin@rthicksconsult.com



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

---

May 07, 2021

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: DE SOTO RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/05/21 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

R T HICKS CONSULTANTS  
 KRISTIN POPE  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received:	05/05/2021	Sampling Date:	05/04/2021
Reported:	05/07/2021	Sampling Type:	Soil
Project Name:	DE SOTO RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	AMEREDEV - LEA CO.		

**Sample ID: N. WALL COMP ( RAMP ) (H211157-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/07/2021	ND	432	108	400	0.00	

**Sample ID: W. WALL COMP (H211157-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/07/2021	ND	432	108	400	0.00	

**Sample ID: E. WALL COMP (H211157-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/07/2021	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
 KRISTIN POPE  
 901 RIO GRANDE BLVD SUITE F-142  
 ALBUQUERQUE NM, 87104  
 Fax To: NONE

Received: 05/05/2021  
 Reported: 05/07/2021  
 Project Name: DE SOTO RELEASE  
 Project Number: NONE GIVEN  
 Project Location: AMEREDEV - LEA CO.

Sampling Date: 05/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FLOOR COMP. @ 5' ( N ) (H211157-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	5.93	
Toluene*	<0.050	0.050	05/07/2021	ND	2.12	106	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.07	103	2.00	6.29	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.97	99.5	6.00	5.47	
Total BTEx	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	05/07/2021	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	05/06/2021	ND	199	99.7	200	0.631	
DRO >C10-C28*	<10.0	10.0	05/06/2021	ND	197	98.3	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	05/06/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

R T HICKS CONSULTANTS  
KRISTIN POPE  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104  
Fax To: NONE

Received: 05/05/2021  
Reported: 05/07/2021  
Project Name: DE SOTO RELEASE  
Project Number: NONE GIVEN  
Project Location: AMEREDEV - LEA CO.

Sampling Date: 05/04/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FLOOR COMP. @ 5' ( SE ) (H211157-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	5.93	
Toluene*	<0.050	0.050	05/07/2021	ND	2.12	106	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.07	103	2.00	6.29	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.97	99.5	6.00	5.47	
Total BTEx	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	05/07/2021	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	05/06/2021	ND	199	99.7	200	0.631	
DRO >C10-C28*	<10.0	10.0	05/06/2021	ND	197	98.3	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	05/06/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

R T HICKS CONSULTANTS  
KRISTIN POPE  
901 RIO GRANDE BLVD SUITE F-142  
ALBUQUERQUE NM, 87104  
Fax To: NONE

Received: 05/05/2021  
Reported: 05/07/2021  
Project Name: DE SOTO RELEASE  
Project Number: NONE GIVEN  
Project Location: AMEREDEV - LEA CO.

Sampling Date: 05/04/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FLOOR COMP. @ 5' ( SW ) (H211157-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/07/2021	ND	2.04	102	2.00	5.93	
Toluene*	<0.050	0.050	05/07/2021	ND	2.12	106	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.07	103	2.00	6.29	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	5.97	99.5	6.00	5.47	
Total BTX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	05/07/2021	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	05/06/2021	ND	199	99.7	200	0.631	
DRO >C10-C28*	<10.0	10.0	05/06/2021	ND	197	98.3	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	05/06/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.7 % 38.9-142

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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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## Page 7 of 7

ANALYSIS REQUEST

Released to Imaging: 9/20/2023 7:39:44 AM

## APPENDIX E

Disposal Manifests, 432 yd<sup>3</sup>



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520

Dallas, TX 75225

214.292.2011

ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0070002

COMPANY NAME: AmerexdrLEASE: Desto Pond

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

STATE & COUNTY ORIGIN: LeaDATE: 4/22/21

PHONE: \_\_\_\_\_

 QUANTITY: 12 ☐ BBLS  
☒ YARDS

Waste Description (check only one box)

☐ Water Based Cuttings (DRY)☐ Oil Based Cuttings (DRY)☐ Oil Base Mud☐ Rig Trash☐ Other: \_\_\_\_\_☐ Water Based Cuttings (WET)☐ Oil Based Cuttings (WET)☐ Water Base Mud☐ Pit Liners☒ **RCRA Exempt**☐ **RCRA Non-Exempt**☒ Contaminated Soil☐ Injectable Fluids☐ Muds w/Cement☐ Produced Sands☐ Non-Injectable Fluids☐ Tank Bottoms

Authorize Washout?

☐ Yes☒ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name

Date

Signature

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Rutherford EnergyADDRESS: 1179 S. 3rd St Jal NMDATE: \_\_\_\_\_ TIME: \_\_\_\_\_ ☐ AMRECEIVED: \_\_\_\_\_ RECEIVED: \_\_\_\_\_ ☐ PM

YARD #: \_\_\_\_\_

WHP #: \_\_\_\_\_

TRUCK #: 36

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: \_\_\_\_\_

DISPATCHER

NAME: \_\_\_\_\_

DISPATCHER

PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Rosalia M. Moralez

(Driver's Name Printed)

DRIVER'S SIGNATURE: Rosalia M. Moralez**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 4-22-21TIME IN: 9:07

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

 ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
 TCLP: PASS FAIL N/A  
 TOX: PASS FAIL N/A

NORM TESTING:

(Less than 50 MCR)

Shake Out:

1	2	3

H<sub>2</sub>O  
S

Gallon Test: \_\_\_\_\_

has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

EMPLOYEE SIGNATURE: \_\_\_\_\_

White Copy: Disposal Facility

Yellow: Transporter

Pink: Generator



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520

Dallas, TX 75225

214.292.2011

ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0046874

COMPANY NAME: AmecorDATE: 4/22/21LEASE: Desoto Pond

PHONE: \_\_\_\_\_

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ ☐ BBLs

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

12 ☒ YARDSSTATE & COUNTY ORIGIN: Lga

Waste Description (check only one box)

☒ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name: Brodie Boyd

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Panther Energy

YARD #: \_\_\_\_\_

WHP #: \_\_\_\_\_

TRUCK #: 32ADDRESS: 1179 S. 3rd St. Jal NM

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: \_\_\_\_\_

DATE

TIME

☐ AM

DISPATCHER

DISPATCHER

RECEIVED: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

☐ PM

NAME: \_\_\_\_\_

PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Rosalinda Mendez

(Driver's Name Printed)

DRIVER'S SIGNATURE: Rosalinda Mendez**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 4-22-21TIME IN: 11:04

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM  
TESTING:(Less than 50  
MCR)

Shake Out:

	1	2	3
H <sub>2</sub> O			
S			

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: Judy

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520  
Dallas, TX 75225  
214.292.2011  
ar@ndblandfill.com

COMPANY MAN:

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: Brodie BoydCOMPANY MAN PHONE: 8**MANIFEST #****0046873**COMPANY NAME: AermedeLEASE: Desoto Pond

AFE #: \_\_\_\_\_

API: 32-025-44104

RIG NAME: \_\_\_\_\_

WELL #: \_\_\_\_\_

STATE & COUNTY ORIGIN: LeqDATE: 4/22/21

PHONE: \_\_\_\_\_

QUANTITY: \_\_\_\_\_

☐ BBLs☒ YARDS

Waste Description (check only one box)



RCRA Exempt



RCRA Non-Exempt

☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☐ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners☐ Other: \_\_\_\_\_

Authorize Washout?

☐ Yes☒ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Brodie Boyd

Date \_\_\_\_\_

Signature \_\_\_\_\_

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Partner EnergyADDRESS: 1129 S. 3rd St Jal NM

YARD #: \_\_\_\_\_

WHP #: \_\_\_\_\_

TRUCK #: 36

DATE

TIME

☐ AM

TICKET #: \_\_\_\_\_

ROLL OFF BIN#: \_\_\_\_\_

TRAILER #: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

RECEIVED: \_\_\_\_\_

☐ PM

DISPATCHER

NAME: \_\_\_\_\_

DISPATCHER

PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**

DRIVER: Roxalinda Mendez

(Driver's Name Printed)

DRIVER'S SIGNATURE: Roxalinda Mendez

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

**TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 4-22-21TIME IN: 9:14

AM / PM

TIME OUT: \_\_\_\_\_

AM / PM

WASHOUT BY: 53450

WASHOUT: \_\_\_\_\_

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
TCLP: PASS FAIL N/A  
TOX: PASS FAIL N/A

NORM TESTING: \_\_\_\_\_

(Less than 50 MCR)

H<sub>2</sub>O S

Shake Out:

1	2	3
N/A	N/A	N/A

Gallon Test: \_\_\_\_\_

has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

SERVICE NOTES:

This is to certify that: \_\_\_\_\_

Employee (Printed Name)

EMPLOYEE SIGNATURE: Judy R

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520  
Dallas, TX 75225  
214.292.2011  
ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_  
(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0066552

COMPANY NAME: AmeredevDATE: 4-26-21LEASE: De Soto Pond

PHONE: \_\_\_\_\_

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

STATE & COUNTY ORIGIN: NM, Lea
 QUANTITY: \_\_\_\_\_ ☐ BBLs  
12 ☒ YARDS

Waste Description (check only one box)

☒ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☒ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Bravie Boyd Date \_\_\_\_\_ Signature \_\_\_\_\_**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Parthar Energy YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 35ADDRESS: 1179 S. 3rd Street TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: \_\_\_\_\_DATE \_\_\_\_\_ TIME \_\_\_\_\_ ☐ AM DISPATCHER \_\_\_\_\_ DISPATCHERRECEIVED: \_\_\_\_\_ RECEIVED: \_\_\_\_\_ ☐ PM NAME: \_\_\_\_\_ PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Alexis Lyman DRIVER'S SIGNATURE: Alexis Lyman

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**FACILITY RECEIVED AT (Check One): \_\_\_\_\_ DATE: 4-26-21 TIME IN: 10:44 AM / PM
☐ Northern Delaware Basin Landfill  
 2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_ TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

 ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
 TCLP: PASS FAIL N/A  
 TOX: PASS FAIL N/A
NORM  
TESTING:(Less than 50  
MCR)

Shake Out:		
1	2	3
H <sub>2</sub> O		
S		

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: Daniela Castorena has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520  
Dallas, TX 75225  
214.292.2011  
ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_  
(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0066553

COMPANY NAME: AmoradorDATE: 4-26-21LEASE: De Soto Pond

PHONE: \_\_\_\_\_

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ ☐ BBLs

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

12 ☒ YARDSSTATE & COUNTY ORIGIN: NM, Lea

Waste Description (check only one box)

☒ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Bratie Boyd Date \_\_\_\_\_ Signature \_\_\_\_\_**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Pauther Energy YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 35ADDRESS: 1179 S. 3rd street TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: \_\_\_\_\_DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_ ☐ AM ☐ PM DISPATCHER NAME: \_\_\_\_\_ DISPATCHER PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Alexis Lujan DRIVER'S SIGNATURE: Alexis Lujan

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 4-26-21 TIME IN: 12:50 AM / PM

TIME OUT: \_\_\_\_\_ AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM TESTING: D

(Less than 50 MCR)

Shake Out:

	1	2	3
H <sub>2</sub> O			
S			

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: Daniela Custumede  
Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520  
Dallas, TX 75225  
214.292.2011  
ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0066554

COMPANY NAME: AmercedexDATE: 4-26-21LEASE: DeSoto Pond

PHONE: \_\_\_\_\_

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ ☐ BBLs

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

\_\_\_\_\_ ☒ YARDSSTATE & COUNTY ORIGIN: NM, Lea

Waste Description (check only one box)



RCRA Exempt



RCRA Non-Exempt

☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Bradie Boyd Date \_\_\_\_\_ Signature \_\_\_\_\_**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Panther Energy YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 35ADDRESS: 1179 S. 3rd Street TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: \_\_\_\_\_DATE \_\_\_\_\_ TIME \_\_\_\_\_ ☐ AM DISPATCHER \_\_\_\_\_ DISPATCHERRECEIVED: \_\_\_\_\_ RECEIVED: \_\_\_\_\_ ☐ PM NAME: \_\_\_\_\_ PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Alexis Lujan DRIVER'S SIGNATURE: Alexis Lujan

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 4-24-21 TIME IN: 2:53 AM / PM

TIME OUT: \_\_\_\_\_ AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_ TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM

TESTING:

(Less than 50 MCR)

Shake Out:

	1	2	3
H <sub>2</sub> O			
S			

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: Dan de la Cruz has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**OWL Landfill Services, LLC**

DBA: Northern Delaware Basin Landfill

8201 Preston Rd., Suite 520

Dallas, TX 75225

214.292.2011

ar@ndblandfill.com

COMPANY MAN: \_\_\_\_\_

(Authorized Agent's Printed Name and Title)

SIGNATURE: \_\_\_\_\_

COMPANY MAN EMAIL: \_\_\_\_\_

COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**

0066555

COMPANY NAME: AmesleyDATE: 4-26-21LEASE: DeSoto Pond

PHONE: \_\_\_\_\_

AFE #: \_\_\_\_\_ API: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ ☐ BBLs

RIG NAME: \_\_\_\_\_ WELL #: \_\_\_\_\_

12 ☒ YARDSSTATE & COUNTY ORIGIN: NM, Lea

Waste Description (check only one box)

☒ RCRA Exempt☐ RCRA Non-Exempt☐ Water Based Cuttings (DRY)☐ Water Based Cuttings (WET)☒ Contaminated Soil☐ Produced Sands☐ Oil Based Cuttings (DRY)☐ Oil Based Cuttings (WET)☐ Injectable Fluids☐ Non-Injectable Fluids☐ Oil Base Mud☐ Water Base Mud☐ Muds w/Cement☐ Tank Bottoms☐ Rig Trash☐ Pit Liners

Authorize Washout?

☐ Yes☒ No☐ Other: \_\_\_\_\_

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT:

Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information☐ RCRA Hazardous Waste Analysis☐ Process Knowledge☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name

Bradley Boyd

Date

Signature

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**COMPANY NAME: Panther EnergyYARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 35ADDRESS: 1179 S. 3rd Street

TICKET #: \_\_\_\_\_ ROLL OFF BIN #: \_\_\_\_\_ TRAILER #: \_\_\_\_\_

DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_ ☐ AM

DISPATCHER NAME: \_\_\_\_\_ DISPATCHER PHONE #: \_\_\_\_\_

RECEIVED: \_\_\_\_\_ ☐ PM

The following statement must be signed by the truck driver prior to unloading at disposal facility:

**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**DRIVER: Helexis LopezDRIVER'S SIGNATURE: Helexis Lopez

(Driver's Name Printed)

**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE****TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):

DATE: 4-26-21 TIME IN: 5:02 AM / PM

TIME OUT: \_\_\_\_\_ AM / PM

☐ Northern Delaware Basin Landfill

2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY: \_\_\_\_\_

WASHOUT: \_\_\_\_\_ TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A

TCLP: PASS FAIL N/A

TOX: PASS FAIL N/A

NORM

TESTING:

(Less than 50 MCR)

Shake Out:

	1	2	3
H <sub>2</sub> O			
S			

Gallon Test: \_\_\_\_\_

SERVICE NOTES:

This is to certify that: Daniela Cristaneda

Employee (Printed Name)

has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: \_\_\_\_\_

Part 1 - Generator

Part 2 - Transporter

Part 3 - Disposal Facility



**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 231784

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 231784
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Water well designated as CP-00857 is older than the existing preference; therefore, it has been excluded from it being use toward site criteria per 19.15.29.11A (5a)(ii) NMAC. Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or drilling operations.	9/20/2023