

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 Guide¹. As presented in the 2020 Remediation Plan, the only area of the release

¹ 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)

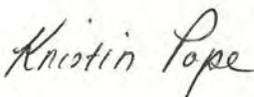
As reported in the 2020 Characterization Report/Remediation Plan, the remainder of the impacted area was confined to the active recycling location pad (approximately 90% of the release area). All characterization samples from this area met the closure criteria of Table 1 of the Release Rule, therefore, 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 Ameredev Operating, LLC	OGRID 372224
Contact Name Shane McNeely	Contact Telephone 737-300-4729
Contact email smcneely@ameredev.com	Incident # (assigned by OCD) NRM2025449421
Contact mailing address 2901 Via Fortuna, Suite 600	Austin, Texas 78746

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County
	5	26S	36E	Lea

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) 319 (revised June 2023)	Volume Recovered (bbls) 0
	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.

State of New Mexico
Oil Conservation Division

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? 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.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? This form was transmitted to ocd.enviro@state.nm.us with return/read receipt.	

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: _____
<u>OCD Only</u> 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 not 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 1/2-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.

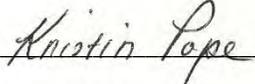
State of New Mexico
Oil Conservation Division

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Incident ID	
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Facility ID	
Application ID	

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

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

Signature:  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

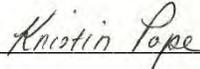
Remediation Plan Checklist: Each of the following items must be included in the plan.

- 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:  Date: 11/6/2020
 email: kristin@rthicksconsult.com AND smcneely@ameredev.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: *Kristin Pope* Date: 6/22/2023

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

OCD Only

Received by: _____ Date: _____

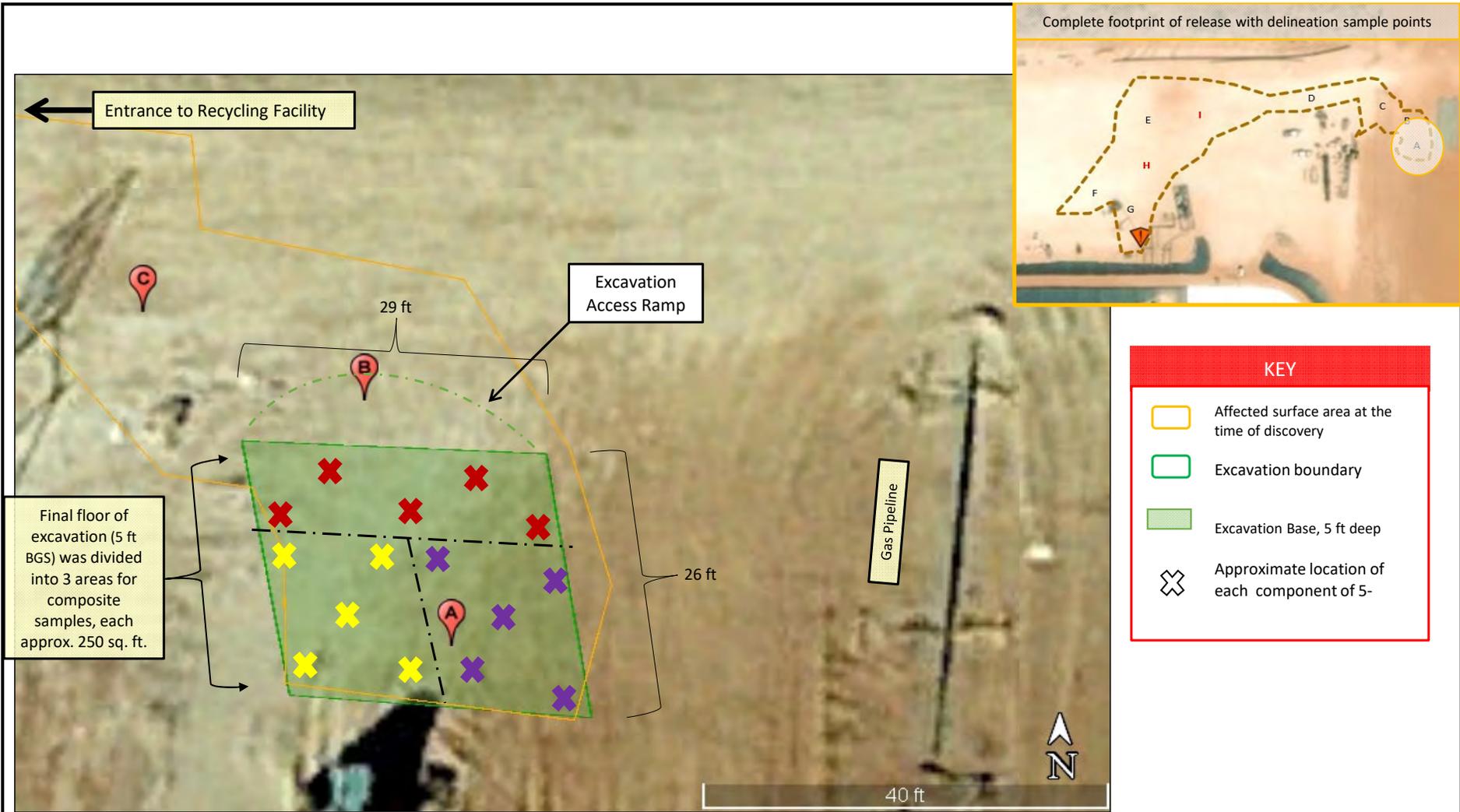
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: *Nelson Velez* 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

2021 Disposal 432 cubic yards

SEEDING SUMMARY (5/23/2022)

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								
0 - 4 feet & "not in-use"					Field	Lab		
> 4 ft or "in-use"						600		
						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
<i>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.</i>								
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

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

Received by OCD: 6/22/2023 1:47:28 PM

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	EC (Hanna) (dS/m)	Chloride (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

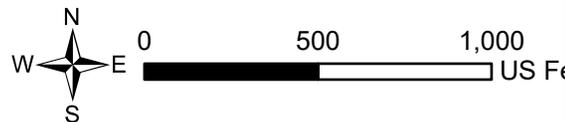
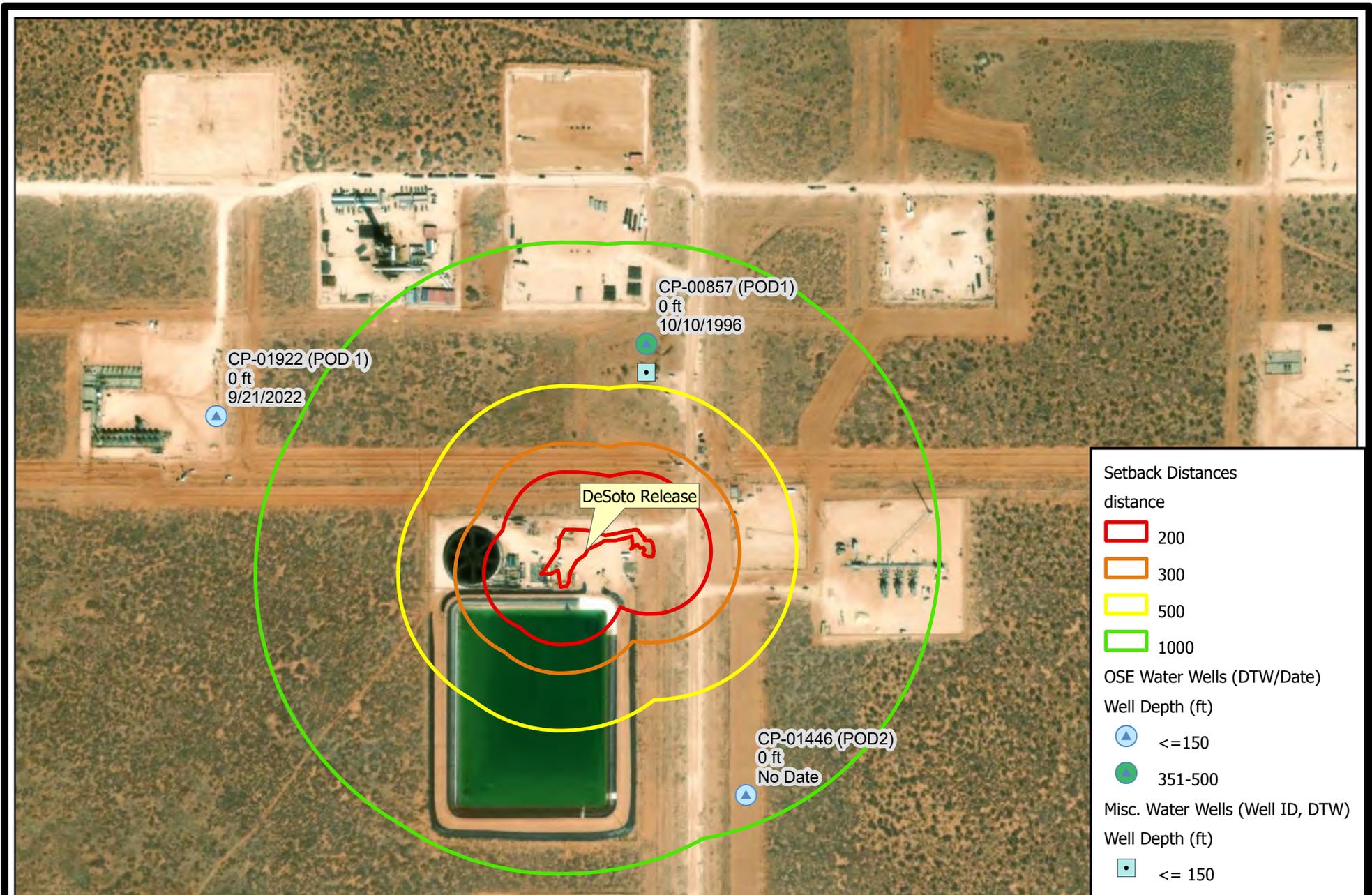
https://dreamcivil.com/density-of-sand/#b_Density_of_Dry_Sand

NOTE 2

Attached

APPENDIX B

Additional Groundwater Data



R.T. Hicks Consultants, Ltd
 1101 Rio Grande Blvd NW Suite F-142
 Albuquerque, NM 87104
 Ph: 505.266.5004

Nearest Structures & Water Wells
 Ameredev Operating DeSoto Release

Feb 2023



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
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)	

**YTD Meter Amounts:	Year	Amount
	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)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
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

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

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

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
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

**YTD Meter Amounts:	Year	Amount
	2020	0.113
	2021	12.025
	2022	20.792

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

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 th of second <input type="checkbox"/> Check if seconds are decimal format	Lat:	deg	min	sec
	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 th of second <input type="checkbox"/> Check if seconds are decimal format	Lat: 32	deg	04 min	40.0 sec
	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:

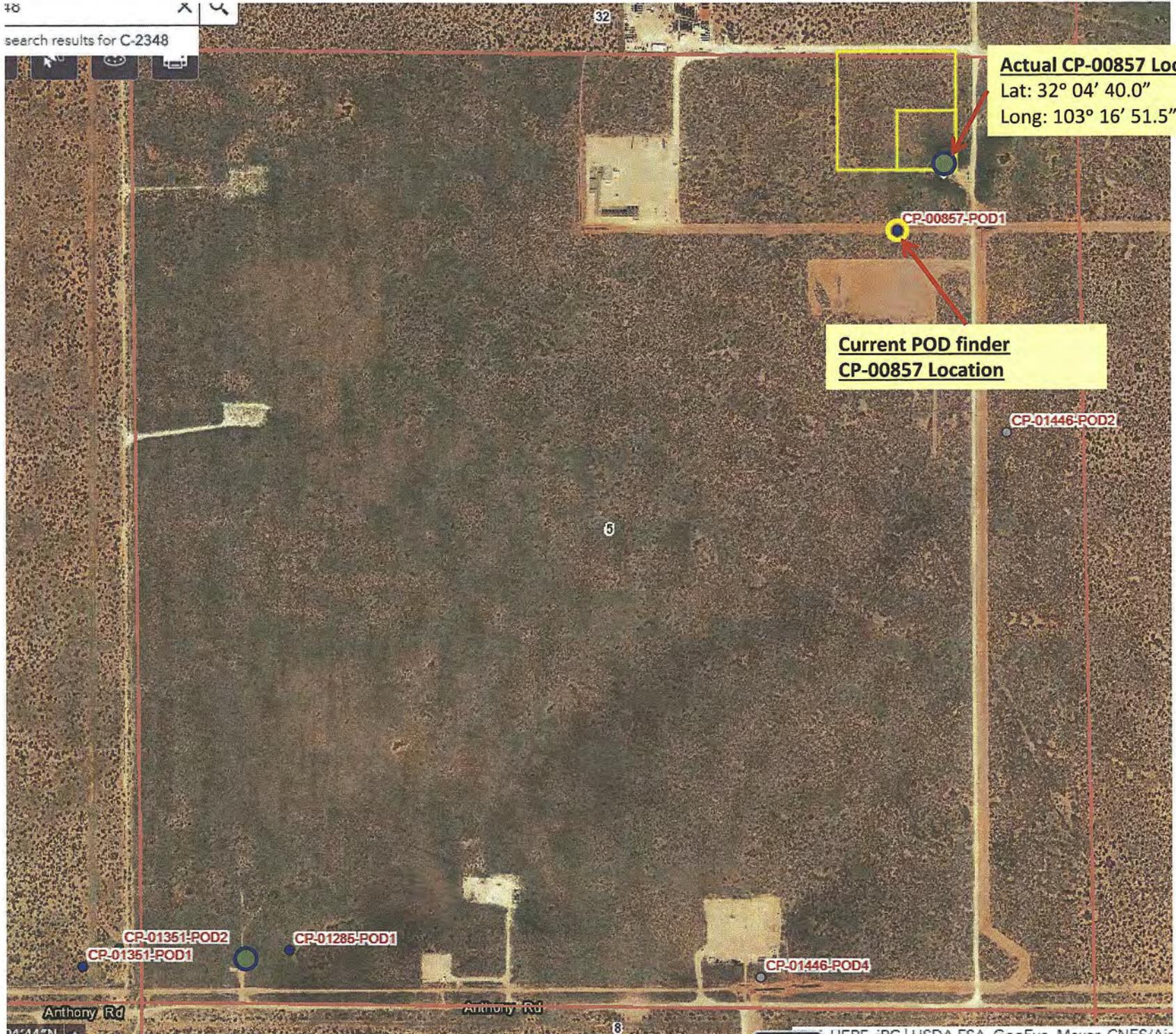
A GPS was used to locate the well on the attached map.

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

File No.: CP-857 Trn. No.: 670905

48

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



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 2nd 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.

Sincerely,

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

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 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)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	101	±6.25"	Boring-HSA	--	--	--	--

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

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			



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 DIT 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 DTI 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.

Jackie D. 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-3Y1tAUQrH1E(AYsYz3H5

"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

USE DT OCT 12 2022 PM 2:04

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



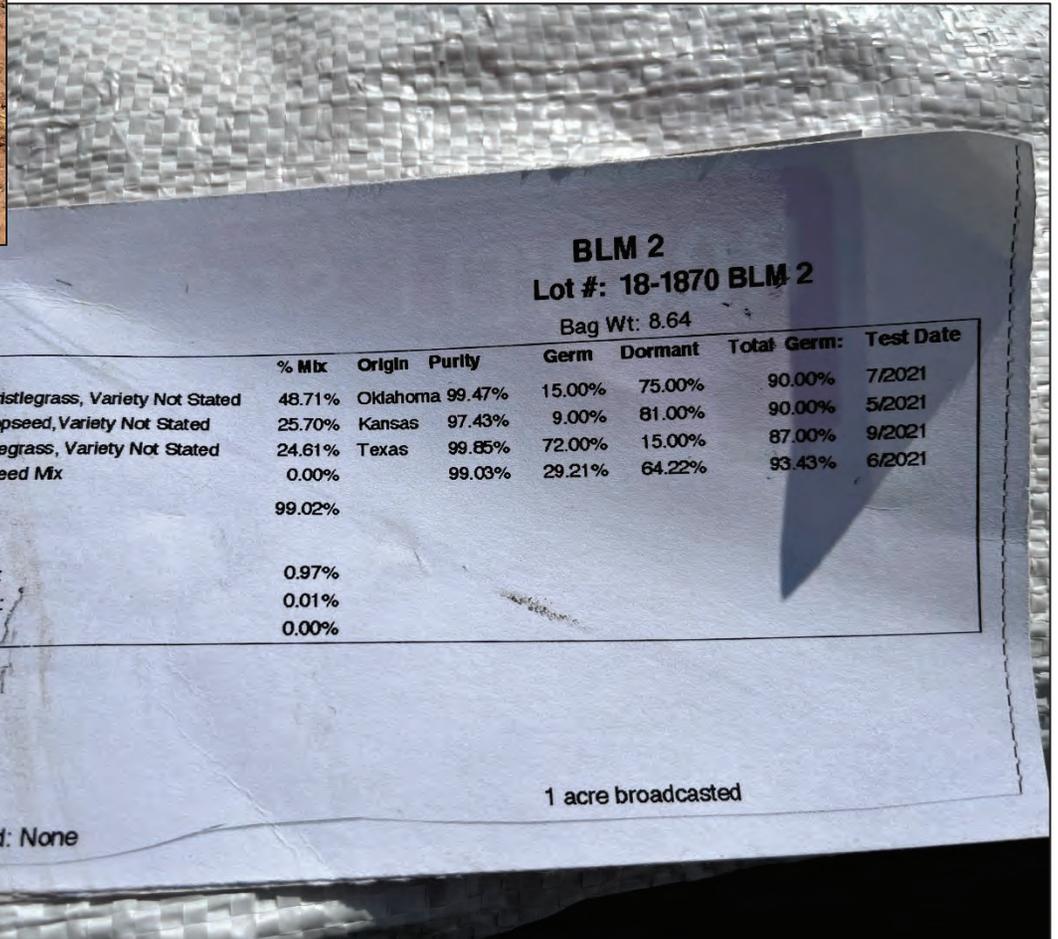
9-21-2021 Imported fill placed at N edge of excavation (background); view S



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



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

BLM 2
Lot #: 18-1870 BLM 2
Bag Wt: 8.64

Item	% Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Plains Bristlegrass, Variety Not Stated	48.71%	Oklahoma	99.47%	15.00%	75.00%	90.00%	7/2021
Sand Dropseed, Variety Not Stated	25.70%	Kansas	97.43%	9.00%	81.00%	90.00%	5/2021
Sand Lovegrass, Variety Not Stated	24.61%	Texas	99.85%	72.00%	15.00%	87.00%	9/2021
BLM#2 Seed Mix	0.00%		99.03%	29.21%	64.22%	93.43%	6/2021
Seed Total	99.02%						
Inert Matter:	0.97%						
Weed Seed:	0.01%						
Other Crop:	0.00%						

1 acre broadcasted

Noxious Weed: None

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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)

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) 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

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 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

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Chain-of-Custody Record

Client:

RT Hicks Consulting

Mailing Address:

*901 Rio Grande Blvd NW
Suite F-142*

Phone #:

505-266-5004

email or Fax#:

R@rthicksconsult.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Amador-DoSoto Release

Project #:

Project Manager:

Kristin Pope

Sampler: *Kristin Pope*

On Ice: Yes No

of Coolers:

Cooler Temp (including CF): *5.8 @ #1/3*

Container Type and #

1 Hot Glass

Preservative Type

Ice

HEAL No.

- BTEX / MTBE / TMB's (8021)
- TPH:8015D(GRO / DRO / MRO)
- 8081 Pesticides/8082 PCB's
- EDB (Method 504.1)
- PAHs by 8310 or 8270SIMS
- RCRA 8 Metals
- Cl, F, Br, NO₃, NO₂, PO₄, SO₄
- 8260 (VOA)
- 8270 (Semi-VOA)
- Total Coliform (Present/Absent)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins Ave Albuquerque, NM 87109

Tel: 505-345-3975 Fax 505-345-4107

Analysis Request

Cardinal Laboratories - Hobbs, NM

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Remarks
<i>4/24/21</i>	<i>15:25</i>	<i>soil</i>	Soil comp. RP	1 Hot Glass	Ice		
			<i>E. Wall comp.</i>				
	<i>15:18</i>		<i>N. Wall comp.</i>				
	<i>15:30</i>		<i>Floor comp @ 5' hgs</i>				

Relinquished by:

Received by:

Via:

Date Time

Remarks:

Relinquished by:

Time:

Kristin Pope

Received by:

Via:

Date Time

Remarks:

Email to kristin@rthicksconsult.com

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



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>RT Hicks Consultants</i> Project Manager: <i>Kristin Page</i> Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: <i>Amador</i> Project Name: <i>Amador - DeSoto Release</i> Project Location: <i>Loa Co.</i> Sampler Name: <i>Kristin Page</i> FOR LAB USE ONLY		BILL TO P.O. #: Company: <i>RT Hicks</i> Attn: <i>Randy Hicks</i> Address: City: State: Zip: Phone #: Fax #: ANALYSIS REQUEST	
Lab I.D. Sample I.D. <i>H212110</i> <i>1 N wall comp. (comp)</i>	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	MATRIX PRESERV. SAMPLING	DATE TIME <i>8-5-21</i> <i>1000</i>
Relinquished By: <i>Kristin Page</i> Date: <i>8-9-21</i> Time: <i>10:40</i>		Received By: <i>Walter Walker</i> Date: Time:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>5.3c #113</i>		Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Sample Intact Yes <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: (Initials) <i>A.G.</i>	
REMARKS: <i>Kristin@rthicksconsult.com</i>		Phone Result: Yes <input type="checkbox"/> No <input type="checkbox"/> Fax Result: Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Add'l Fax #:	



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.

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



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: 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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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	

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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:	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: 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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*=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:	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: 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

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: RT Hicks Consultants
 Project Manager: Kristin Pope
 Address: 901 Rio Grande Blvd NW, E-142
 City: Albuquerque State: NM zip: 87104
 Phone #: 505-266-5004 Fax #: _____
 Project #: _____ Project Owner: Amurador
 Project Name: De Soto Release City: _____ State: _____ Zip: _____
 Project Location: Lea Co. Phone #: _____ Fax #: _____
 Sampler Name: R. Pope

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<u>H21157</u>	<u>1 N well comp. (ramp)</u>	<u>C</u>	<u>1</u>								<u>5-1-21</u>	<u>0958</u>	<u>Chloride</u>	<u>TPH 8015</u>	
	<u>2 N well comp.</u>	<u>C</u>	<u>1</u>									<u>1010</u>			
	<u>3 E well comp.</u>	<u>C</u>	<u>1</u>									<u>1025</u>			
	<u>4 Floor comp. @ 5th fl (N)</u>	<u>C</u>	<u>1</u>									<u>1040</u>			
	<u>5 Floor comp. @ 5th fl (SE)</u>	<u>C</u>	<u>1</u>									<u>1040</u>			
	<u>6 Floor comp. @ 5th fl (SW)</u>	<u>C</u>	<u>1</u>									<u>1040</u>			

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

Relinquished By: Kristin Pope Date: 5/31/2021
 Received By: Guiana Dlatky Date: 1/3/20
 Time: _____

Delivered By: (Circle One) UPS - UPS - Bus - Other: 6.0e #113
 Sample Condition: Cool Intact
 Checked By: T.O.

REMARKS: Email results to Kristin@rthicksconsult.com
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

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

APPENDIX E

Disposal Manifests, 432 yd³



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

Part 1 - Generator

COMPANY NAME: Amerexdr
LEASE: Desto Pond
AFE #: _____ API: _____
RIG NAME: _____ WELL #: _____
STATE & COUNTY ORIGIN: Lea

DATE: 4/22/21
PHONE: _____
QUANTITY: 12 BBLs YARDS

Waste Description (check only one box)		<input type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> 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 Broddie Boyd Date _____ Signature _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Rutherford Energy YARD #: _____ WHP #: _____ TRUCK #: 36
ADDRESS: 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 Moralez DRIVER'S SIGNATURE: Rosalinda Moralez
(Driver's Name Printed)

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

Part 3 - Disposal Facility

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: 4-22-21 TIME IN: 9:17 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 ₂ 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: Amercedrop

DATE: 4/22/21

LEASE: Desoto Pond

PHONE: _____

AFE #: _____ API: _____

QUANTITY: _____ BBLs

RIG NAME: _____ WELL #: _____

12 YARDS

STATE & COUNTY ORIGIN: Lea

Waste Description (check only one box)	<input checked="" type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input checked="" type="checkbox"/> Contaminated Soil
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Other: _____	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Panther Energy YARD #: _____ WHP #: _____ TRUCK #: 32
 ADDRESS: 1179 S. 3rd St. Jct Hwy 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: Rosalinda Mendez DRIVER'S SIGNATURE: Rosalinda Mendez
(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: 4-22-21 TIME 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:	PAIN 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 ₂ O		
S		

53468

Gallon Test: _____

SERVICE NOTES: This is to certify that: _____ Employee (Printed Name) 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.

EMPLOYEE SIGNATURE: Judith

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 Boyd

COMPANY MAN PHONE: 8

MANIFEST #

0046873

Part 1 - Generator

COMPANY NAME: Aermede

LEASE: Desoto Pond

DATE: 4/22/21

AFE #: _____ API: 30-025-44104

PHONE: _____

RIG NAME: _____ WELL #: _____

QUANTITY: _____ BBLs
12 YARDS

STATE & COUNTY ORIGIN: Lea

Waste Description (check only one box) RCRA Exempt RCRA Non-Exempt

<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners		
<input type="checkbox"/> 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 _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Partner Energy YARD #: _____ WHP #: _____ TRUCK #: 36

ADDRESS: 1179 S. 3rd Jal NM 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: Rosalinda Mendez 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

Part 3 - Disposal Facility

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: 4-22-21 TIME 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)

Shake Out:		
1	2	3
N/A		
S		

Gallon Test: _____

SERVICE NOTES: This is to certify that: _____ Employee (Printed Name) 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.

EMPLOYEE SIGNATURE: Judy R



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

Part 1 - Generator

COMPANY NAME: Ameredev

LEASE: De Soto Pond

AFE #: _____ API: _____

RIG NAME: _____ WELL #: _____

STATE & COUNTY ORIGIN: NM, Lea

DATE: 4-26-21

PHONE: _____

QUANTITY: _____ BBLs

12 YARDS

Waste Description (check only one box) RCRA Exempt RCRA Non-Exempt

<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> 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 Pradie Boyd Date _____ Signature _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Parthar Energy YARD #: _____ WHP #: _____ TRUCK #: 35

ADDRESS: 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 Lyjan DRIVER'S SIGNATURE: Alexis Lyjan

(Driver's Name Printed)

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

Part 3 - Disposal Facility

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: 4-26-21 TIME IN: 10:44 AM / PM
TIME OUT: _____ AM / PM

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: 54229

H ₂ O	1	2	3
S	N/A	N/A	N/A

Gallon Test: _____

SERVICE NOTES:
This is to certify that: Daniela Castorena Employee (Printed Name) 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.

EMPLOYEE SIGNATURE: _____



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

Part 1 - Generator

COMPANY NAME: Amercedev
LEASE: De Soto Pond
AFE #: _____ API: _____
RIG NAME: _____ WELL #: _____
STATE & COUNTY ORIGIN: Nm, Lea

DATE: 4-26-21

PHONE: _____

QUANTITY: _____ BBLs
12 YARDS

Waste Description (check only one box)	<input checked="" type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY) <input type="checkbox"/> Water Based Cuttings (WET) <input type="checkbox"/> Oil Based Cuttings (DRY) <input type="checkbox"/> Oil Based Cuttings (WET) <input type="checkbox"/> Oil Base Mud <input type="checkbox"/> Water Base Mud <input type="checkbox"/> Rig Trash <input type="checkbox"/> Pit Liners <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Contaminated Soil <input type="checkbox"/> Injectable Fluids <input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Produced Sands <input type="checkbox"/> Non-Injectable Fluids <input type="checkbox"/> Tank Bottoms
Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Bratie Boyd Date _____ Signature _____

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

Part 2 - Transporter

COMPANY NAME: Paughter Energy YARD #: _____ WHP #: _____ TRUCK #: 35
ADDRESS: 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

Part 3 - Disposal Facility

FACILITY RECEIVED AT (Check One): Northern Delaware Basin Landfill
2029 W. NM Highway 128 | Jal, New Mexico 88252
DATE: 4-26-21 TIME IN: 12:50 AM / PM
TIME OUT: _____ AM / PM

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)

WASHOUT BY: _____
WASHOUT: TIME IN: _____ TIME OUT: _____

Shake Out:		
1	2	3
H ₂ O		
S		

54259

Gallon Test: _____

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

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.

EMPLOYEE SIGNATURE: _____



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: Amercedex

DATE: 4-26-21

LEASE: DeSoto Pond

PHONE: _____

AFE #: _____ API: _____

QUANTITY: _____ BBLs

RIG NAME: _____ WELL #: _____

12 YARDS

STATE & COUNTY ORIGIN: NM, Lea

Waste Description (check only one box)

RCRA Exempt

RCRA Non-Exempt

- 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
 - 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 Brodie Boyd Date _____ Signature _____

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Parthner Energy YARD #: _____ WHP #: _____ TRUCK #: 35

ADDRESS: 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: 4-24-21 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
N/A	N/A	N/A

54281

Gallon Test: _____

SERVICE NOTES:
This is to certify that: Dan de la Cadena
Employee (Printed Name)

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.

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

Part 1 - Generator

COMPANY NAME: Hemerader
LEASE: DeSoto Pond
AFE #: _____ API: _____
RIG NAME: _____ WELL #: _____
STATE & COUNTY ORIGIN: NM, Lea

DATE: 4-26-21
PHONE: _____

QUANTITY: _____ BBLs
12 YARDS

Waste Description (check only one box)	<input checked="" type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY) <input type="checkbox"/> Water Based Cuttings (WET) <input type="checkbox"/> Oil Based Cuttings (DRY) <input type="checkbox"/> Oil Based Cuttings (WET) <input type="checkbox"/> Oil Base Mud <input type="checkbox"/> Water Base Mud <input type="checkbox"/> Rig Trash <input type="checkbox"/> Pit Liners <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Contaminated Soil <input type="checkbox"/> Injectable Fluids <input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Produced Sands <input type="checkbox"/> Non-Injectable Fluids <input type="checkbox"/> Tank Bottoms
Authorize Washout?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Bradie Boyd Date: _____ Signature: _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Panther Energy YARD #: _____ WHP #: _____ TRUCK #: 35
ADDRESS: 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

Part 3 - Disposal Facility

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: D
(Less than 50 MCR)

Shake Out:		
1	2	3
<u>L/A</u>	<u>L/A</u>	<u>L/A</u>
H ₂ O		
S		

54315

Gallon Test: _____

SERVICE NOTES: Daniela Cristaneda
This is to certify that: _____ Employee (Printed Name) 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.

EMPLOYEE SIGNATURE: _____

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