Ameredev II, LLC
2901 Via Fortuna Suite 600 • Austin, Texas 78746 • Phone (737) 300-4700

April 4, 2023

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

RE: O60K AST
DeSoto Springs #3 Recycling Containment and Recycling Facility
1RF-498
Facility ID# fVV2234954815
Section 5 T26S R36E, Lea County

Ameredev Operating respectfully submits modification to DeSoto Springs #3 Recycling Facility/Inground Containment permit application to include registration for O60K AST (above ground steel tank containment) constructed as a part of the above recycling facility. This submission is a modification of prior submission dated January 16, 2023, which was denied by NMOCD on February 23, 2023, and will provide clarification and supplemental information to address elements of concern. The denial communication will follow this cover letter.

This registration package includes:

- C 147
- Site map of O60K AST is shown on Plate 1. Constructed on existing pad north of inground containment.
- Updated information regarding depth to water and wellhead protection to supplement siting criteria presented in original permit for this facility. (Plate 2 and 3)
- Design and Construction Plan
- Operations and Maintenance Plan
- Closure Plan
- Appendix A: Well logs
- Appendix B: Technical Specifications
- Appendix C: Variance requests
    - Fencing
    - Levee Slope
    - Anchor Trench
    - Primary liner as dual (2) layer 40-mil LLDPE
    - Secondary liner as 60-mil HDPE

Please contact me with any questions.

Sincerely,

Shane McNeely

Shane McNeely
Ameredev II, LLC

April 4, 2023

From: Venegas, Victoria, EMNRD
To: Andrew Parker; Laura Parker
Subject: [EXTERNAL] 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]
Date: Thursday, February 23, 2023 12:50:50 PM

1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815].

Good afternoon Mr. Parker,
NMOCD has reviewed the recycling containment permit modification and related documents, submitted by AMEREDEV OPERATING, LLC [372224] on January 10, 2023, for 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] in Unit Letter G, Section 05, Township 26S, Range 36E, Lea County, New Mexico. The modification request is denied for the following reasons:

- Please clarify if, as stated on page 23, "*A Tank Tech Above-Ground Storage Tank Containment is used at the DeSoto Springs recycling facility"* because:
  - The application includes the spec sheet of an Epic 360 Tank from Mustang Extreme Environmental Services, LLC (pages 48-52), and also;
  - The application includes a letter proposing using a Tank Tech LLC Model 600 and the corresponding technical specifications for this tank (Pages 30-37).
- The design on page 30 doesn't match the description in the cover letter on page 2. Also, do not refer the reader to another permit for information (page 2, Dagger 2).
- On page 39, please describe the AST that is actually in place (red text)
- On page 39, General, the document mentions "*Appendix Engineering Drawings, Liner Specifications, Set Up*." There is no such Appendix in the application.
- Page 40. Liner and Leak detection system: Please, describe the liner system specific to the AST in place (remove red text)
- The liner/leak detection system described on page 2 requires a variance to the rule.
- The application must include the variance request to the rule for slopes and trenches specific to the AST.
- Page 54. Monitoring Inspections and Reporting.
  1. The application mentions, "*Weekly inspections shall occur when there is 1-foot depth or more of produced water in the containment. Monthly inspections shall occur when there is less than the 1-foot depth of produced water in the containment, as well as when the ASTs are emptied and prior to refilling.*"
  2. This would require a variance request to the rule. Per 19.15.34.13 OPERATIONAL REQUIREMENTS FOR RECYCLING CONTAINMENTS, the operator shall inspect the recycling containment and associated leak detection systems weekly while it contains fluids.
- Remove C-147 on pages 26 to 28. Please remove all the red text from the application. Only include text specific to the actual AST.

Please let me know if you have any additional questions.
Regards,

Victoria Venegas ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov
https://www.emnrd.nm.gov/ocd/

State of New Mexico
Energy Minerals and Natural Resources
Department Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
https://www.emnrd.nm.gov/ocd/ocd-e-permitting/

Form C-147
Revised October 11, 2022

Recycling Facility and/or Recycling Containment

Type of Facility: ☐ Recycling Facility ☒ Recycling Containment*

Type of action: ☐ Permit ☒ Registration ☒ Modification ☐ Extension ☐ Closure ☐ Other (explain) _____

*** At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.**

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Ameredev II, LLC (For multiple operators attach page with information) OGRID #: 37224

Address: 2901 Via Fortuna, Suite 600 Austin, TX 78746

Facility or well name (include API# if associated with a well): DeSoto Springs #3 Recycling Facility

OCD Permit Number: 1RF-498 (For new facilities the permit number will be assigned by the district office)

U/L or Qtr/Qtr A,B, G, H Section 5 Township 26S Range 36E County: Lea

Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.

☐ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude _____ Longitude _____ NAD83

Proposed Use: ☐ Drilling* ☐ Completion* ☐ Production* ☐ Plugging *

The re-use of produced water may NOT be used until fresh water zones are cased and cemented

☐ Other, ***requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.***

☒ Fluid Storage

☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type_____

☐ Activity permitted under 19.15.36 NMAC explain type:_____ ☐ Other explain _____

☐ For multiple or additional recycling containments, attach design and location information of each containment

☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date:_____

3.

☒ **Recycling Containment:** O60 K AST

☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)

Center of Recycling Containment (if applicable): Latitude 32.0760575 Longitude -103.2829402 NAD83

☐ For multiple or additional recycling containments, attach design and location information of each containment

☒ Lined ☐ Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____

☐ String-Reinforced **Primary liner**: Dual (2) 40 mil LLDPE; **Secondary liner** 60 mil HDPE

Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 60K bbl Dimensions: Height: 12 ft 3.5 in; Diameter 191 ft

☐ Recycling Containment Closure Completion Date:_____

4.

Bonding:

☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC **(These containments are limited to only the wells owned or operated by the owners of the containment.)**

☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond $_____ **(work on these facilities cannot commence until bonding amounts are approved)**

☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

Fencing:

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☒ Alternate. Please specify Game Fencing 8 ft with single strand barbed wire on top

6.

Signs:

☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

7.

Variances:

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

Check the below box only if a variance is requested:

☒ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

If a Variance is requested, it must be approved prior to implementation.

8.

Siting Criteria for Recycling Containment See original permit application for Recycling Facility and inground containment RF- 498

Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

General siting

Ground water is less than 50 feet below the bottom of the Recycling Containment. Plate 2 NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Plate 3 - Written confirmation or verification from the municipality; written approval obtained from the municipality	☐ Yes ☒ No ☐ NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes ☒ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	☐ Yes ☒ No
Within a 100-year floodplain. FEMA map	☐ Yes ☒ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes ☒ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. Plate 3 - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ☒ No

9.
Recycling Facility and/or Containment Checklist:
Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

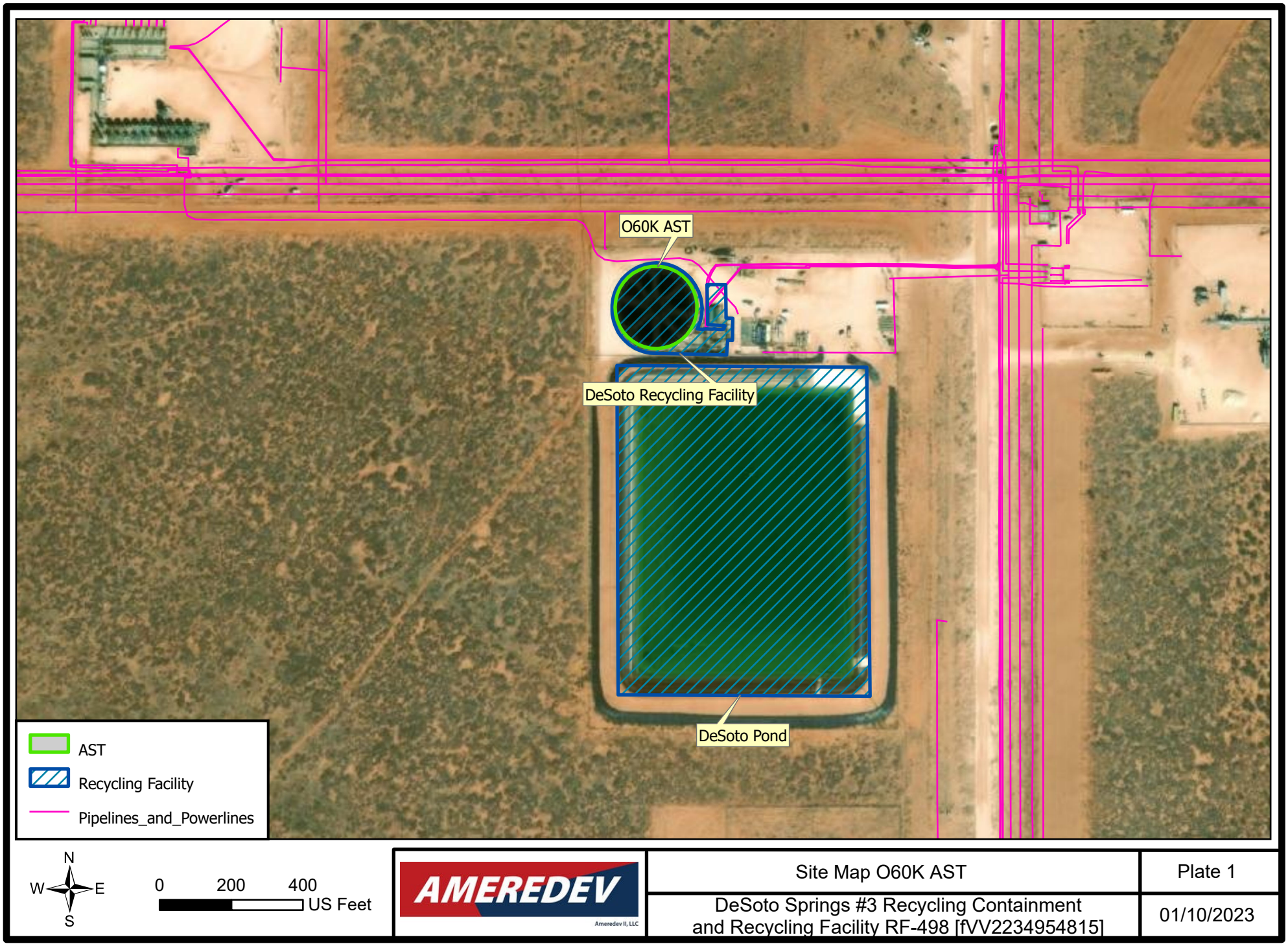
- [x] Design Plan - based upon the appropriate requirements.
- [X] Operating and Maintenance Plan - based upon the appropriate requirements.
- [X] Closure Plan - based upon the appropriate requirements.
- [X] Site Specific Groundwater Data -
- [X] Siting Criteria Compliance Demonstrations – See original permit application for Siting Criteria. Supplemental DTW and Wellhead protection is included in this submission document.
- [X] **Certify that notice of the C-147 (only) has been sent to the surface owner(s)**

10.
Operator Application Certification:
I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Shane McNeely Title: Engineer
Signature: Shane McNeely Date: 4/11/2023
e-mail address: smcneely@ameredev.com Telephone: 737-300-4729

11.
OCD Representative Signature: Victoria Venegas **Approval Date:** 04/14/2023
Title: Environmental Specialist **OCD Permit Number:** 1RF-498

- [x] OCD Conditions
- [x] Additional OCD Conditions on Attachment



AMEREDEV Ameredev II, LLC	Site Map O60K AST	Plate 1
	DeSoto Springs #3 Recycling Containment and Recycling Facility RF-498 [fVV2234954815]	01/10/2023

Supplemental Siting Criteria

Supplemental Siting Criteria

Depth to Water

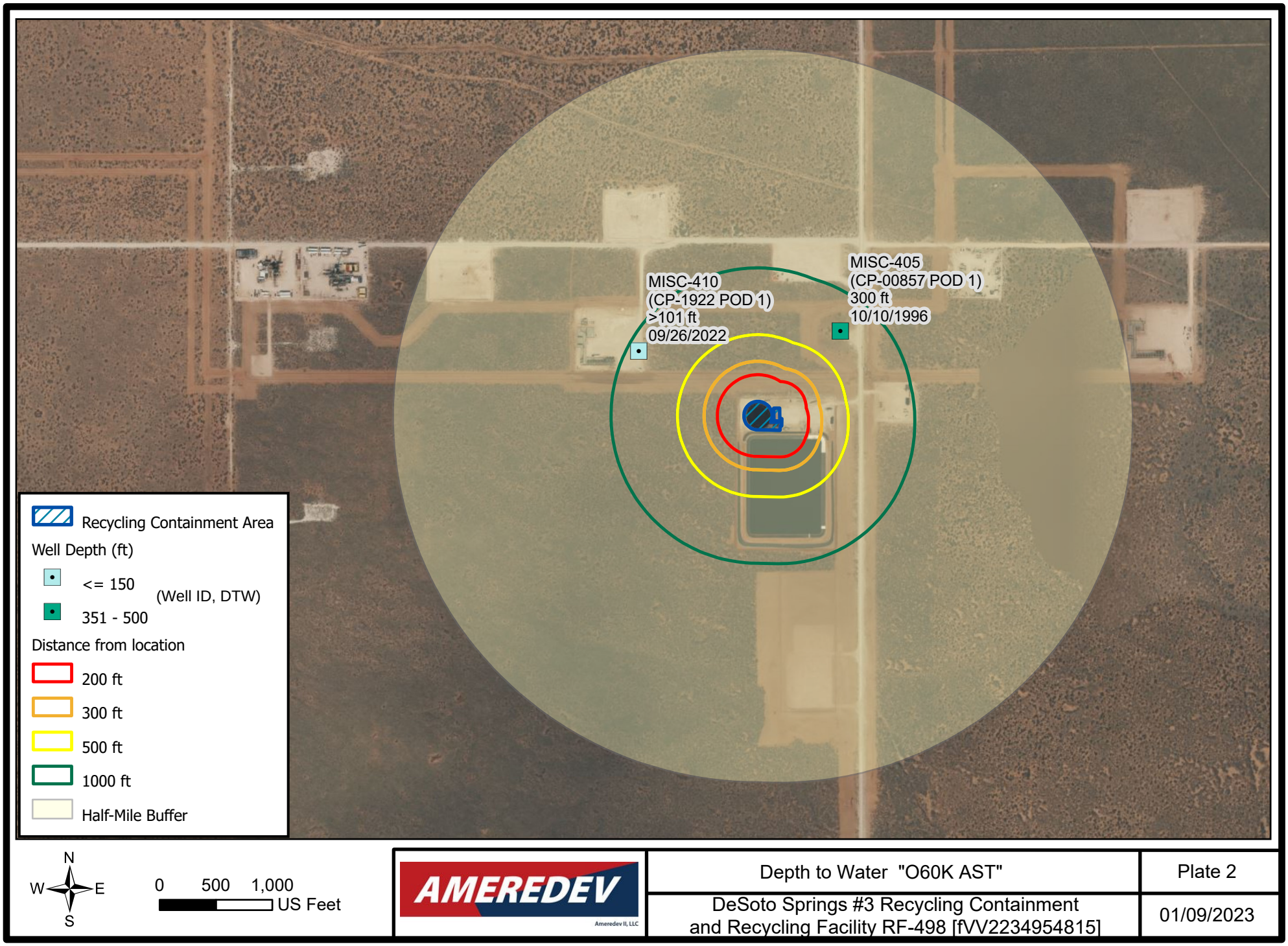
The depth-to-water borehole and water well nearest to the containment are mapped on Plate 2, well log follows in Appendix A:

- MISC-410 (CP-1922 POD 1) is located 0.2 mile to the northwest of the DeSoto Springs #3 containments. Depth of the water is noted as >101-feet. This borehole has been plugged.

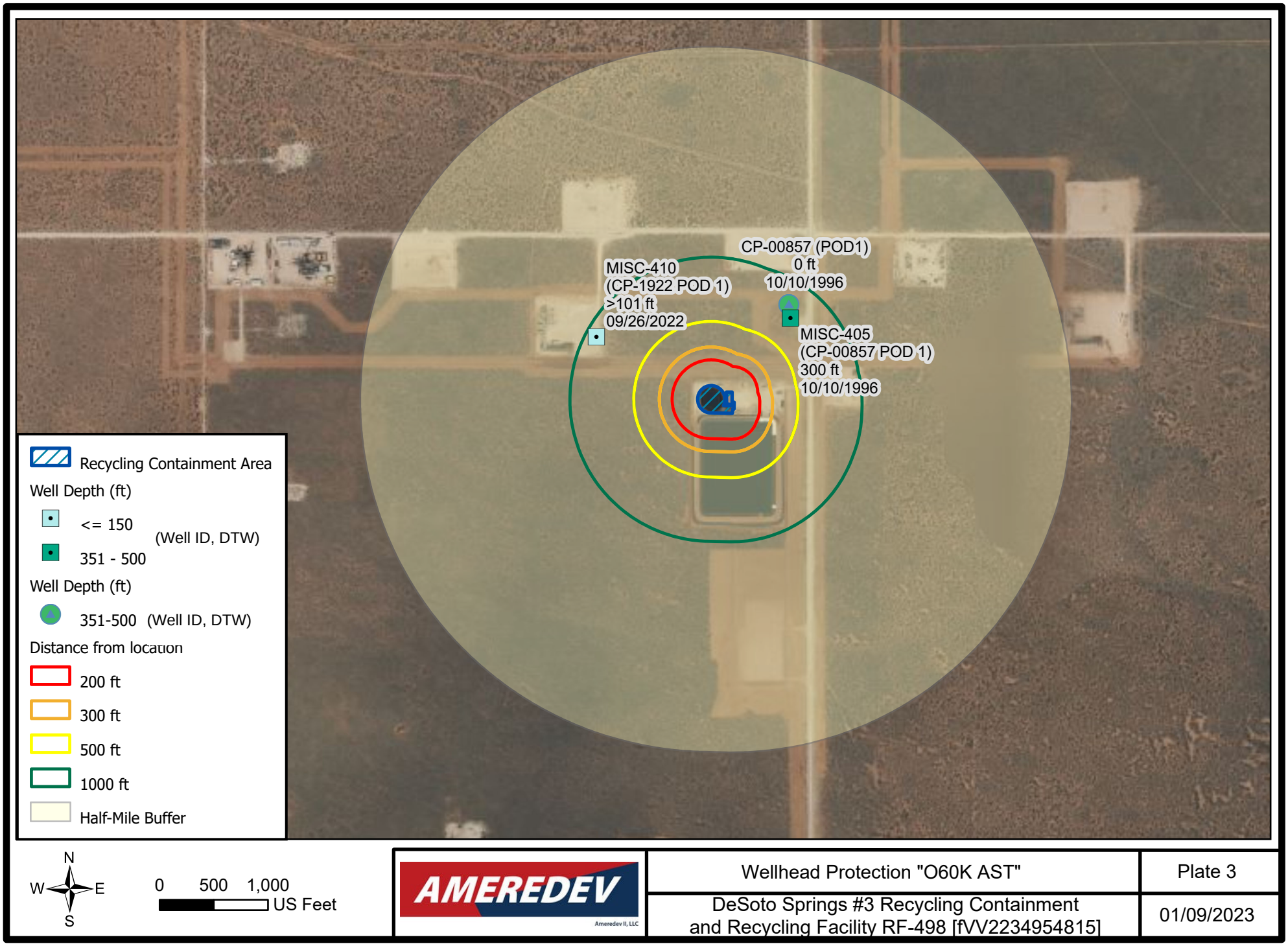
Wellhead Protection

Wellhead protection is maintained with closest fresh water source > 500 ft from AST is mapped on Plate 3, Point of Diversion Summary follows in Appendix A.

- MISC-405 (CP-00857 POD 1) which is located within 921 ft. to the northeast of the DeSoto Springs #3 containments. Depth of water bearing strata is noted as 300-feet. The location shown is corrected from OSE documented well location based on visual observation.



Depth to Water "O60K AST"	Plate 2
DeSoto Springs #3 Recycling Containment and Recycling Facility RF-498 [fVV2234954815]	01/09/2023



AMEREDEV

Ameredev II, LLC

Wellhead Protection "O60K AST"	Plate 3
DeSoto Springs #3 Recycling Containment and Recycling Facility RF-498 [fVV2234954815]	01/09/2023

Design and Construction Plan
Operations and Maintenance Plan
Closure Plan

Design and Construction Plan

General

O60K AST is designed and constructed to confine produced water, to prevent releases and to prevent overtopping due to wave action or rainfall to meet or exceed standards put forth by 19.15.34.12 NMAC.

A Tank Tech, LLC Model 600 above ground water storage tank was used at this site. Tank Tech specifications and affirmation from a Professional Engineer are attached in Appendix B.

Solmax is the manufacturer for the geomembrane liners and leak detection geogrid materials. Liner specifications are attached in Appendix B.

The AST was constructed by Mustang Extreme Environmental Services, LLC. This Design and Construction Plan demonstrates that the AST was constructed in accordance with 19.15.34.12 NMAC.

Foundation for AST Containment

O60K AST is constructed on an existing pad constructed for the associated recycling facility. Plate 1 shows the Site Map.

The foundation consists of a firm, unyielding base, smooth and free of rocks, debris, sharp edges, or irregularities to prevent the liner's rupture or tear. A geotextile was placed under the secondary liner to reduce stress-strain that may compromise liner's integrity. Any stripped topsoil has been stockpiled for reuse during closure activities.

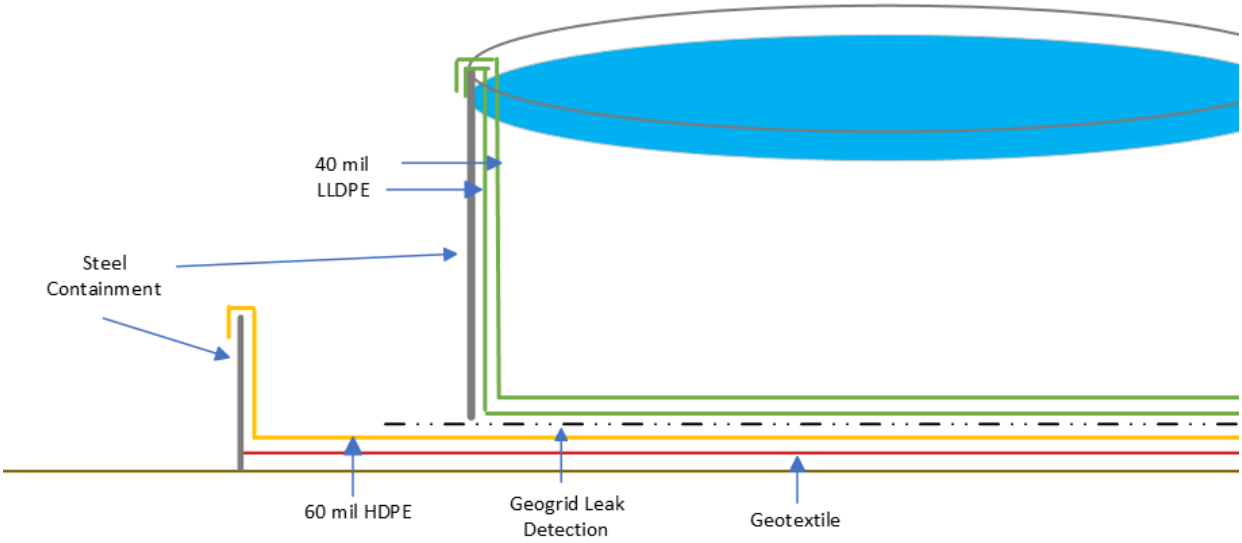
Containment construction

The AST is constructed of upright steel panels 12 ft 3.5 inches in height. The structure diameter is 191 ft with a capacity of 62,719 barrels. The AST upright steel panels preclude any risk of surface run-on. Additionally, the secondary liner is attached to upright steel panels as used for tank battery secondary containments. Adequate access is provided for inspection and maintenance. *A variance request from the defined levee slope requirement is provided in Appendix C.*

Liner and Leak Detection System:

The liner and leak detection system meets or exceeds specifications put forth in the 19.15.34.12. A (4).

Schematic for liner system is as follows (not to scale).



- Primary Liner: Dual (2 layers) 40 mil LLDPE attached to steel containment wall with clips.
- Leak Detection: 200 mil Geogrid placed between primary and secondary liners.
- Secondary Liner: 60 mil HDPE
- Steel wall containment with secondary liner attached with clips.
- Geotextile underlayment
- Employed bird netting on top of containment is not depicted in this schematic.

Per **19.15.34.12 A. (4) NMAC.** "All primary (upper) liners in a recycling containment shall be geomembrane liners composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. All primary liners shall be 30-mil flexible PVC, 45-mil LLDPE string reinforced or 60-mil HDPE liners. Liner compatibility will meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications."

In O60K AST a dual (double layer) 40 mil LLDPE is used as the primary liner. *Variance request attached in Appendix C*

Per **19.15.34.12 A. (4) NMAC.** "Secondary liners shall be 30-mil LLDPE string reinforced or equivalent with a hydraulic conductivity no greater than 1 x 10-9 cm/sec. Liner compatibility will meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications." **For O60K AST the secondary liner is a 60 mil HDPE.** *Variance request attached in Appendix C.*

Unlike inground containments, the build of this AST requires that the primary and secondary liners are attached to the upright steel walls of the AST with clamps. As the build of the AST system is not consistent with the anchor trench requirement as described in the Rule, a *variance request from anchor trench as described in the Rule is attached in Appendix C.*

The leak detection system, appropriate for site's condition, is constructed with a properly designed drainage and collection system with a **200 mil geonet** placed between the primary (dual upper 40 mil LLDPE) liners and secondary (lower 60 mil HDPE) liner. This geonet extends beyond the 12 ft steel walls of the AST. The slope is such to facilitate the flow of any fluids along the geonet where it can be visibly seen within the secondary liner containment, to allow the earliest possible leak detection. Any visible or pooling fluids resulting from a leak would be removed with a hydrovac or sump pump for disposal to an NMOCD approved facility. This system meets NMOCD requirements.

Liner seams have been minimized and oriented up and down, not horizontally on the wall of the AST. Factory welded seams were used as much as possible. Minimal field seams were employed in both the primary and secondary liners and both were overlapped 4-6 inches and thermally sealed and tested by qualified personnel.

The injection or withdrawal of fluids from the containment is accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes (or other hydrostatic force or mechanical damage). These lines will not penetrate the liner system.

Signs

Ameredev has posted signs, not less than 12 inches by 24 inches with lettering 2 inches or greater in height in a conspicuous place along the fence surrounding the container, where it can be easily read. It contains the operator's name, the location of the site by quarter-quarter unit letter, section, township and range and emergency numbers.

Fencing

Ameredev has fenced the recycling containment and facilities in a manner to deter unauthorized human access and wildlife and shall maintain the fences in good repair. All gates are closed and locked when responsible personnel are not onsite. This AST is enclosed by 8-foot game fence topped with a single strand of barbed wire. *A variance request is attached in Appendix C.*

Netting

The O60K AST is netted to be protective of wildlife, including migratory birds. On at least a monthly basis, Ameredev shall inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office to facilitate assessment and implementation of measures to prevent incidents from reoccurring.

DeSoto Springs #3 Recycling Containment and Recycling Facility
1RF-498 Facility ID# fVV2234954815
O60K AST Registration

Operations and Maintenance Requirements

General

Ameredev will maintain and operate the recycling containments in accordance 19.15.34.11 NMAC with the following plan to contain liquids to prevent contamination of fresh water and protect public health and the environment.

The recycling containment may hold produced water for use in connection with drilling, completions, producing or processing oil and/or gas. Such fluids may include freshwater, brackish water, recycled and treated water, fluids added to water to facilitate well drilling or completion, water produced with oil and gas, flowback from operations, water generated by an oil or gas processing facility or other waters that are gathered for well drilling or completion. It may not include hazardous waste or be used for disposal of produced water or other oilfield waste.

Any releases from the recycling and re-use of produced water shall be remediated in accordance with 19.15.29 NMAC. An oil absorbent boom or other device is maintained on site to contain any unanticipated release.

Ameredev will monitor for and remove any visible oil from the surface of the AST with an oil absorbent boom or other device, which will be maintained on site. Removed fluid shall be transported off-site to a division approved disposal facility.

At least three feet of freeboard shall always be maintained.

The injection or withdrawal of fluids from the containment is accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses and/or pipes.

The facility will be operated to prevent the collection of surface run-on.

These activities shall occur in a manner consistent with hydrogen sulfide gas provisions in 19.15.11 NMAC or NORM provisions in 19.15.35 NMAC, as applicable.

The O60K AST shall be deemed to have ceased operations if less than 20% of the total fluid capacity is used every six months following the first withdrawal of produced water for use. Cessation of operations must be reported to the appropriate division district office. An extension to this determination of cessation of operations, not to exceed 6 months, may be

requested from NMOCD via OCD Permitting portal using a C 147 long form with cover letter describing request.

Inspections:

- Must occur **weekly** when ***any*** volume of fluid is present within the containment.
- A log of these inspections should be maintained and available for review on request per NMOCD.
- Inspections to include:
    - Leak detection system and for evidence of fluid in secondary containment.
    - Visible liner integrity/potential compromise by fluid jets or impact from installation and removal of hoses or pipes.
    - Liner secured with clips.
    - Freeboard/fluid levels
    - Noting and removal/appropriate disposal of visible oil on surface.
    - Integrity of berms/prevention of surface run-on.
    - Integrity of netting
    - Presence of wildlife/birds (any found must be reported to appropriate wildlife agency.)
    - Integrity of fencing
    - Assessment of tank panels/compromise of the steel structure.
    - Presence of H2S

Leak Detection

If the liner develops a leak or is compromised above the liquid's surface, then Ameredev will repair the damage or initiate replacement of the primary liner within 48 hours of discovery or will seek an extension from NMOCD.

If the primary liner is compromised below the fluid's surface, determined by inspection of the liner or from evidence of produced water in the leak detection system, all fluid shall be removed above the damage or leak and Ameredev will notify NMOCD within 48 hours of discovery. The liner shall then be cleaned and repaired or replaced by qualified personnel.

Reporting of identified leaks/damage to liner integrity:

- There is no allowable volume for leaks. Any volume of fluid identified with the leak detection system (that is not proven through testing to be unimpacted fluid, i.e. condensation) must be reported within 48 hours. A plan for intervention, including

dropping the fluid level to below the leak and a plan for repair and/or extension request, if indicated, should be included in report.

- Liner damage *above* fluid level is expected to be repaired within 48 hours of discovery or seek extension from NMOCD.
- Communication should be via the OCD Permitting Portal using the C 147 long form with an explanatory cover letter.

Reporting of water transfer and usage:

- Monthly report of volumes of water received (fresh and produced water separately) and volumes leaving facility via online permitting portal using C 148 form (updated January 2022). Use one C 148 per facility, current forms have place for reporting volumes for inground and AST containments.
- Records of sources and disposition of water must be kept and available for NMOCD review upon request.

Containments may be used for 5 years from the date the registration is initially filed with NMOCD. This may or may not correlate with the date of start of use. Annual extension may be requested by online submission of C-147 (long form) with an attached summary of inspections *30 days prior to registration expiration*.

Closure Plan

Once operations have ceased, Ameredev will remove all fluids within 60 days and close the containment within six months from the date operations are ceased. An extension for the removal of fluids, not to exceed 2 months may be requested. An extension to close the containment may be requested, not to exceed six months. Extensions will be requested through the OCD online process using a C-147 long form with an explanatory cover letter.

Containment Deconstruction

Residual fluids in the containments will be removed and sent to disposal at a division-approved facility.

Following removal of fluids, all solid contents, synthetic liners, and leak detection materials will be removed and transported to a division-approved facility.

Deconstruction of the steel walls and other infrastructure will occur according to the manufacturer's recommendations (Tank Tech).

Soil Sampling

After removal of containments, Ameredev will test the soils beneath the containment for contamination with a five-point composite sample to include any areas which may have been impacted as observed by stained or wet soils. Soil samples will be analyzed for the constituents of concern as listed in Table I of 19.15.34.14 NMAC.

If all contaminant concentrations are less than or equal to the parameters listed in Table I, then Ameredev can proceed to backfill with non-waste containing, uncontaminated, earthen material.

If any contaminant concentration is higher than the parameters listed in Table I, the division may require additional delineation upon review of the results and Ameredev must receive NMOCD approval before proceeding with closure.

Closure Report

Within 60 days of completion of closure, Ameredev will submit a closure report to document all closure activities, including required attachments, demonstrating sampling results with laboratory certificate of analysis, details of any remediation, backfilling, capping or covering as necessary. The closure report shall certify that all information in the report and attachments are correct and that Ameredev has complied with all applicable closure requirements and conditions specified in division rules or directives. All pertinent communications with NMOCD will be included in the report. Closure report to be submitted through the OCD permitting portal using a C-147 long form with explanatory cover letter.

Remediation, Restoration, & Reclamation

If constituents of concern exceed Closure Criteria per Table 1 of 19.15.34 NMAC, NMOCD may require remediation prior to restoration and reclamation activities. Please refer to the above section “Soil Sampling” for additional details.

If Closure Criteria is met per Table 1 of 19.15.34 NMAC, Ameredev will:

- If the location remains in-use for oil and gas production, the location will be restored to an active production site.
- If the location will not be in-use for oil and gas production, the site will be restored and reclaimed to the condition that existed prior to the construction of the recycling containment.
    - ✓ Reclaim the containment’s location to a safe and stable condition that blends with the surrounding undisturbed area.
    - ✓ Topsoils and subsoils shall be replaced to their original relative positions and contoured to achieve erosion control, long-term stability, and preservation of surface water flow patterns.
    - ✓ The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.
    - ✓ Reclamation will be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions provided they provide equal or better protection of fresh water, human health, and the environment.

Ameredev will notify NMOCD when this process is complete via OCD online using form C 147.

Appendix A

Well Logs

Atkins
ENGINEERING ASSOCIATES INC.

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,

Lucas Middleton

Enclosures: as noted above

OSE 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.)	WELL TAG ID NO.	OSE FILE NO(S).
POD-1	n/a	CP-1922

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Ameredev Operating, LLC	737-300-4700

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
2901 Via Fortuna Suite 600	Austin	TX	78746

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	4	38.51	N
	LONGITUDE	103	17	9.02	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* 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.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
9/21/2022	9/21/2022	temporary well material	±101	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DATE STATIC MEASURED: 9/26/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

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

OSE DII OCT 12 2022 PM2:04

3. ANNULAR MATERIAL

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

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

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	14	14	Sand, fine-grained, poorly graded, Tan Brown	Y ✓ N	
14	80	66	Sand, fine-grained, poorly graded, poorly consolidated, Tan Brown	Y ✓ N	
80	101	21	Sand, fine-grained, poorly graded, with Caliche , Tan Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
DTW-16

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PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 10/4/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

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

PLUGGING RECORD

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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1922

Well owner: Ameredev Operating, LLC Phone No.: 737-300-4700

Mailing address: 2901 Via Fortuna Suite 600

City: Austin State: Texas Zip code: 78746

II. WELL PLUGGING INFORMATION:

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

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

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

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

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

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

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

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

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

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Version: September 8, 2009
Page 1 of 2

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:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("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	

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

III. SIGNATURE:

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

Jack Atkins — Signature of Well Driller

10/4/2022 — Date

Version: September 8, 2009
Page 2 of 2

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

Final Audit Report 2022-10-04

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

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

Document created by Lucas Middleton (lucas@atkinseng.com)
2022-10-04 - 2:26:57 PM GMT- IP address: 64.17.71.25

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-10-04 - 2:27:56 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2022-10-04 - 2:58:39 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-10-04 - 3:00:40 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2022-10-04 - 3:00:40 PM GMT

OSE DIT OCT 12 2022 PM2:04

Adobe Acrobat Sign

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	Twns	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	

**YTD Meter Amounts:	Year	Amount
	2017	51.389
	2018	152.511
	2019	110.782
	2020	131.611
	2021	15.091

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	

**YTD Meter Amounts:	Year	Amount
	2020	0.113
	2021	0.236

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 ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):		
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):		
Lat/Long (WGS84) - To 1/10th of second ☐ 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:

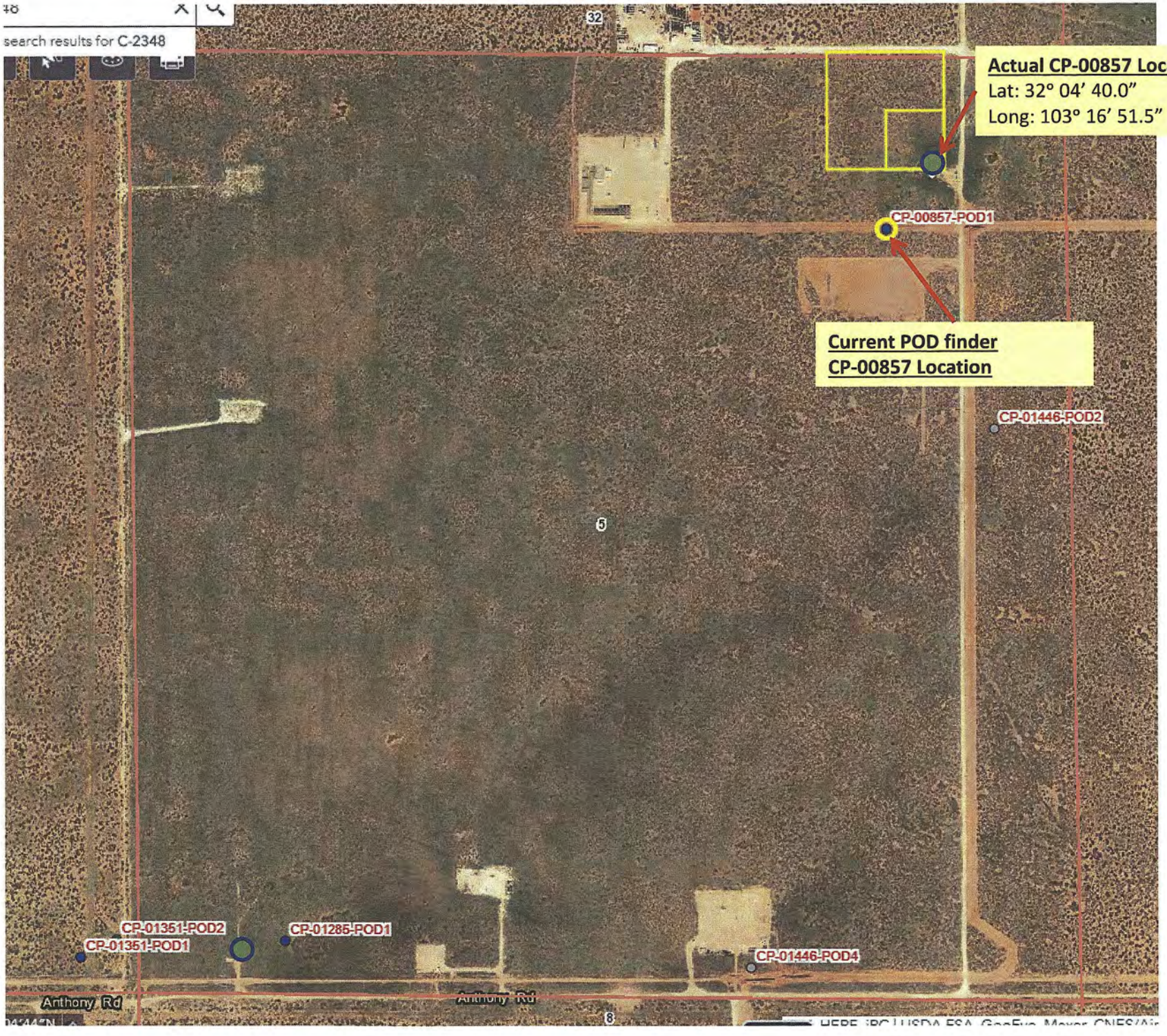
NM State Plane (NAD83) - In feet	NM West Zone ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):		
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):		
Lat/Long (WGS84) - To 1/10th of second ☐ Check if seconds are decimal format	Lat: 32	deg	04 min	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



Revised June 1972

496330

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Anthony Ranch — Owner's Well No. Recompletion

Street or Post Office Address P.O. Box 398

City and State Jal, New Mexico 88252

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

a. ~~NW~~ ¼ ~~NW~~ ¼ SW¼NE¼NE¼ ¼ of Section 5 Township 26 S Range 36 E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor West Texas Water Well Service License No. WD-1184

Address 3432 W. University, Odessa, TX 79764

Drilling Began 10-9-96 Completed 10-10-96 Type tools air rotary Size of hole 9 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 365 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

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

Section 3. RECORD OF CASING

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

Section 4. RECORD OF MUDDING AND CEMENTING

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

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____ State Engineer Representative

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

FOR USE OF STATE ENGINEER ONLY #130947

Date Received 01/15/97

Quad _____ FWL _____ FSL _____

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

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER OFFICE
ROSWELL NEW MEXICO
'97 JAN 15 AM 11 22

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Robert E. Collis
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Appendix B

Technical Specifications

FWN&A
Structural Engineering

December 12, 2018

Washington Crossing Field Services, LLC
5707 Southwest Parkway
Suite 1-275
Austin, Texas 78735

Re: Desoto Springs Containment – 32.076, -103.282844

To whom it may concern,

It is proposed to use a Tank Tech, LLC Model 600 above ground water storage tank to store water at the above referenced site. The Model 600 is 12'-3 ½" tall with a diameter of 190'-11 7/8". It has a storage capacity of 62,719 barrels or 2,634,189 gallons.

The Model 600 tank was designed for loads in accordance with the International Building Code, 2015 Edition. The capacity of the various structural components was determined in accordance with the International Building Code, 2015 Edition and its various referenced Standards.

If there is any additional information that we may be able to provide at this time, please feel free to contact me at your convenience.

Sincerely,

David L. Hartmann, P.E., S.E.
Principal
dhartmann@fwna-eng.com

DAVID L. HARTMANN
NEW MEXICO
18496
PROFESSIONAL ENGINEER

12-12-18

Frank W. Neal & Assoc., Inc.
1015 W. Broadway
Fort Worth, Texas 76104
(817) 332-1944

Fax (817) 336-8620
fwna-eng.com

TANK TECH

Tank Tech, LLC can provide
engineering services and fabrication
for any custom size above
ground storage tank.

TANK TECH IS MORE THAN JUST A TANK COMPANY

Tank Tech, LLC is a Fort Worth, Texas based company that provides high capacity industrial modular fluid storage tanks throughout the United States. Our mission is to provide the highest quality tank to mitigate your environmental risk and decrease your overall footprint. This is the solution to earthen pits for drilling fluids, water reclamation and water storage.

Tank Tech Tanks are designed and certified by a professional structural engineer and fabricated by our sister steel company to the strictest quality standards. Our rolled steel panels are made of high quality grade 50 domestic (U.S.A.) steel that should exceed the customers expectations.

In addition, our tanks will be equipped with supply and discharge lines that can be manufactured to fit any application.

Tank Tech offers leasing and the sale of our tanks. Our operations team will erect and dismantle your tank and our VP of operations has over 30 years of experience in the construction industry.

TANK TECH MODELS & SPECS

TANK TECH MODEL	400	425	600
Capacity (Barrels)	40,290	43,555	62,719
Capacity (Barrels) w/8” Freeboard	38,276	41,193	59,317
Capacity (Gallons)	1,692,180	1,829,298	2,634,198
Structure Diameter (ft)	160’-0”	159’-2”	191’-0”
Excavation Diameter (ft)	180’	190’	221’
Panel Height (ft)	11’-3”	12’-3 1/2”	12’-3 1/2”
Number of Panels	16	25	20
Truck Loads	3	3	3

Why Tank Tech, LLC should be incorporated into your operation

- Designed and certified by a licensed Professional Engineer with over 25 years of structural engineering experience.
- We offer the highest quality tanks to mitigate your environmental risk and decrease your overall footprint.
- Our tank height of 11’ & 12’ minimizes wildlife encroachment and transport.
- Each tank utilizes a geotextile mat and liner customized for the installation.
- Perfect alternative to earthen pits for fracking, drilling, water reclamation and water storage.
- Tank Tech can custom design, engineer, and fabricate any size/type tank to accommodate the customers needs.
- Mobility allows the tank to be installed on the most effective area of the job site.

Side view of Model 600 with 6” fill line.

Front view of Tank Tech Model 600.

Tank Tech uses High Density Polyethylene for all mechanical applications.

Tank Tech employee checking water level on Model 425.

An example of a Water Reclamation Project/Tank Farm.

Typical supply/discharge mechanical system.

Tank Tech's Bird netting system with cabling/center pole/netting.

Example of safety clamps on Tank Tech Model 600 tank.

SOLMAX

TECHNICAL DATA SHEET

LLDPE Series, 40 mils

White Reflective, Smooth

2801 Boul. Marie-Victorin Varennes, Quebec Canada J3X 1P7
Tel: (450) 929-1234 Sales: (450) 929-2544 Toll free in North America:1-800-571-3904 www.Solmax.com www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY[1]	UNIT Imperial	
SPECIFICATIONS				
Thickness (min. avg.)	ASTM D5199	Every roll	mils	40.0
Thickness (min.)	ASTM D5199	Every roll	mils	36.0
Melt Index - 190/2.16 (max.)	ASTM D1238	1/Batch	g/10 min	1.0
Sheet Density (8)	ASTM D792	Every 10 rolls	g/cc	≤ 0.939
Carbon Black Content	ASTM D4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 & Cat. 2
OIT - standard (avg.)	ASTM D3895	1/Batch	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 2 rolls		
Strength at Break			ppi	168
Elongation at Break			%	800
2% Modulus (max.)	ASTM D5323	Per formulation	ppi	2400
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	lbf	22
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	lbf	62
Dimensional Stability	ASTM D1204	Certified	%	± 2
Multi-Axial Tensile (min.)	ASTM D5617	Per formulation	%	30
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation (5)		
STD OIT (min. avg.)	ASTM D3895		%	35
HP OIT (min. avg.)	ASTM D5885		%	60
UV Resistance - % retained after 1600 hr	ASTM D7238	Per formulation (5)		
HP-OIT (min. avg.)	ASTM D5885		%	35
Low Temperature Brittleness	ASTM D746	Certified	°F	- 106
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)				
Color (one side) (4)		-		White

NOTES

1. Testing frequency based on standard roll dimension and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
4. Smooth edge may not have the same consistent shade of color as the membrane itself. The colored layer may cause the carbon black content results to be higher than 3%.
5. Certified by core (black) formulation on geomembrane roll or molded plaque.
8. Correlation table is available for ASTM D792 vs ASTM D1505. Both methods give the same results.

* All values are nominal test results, except when specified as minimum or maximum.
* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsability of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

LIST OF GEOMEMBRANE ROLLS

SOLMAX

Solmax, 2801 Boul. Marie-Victorin, Varennes, Qc, Canada, J3X 1P7
Tél.: 1-450-929-1234 • Fax.: 1-450-929-2547 • www.solmax.com

SOLMAX APPROVED Quality Assurance

Project Name : PO 3292-2 - Odessa, TX

Project Number : 3292-2

Reference Number : 111550

Packing Slip Number : 224726

Roll Number	Product Code	Resin Lot Number	Manufactured Date	Resin Melt Index 190/2.16 g/10 min D1238	Resin Density g/cc D1505	OIT Spec Result min D3895	HPOIT Spec Result min D5885	ESCR SP-NCTL Spec Roll Tested hours D5397
LLDPE 40 mils White Reflective Smooth								
5-35524	1008348-56350-1	CJB810750	23-mars-18	0.32	0.919	*100* > 120		N/A
5-35539	1008348-56350-1	CJB810750	24-mars-18	0.32	0.919	*100* > 120		N/A
5-35540	1008348-56350-1	CJB810750	24-mars-18	0.32	0.919	*100* > 120		N/A
5-35542	1008348-56350-1	CJB810500	24-mars-18	0.36	0.919	*100* > 120		N/A
5-35543	1008348-56350-1	CJB810500	24-mars-18	0.36	0.919	*100* > 120		N/A
5-35550	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35551	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35552	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35553	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35554	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35556	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A
5-35557	1008348-56350-1	CJB810500	25-mars-18	0.36	0.919	*100* > 120		N/A

Quantity (rolls) : **12**

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

SOLMAX

MANUFACTURING QUALITY CONTROL

Test Results - Rolls

Solmax, 2801 Boul. Marie-Victorin, Varennes, Qc, Canada, J3X 1P7
Tél.: 1-450-929-1234 • Fax.: 1-450-929-2547 • www.solmax.com

Project Name PO 3292-2 - Odessa, TX

Project Number : 3292-2

Reference Number : 111550

Packing Slip Number : 224726

SOLMAX APPROVED Quality Assurance

Product 1008348-56350-1

LLDPE 40 mils White Reflective Smooth

CE Certificate = LL-40-SS-WB

Properties		Thickness ave / min.	Geo-membrane Density	Carbon Black Content	Carbon Black Dispersion	Tensile Yield Strength	Tensile Yield Elong.	Tensile Break Strength	Tensile Break Elong.	Tear Resist.	Puncture Resist.	Dimension. Stability	Asperity Height in / out
Unit		mils	g/cc	%	Cat. 1 and 2	ppi	%	ppi	%	lbs	lbs	%	mils
Test Method		D5199	D1505/D792	D4218 / D1603	D5596	D6693				D1004	D4833	D1204	
Frequency		Each roll		1/2 ro	1/10 ro	1/2 ro				1/5 ro	1/5 ro	Certied	N/A
Specification		40.0 / 36.0	≤ 0.939	2.0 - 3.0	Cat. 1 - Cat. 2			168	800	22	62	± 2	
5-35524	MD	40.6 / 39	0.937	2.68	10 /10 Views			211	873	25.7	92.9		/
	XD							214	980	27.1			
5-35539	MD	40.1 / 39	0.937	2.25	10 /10 Views			211	864	25.6	90.4		/
	XD							197	915	26.9			
5-35540	MD	40.4 / 39	0.937	2.25	10 /10 Views			211	864	25.1	88.9		/
	XD							197	915	27.3			
5-35542	MD	40.6 / 39	0.937	2.39	10 /10 Views			210	860	25.1	88.9		/
	XD							206	939	27.3			
5-35543	MD	40.6 / 39	0.937	2.23	10 /10 Views			213	866	25.1	88.9		/
	XD							209	942	27.3			
5-35550	MD	41.4 / 40	0.936	2.59	10 /10 Views			221	913	25.9	88.6		/
	XD							217	1011	27.7			
5-35551	MD	40.7 / 39	0.936	2.68	10 /10 Views			215	878	25.9	88.6		/
	XD							222	1031	27.7			
5-35552	MD	40.9 / 39	0.936	2.68	10 /10 Views			215	878	25.9	88.6		/
	XD							222	1031	27.7			
5-35553	MD	40.8 / 39	0.937	2.83	10 /10 Views			218	894	25.0	90.9		/
	XD							220	1028	27.2			
5-35554	MD	40.9 / 40	0.937	2.83	10 /10 Views			218	894	25.0	90.9		/
	XD							220	1028	27.2			
5-35556	MD	40.6 / 39	0.937	2.59	10 /10 Views			210	855	25.0	90.9		/
	XD							216	1021	27.2			
5-35557	MD	40.8 / 40	0.937	2.51	10 /10 Views			225	926	25.0	90.9		/
	XD							216	1001	27.2			

CoA Date: 02/13/2018

Certificate of Analysis

Shipped To: SOLMAX
2801 BOUL MARIE-VICTORIN
VARENNES QC J3X 1P7
CANADA

Recipient: Marcotte
Fax:

Delivery #: 89611704
PO #: 116755-0
Weight: 188300.000 LB
Ship Date: 02/13/2018
Package: BULK
Mode: Hopper Car
Car #: CPCX815050
Seal No: 110664

Product:
MARLEX 7104 POLYETHYLENE in Bulk
Additive levels have been tested and meet minimum the specification for this lot.
As a result, Standard OIT (by ASTM D 3895) is greater than 120 minutes (nominal value, not tested on every lot).

Lot Number: CJB810500

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.36	g/10min
Density	D1505	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Melissa Alexander at +-832-813-4244

Page 1 of 1

CoA Date: 02/14/2018

Certificate of Analysis

Shipped To: SOLMAX
2801 BOUL MARIE-VICTORIN
VARENNES QC J3X 1P7
CANADA

Recipient: Marcotte
Fax:

Delivery #: 89612650
PO #: 116787-0
Weight: 196150.000 LB
Ship Date: 02/14/2018
Package: BULK
Mode: Hopper Car
Car #: NAHX620433
Seal No: 122023

Product:
MARLEX 7104 POLYETHYLENE in Bulk
Additive levels have been tested and meet minimum the specification for this lot.
As a result, Standard OIT (by ASTM D 3895) is greater than 120 minutes (nominal value, not tested on every lot).

Lot Number: CJB810750

Property	Test Method	Value	Unit
Melt Index	ASTM D1238	0.32	g/10min
Density	D1505	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP (CPChem).
However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

KEVIN AYRES
QUALITY ASSURANCE SUPERINTENDENT

For CoA questions contact Melissa Alexander at +-832-813-4244

Page 1 of 1

Laura Parker

From: Jorge Hernandez <jhernandez@solmax.com>
Sent: Monday, March 27, 2023 12:45 PM
To: Laura Parker
Subject: [EXTERNAL] Re: AST liner information Ameredev II, LLC

Laura,

This is what I got from our internal technical manager:
40-mil unreinforced LLDPE is similar to string-reinforced material, but does not contain tensile elements that create stress concentrations under certain types of loads. While reinforced products attempt to resist puncture and tear by tensile strength, unreinforced LLDPE was developed to maintain barrier performance under higher loads than can be resisted by tensile elements under extreme geotechnical loads. By providing much better linear and multi-axial elongation capacity, tensile stresses are relieved, stopping the poisson effect deformation that can lead to puncture in reinforced products. Unreinforced LLDPE thereby provides equal or better groundwater protection than string-reinforced products under extreme loads such as tank foundations and hydrostatic conditions.

Regards,

Jorge Hernandez
Value Engineer

(m) +1 713 828 7653 | jhernandez@solmax.com
19103 Gundle Road, Houston, Texas, 77073, USA

On Mar 16, 2023, at 09:49, Laura Parker <lparker@ameredev.com> wrote:

Good Morning Mr. Hernandez,

I wanted to follow up regarding the information requested below to compare 40 mil LLDPE liners with NMOCD regulatory requirements and EPA testing. Please let me know if you can obtain this technical information for us to use in writing variance request.

Thank you,

SOLMAX

TECHNICAL DATA SHEET

HDPE Series, 60 mils

Black, Smooth

2801 Boul. Marie-Victorin Varennes, Quebec Canada J3X 1P7
Tel: (450) 929-1234 Sales: (450) 929-2544 Toll free in North America:1-800-571-3904 www.Solmax.com www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY(1)	UNIT Imperial	
SPECIFICATIONS				
Thickness (min. avg.)	ASTM D5199	Every roll	mils	60.0
Thickness (min.)	ASTM D5199	Every roll	mils	54.0
Melt Index - 190/2.16 (max.)	ASTM D1238	1/Batch	g/10 min	1.0
Sheet Density (8)	ASTM D792	Every 10 rolls	g/cc	≥ 0.940
Carbon Black Content	ASTM D4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 & Cat. 2
OIT - standard (avg.)	ASTM D3895	1/Batch	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 2 rolls		
Strength at Yield			ppi	132
Elongation at Yield			%	13
Strength at Break			ppi	243
Elongation at Break			%	700
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	lbf	42
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	lbf	120
Dimensional Stability	ASTM D1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D5397	1/Batch	hr	500
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
HP OIT (min. avg.)	ASTM D5885		%	80
UV Res. - % retained after 1600 hr	ASTM D7238	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	50
Low Temperature Brittleness	ASTM D746	Certified	°F	- 106
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)				

NOTES

1. Testing frequency based on standard roll dimension and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
8. Correlation table is available for ASTM D792 vs ASTM D1505. Both methods give the same results.

* All values are nominal test results, except when specified as minimum or maximum.
* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsability of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

SOLMAX

Mustang Extreme Environmental Services

July 22, 2020

Attn: Alex Skousen | Operations Manager
Re: Hydraulic Conductivity – Solmax HDPE 60 mil

Dear Mr. Skousen:

Solmax International Inc. hereby certifies that the HDPE geomembrane 60 mil, black smooth, has a hydraulic conductivity (ATMD E 96) lower than 1 x 10^{-12} cm/s.

Hoping the above information will be satisfactory.

Sincerely,

Mauricio Ossa
Global Technical Engineering Manager

T +1 800 435-2008

GSE ENVIRONMENTAL, LLC | A SOLMAX COMPANY
19103 GUNDLE ROAD, HOUSTON, TX 77073, USA

SOLMAX.COM

Appendix C

Variances

Variance Requests

Ameredev respectfully requests the following variances to 19.15.34.16 NMAC as listed below. A variance to fencing is requested as the utilized fence is felt to be better than what is prescribed. Variance requests for levee slopes, anchor trench, primary and secondary liners are requested due the nature of the build of an above ground steel tanks (ASTs) with vertical walls as compared to inground containments.

Fencing

9.15.34.12. D (2) NMAC prescribes that recycling containments are fenced with a four-foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level.

Ameredev used an 8-foot game fence with a single strand of barbed wire attached above the game fencing. This will more effectively deter wildlife or human intrusion which may otherwise go under or climb over prescribed fencing, therefore, meeting or exceeding above requirements to provide equal or better protection of fresh water; public health; and the environment.

Levee Slopes

9.15.34.12. A (2) NMAC. …The operator shall construct the containment in a levee with an inside grade no steeper than two horizontal feet to one vertical foot (2H:1V). The levee shall have an outside grade no steeper than three horizontal feet to one vertical foot (3H:1V). The top of the levee shall be wide enough to install an anchor trench and provide adequate room for inspection and maintenance.

The prescribed slopes apply to a lined inground containment. The O60K AST is a modular fluid storage tank which has upright steel walls that provide the structure for the containment, prevents surface run-on, and allows for inspection and maintenance between the 12-foot high tank wall which support the primary liners and the secondary vertical steel wall which supports the secondary liner (see schematic in Design and Construction Plan). This AST tank was designed and certified by a professional structural engineer (see technical specifications and associated letter from professional engineer) and provides an alternative to inground containments for produced water storage. This structure provides equal or better protection of fresh water, public health, and the environment than the prescribed inside and outside levee slopes.

Anchor Trenches

9.15.34.12. A (3) NMAC. …The edges of all liners shall be anchored in the bottom of a compacted earth-filled trench. The anchor trench shall be at least 18 inches deep.

The prescribed anchor trench for securing the liner system pertains to inground containments. The O60K AST is an above ground modular fluid storage tank which has upright steel walls and therefore no anchor trench can be utilized. The liner system is anchored to the steel walls by clips or clamps. (Please see schematic in Design and Construction Plan). This system has been engineered and installed in a manner to provide equal protection of fresh water, public health, and the environment.

Primary Liners

9.15.34.12. A (4) NMAC. All primary (upper) liners in a recycling containment shall be geomembrane liners composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. All primary liners shall be 30-mil flexible PVC, 45-mil LLDPE string reinforced or 60-mil HDPE liners. Liner compatibility shall meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications.

Ameredev has utilized a dual 40-mil LLDPE liner as the primary liner. The primary liner of a produced water containment is meant to act as the primary protective barrier, withstanding UV and chemical insult, to protect from any potential impact to fresh water, public health, or the environment. The prescribed liners do not take into consideration the upright steel walls of an AST containment.

40-mil LLDPE is more flexible and will more readily conform to the structure of the above ground tank. While reinforced products attempt to resist puncture and tear by tensile strength, unreinforced LLDPE was developed to maintain barrier performance under higher loads than can be resisted by tensile elements under extreme geotechnical loads. By providing much better linear and multi-axial elongation capacity, tensile stresses are relieved, stopping the poisson effect deformation that can lead to puncture in reinforced products. Unreinforced LLDPE thereby provides equal or better groundwater protection than string-reinforced products under extreme loads such as tank foundations and hydrostatic conditions (see email from Solmax technical support in Appendix A). Field seaming is reduced as it is produced in large sheets. The dual liner will require that a leak penetrate 2 40-mil LLDPE liners prior to reaching the secondary liner. Technical specifications and email from technical support for the Solmax 40 mil LLDPE liners are included in Appendix B. This primary liner system will provide equal protection of fresh water, public health, and the environment.

Secondary Liners

9.15.34.12. A (4) NMAC. Secondary liners shall be 30-mil LLDPE string reinforced or equivalent with a hydraulic conductivity no greater than 1 x 10-9 cm/sec. Liner compatibility shall meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications.

Ameredev has utilized a 60-mil HDPE liner as the secondary liner, which is attached to an outer steel wall containment with clamps (see schematic in Design and Construction Plan). The purpose of a secondary liner is to contain any produced water fluids that may leak through the primary liner. Liner thickness and hydraulic conductivity are important to this purpose. The 60-mil HDPE liner provides a better barrier as it is thicker and denser than the prescribed 30-mil LLDPE. A letter from the Technical Engineering Manager for the liner manufacturer certifies that the 60-mil HDPE liner has a hydraulic conductivity less than 1 x 10^{-12}. (Please refer to liner specifications and above letter in Appendix B). The 60 mil HDPE liner provides superior protection from UV and chemical exposure (thus an NMOCD approved primary liner) than the prescribed liners. This liner provides equal or better protection of fresh water, public health, and the environment than the prescribed 30-mil string reinforced LLDPE.

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Friday, April 14, 2023 11:18 AM
To: Andrew Parker; Laura Parker; 'Shane McNeely'
Subject: 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. Application ID: 206140
Attachments: C-147 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] Modification 04.14.2023.pdf

1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815].

Good morning Mr. Parker,
NMOCD has reviewed the recycling containment permit modification and related documents, submitted by AMEREDEV OPERATING, LLC [372224] on April 11, 2023, for 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] in Unit Letter G, Section 05, Township 26S, Range 36E, Lea County, New Mexico. AMEREDEV OPERATING, LLC [372224] requested variances from 19.15.34 NMAC for 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] AST related to 19.15.34. NMAC

The following variances specific to the AST have been approved:

- The variance to 19.15.34.12.A.(2) NMAC for the no side-slope requirement for the AST containment with vertical walls is approved.
- The variance to 19.15.34.12.A.(3) NMAC for the liners to be anchored to the top of the AST steel walls and no anchor trenches is approved.
- The variance to NMAC 19.15.34.12.D to install an 8-foot game fence with a single strand of barbed wire attached above the game fencing is approved.
- The variance to 19.15.34.12.A.(4) NMAC for the installation on the AST containment of a dual 40-mil non-reinforced LLDPE primary liner and a 60-mil HLDPE as the secondary liner is approved. The proposed new liner system cross-section is as follows:
    - Primary Liner: Dual (2 layers) 40 mil LLDPE attached to steel containment wall with clips.
    - Leak Detection: 200 mil Geogrid placed between primary and secondary liners.
    - Secondary Liner: 60 mil HDPE
    - Steel wall containment with secondary liner attached with clips.
    - Geotextile underlayment

The form C-147 and related documents for the modification of permit 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] is approved with the following conditions of approval:

- **AMEREDEV OPERATING, LLC [372224] will comply with all conditions previously approved for permit 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. No changes to the operations procedures, maintenance, and monitoring procedures, or closing procedures will be made aside from the addition of storage volume in the AST (60,000.00 BBL). 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] must operate as originally permitted.**
- 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] permit expires on August 24, 2023.
- A minimum of 3-feet freeboard must be maintained at 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] at all times during operations.
- If less than 20% of the total fluid capacity is utilized every six months, beginning from the first withdrawal, operations of the 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] is considered ceased and a notification of cessation of operations should be sent electronically to OCD Permitting. A request to extend the cessation of operation, not to exceed six months, may be submitted using a C-147 form through OCD Permitting. If after that 6-month extension period, 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] is not utilized

at a minimum of 20% fluid capacity, no additional extensions would be granted, and the operator would be directed to remove all fluids and proceed with the closure requirements.

- AMEREDEV OPERATING, LLC [372224] shall submit monthly reports of recycling and reuse of produced water, drilling fluids, and liquid oil field waste on OCD form C-148 via OCD Permitting even if there is zero activity.
- AMEREDEV OPERATING, LLC [372224] must inspect the 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] recycling containment and associated leak detection systems weekly while it contains fluids per 19.15.34.13(A). AMEREDEV OPERATING, LLC [372224] shall maintain a current log of such inspections and make the log available for review by the division upon request.

Please let me know if you have any additional questions.
Regards,

Victoria Venegas ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov
https://www.emnrd.nm.gov/ocd/

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

COMMENTS

Action 206140

COMMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 206140
	Action Type: [C-147] Water Recycle Long (C-147L)

COMMENTS

Created By	Comment	Comment Date
vvenegas	NMOCD has reviewed and approved the recycling containment permit modification and related documents, submitted by AMEREDEV OPERATING, LLC [372224] on April 11, 2023, for 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. • AMEREDEV OPERATING, LLC [372224] will comply with all conditions previously approved for permit 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. No changes to the operations procedures, maintenance, and monitoring procedures, or closing procedures will be made aside from the addition of storage volume in the AST (60,000.00 BBL). 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] must operate as originally permitted.	4/14/2023

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

Operator:	OGRID:
AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	372224
	Action Number: 206140
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed and approved the recycling containment permit modification and related documents, submitted by AMEREDEV OPERATING, LLC [372224] on April 11, 2023, for 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. • AMEREDEV OPERATING, LLC [372224] will comply with all conditions previously approved for permit 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815]. No changes to the operations procedures, maintenance, and monitoring procedures, or closing procedures will be made aside from the addition of storage volume in the AST (60,000.00 BBL). 1RF-498 - DESOTO SPRINGS #3 FACILITY ID [fVV2234954815] must operate as originally permitted.	4/14/2023