

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-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☐ Recycling Containment*

Type of action: ☐ Permit ☐ Registration
☐ Modification ☒ Extension
☐ Closure ☒ Other (explain) Extension of the cessation of operations for 8/2022 to 2/2023

* 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: Enduring Resource, LLC (For multiple operators attach page with information) OGRID #: 372286
Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): W Escavada Unit 300H
OCD Permit Number: 3RF-50 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr A Section 17 Township 22N Range 7W County: Sandoval
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2.
☐ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 36.143847 Longitude -107.589762 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:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 36.143847 Longitude -107.589762 NAD83
☒ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 45 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other Secondary Liner - 30 mil
☐ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 50,000 & 60,000 bbl Dimensions: L _____ x W _____ x D _____ See Attached
☐ 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 _____

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

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.**

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.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

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).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

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.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

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.

- ☒ Design Plan - based upon the appropriate requirements.
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☒ Closure Plan - based upon the appropriate requirements.
- ☒ Site Specific Groundwater Data -
- ☒ Siting Criteria Compliance Demonstrations –
- ☒ 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): Khem Suthiwan Title: Regulatory Manager
 Signature: *Khem Suthiwan* Date: 07/28/2022
 e-mail address: ksuthiwan@enduringresources.com Telephone: (303)350-5721

11.

OCD Representative Signature: *Victoria Venegas* Approval Date: 08/24/2022Title: Environmental Specialist OCD Permit Number: 3RF-50

- ☒ OCD Conditions _____
- ☒ Additional OCD Conditions on Attachment _____

ATTACHMENTS



ENDURING RESOURCES

From: [Venegas, Victoria, EMNRD](#)
To: [Chris Jones](#); [Heather Huntington](#); [Khem Suthiwan](#)
Subject: 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557]. Application ID: 99187
Date: Thursday, May 5, 2022 10:37:33 AM
Attachments: [image001.jpg](#)
[We sent you safe versions of your files.msg](#)
[C-147. 3RF-50 - W ESCAVADA Extension Cessation of Operations. 05.05.2022.pdf](#)

Mimecast Attachment Protection has deemed this file to be safe, but always exercise caution when opening files.

3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557].

Mr. Jones,

NMOCD has reviewed the cessation of operations extension request for 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] received from [372286] ENDURING RESOURCES, LLC on April 18, 2022. The extension of the cessation of operations is approved with the following conditions of approval:

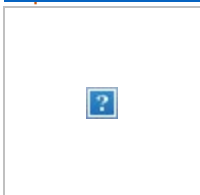
- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] registration/permit expires on July 21, 2026.
- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] extension of cessation of operations is approved from February 01, 2022, to August 1, 2022. Per NMAC 19.15.34.13.C extensions are considered for a maximum length of six months.
- [372286] ENDURING RESOURCES, LLC will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. [372286] ENDURING RESOURCES, LLC may maintain a higher liquid level if they choose.
- [372286] ENDURING RESOURCES, LLC will provide written notice to [OCD Online](#) at least 72 hours, but no more than one week, prior to the recommencement of operations. Recommencement of recycling operations means that the operator plans to resume moving fluids through the containment and discharging fluids from the containment.
 - At the resumption of recycling operations, [372286] ENDURING RESOURCES, LLC is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
 - [372286] ENDURING RESOURCES, LLC will fill the containment. [372286] ENDURING RESOURCES, LLC will pause filling operations at every 10% of total fluid capacity above the minimum level.
 - [372286] ENDURING RESOURCES, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operation the leak detection system at the end of the 24-hour period.
 - If there are no liquids present in the leak detection system, [372286] ENDURING RESOURCES, LLC may proceed to fill the next 10% volume and repeat the process until the containment full design capacity minus the 3-feet of freeboard is reached.
 - If liquids are present, [372286] ENDURING RESOURCES, LLC should immediately cease the incremental fill test and perform a liner inspection. [372286] ENDURING

- RESOURCES, LLC should provide written notice of the fluid detection and liner inspection findings to OCD via [OCD Online](#) using a C-147 (long form) with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
- Upon notification of fluid detection in the leak detection system, the OCD will verify the source of water (condensation versus produced water).
 - If the detected fluid is confirmed to be condensation, the OCD will issue a written approval to proceed with the incremental fluid level test.
 - If the detected fluid is confirmed to be produced water, [372286] ENDURING RESOURCES, LLC must comply with [19.15.34.13](#) NMAC. [372286] ENDURING RESOURCES, LLC must provide written notification to [OCD Online](#) on the actions taken to comply with [19.15.34.13](#) NMAC.
 - After fluid is detected in the leak detection system, the incremental fill test cannot continue until after a written approval to proceed is issued by the OCD.
 - [372286] ENDURING RESOURCES, LLC must submit copies of the detailed containment inspection records for the prior three months and a report detailing the incremental fluid level test process and results through the [OCD Online](#) system using a C-147 (long form) with the "Other" box checked. "Recommendation of Operations - Incremental Fluid Level Test" should be written as the explanation of "Other." Form C-147 must be completed and include information in sections 1 General Information, 2 Recycling Facility, 3 Recycling Containment, 4 Bonding, and 10 Operator Application Certification. Section 9 Recycling Facility and/or Containment Checklist may also need to be partially completed. Operators should verify that the resumption of operations notification does not result in any changes to the recycling containment operating and maintenance plan or the closure plan. If the recommendation of operations will affect the operating and maintenance plan or closure plan, operators should check those boxes in section 9 and provide updated plans or plan addendums as attachments to the C-147.
- [372286] ENDURING RESOURCES, LLC will continue to operate, maintain, and close 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity).
 - A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.
 - [372286] ENDURING RESOURCES, LLC may request a variance for an additional extension to the determination of cessation of operations, which will be reviewed on a case-by-case basis and evaluated on their merit. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.
 - [372286] ENDURING RESOURCES, LLC must recycle at 20% of the total fluid capacity of produced water from 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] no later than through August 1, 2022, to be considered in operations.

Please let me know if you have any other questions.

Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
(575) 909-0269 | Victoria.Venegas@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



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Type of Facility: ☒ Recycling Facility ☐ Recycling Containment*

Type of action: ☐ Permit ☐ Registration
☐ Modification ☒ Extension
☐ Closure ☒ Other (explain) Extension of the cessation of operations for 02/2022 to 10/2022

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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: Enduring Resource, LLC (For multiple operators attach page with information) OGRID #: 372286
Address: 200 Energy Court, Farmington, New Mexico 87401
Facility or well name (include API# if associated with a well): W Escavada Unit 300H
OCD Permit Number: 3RF-50 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr A Section 17 Township 22N Range 7W County: Sandoval
Surface Owner: ☐ Federal ☐ State ☐ Private ☒ Tribal Trust or Indian Allotment

2.
☐ **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 36.143847 Longitude -107.589762 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:**
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 36.143847 Longitude -107.589762 NAD83
☒ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☐ Liner type: Thickness 45 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other Secondary Liner - 30 mil
☐ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 50,000 & 60,000 bbl Dimensions: L _____ x W _____ x D _____
☐ Recycling Containment Closure Completion Date: _____

See Attached

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 _____

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.

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

8.

Siting Criteria for Recycling Containment

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.**

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.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

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).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

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.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

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Form C-147
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Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*

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

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Location of recycling facility (if applicable): Latitude 36.143847 Longitude -107.589762 NAD83

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

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☒ **Recycling Containment:**

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☒ Lined ☐ Liner type: Thickness 45 mil ☒ LLDPE ☐ HDPE ☐ PVC ☒ Other: Secondary liner - 30 mil

☒ String-Reinforced

Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 50,000 & 60,000 bbl Dimensions: Radius _____ x Height _____ *See attachments*

☐ Recycling Containment Closure Completion Date: _____

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- ☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
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Within 500 feet of a wetland.

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- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

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.

- ☒ Design Plan - based upon the appropriate requirements.
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☒ Closure Plan - based upon the appropriate requirements.
- ☒ Site Specific Groundwater Data -
- ☒ Siting Criteria Compliance Demonstrations -
- ☒ 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): Alex Campbell

Title: Vice President

Signature: 

Date:

07/28/2021

e-mail address: acampbell@enduringresources.com

Telephone: (303)929-8429

11.

OCD Representative Signature: Victoria Venegas

Approval Date 08/26/2021

Title: Environmental Specialist

OCD Permit Number: 3RF-50

☒ OCD Conditions☒ Additional OCD Conditions on Attachment x

FVV2123855557

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Friday, August 27, 2021 11:14 AM
To: HEATHER SIPE; Gabrielle Riley; Enviro, OCD, EMNRD
Cc: Jones, Christopher; Mindy Paulek; Heather Riley
Subject: 3RF-50 - W ESCAVADA UNIT 300H – Facility ID fVV2123855557 . Application Approved with Conditions.
Attachments: C-147. 3RF-50 - W ESCAVADA UNIT 300H 08.26.2021.pdf

3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#). Application Approved with Conditions.

Ms. Huntington,
NMOC has reviewed the recycling containment permit application and related documents, submitted by [\[372286\]](#) ENDURING RESOURCES, LLC on July 29, 2021 for 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) in Unit Letter A - Section 17 - Township 22N - Range 07W, Sandoval County, New Mexico.

[\[372286\]](#) ENDURING RESOURCES, LLC requested variances to 19.15.34 NMAC for 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#).

The following variances 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 form C-147 and related documents for 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) is approved with the following conditions:

- [\[372286\]](#) ENDURING RESOURCES, LLC shall construct, operate, maintain, close, and reclaim 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) consisting of two (2) ASTs with 60,000.00 bbl of capacity and 50,000.00 bbl of capacity, in compliance with 19.15.34 NMAC.
- 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) is approved for five years of operation from the date of the application. 3RF-49 - RODEO UNIT 511H - FACILITY ID [fVV2123237271](#) permit expires on July 21, 2026. If [\[372286\]](#) ENDURING RESOURCES, LLC wishes to extend operations past five years, an annual permit extension request must be submitted using an OCD form C-147 through [OCD Online](#) by June 21, 2026.
- Water reuse and recycling from 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) is limited to wells owned or operated by [\[372286\]](#) ENDURING RESOURCES, LLC.
- [\[372286\]](#) ENDURING RESOURCES, LLC shall notify OCD when construction of 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) commences.
- [\[372286\]](#) ENDURING RESOURCES, LLC shall notify OCD when recycling operations commence and cease at 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#).
- A minimum of 3-feet freeboard must be maintained at 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#), at all times during operations.
- [\[372286\]](#) ENDURING RESOURCES, LLC shall provide OCD with the calculations for the operational total fluid capacity of each of the containments within 30 days of receiving produced water in the containment. The operational fluid capacity is the total volume of the containment, minus the volume not utilized due to the freeboard.

- If less than 20% of the total fluid capacity is utilized every six months, beginning from the first withdrawal, operation of the facility is considered ceased and notification of cessation of operations should be sent electronically to OCD.Enviro@state.nm.us. An extension request to extend the cessation of operation, not to exceed six months, may be submitted using a C-147 form through [OCD Online](#).
- [372286] ENDURING RESOURCES, LLC shall submit monthly reports of recycling and reuse of produced water, drilling fluids, and liquid oil field waste on OCD form C-148 through [OCD Online](#) even if there is zero activity.
- [372286] ENDURING RESOURCES, LLC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field wastes at 3RF-49 - RODEO UNIT 511H - FACILITY ID [fVV2123237271](#).

Please reference number 3RF-50 - W ESCAVADA UNIT 300H – Facility ID [fVV2123855557](#) in all future communications.

Thank you,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

811S. First St. | Artesia, NM 88210

(575) 909-0269 | Victoria.Venegas@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



Enduring Resources, LLC
W Escavada Unit #300H
Recycling Facility/Containment
Variance Request for 19.15.34 NMAC



New Mexico Oil Conservation Division
Attn: Victoria Venegas

RE: 3RF-50 – W Escavada Unit #300H – Facility ID fVV212385557

Enduring Resources is requesting variances to the below listed items as outlined in 19.15.34.16 NMAC. This Recycling Containment/Facility will consist of self-contained free-standing structures instead of a lined earthen pit. The variances requested below will provide equal or better protection of fresh water, public health, and the environment.

Variance Requests:

Liner Anchoring: Enduring Resources requests a variance to **NMAC 19.15.34.12 (3)** which applies to a lined earthen pit. This statute is not applicable to a circular steel AST with liners clamped to the top of the steel shell. We believe this will provide equal or better protection than the requirements listed in 19.15.34.12. NMAC.

Inside/Outside Levee Slopes: Enduring Resources requests a variance to **NMAC 19.15.34.12 (2)** which applies to a lined earthen pit. The containment is an AST and not an in-ground pond and therefore will not have inside/outside levee slopes. The AST is a self-contained free-standing structure that will provide equal or better protection than the requirements listed in 19.15.34.12 NMAC.

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 44846

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 44846
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	8/27/2021

C-147 Registration Package

Prepared for



Enduring Resources, LLC
200 Energy Court
Farmington, NM 87401
Phone #: (303)929-8429
www.enduringresources.com

Developed by



Energy Inspection Services
479 Wolverine Drive #9
Bayfield, Colorado 81122
Phone: (970) 881-4080

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1. INTRODUCTION

Applicant	Enduring Resources, LLC
Project Name	W Escavada Unit 300H
Project Type	Recycling Facility Permit & Recycling Containment Registration
Legal Location	Section 17 of T22N, R7W of Sandoval County, NM
Lease Number(s)	

In accordance with NMAC 19.15.34, Enduring Resources, LLC requests the registration of the proposed Recycling Containment and Recycling Facility through the approval of this C-147 registration and permit package. The facility and containments will be used to treat and recycle produced water for re-use in Enduring Resources, LLC's drilling and completion activities.

This package contains the C-147 form and associated documents for registration of the W Escavada Unit 300H.

2. SITING CRITERIA

2.1. Distance to Groundwater

A test well was drilled by Mo-Te Drilling on the proposed W Escavada Unit 300H on September 18, 2018, per the attached Drilling Log which indicates a groundwater depth greater than 50'. The proposed containment would be an Above Ground Storage Tank (AST). Therefore, the groundwater depth is greater than 50 feet below the bottom of the recycling containment (See Section 6 – iWaters Report and Ground Water Test Well).

2.2. Distance to Surface Water

There are not any continuously flowing watercourses within 300' nor any other significant watercourse and lakebed or playa lake within 200' of the recycling containment as shown on the Aerial or Topo maps provided (See Maps in Section 7).

2.3. Distance to Structures

There are no permanent residence, school, hospital, institution or church at the time of initial registration within 1000' of the recycling containment as shown on the Aerial and Topo maps provided.

2.4. Distance to Non-Public Water Supply

There are no springs or freshwater wells used for domestic or stock water purposes within 500' in existence at the time of initial registration as shown on the Aerial and Topo maps provided.

2.5. Distance to Municipal Boundaries and Defined Fresh Water Fields

The recycling facility is not within any incorporated municipal boundaries within a defined municipal fresh water well field covered by a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978, as amended.

2.6. Distance to Subsurface Mines

The recycling containment is not located in an “unstable” area. The location is not over a mine and is not on the side of a hill. There will be no excavated surface material, and as such, no material will be located within 100 feet of a continuously flowing or significant watercourse. According to the NM EMNRD Mining and Mineral Divisions database there are no subsurface mines in Section 17 of T22N, R7W in Sandoval County, New Mexico.

2.7 Distance to 100-Year Floodplain

The W Escavada Unit 300H is not located within a 100-year floodplain as demonstrated on the FEMA Map in Section 7.

3. DESIGN AND CONSTRUCTION PLAN

In accordance with Rule 19.15.34 the following information describes the design and construction of the recycling containment on W Escavada Unit 300H location.

The Design and Construction Plan assists Enduring Resources, LLC personnel in ensuring compliance with the minimum design and construction requirements for recycling containments as defined by the NMOCD outlined in 19.15.34.12 NMAC. The plan applies to any Enduring Resources, LLC Employee(s) and subcontractor(s) whose job requires them to assist with the design and construction of the recycling containment. The plan is designed to ensure compliance with the minimum design and construction requirements for recycling containments as defined by the NMOCD outlined in 19.15.34.12 NMAC.

Enduring Resources, LLC shall design and construct a recycling containment in accordance with the following specifications.

3.1 Foundation Construction

The containment will be construction on an existing WEU 300H pad location, which is level and vacant. The pad is clear of all topsoil and will not require topsoil removal or any ground disturbing work to construct the containment.

The recycling containment will have a properly constructed foundation consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear. The containment will ensure confinement of produced water, to prevent releases and to prevent overtopping due to wave action or rainfall. A geotextile under the liner will be used to reduce the localized stress-strain or protuberances that otherwise may compromise the liner's integrity. The containment is above ground and will not be subject to water run-on.

3.2 Liner Construction

W Escavada Unit 300H recycling containment shall incorporate, a primary (upper) liner and a secondary (lower) liner with a leak detection system. The primary (upper) liner will be a 45-mil LLDPE string reinforced liner resistant to UV light, petroleum hydrocarbons, salt and acidic/alkaline solutions. Liner compatibility meets the conductivity requirement of 1×10^{-9} cm/sec.

The secondary liner will be a 30-mil LLDPE string reinforced liner that is composed of material that is resistant to ultraviolet light, petroleum hydrocarbons, salt solutions, acidic solutions and alkaline solutions. Liner compatibility meets the conductivity requirement of 1×10^{-9} cm/sec. Both liners will be used for initial leak detection and shall cover the bottom and sides of the containment including the minimum three (3) feet of freeboard per NMOCD 19.15.17.11.G.9. This containment is an above grade tank, and the liners will be secured to the top of the AST using steel bolts.

Liner material will be factory welded by the manufacturer qualified personnel. The liner material will overlap a minimum of 4 inches. No horizontal seam will be placed within 5 feet of the slopes toe. All welding and testing will be completed by qualified personnel.

External discharge or suction lines will not penetrate the line. The liner will be protected from excessive hydrostatic force and potential mechanical damage, and the point of discharge and suction from the containment is specifically designed to eliminate damage from suction or discharge in and out of the containment.

3.3 Leak Detection System

The containment has been designed with a leak detection system made up of a conductive geo-composite material at least 200mm thick. The AST is comprised of a 30-mil liner base, with a 200 mm geocomposite material for leak detection, and overlaid with an additional 45 mil liner. The bottom of the containment will have a 6" PVC pipe inserted between the liners. The pipe will be checked during the weekly inspection for the presence of water using a water level meter. In the event water is detected in the leak detection sump, the water will be immediately pumped out to determine if the water will return.

3.4 Signage

Enduring Resources, LLC will sign the containment with an upright sign no less than 12" by 24" with lettering not less than 2" in height in a conspicuous place near the containment. Enduring Resources, LLC will provide the operator's name, location of the containment by quarter-quarter or unit letter, Section, Township, Range and emergency telephone numbers.

3.5 Entrance Protection

Enduring Resources, LLC will surround the containment with the required fencing structure per 19.15.34.12.D.1&2. All gates leading in and out of the containment will be closed and locked when personnel are not on-site. The fencing will be kept in good repair and shall be inspected as part of the weekly inspection performed at the containment facility.

3.6 Wildlife Protection

Enduring Resources, LLC will utilize the Above Ground Storage Tank's bird netting provided with the AST by the contractor. The containment will be inspected weekly for dead migratory birds and will be reported accordingly.

4. MAINTENANCE AND OPERATING PLAN

In accordance with Rule 19.15.34 the following information describes the operation and maintenance of recycling containments on Enduring's locations.

4.1 Inspection Timing

Enduring Resources, LLC shall inspect the recycling containment and associated leak detection systems weekly while it contains fluids. A current log of inspections will be maintained, and the log will be made available for review upon division request. If fluids are found in the sump, the fluids will be sampled and then pumped out.

4.2 Maintenance

1. Enduring Resources, LLC shall maintain and operate the recycling containment as follows:
 - A. Removing any visible layer of oil from the surface of the containment.
 - B. Maintaining at least 3' of freeboard at each containment
 - C. The injection or withdrawal of fluids from the containment shall be 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 pipes
 - D. If the containment's primary liner is compromised above the fluid's surface, Enduring Resources, LLC will repair the damage or initiate replacement of the primary liner within 48 hours of discovery or seek an extension from the division district office.
 - E. If the primary liner is compromised below the fluid's surface, Enduring Resources, LLC will remove all fluid above the damage or leak within 48 hours of discovery, notify the divisions district office and repair the damage or replace the primary liner.
 - F. The containment will be operated in such a way to prevent the collection of surface water.
 - G. Enduring Resources, LLC will install, or maintain on site, an oil absorbent boom or other device to contain an unanticipated release.
 - H. Enduring Resources, LLC will not store or discharge any hazardous waste at the facility or within the containment.

4.3 Cessation of Operations

Enduring Resources, LLC will report the cessation of operations or if less than 20% of the total fluid capacity is used every six months following the first withdrawal of produced water for use to the appropriate division district office. If additional time is needed for closure, Enduring Resources, LLC will request an extension from the appropriate division district office prior to the expiration of the initial six month time period.

5. CLOSURE PLAN

In accordance with Rule 19.15.34.14 the following information describes the closure requirements of recycling containments on Enduring Resources, LLC locations.

All closure activities will include proper documentation and be available for review upon request and will be submitted to the OCD within 60 days of closure. Closure report will be filed on C-147 and incorporate the following:

- Details on capping and covering, where applicable
- Inspection Reports
- Sampling Results

Once Enduring Resources, LLC has ceased operations, all fluids will be removed within 60 days and the containment shall be closed within six months.

5.1 Fluid Removal

The containment will be closed by first removing all fluids and containment contents. All synthetic liners and associated leak detection equipment will be removed and disposed of at a division-approved facility. All other equipment associated with the continued operation of the recycling containment will be removed from the location.

5.2 Soil Sampling

Enduring Resources, LLC will test the soils beneath the containment for contamination with a five-point composite sample which includes stained or wet soils, if any, and that sample shall be analyzed for the constituents listed in Table I below:

Components	Test Method	51' - 100' GW Depth Limit (mg/kg)	>100' GW Depth Limit (mg/kg)
Chloride	EPA 300.0	10,000	20,000
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500	2,500
GRO + DRO	EPA SW-846 Method 8015M	1,000	1,000
BTEX	EPA SW-846 Method 8021B or 8260B	50	50
Benzene	EPA SW-846 Method 8021B or 8260B	10	10

- a. If any containment concentration is higher than the parameters listed in Table I, Enduring Resources, LLC will receive approval before proceeding with closures as the division may require additional delineation upon review of the results.

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

5.3 Reclamation

The containment will be an above ground AST on an existing pad that will be used for future oil and gas development. The location will not require backfill or reclamation at this time, as the pad will be used for the continued development of the Enduring lease in this area.

6. IWATERS REPORT & GROUNDWATER TEST WELL

Page 1 of 1



New Mexico Office of the State Engineer Wells with Well Log Information

No wells found.

PLEASE Search:

Section(s): 17

Township: 22N

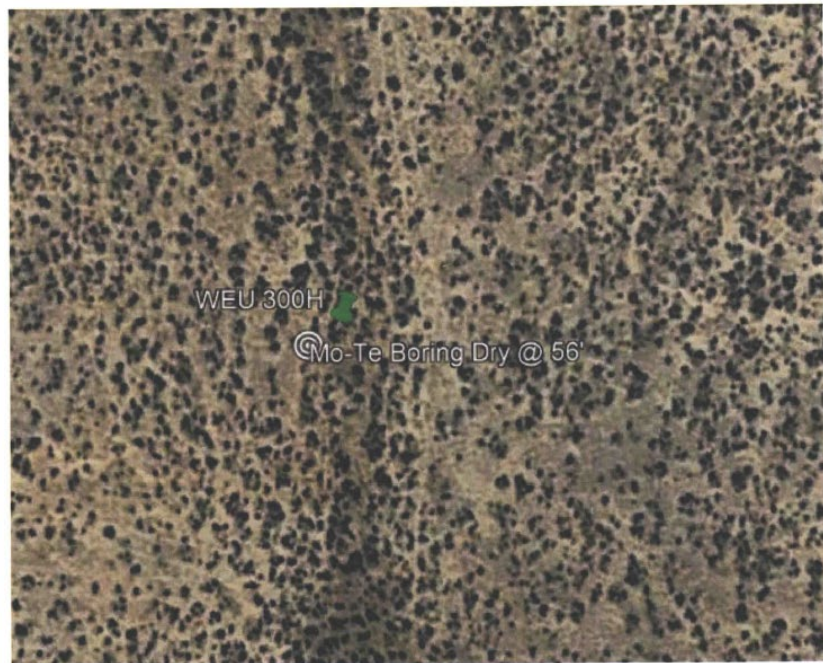
Range: 07W

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

8/28/18 8:44 AM

WELLS WITH WELL LOG INFORMATION

- On September 18, 2018, Mo-Te Drilling drilled a boring to 60' below ground surface at the WEU 300H Pad. Vanessa Field w/ NMOCD was on-site
- On September 19, 2018, James McDaniel, Enduring Resources, and Vanessa Fields, NMOCD returned to the location to check the boring for water. The boring was tagged DRY at 56' below ground surface.
- Vanessa Fields determined that the location would meet the siting criteria for groundwater at over 50' below ground surface based on these results. Email confirmation is attached for reference.



James McDaniel

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Wednesday, September 19, 2018 2:31 PM
To: James McDaniel; Smith, Cory, EMNRD; Powell, Brandon, EMNRD
Subject: RE: WEU 300H Recycling Containment Water Test Boring

Good afternoon James,

Per our conversation today, along with discussing with Santa Fe and today's site assessment on the WEU 300H, the groundwater is 50' or greater as there was no fluid observed in the open hole after setting for 24 hours.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: James McDaniel <JMcDaniel@enduringresources.com>
Sent: Wednesday, September 19, 2018 2:25 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: WEU 300H Recycling Containment Water Test Boring

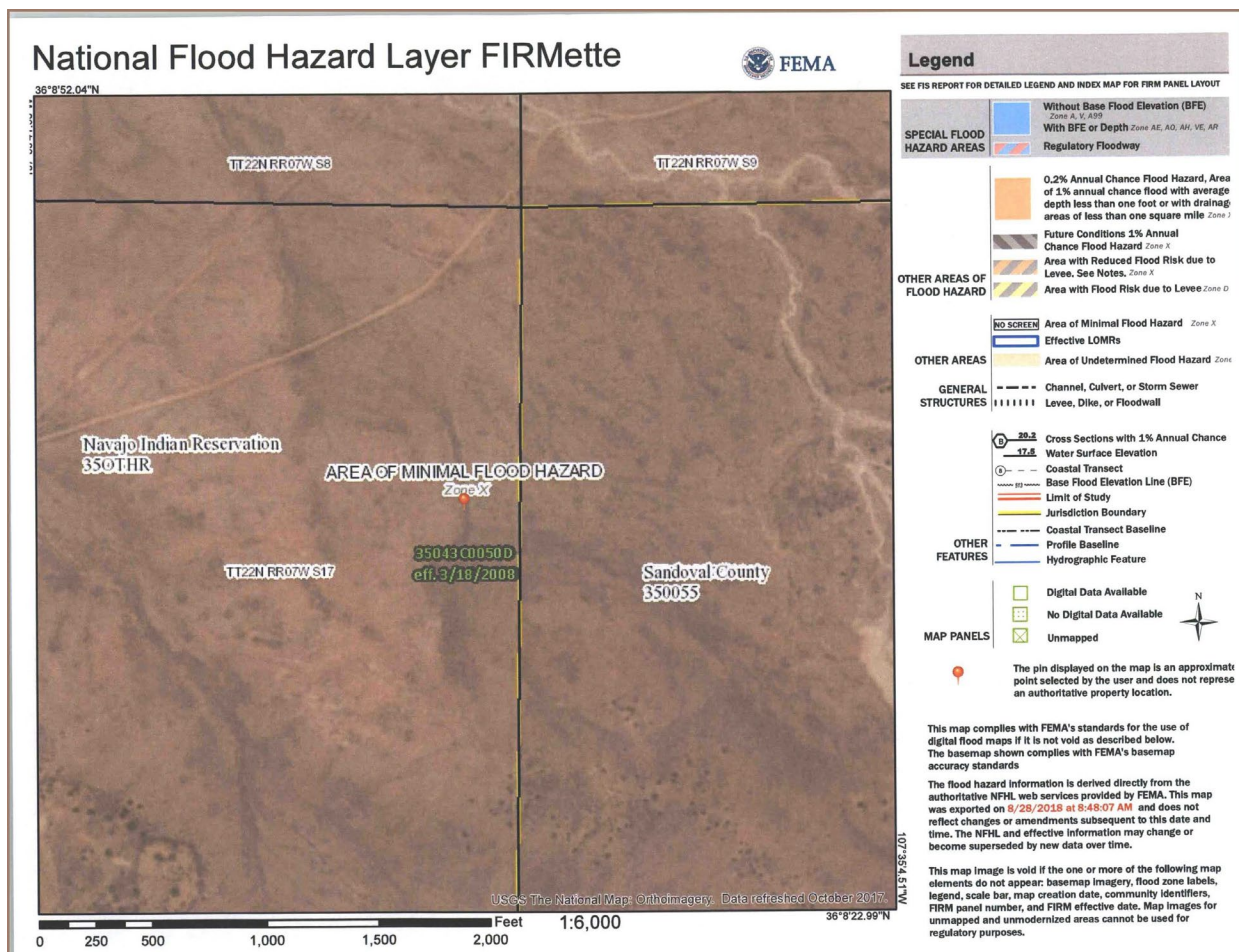
Vanessa,

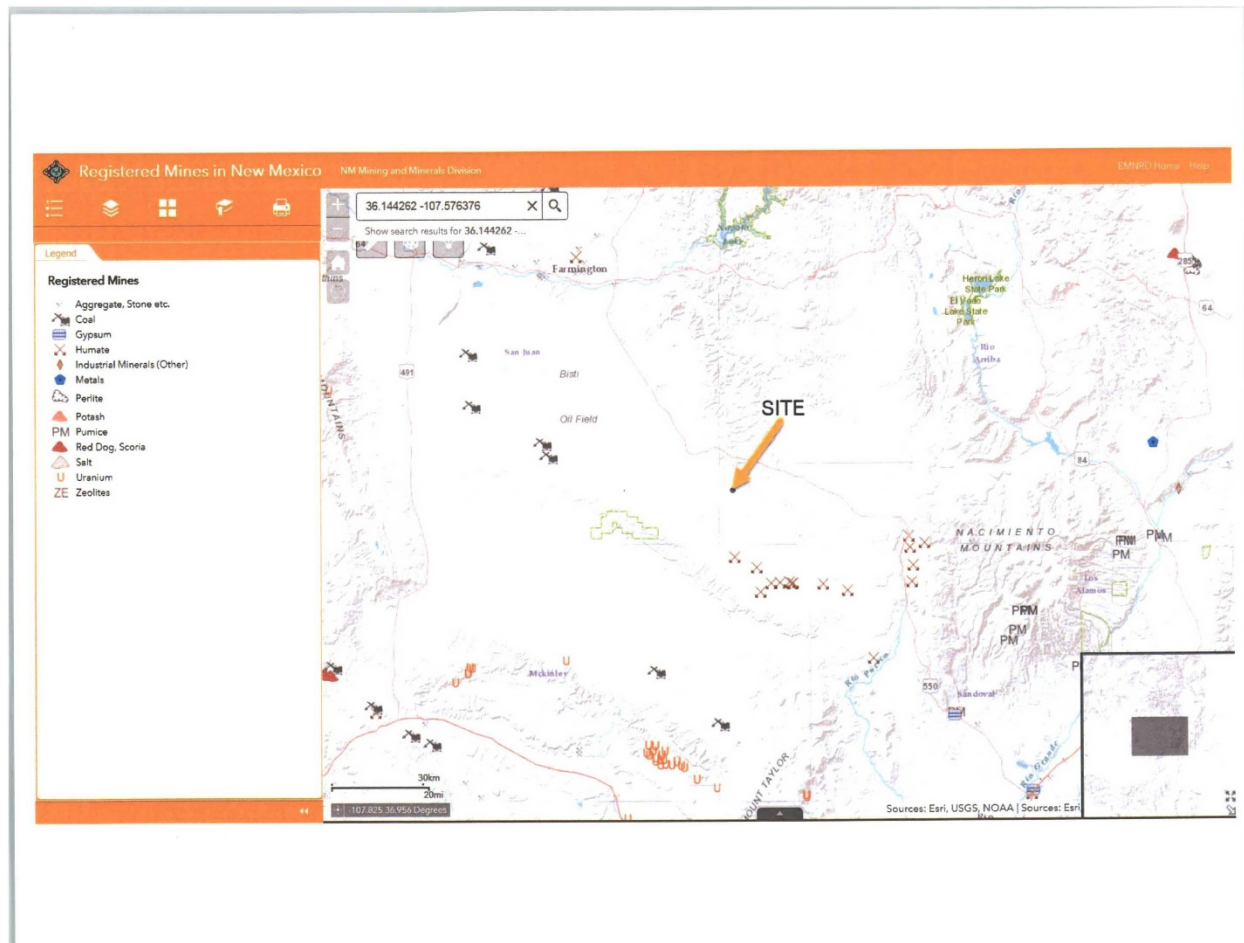
Based on our conversation today, the groundwater at the WEU 300H Pad is considered to be 50' or greater below the surface, allowing this site to meet the criteria for a Recycling Containment as far as depth to groundwater is concerned. Thank you for your time in regards to this project.

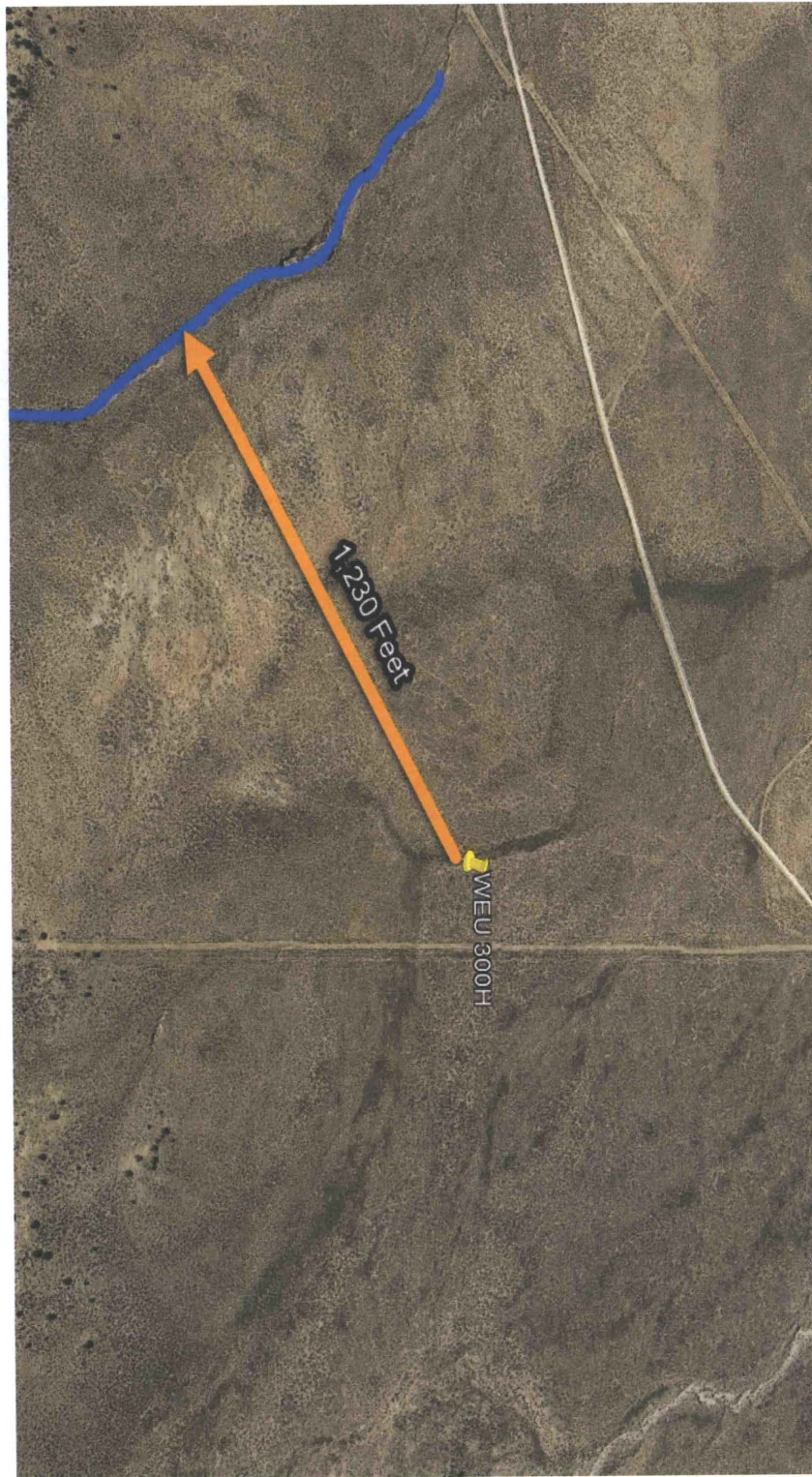
James McDaniel
HSE Supervisor
Enduring Resources
CSP #30009
CHMM #15676
Office: 505-636-9731
Cell: 505-444-3004
jmcdaniel@enduringresources.com

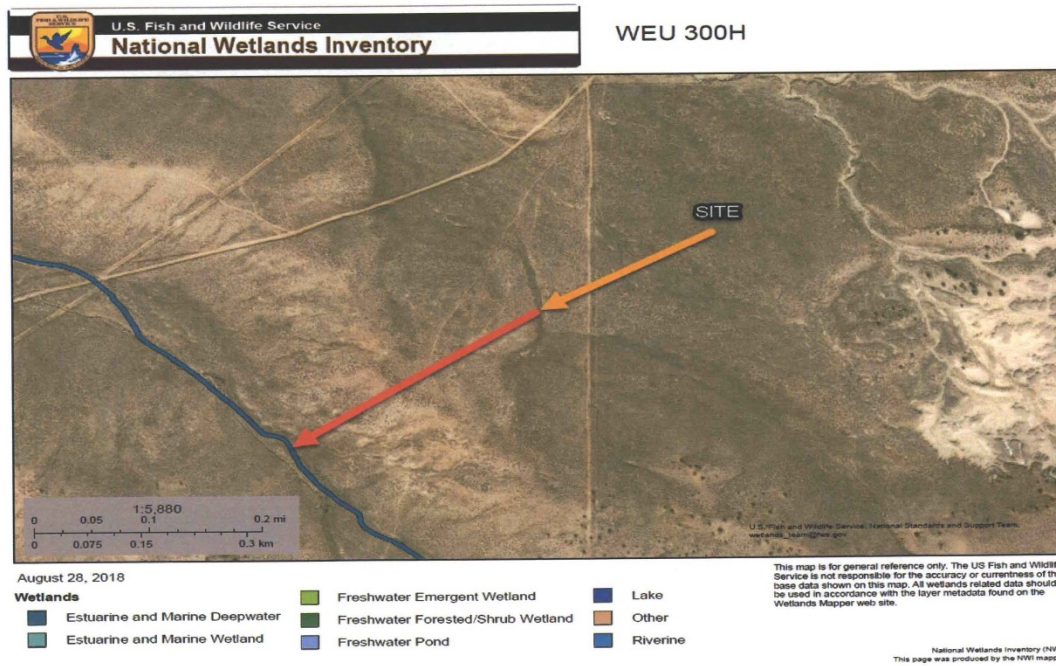


7. MAPS

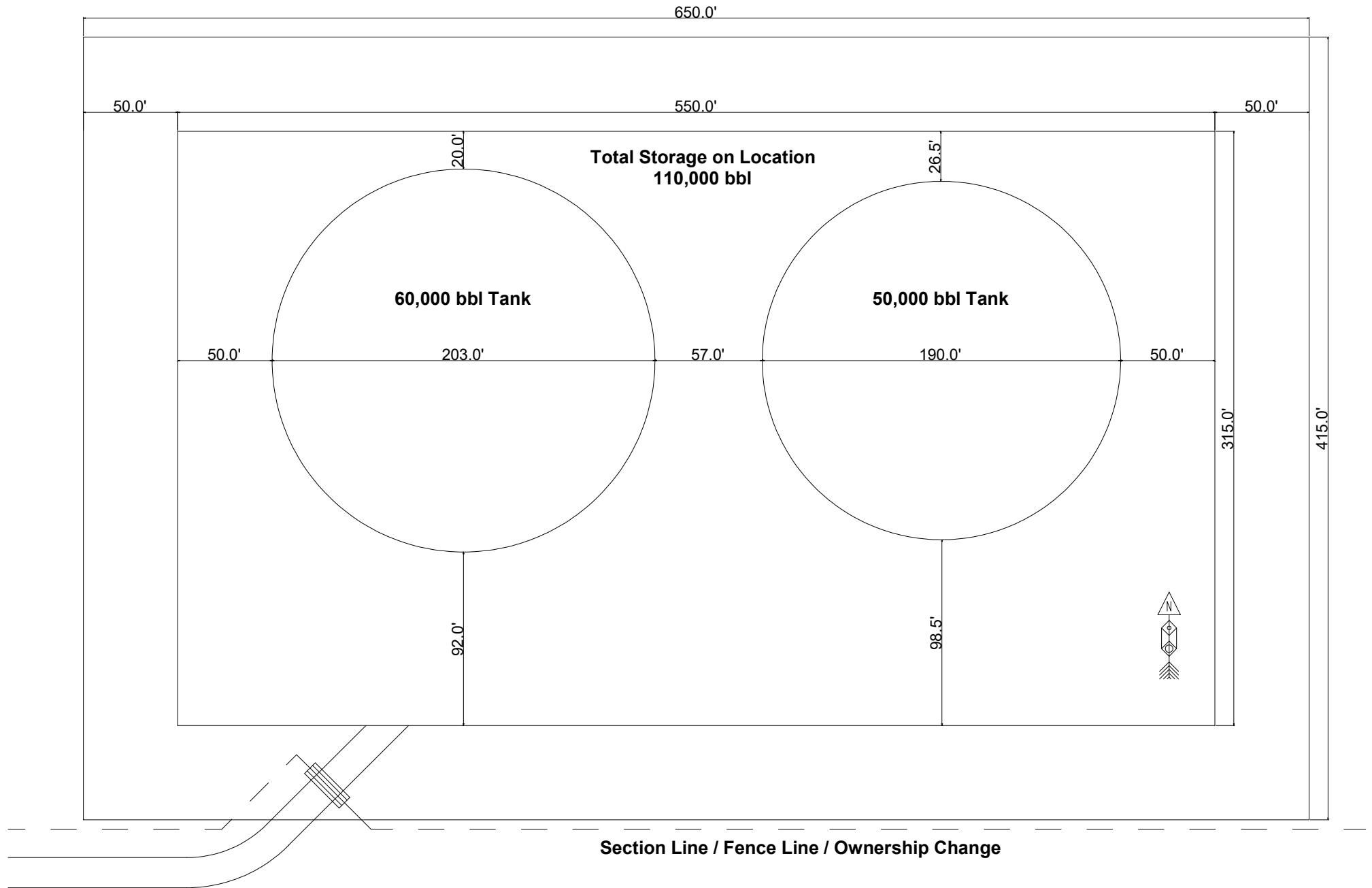


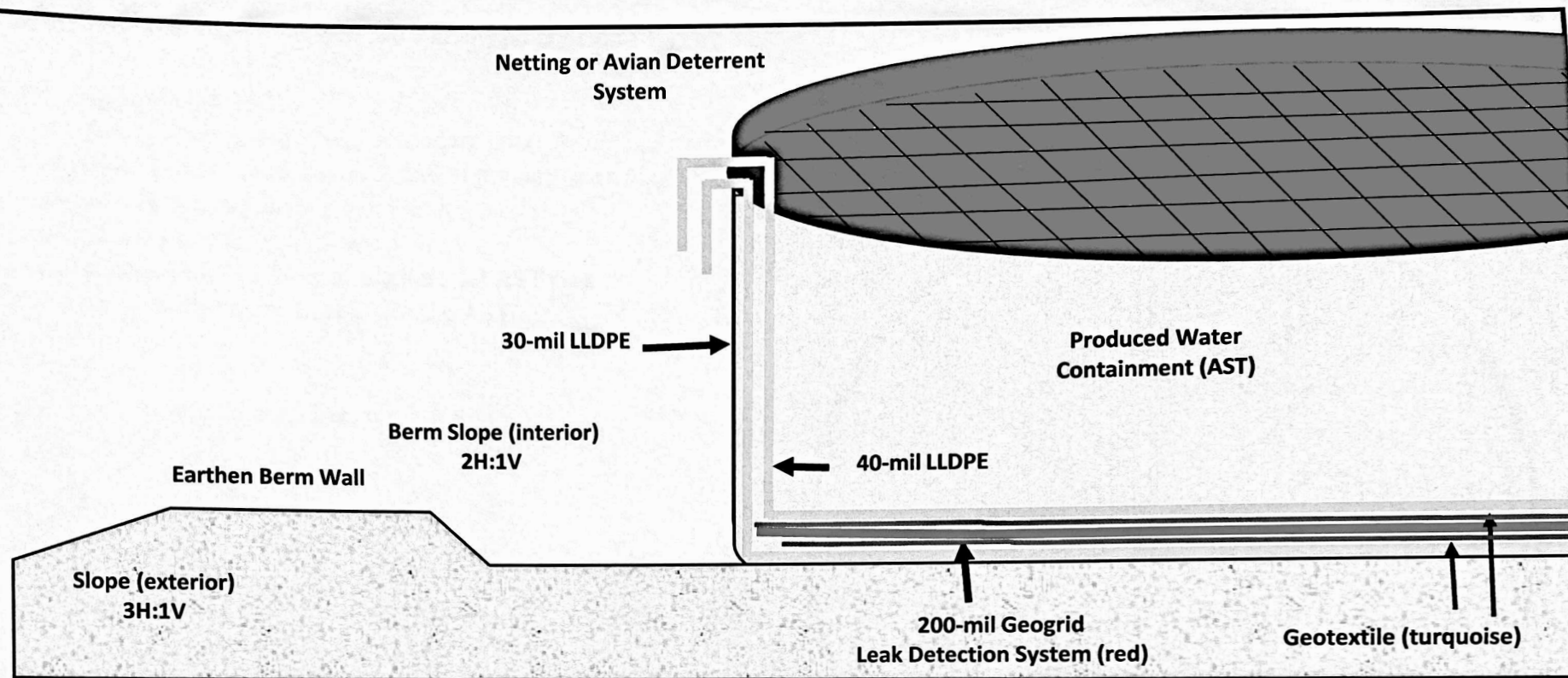






ATTACHMENT A - CONTAINMENT CONSTRUCTION PLANS





Description of Leak Detection System

- 40-mil LLDPE comprise primary liner and 30-mil LLDPE comprise the secondary liner
- 200-mil geogrid drainage layer lies between the primary and secondary liner per Plate 2
- Geotextile between the geogrid and each liner
- > 3-inch deep sump excavated on down slope side of AST per Sump Design Drawing
- A small hose runs from the collection sump to top of AST via tube (see Section D)
- Every week, a portable self-priming peristaltic pump connects to the leak detection system.
- The self-priming pump discharge hose runs back into the AST, on top of the primary liner
- If fluid is detected, it is tested for conductance to determine the origin of the water (i.e. produced water or condensation)

Use laser level to determine slope of pad and low point of AST

200 mil geogrid placed

above 8-oz geotextile and 30-mil secondary liner

inside of AST after set up, before install of primary liner

below 40-mil primary liner

8-oz geotextile is placed

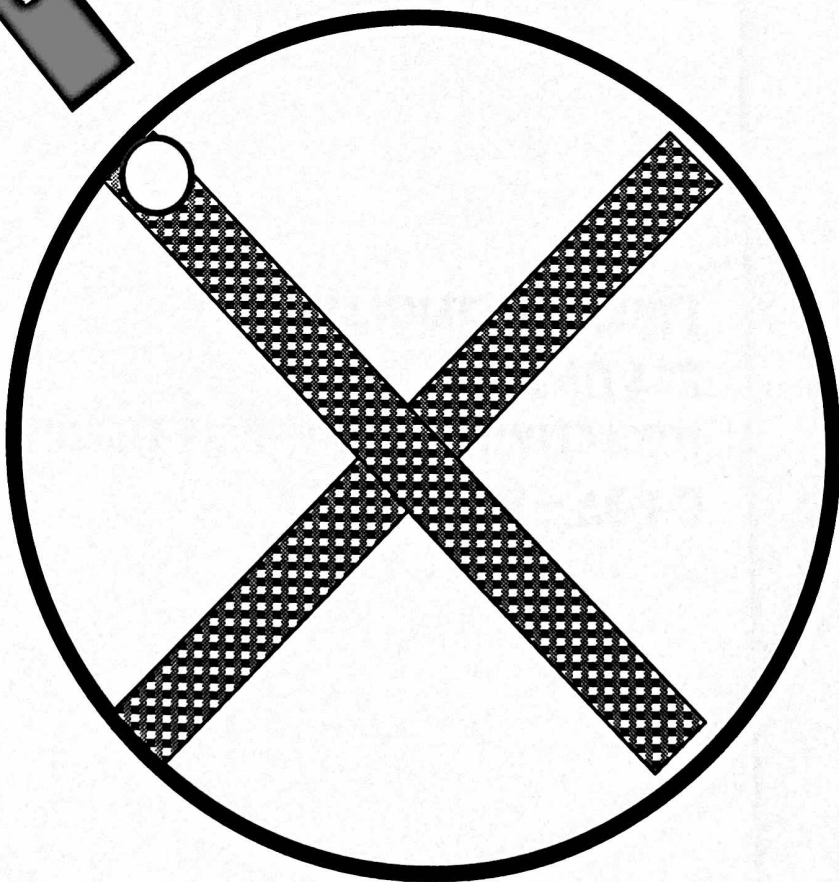
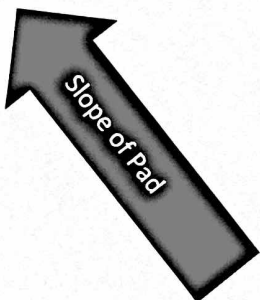
over the 30-mil LLDPE liner inside the steel AST ring

under the 40-mil primary liner inside the AST

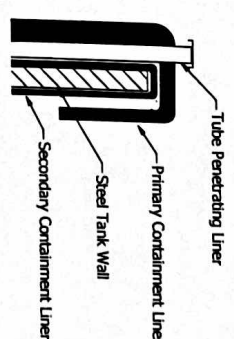
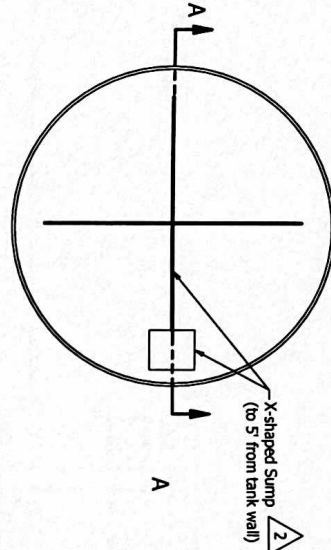
Sump at lowest point of the AST set up



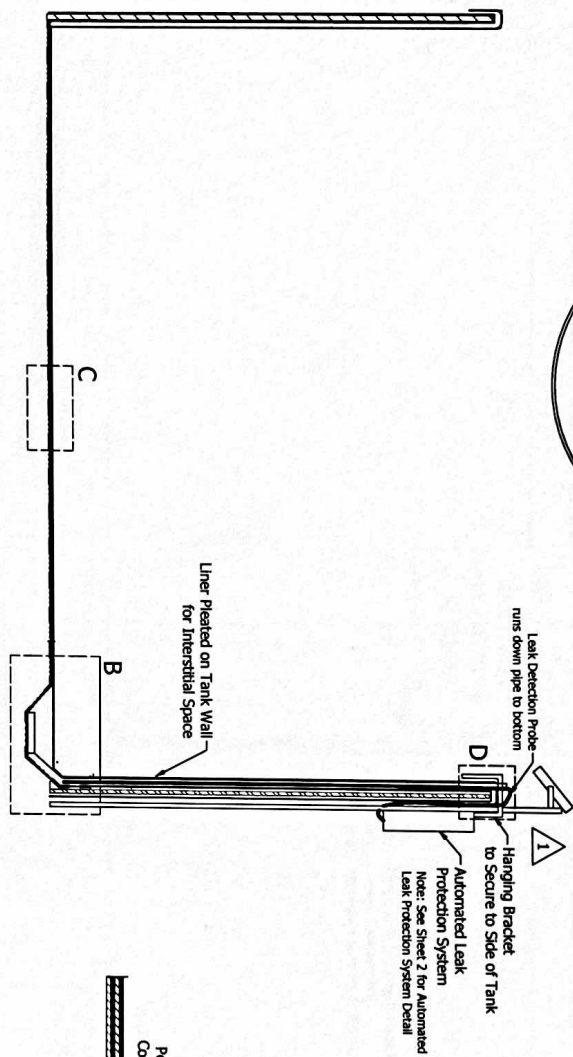
Sump Location



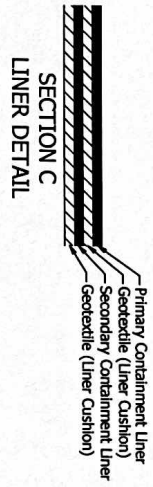
WWS DOUBLE-LINED FRAC WATER TANK SYSTEM



SECTION D
TUBE DETAIL
(Automated Leak Detection
System Removed for Clarity)



SECTION B
SUMP DETAIL



SECTION C
LINER DETAIL

VIEW A-A
TANK DETAIL



LUCID

DRAFTING & DESIGN LLC

sarah@luciddrafting.com 307.752.7388

REVISION HISTORY

REV	DESCRIPTION	DATE	BY
0	INITIAL DWG	10/29/2015	SES
1	ADDED LEAK DETECTION SYSTEM	11/6/2015	SES
2	REVISED SUMP	11/6/2015	SES
3	ADDED GEOTEXTILE LINER AND BETWEEN LINERS	11/24/15	SES

TITLE	Double-Lined Frac Tank System
CUSTOMER	PROJECT/DOB
WWS Double-Lined Tank System	APPROVAL
DATE	10/28/2015
DATE	10/28/2015



WELL WATER SOLUTIONS

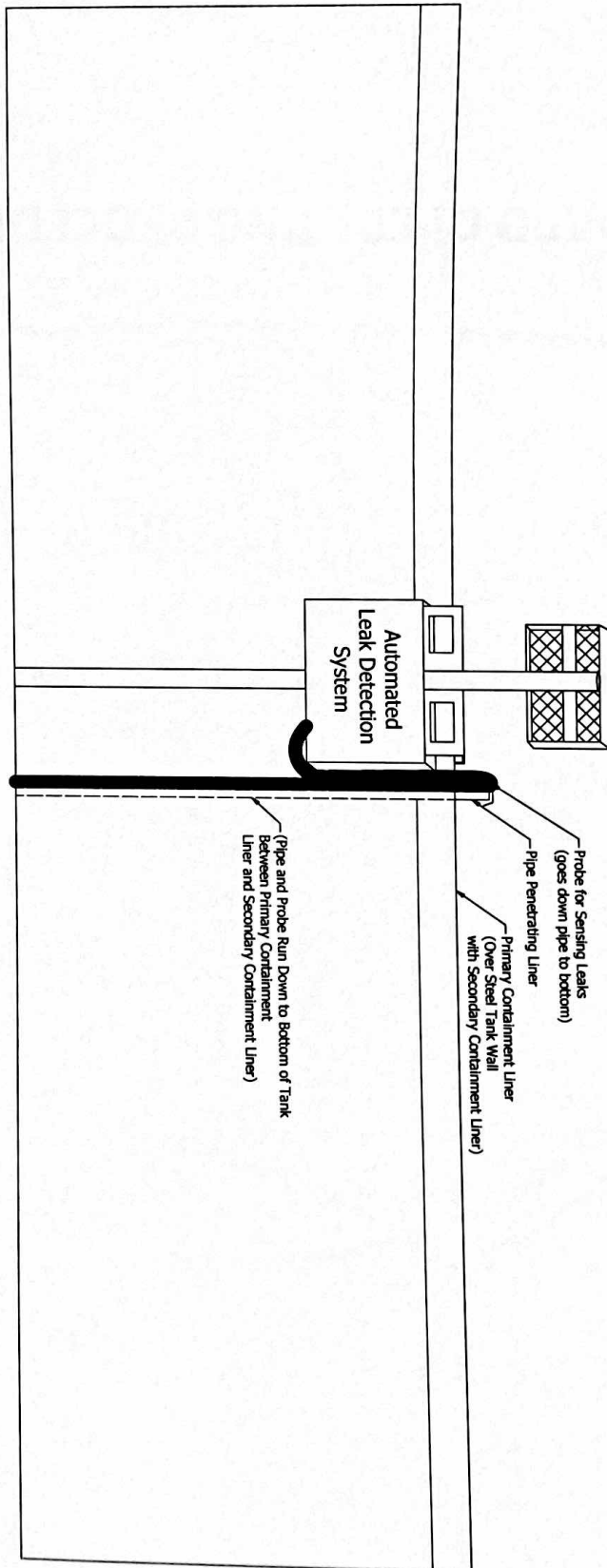
AND RENTALS, INC.

DWG NO. LDD15-WWS-02

SHEET 1 OF 2

REV 3

1 AUTOMATED LEAK DETECTION SYSTEM

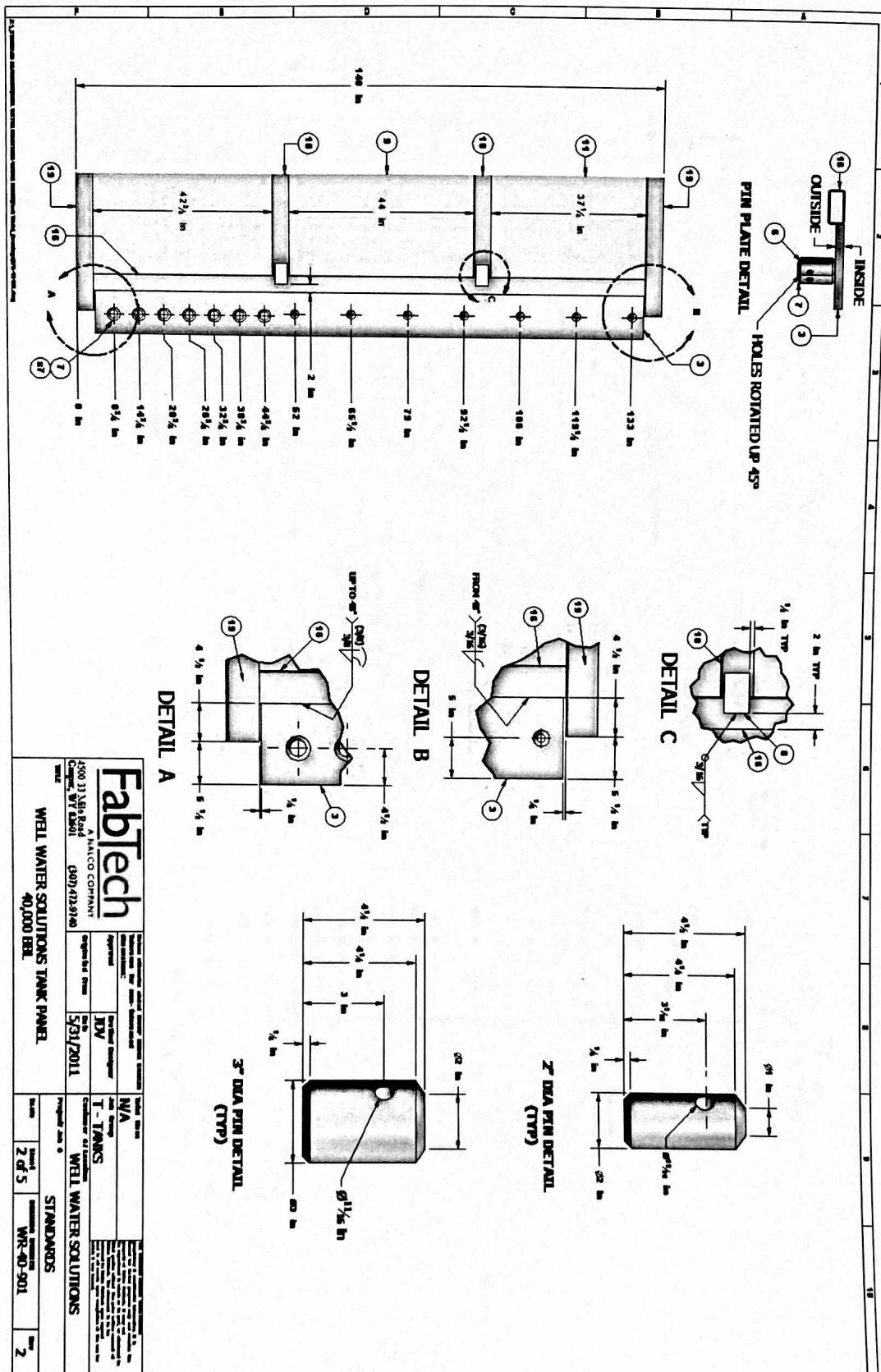


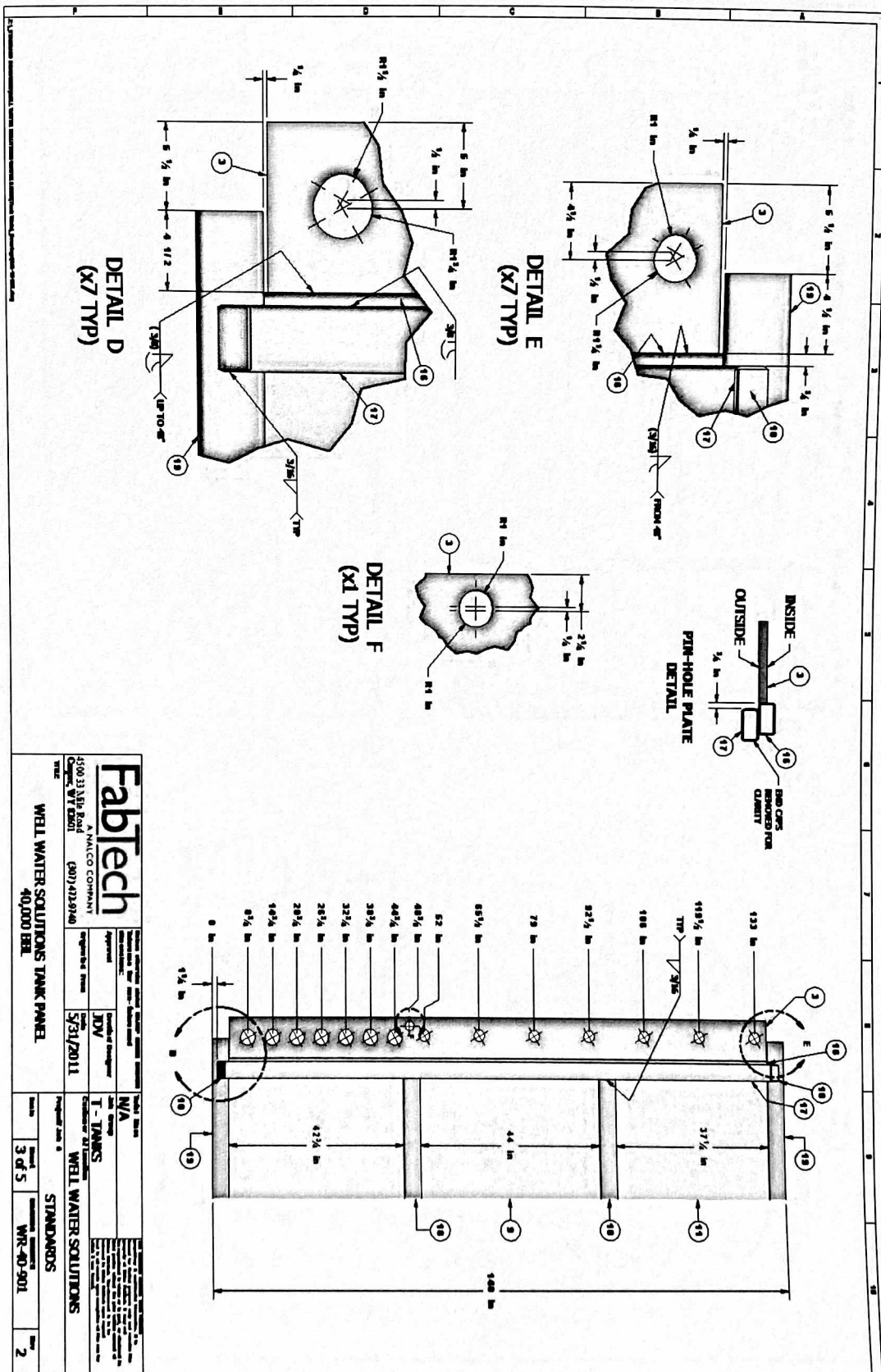
TITLE		Double-Lined Frac Tank System	
CUSTOMER		WWS Double-Lined Tank System	
PROJECT/JOB		WWS Double-Lined Tank System	
APPROVAL		DATE 10/28/2015	
DRAFTER		DATE 10/28/2015	
SES		DATE 10/28/2015	

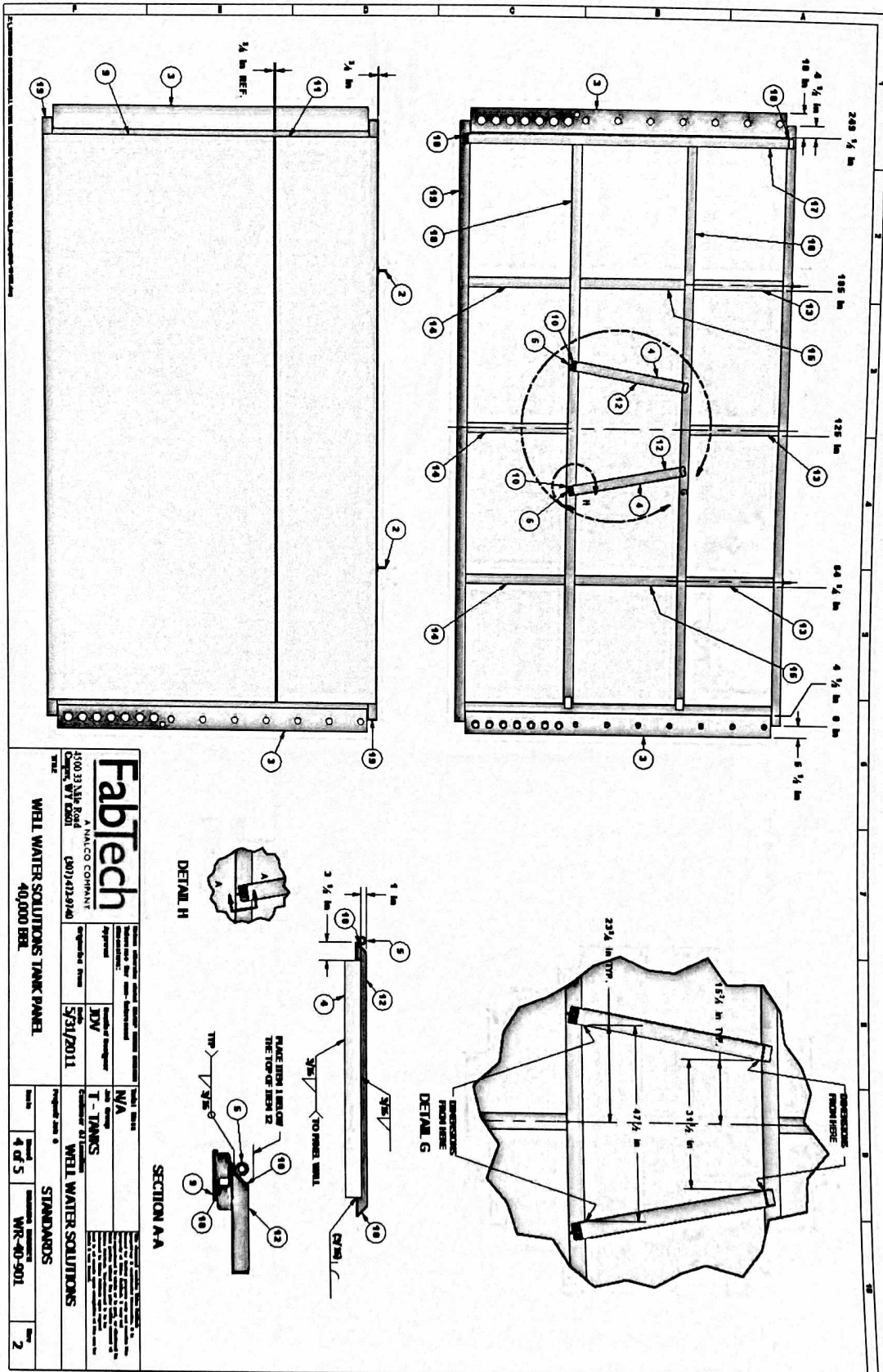
WELL WATER SOLUTIONS		AND RENTALS, INC.	
SIZE	C	DWG NO.	1DD15-WWS-02
REV	3	SHEET 2 OF 2	

WWS AST Engineering Specs

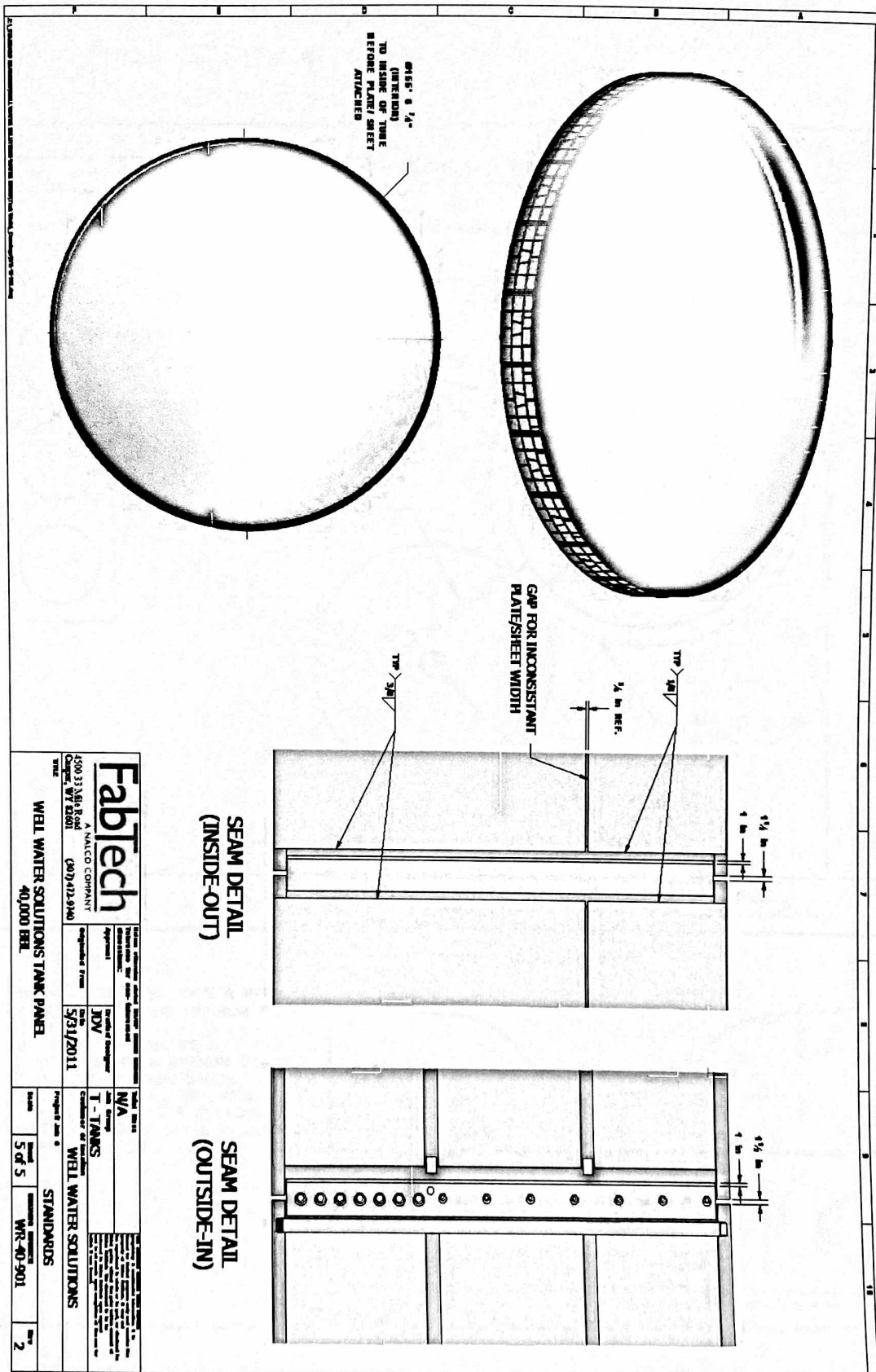
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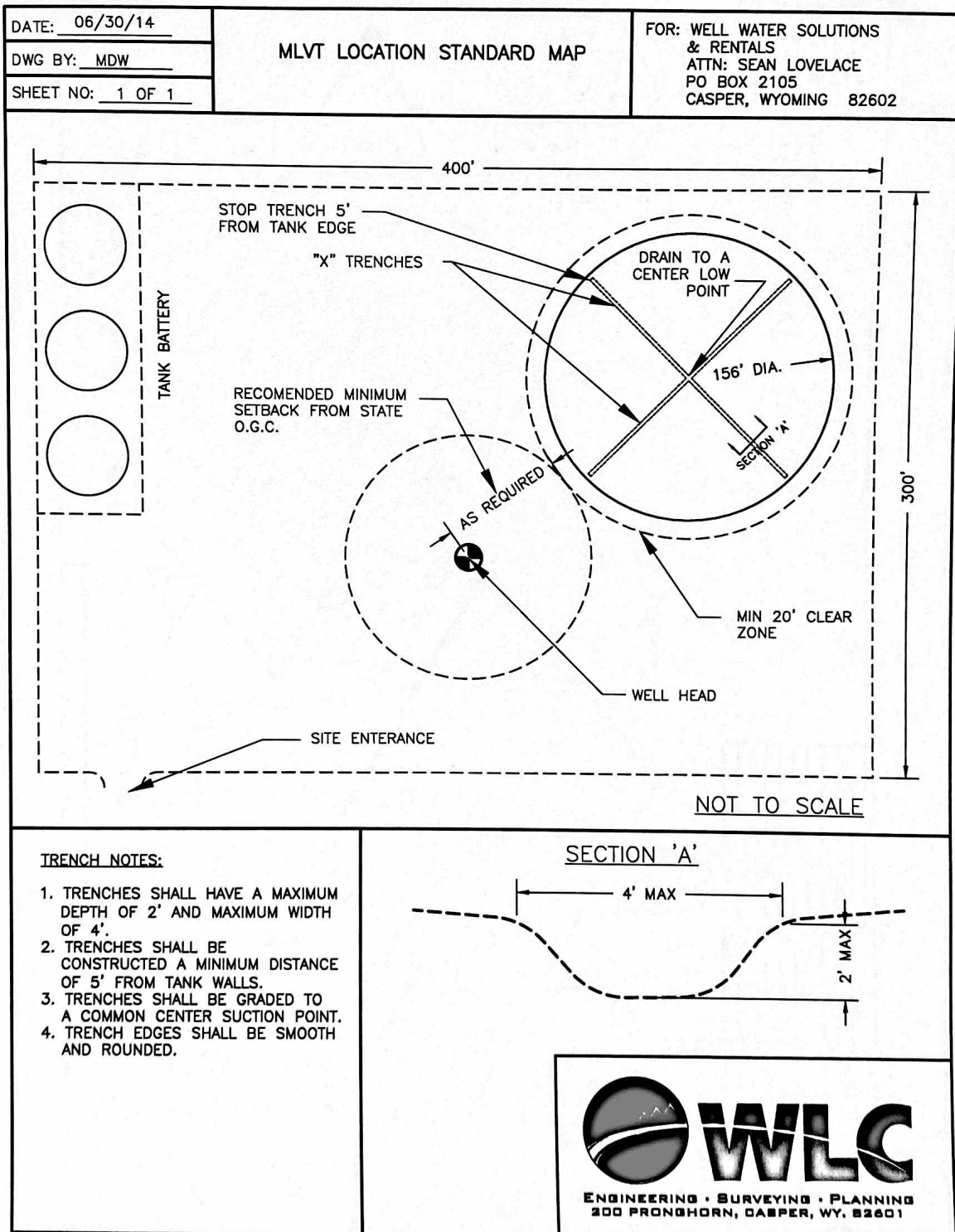




FabTech A NALCO COMPANY 4500 33 Way Road Ogden, UT 84401 (801) 412-9140		Revision: 01 Approved: JIV Date: 5/31/2011 Prepared by: JIV	
WEL WATER SOLUTIONS TANK PANEL 40,000 BEU		WEL WATER SOLUTIONS STANDARDS 4 of 5 WIR-40-901	

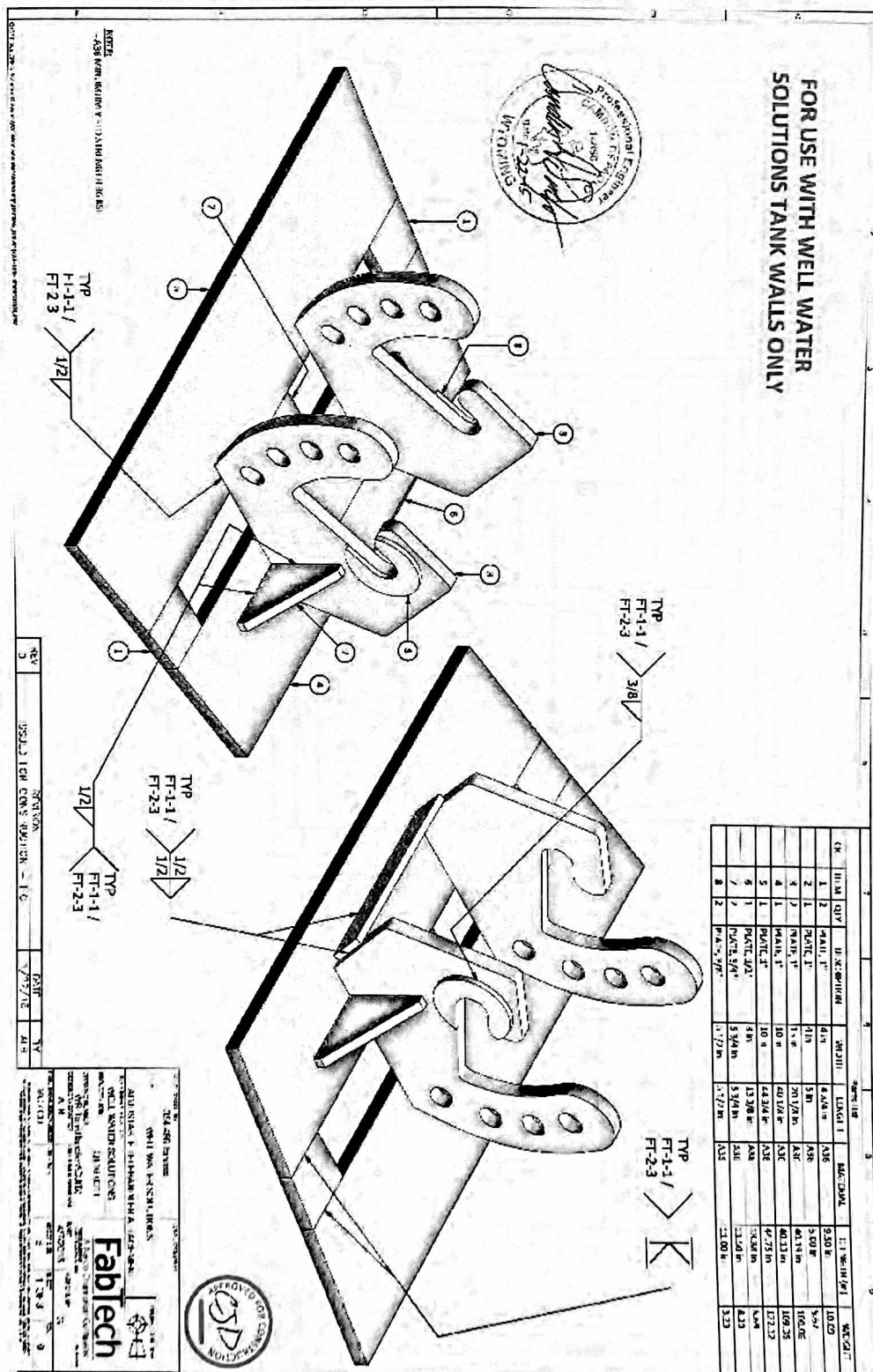


Section 1.09 Proper AST Setback and Location Sample



Section 1.10

JGL Approved Telehandler Attachment with Load Chart





TANK SIZE CHART

TANK SIZE BBLs	PANEL COUNT	INSIDE DIAMETER (FEET)	VOLUME BBLs	BBLs/INCH	SECONDARY CONTAINMENT (ADD 2 PANELS)	SECONDARY CONTAINMENT DIAMETER	TOTAL FEET OF CONTAINMENT
6,000	9	60' 2"	6,090	43.5	11	75'	234'
10,000	12	81' 2"	10,753	76.8	14	95'	298'
13,000	13	87' 10-5/8"	12,609	90.1	15	101'	318'
17,000	15	101.4285	16,800	120	17	115'	361'
20,000	16	101' 5-1/8"	19,115	136.53	18	122'	384'
22,000	17	114' 11-7/16"	21,564	154.03	19	135'	426'
27,000	19	128' 6-1/4"	26,954	192.53	21	142'	446"
30,000	20	135' 3-3/8"	29,867	213.35	22	149'	468'
33,000	21	142' 0-9/16"	32,928	235.2	23	156'	489'
36,000	22	148' 9-11/16"	36,139	258.14	24	163'	510'
40,000	23	155' 6-7/8"	39,499	282.14	25	170'	532'
43,000	24	162' 4-1/16"	43,008	307.2	26	176'	553'
47,000	25	169' 1-3/16"	46,667	333.34	27	183'	574'
50,000	26	175' 10-5/16"	50,475	360.54	28	190'	595'
55,000	27	182' 7-9/16"	54,433	388.8	29	196'	617'
60,000	28	189' 4-11/16"	58,539	418.14	30	203'	638'
62,500	29	196' 1/16"	62,500	446.43	31	210'	658'
67,000	30	202' 10 6/16"	66,885	477.75	32	216'	678'
72,000	31	209' 7-7/16"	71,705	512.18	33	223'	701'
77,000	32	216' 4-9/16"	76,405	545.75	34	230'	722'
81,000	33	223' 1-11/16"	81,254	580.39	35	237'	744'

Well Name: W ESCAVADA UNIT	Well Location: T22N / R7W / SEC 17 / NENE / 36.143847 / -107.589762	County or Parish/State: SANDOVAL / NM
Well Number: 300H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G13111802, N0G13111806	Unit or CA Name: NMNM135218A	Unit or CA Number: NMNM135218A
US Well Number: 3004321303	Well Status: Approved Application for Permit to Drill	Operator: ENDURING RESOURCES LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 07/29/2021	Time Sundry Submitted: 04:45
Date proposed operation will begin: 08/31/2021	

Procedure Description: Enduring Resources plans to construct a Recycling Facility and Recycling Containment on the W Escavada Unit #300H well pad for purposes of treating and recycling produced water for re-use in Enduring's drilling and completion activities. This location is on Indian Tribal Trust lands which is administered by the BLM/FFO. Attached is a copy of the full NMOCD C-147 application/registration packet for reference. A copy of this Sundry packet will also be sent via email to the FIMO office. *This sundry and email to the FIMO office will serve to comply with NMAC 19.15.34 requirement to notify the surface owner of the submittal of the C-147 to NMOCD.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Well Name: W ESCAVADA UNIT	Well Location: T22N / R7W / SEC 17 / NENE / 36.143847 / -107.589762	County or Parish/State: SANDOVAL / NM
Well Number: 300H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NOG13111802, NOG13111806	Unit or CA Name: NMNM135218A	Unit or CA Number: NMNM135218A
US Well Number: 3004321303	Well Status: Approved Application for Permit to Drill	Operator: ENDURING RESOURCES LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: HEATHER RILEY

Signed on: JUL 29, 2021 04:42 PM

Name: ENDURING RESOURCES LLC

Title: Sr. Project Manager

Street Address: 470 WOLVERINE DRIVE #9

City: BAYFIELDState: CO

Phone: (970) 749-8747

Email address: HEATHERRILEY@EIS-LLC.COM

Field Representative

Representative Name: Alex Campbell

Street Address: 1050 17th Street, Suite 2500

City: DenverState: COZip: 80265

Phone: (303)350-5107

Email address: acampbell@enduringresources.com

From: [Heather Riley](#)
To: ["maureen.joe@bia.gov"](mailto:maureen.joe@bia.gov)
Cc: [Mindy Paulek](#); [Gabrielle Riley](#)
Subject: WEU #300H; API 30-043-21303 - Recycling Facility and Containment
Date: Thursday, July 29, 2021 4:59:00 PM
Attachments: [20210729 EG WEU300H NOI RecyclingFacAndCont FINAL HR.pdf](#)
[1 C147 AppPacket EnduringResources WEU#300H 20210728 GR v3 FINAL.pdf](#)

Good afternoon Maureen. Enduring Resources is filing a C-147 Application with the NMOCD and a Sundry with the BLM for the above mentioned wellpad. As part of the NMOCD requirements, a notice must be sent to the surface owner when a C-147 is submitted. Please accept this email with the attachments as official surface owner notification.

Please don't hesitate to reach out if you have any questions.

Heather Riley
Sr. Project Manager
Energy Inspection Services, LLC
(970) 749-8747

District I

1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 37259

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 37259
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
venegas	NMOCD has reviewed and approved the recycling containment permit application and related documents, submitted by [372286] ENDURING RESOURCES, LLC on July 29, 2021 for 3RF-50 - W ESCAVADA UNIT 300H – Facility ID FVV2123855557 in Unit Letter A - Section 17 - Township 22N - Range 07W, Sandoval County, New Mexico. The application is approved with conditions.	8/27/2021

WEU 300 AST Inspection Sheet Permit #: 3RF 50 Sec: 17 Twn: 22N Rge: 7W Sandoval County, NM						
Date	Water level in Leak Detection	Condition of Bird Netting?	Evidence of bird mortality found?	Surface is free of oil?	Site is free of leaks, spills or releases	Comments
9/7/21	0"	Good	No	Yes	Yes	
9/14/21	0"	Good	No	Yes	Yes	
9/21/21	0"	Good	No	Yes	Yes	
9/28/21	0"	Good	No	Yes	Yes	
10/5/21	0"	Good	No	Yes	Yes	
10/12/21	0"	Good	No	Yes	Yes	
10/19/21	0"	Good	No	Yes	Yes	
10/26/21	0"	Good	No	Yes	Yes	
11/2/21	0"	Good	No	Yes	Yes	
11/9/21	0"	Good	No	Yes	Yes	
11/16/21	0"	Good	No	Yes	Yes	
11/23/21	0"	Good	No	Yes	Yes	
11/30/21	0"	Good	No	Yes	Yes	
12/7/21	0"	Good	No	Yes	Yes	
12/14/21	0"	Good	No	Yes	Yes	
12/21/21	0"	Good	No	Yes	Yes	
12/28/21	0"	Good	No	Yes	Yes	
1/4/22	0"	Good	No	Yes	Yes	
1/11/22	0"	Good	No	Yes	Yes	
1/18/22	0"	Good	No	Yes	Yes	
1/25/22	0"	Good	No	Yes	Yes	

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, May 5, 2022 10:37 AM
To: Chris Jones; Heather Huntington; Khem Suthiwan
Subject: 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557]. Application ID: 99187
Attachments: C-147. 3RF-50 - W ESCAVADA Extension Cessation of Operations. 05.05.2022.pdf

3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557].

Mr. Jones,

NMOCD has reviewed the cessation of operations extension request for 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] received from [372286] ENDURING RESOURCES, LLC on April 18, 2022. The extension of the cessation of operations is approved with the following conditions of approval:

- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] registration/permit expires on July 21, 2026.
- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] extension of cessation of operations is approved from February 01, 2022, to August 1, 2022. Per NMAC 19.15.34.13.C extensions are considered for a maximum length of six months.
- [372286] ENDURING RESOURCES, LLC will maintain a liquid level in the containment that is at least equal to the weight of the liner plus 20%. [372286] ENDURING RESOURCES, LLC may maintain a higher liquid level if they choose.
- [372286] ENDURING RESOURCES, LLC will provide written notice to [OCD Online](#) at least 72 hours, but no more than one week, prior to the recommencement of operations. Recommencement of recycling operations means that the operator plans to resume moving fluids through the containment and discharging fluids from the containment.
 - At the resumption of recycling operations, [372286] ENDURING RESOURCES, LLC is required to perform an incremental fluid level test for containment liquid levels above the minimum liquid level.
 - [372286] ENDURING RESOURCES, LLC will fill the containment. [372286] ENDURING RESOURCES, LLC will pause filling operations at every 10% of total fluid capacity above the minimum level.
 - [372286] ENDURING RESOURCES, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operation the leak detection system at the end of the 24-hour period.
 - If there are no liquids present in the leak detection system, [372286] ENDURING RESOURCES, LLC may proceed to fill the next 10% volume and repeat the process until the containment full design capacity minus the 3-feet of freeboard is reached.
 - If liquids are present, [372286] ENDURING RESOURCES, LLC should immediately cease the incremental fill test and perform a liner inspection. [372286] ENDURING RESOURCES, LLC should provide written notice of the fluid detection and liner inspection findings to OCD via [OCD Online](#) using a C-147 (long form) with the "Other" box checked and "Notice of fluid detection" written as the explanation of "Other."
 - Upon notification of fluid detection in the leak detection system, the OCD will verify the source of water (condensation versus produced water).
 - If the detected fluid is confirmed to be condensation, the OCD will issue a written approval to proceed with the incremental fluid level test.
 - If the detected fluid is confirmed to be produced water, [372286] ENDURING RESOURCES, LLC must comply with 19.15.34.13 NMAC. [372286] ENDURING RESOURCES, LLC must provide written notification to [OCD Online](#) on the actions taken to comply with 19.15.34.13 NMAC.

- After fluid is detected in the leak detection system, the incremental fill test cannot continue until after a written approval to proceed is issued by the OCD.
- [372286] ENDURING RESOURCES, LLC must submit copies of the detailed containment inspection records for the prior three months and a report detailing the incremental fluid level test process and results through the [OCD Online](#) system using a C-147 (long form) with the "Other" box checked. "Recommendation of Operations - Incremental Fluid Level Test" should be written as the explanation of "Other." Form C-147 must be completed and include information in sections 1 General Information, 2 Recycling Facility, 3 Recycling Containment, 4 Bonding, and 10 Operator Application Certification. Section 9 Recycling Facility and/or Containment Checklist may also need to be partially completed. Operators should verify that the resumption of operations notification does not result in any changes to the recycling containment operating and maintenance plan or the closure plan. If the recommencement of operations will affect the operating and maintenance plan or closure plan, operators should check those boxes in section 9 and provide updated plans or plan addendums as attachments to the C-147.
- [372286] ENDURING RESOURCES, LLC will continue to operate, maintain, and close 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity).
- A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.
- [372286] ENDURING RESOURCES, LLC may request a variance for an additional extension to the determination of cessation of operations, which will be reviewed on a case-by-case basis and evaluated on their merit. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.
- [372286] ENDURING RESOURCES, LLC must recycle at 20% of the total fluid capacity of produced water from 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] no later than through August 1, 2022, to be considered in operations.

Please let me know if you have any other questions.

Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

(575) 909-0269 | Victoria.Venegas@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



District I

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 99187

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 99187
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the cessation of operations extension request for 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] received from [372286] ENDURING RESOURCES, LLC on April 18, 2022. • 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] extension of cessation of operations is approved from February 01, 2022, to August 1, 2022. [372286] ENDURING RESOURCES, LLC must recycle at 20% of the total fluid capacity of produced water from 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] no later than through August 1, 2022, to be considered in operations. • [372286] ENDURING RESOURCES, LLC may request a variance for an additional extension to the determination of cessation of operations. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.	5/5/2022

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Wednesday, August 24, 2022 3:19 PM
To: Chris Jones; Heather Huntington; Khem Suthiwan
Cc: Kayla White
Subject: 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557].
Attachments: C-147. 3RF-50 - W ESCAVADA UNIT 300H 08.24.2021.pdf

3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557].

Good afternoon,

NMOCD has reviewed the cessation of operations extension request for 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] received from [372286] ENDURING RESOURCES, LLC on July 29, 2022. The extension of the cessation of operations is approved with the following conditions of approval:

- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] registration/permit expires on July 21, 2026.
- 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] extension of cessation of operations is approved from August 1, 2022, to February 1, 2023. Per NMAC 19.15.34.13.C extensions are considered for a maximum length of six months.
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 - [372286] ENDURING RESOURCES, LLC will maintain the liquid level for each 10% volume increase for 24 hours and inspect and operation the leak detection system at the end of the 24-hour period.
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- A minimum of 3-feet freeboard must always be maintained in the recycling containment during operations.
- [372286] ENDURING RESOURCES, LLC may request a variance for an additional extension to the determination of cessation of operations, which will be reviewed on a case-by-case basis and evaluated on their merit. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months. If another cessation of operation is requested, please submit ONLY the following documentation:
 - C-147
 - Letter requesting the extension
 - Copies of the detailed containment inspection records for the prior six months (from August 2022 to February 2023)
- [372286] ENDURING RESOURCES, LLC must recycle at 20% of the total fluid capacity of produced water from 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] no later than through February 1, 2023, to be considered in operations.

Please let me know if you have any other questions.

Regards,

Victoria Venegas • Environmental Specialist

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CONDITIONS

Action 129822

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 129822
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the cessation of operations extension request for 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] received from [372286] ENDURING RESOURCES, LLC on July 29, 2022. The extension of the cessation of operations is approved with the following conditions of approval:• 3RF-50 - W ESCAVADA UNIT 300H – FACILITY ID [fVV2123855557] extension of cessation of operations is approved from August 1, 2022, to February 1, 2023.. If another cessation of operation is requested, please submit ONLY the following documentation: ? C-147 ? Letter requesting the extension ? Copies of the detailed containment inspection records for the prior six months (from August 2022 to February 2023)	8/24/2022