

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) \_\_\_\_\_

\* 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 Resources, LLC (For multiple operators attach page with information) OGRID #: 372286  
Address: 200 Energy Court, Farmington, NM 87401  
Facility or well name (include API# if associated with a well): Rodeo Unit 511H  
OCD Permit Number: \_\_\_\_\_ (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr N Section 25 Township 23N Range 9W County: San Juan  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 36.191179 Longitude -107.744800 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 36.191179 Longitude -107.744800 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 30 mil Secondary Liner  
 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.

**Variations:**

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.*

<b>General siting</b>	
<b>Ground water is less than 50 feet below the bottom of the Recycling Containment.</b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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. - Written confirmation or verification from the municipality; written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

- 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: 07/29/21  
 e-mail address: acampbell@enduringresources.com Telephone: (303)929-8429

11. **OCD Representative Signature:** \_\_\_\_\_ **Approval Date:** \_\_\_\_\_

**Title:** \_\_\_\_\_ **OCD Permit Number:** \_\_\_\_\_

OCD Conditions \_\_\_\_\_  
 Additional OCD Conditions on Attachment \_\_\_\_\_

## C-147 Registration Package

Prepared for



**ENDURING  
RESOURCES, LLC**

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

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<b>Applicant</b>	Enduring Resources, LLC
<b>Project Name</b>	Rodeo Unit 511H
<b>Project Type</b>	Recycling Facility & Recycling Containment
<b>Legal Location</b>	Section 25 of T23N, R9W of San Juan County, NM
<b>Lease Number(s)</b>	

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.

The surface owner of this location is the BLM and as part of the Rodeo Unit POD (plan of development) BLM has been notified and has approved of the placement of this facility and containment on their lands as Enduring is the operator of the applicable oil and gas mineral rights. A copy of this C-147 application has been provided to the BLM. (See Attachment B)

This package contains the C-147 form and associated documents for registration of the Rodeo Unit 511H.

## 2. SITING CRITERIA

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### 2.1. Distance to Groundwater

A test well was drilled by Mo-Te Drilling on the proposed Rodeo Unit 511H on January 16, 2019, per the attached Drilling Log which indicates a groundwater depth greater than 100'. 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 – 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 25 of T23N, R9W in Sandoval County, New Mexico.

#### 2.7 Distance to 100-Year Floodplain

The Rodeo Unit 511H is not located within a 100-year floodplain as demonstrated on the FEMA Map in Section 7.

### 3. DESIGN AND CONSTRUCTION PLAN

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In accordance with Rule 19.15.34 the following information describes the design and construction of the recycling containment on Rodeo Unit 511H 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 ROU #511H 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

Rodeo Unit 511H 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  $1 \times 10^{-9}$  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  $1 \times 10^{-9}$  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 40-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

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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. GROUNDWATER TEST WELL

Attachment C

## MO-TE DRILLING, INC.

DAY			
DRILLER	JOSH WOOD	LEFT TOWN	ARRIVED FIELD
HELPER	Brando H	LEFT FIELD	ARRIVED TOWN
HELPER	Casely M	TOTAL FOOTAGE TODAY	
RIG NO.	207	DATE	1-16-18 CLIENT Enduring
BEGIN WORK ON HOLE NO.	Rodeo Unit 511H	AT	FEET
BEGIN WORK ON HOLE NO.		AT	FEET

TIME		ACTIVITY
FROM	TO	
7:30	9:00	Drive to location
9:00	9:45	Set up rig, Rig up, Wait on site
9:45	9:55	Drill 0-50' Trip out wait 1 hour
9:55	10:55	Standby test for water, No water
10:55	11:15	Drill 50-100' Trip out wait 1 hour
11:15	12:15	Standby test for water, No water
12:15	12:45	Fill in hole Rig down
12:45	2:00	Drive in

6 1/4 BIT

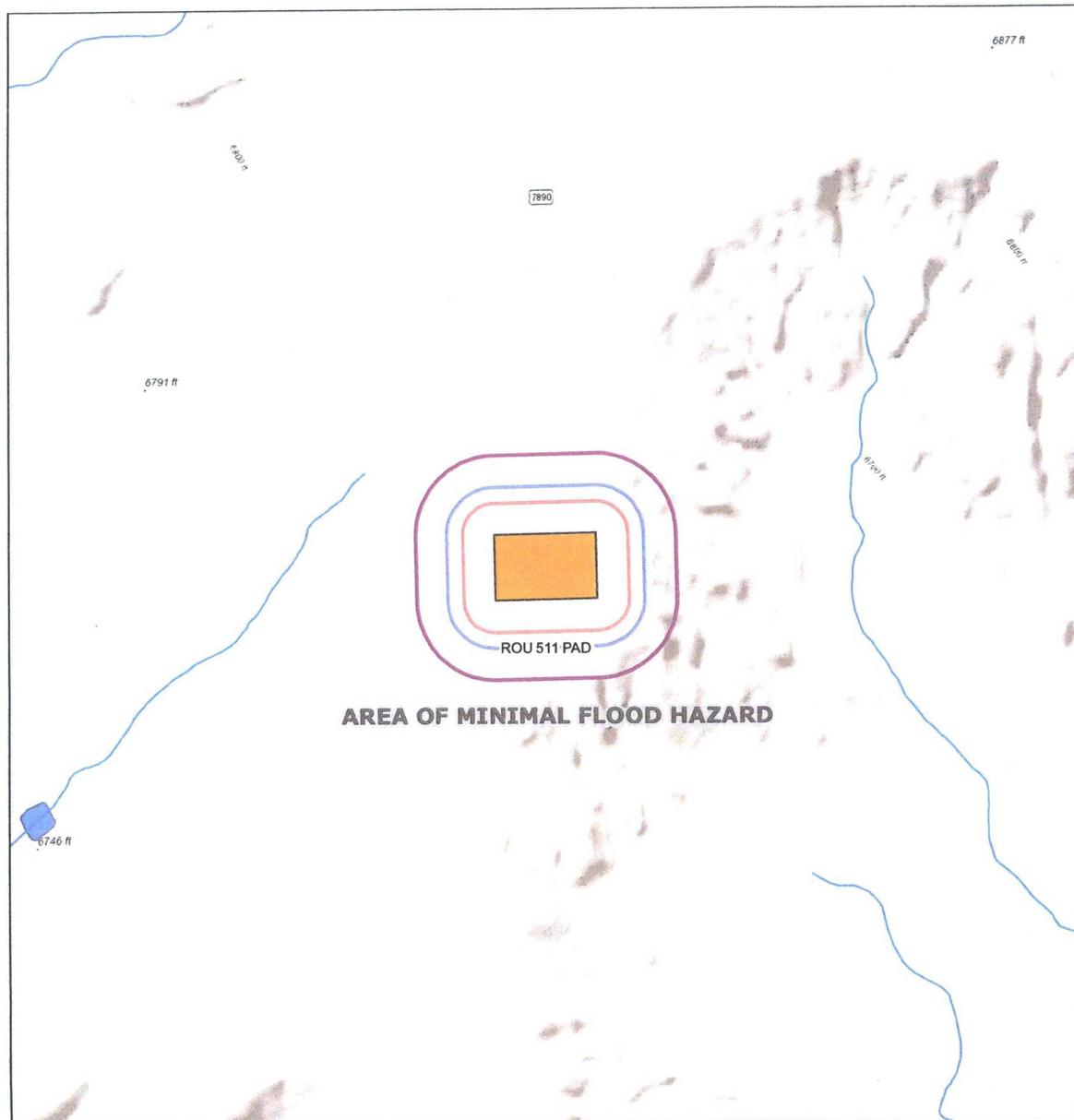
Section 25, T23N, R9W San Juan County  
 LAT: 36.191179 LONG: 107.744800

BIT RECORD		
SIZE & MAKE	SERIAL NO.	FOOTAGE
CIRCULATION MATERIAL		
QUAN.	UNIT	MATERIAL

NO. OF LOADS OF WATER \_\_\_\_\_ SOURCE \_\_\_\_\_  
 san juan repr farm, nm Form 219-6

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# 7. MAPS



### ROU 511 Recycling Facility / Containment location

**Mines and Mills**

- VM Vermiculite
- S Sulfur
- PM Pumice
- PO Potash
- PL Perlite
- MI Mica
- GY Gypsum

**Legend:**

- FEMA High Risk Flood Zone
- OSE\_wells\_AOI
- Building Footprints
- 200 ft
- 300 ft
- 500 ft
- USGS Water Courses
- NHD Waterbody

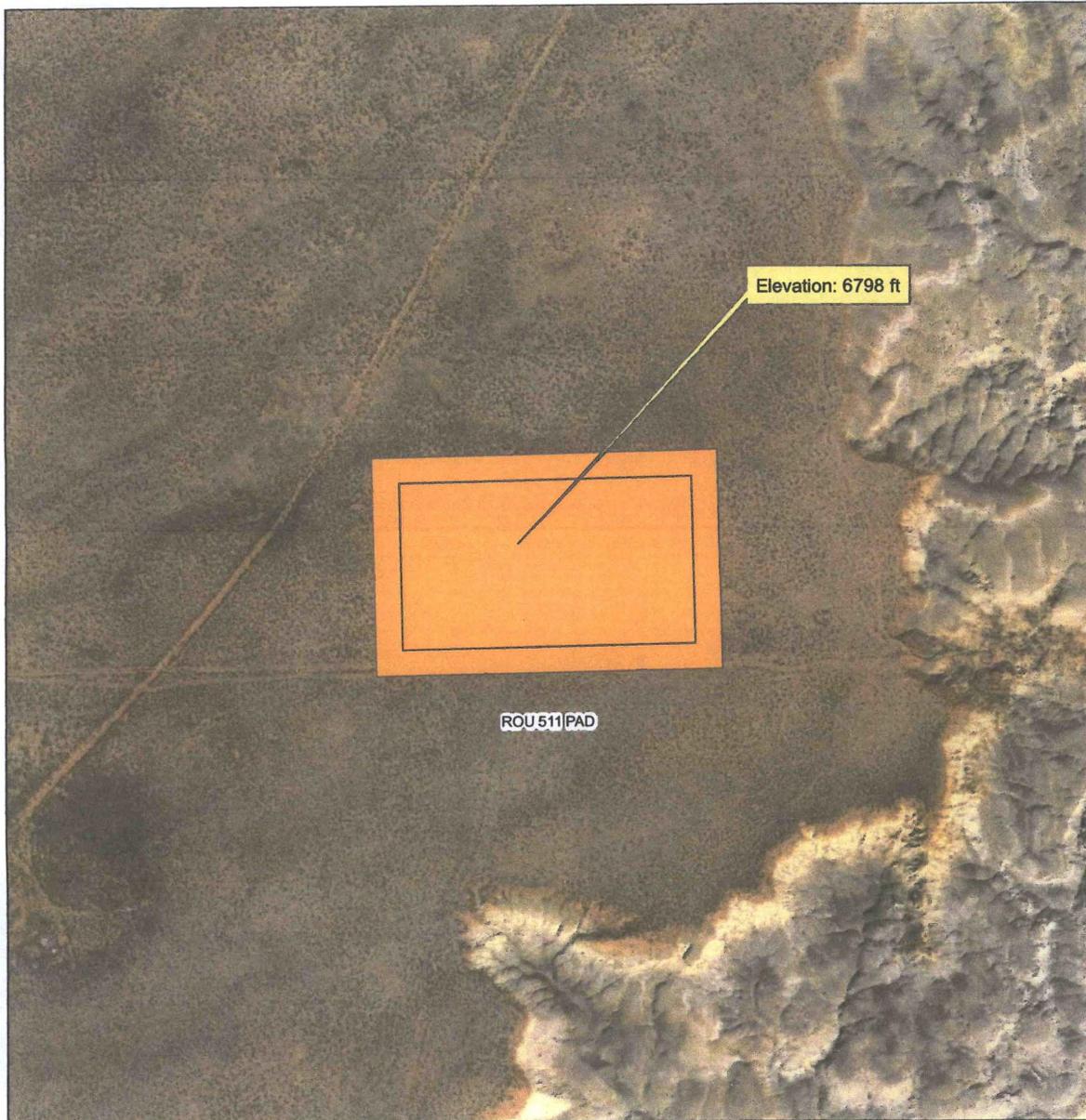


**ENDURING  
RESOURCES, LLC**

0 625 1,250 2,500 Feet  
 NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US Author: drogers Date: 1/21/2019

Data Source Statement:  
 BLM-PFO, Enduring Resources GIS, ESRI Inc.,  
 NCE Surveys, USGS

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ROU 511 / Recycling Containment



**ENDURING  
RESOURCES, LLC**

Data Source Statement:  
BLM-FFO, Enduring Resources GIS, ESR1 Inc.,  
NCE Surveys, USGS



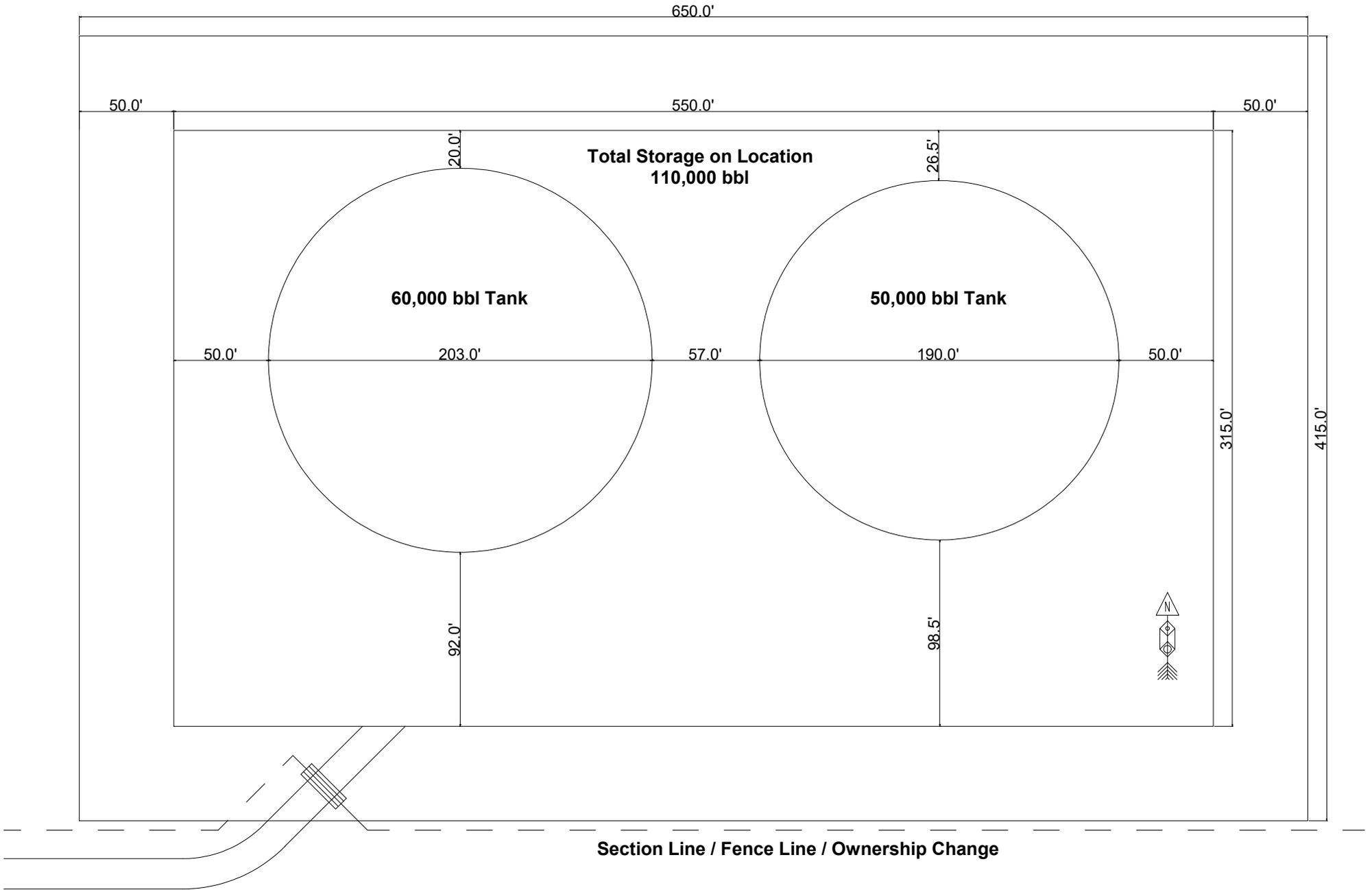
NAD 1983 2011 StatePlane New Mexico West FIPS 3003 Ft US

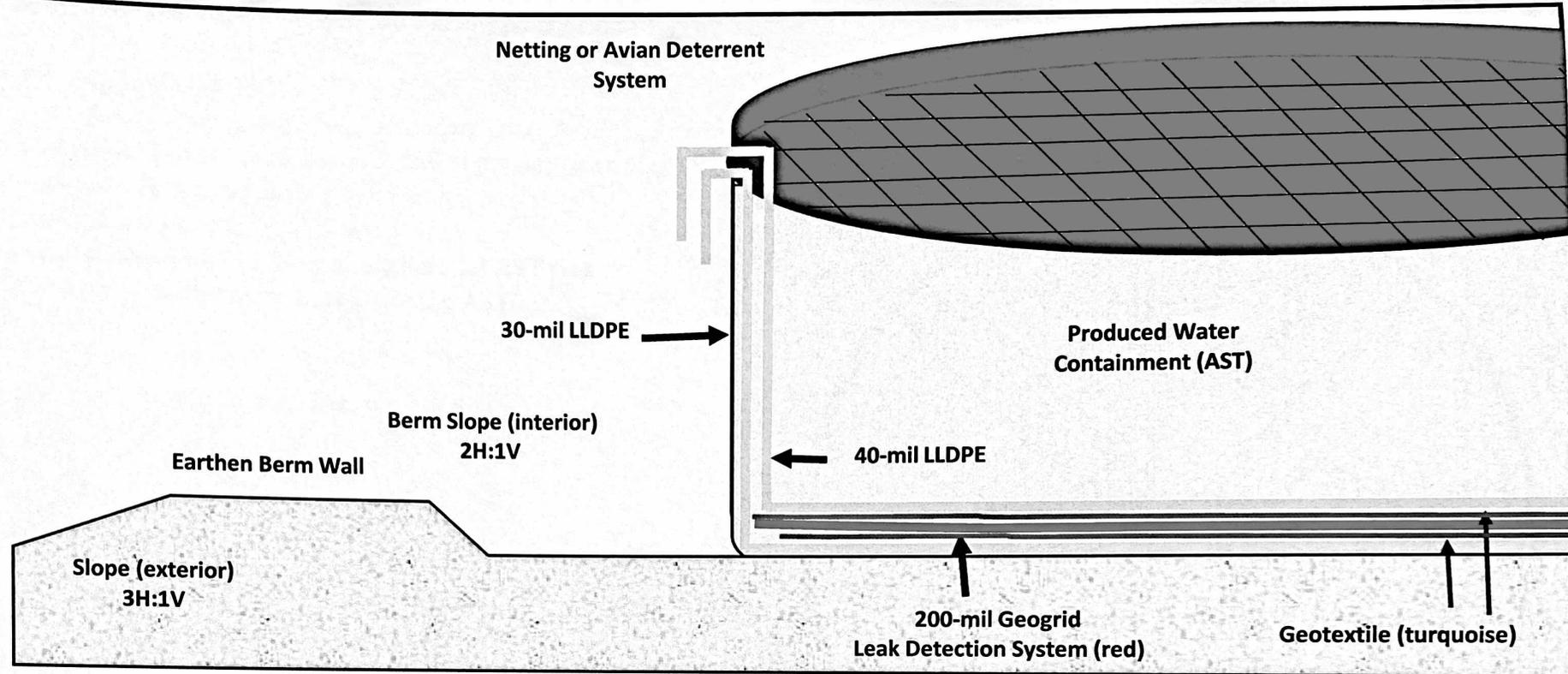
Author: drogers

Date: 1/21/2019

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## 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)

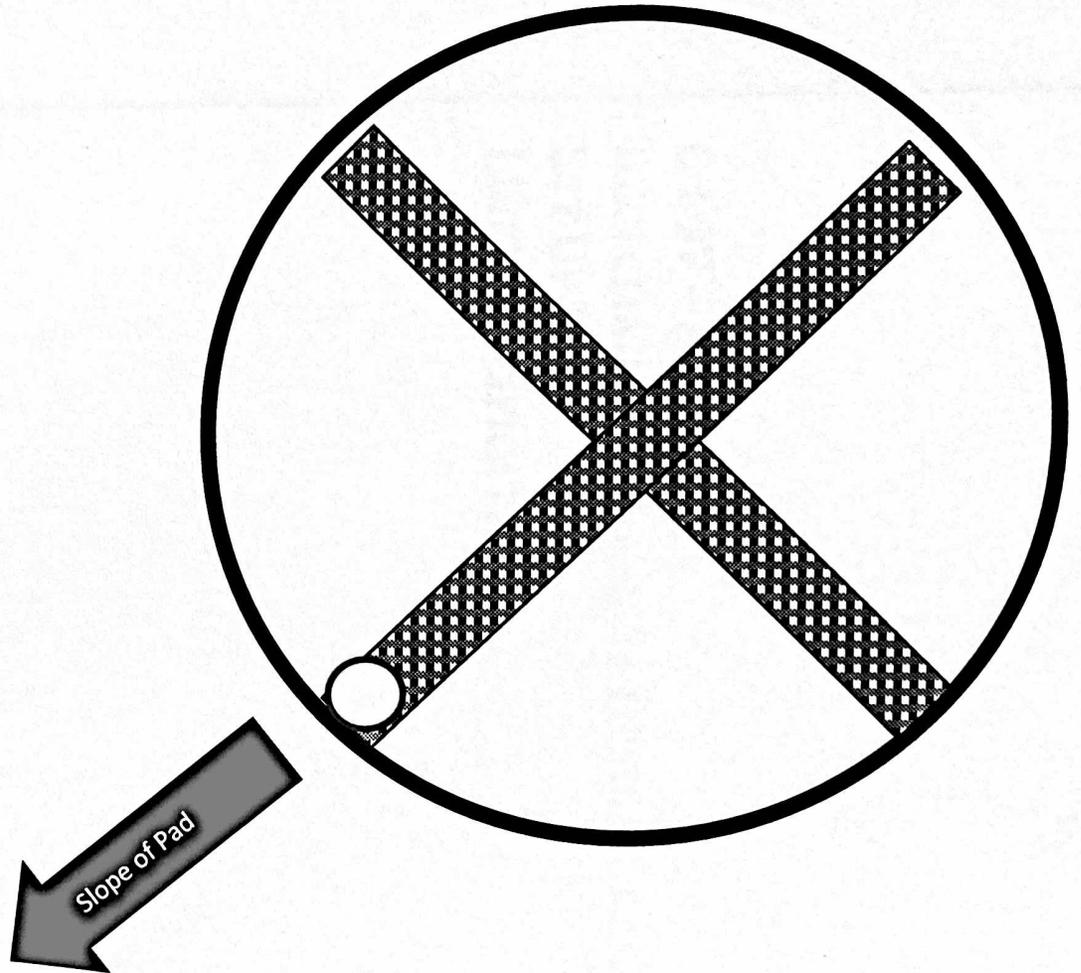
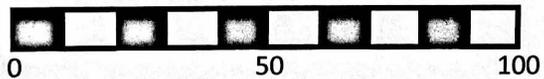
Use laser level to determine slope of pad and low point of AST

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

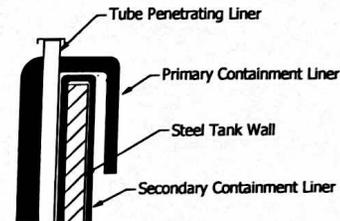
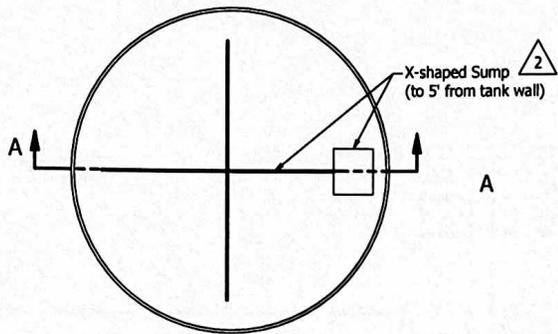
Sump at lowest point of the AST set up



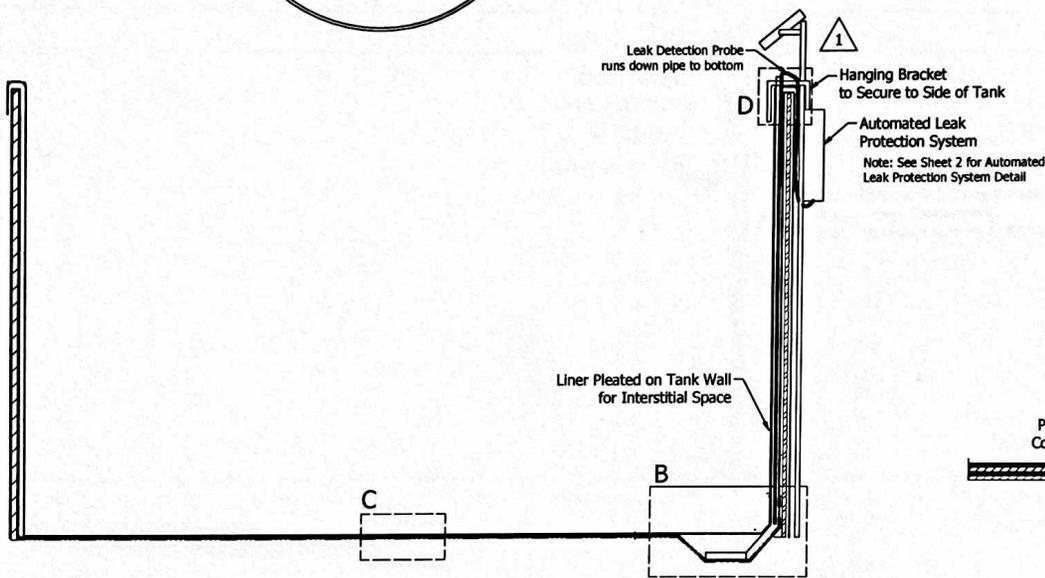
Sump Location



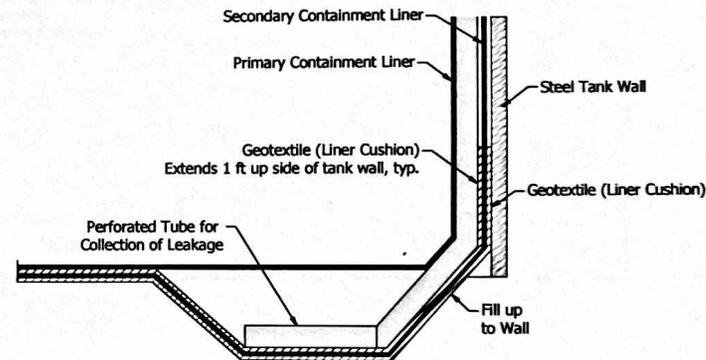
# WWS DOUBLE-LINED FRAC WATER TANK SYSTEM



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



**VIEW A-A  
TANK DETAIL**



**SECTION B  
SUMP DETAIL**



**SECTION C  
LINER 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 UNDER AND BETWEEN LINERS	11/24/15	SES	

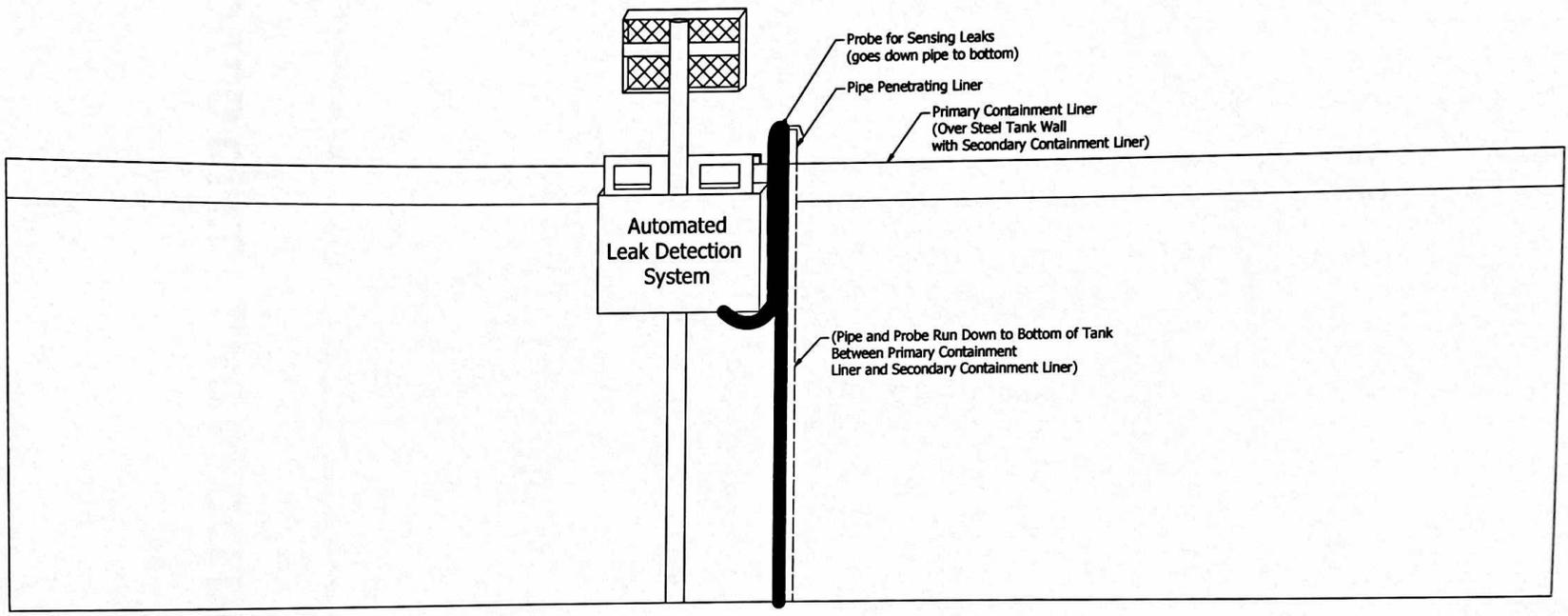
TITLE	
Double-Lined Frac Tank System	
CUSTOMER	
PROJECT/JOB	
WWS Double-Lined Tank System	
APPROVAL	
DRAFTER	DATE
SES	10/28/2015
THIS DOCUMENT IS THE PROPERTY OF WWS AND MAY NOT BE REPRODUCED OR DISTRIBUTED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF WWS.	

**WELL WATER SOLUTIONS**  
AND RENTALS, INC.

SIZE: C DWG NO: LDD15-WWS-02 REV: 3

SHEET 1 OF 2

### 1 AUTOMATED LEAK DETECTION SYSTEM



TITLE				
Double-Lined Frac Tank System				
CUSTOMER				
PROJECT/JOB WWS Double-Lined Tank System				
APPROVAL		SIZE	DWG NO	REV
DRAFTER SES	DATE 10/28/2015	C	LDD15-WWS-02	3
THIS DOCUMENT IS THE PROPERTY OF WWS AND MAY NOT BE REPRODUCED OR DISTRIBUTED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF WWS.		SHEET 2 OF 2		

WWS AST Engineering Specs

Section 1.08

CR	ITEM	QTY	DESCRIPTION	UNIT	LENGTH	MATERIAL	CLENGTH (in)	WEIGHT
	1	14	BAR, ROUND, 5/8" (LOCK PIN)		8 1/2 in	A36	6.50	2
	2	2	B-RING, 1/2" O.D., WORKING LOAD 4000 Lbs			A29/A29M - 91 1046(C-1046), MODIFIED TO WELD DOWN		2
	3	2	FRAM, 1"	10 in	131 1/2 in	A36	131.50	373
	4	2	FRAM, 10GA	3 in	43 1/8 in	A36	86.25	93
	5	2	PAD EYE, 02			CROSBY GROUP, S-264		0
	6	7	PM, 2" DIA		4 1/2 in	KUSTOM KONCEPTS, A6010	31.50	3
	7	7	PM, 3" DIA		4 1/2 in	KUSTOM KONCEPTS, A6010	31.50	0
	8	2	PLATE, 3/16"	3 in	6 in	A36	10.00	2
	9	1	PLATE, 3/16"	96 in	200 in	A36	240.00	158
	10	6	SHEET, 10GA	2 1/2 in	3 3/4 in	A36	22.50	3
	11	1	SHEET, 10GA	42 1/2 in	240 in	A36	240.00	60
	12	2	TUBE, 4" x 2" x 1/4" (INNER BOW ENDS)		52 in	A500B CLEAR COAT	104.00	55
	13	3	TUBE, 4" x 2" x 3/16"		37 1/4 in	A500B CLEAR COAT	74.50	43
	14	3	TUBE, 4" x 2" x 3/16"		42 3/4 in	A500B CLEAR COAT	120.25	74
	15	2	TUBE, 4" x 2" x 3/16"		44 in	A500B CLEAR COAT	88.00	50
	16	2	TUBE, 4" x 2" x 3/16"		132 in	A500B CLEAR COAT	264.00	151
	17	1	TUBE, 4" x 2" x 3/16" (INNER BOW ENDS)		137 1/2 in	A500B CLEAR COAT	137.50	70
	18	2	TUBE, 4" x 2" x 3/16", (ROLL TO 155'-0 7/8" LB.)		236 3/8 in	A500B CLEAR COAT	472.75	271
	19	2	TUBE, 4" x 2" x 3/16", (ROLL TO 155'-0 7/8" LB.)		263 7/8 in	A500B CLEAR COAT	507.75	281

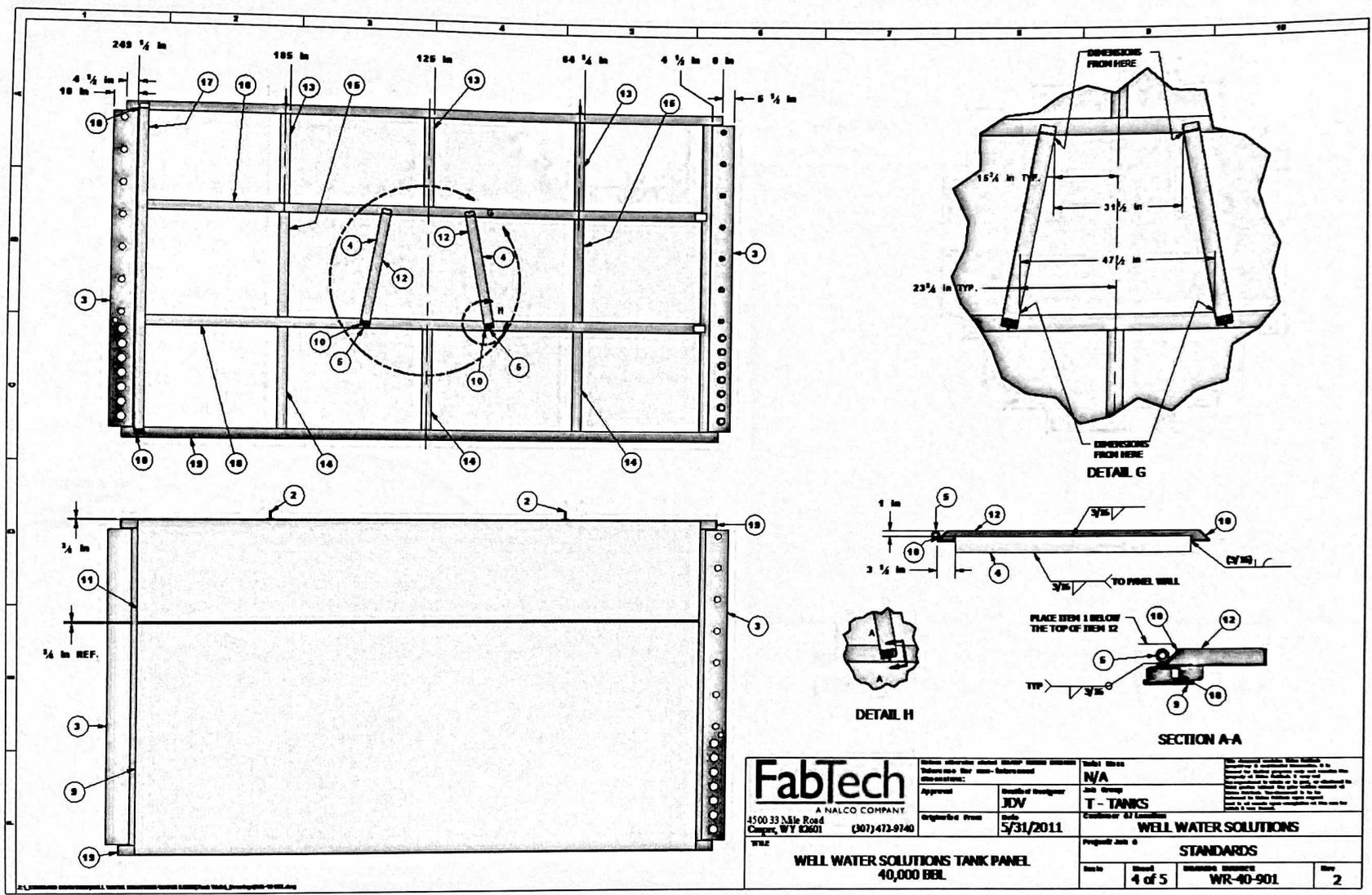
**NOTES:**  
 -THIS DRAWING REFLECTS ONE (1) ASSEMBLY  
 -TWENTY THREE (23) PANELS REQUIRED FOR ENTIRE TANK ASSEMBLY

REV	REVISION	DATE	BY	4500 33 Mile Road Catskill, NY 12011 (307)472-9340
2	STANDARDIZE NOTATIONS	11/17/2012	JDV	
1	ADDED ITEMS 7, 8, & 10	12/08/11	BSC	
0	FOR CONSTRUCTION REF(11660-901) CHANGED HEIGHT AND LOCATION OF PMS REF(11676-40-901)	01/1/2011	CAB	

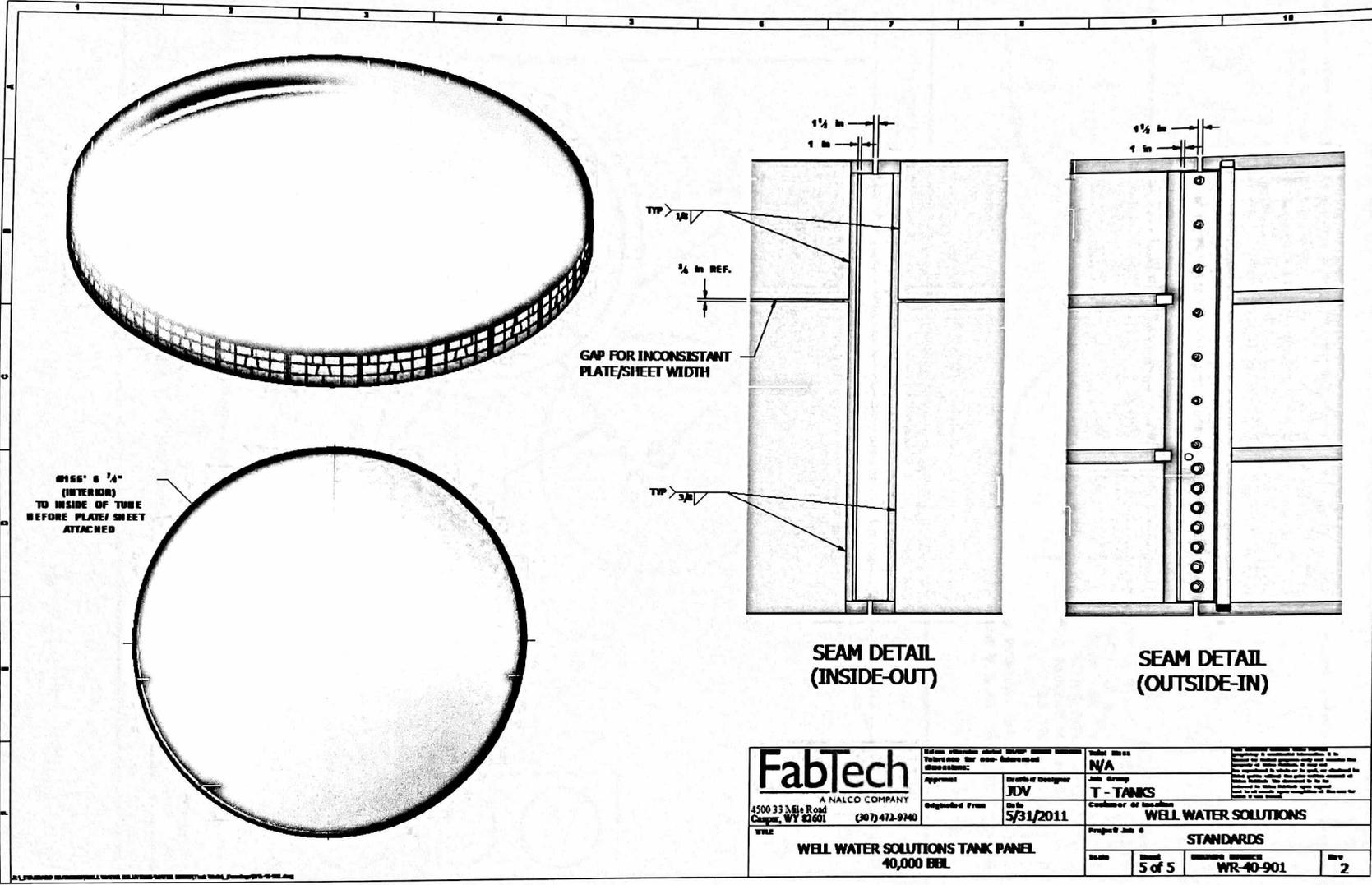
<b>FabTech</b> A NALCO COMPANY		Order Information about GROUP Orders: Visit our Web Site: <a href="http://www.fabtech.com">www.fabtech.com</a>	Order Number: N/A
Applicant: <b>WELL WATER SOLUTIONS</b>	Order Number: <b>JDV</b>	Order Date: <b>5/31/2011</b>	Order Status: <b>T-TANKS</b>
Project Name: <b>WELL WATER SOLUTIONS TANK PANEL 40,000 BRLL</b>		Project No: <b>STANDARDS</b>	Project Date: <b>WR-40-901</b>
Sheet: <b>1 of 5</b>	Revision: <b>2</b>		





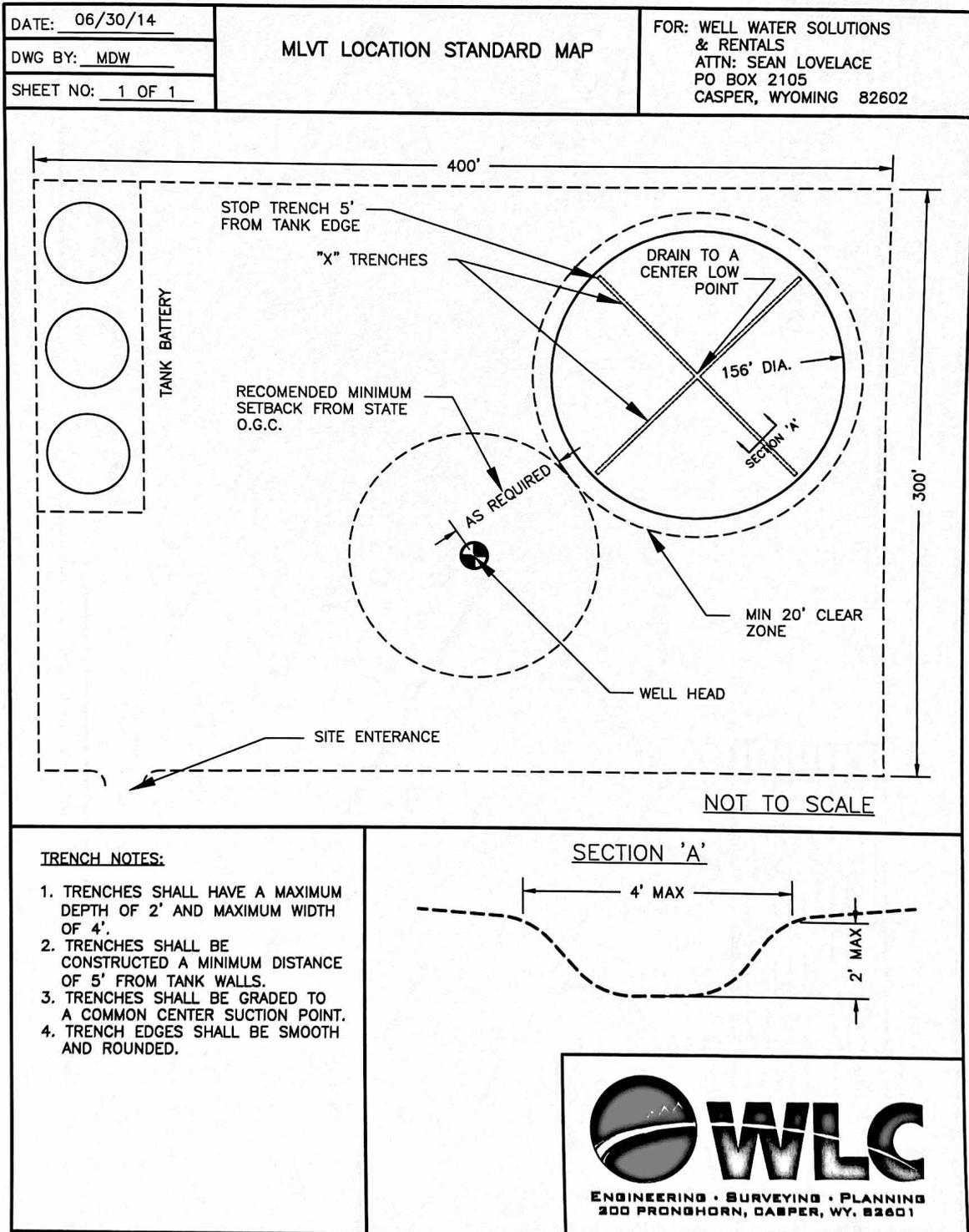


<b>FabTech</b> A NALCO COMPANY 4500 33 Mile Road Casper, WY 82601 (307) 473-9740	Title: <b>N/A</b> Job Group: <b>T-TANKS</b> Customer: <b>ST</b>	<small>           This drawing shall remain the property of FabTech and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of FabTech.         </small>
	Approved: <b>JDV</b> Date: <b>5/31/2011</b>	Project: <b>WELL WATER SOLUTIONS</b>
Title: <b>WELL WATER SOLUTIONS TANK PANEL 40,000 BEG</b>	Project: <b>ST</b>	Standards: <b>WR-40-901</b>
	Sheet: <b>4 of 5</b>	Day: <b>2</b>



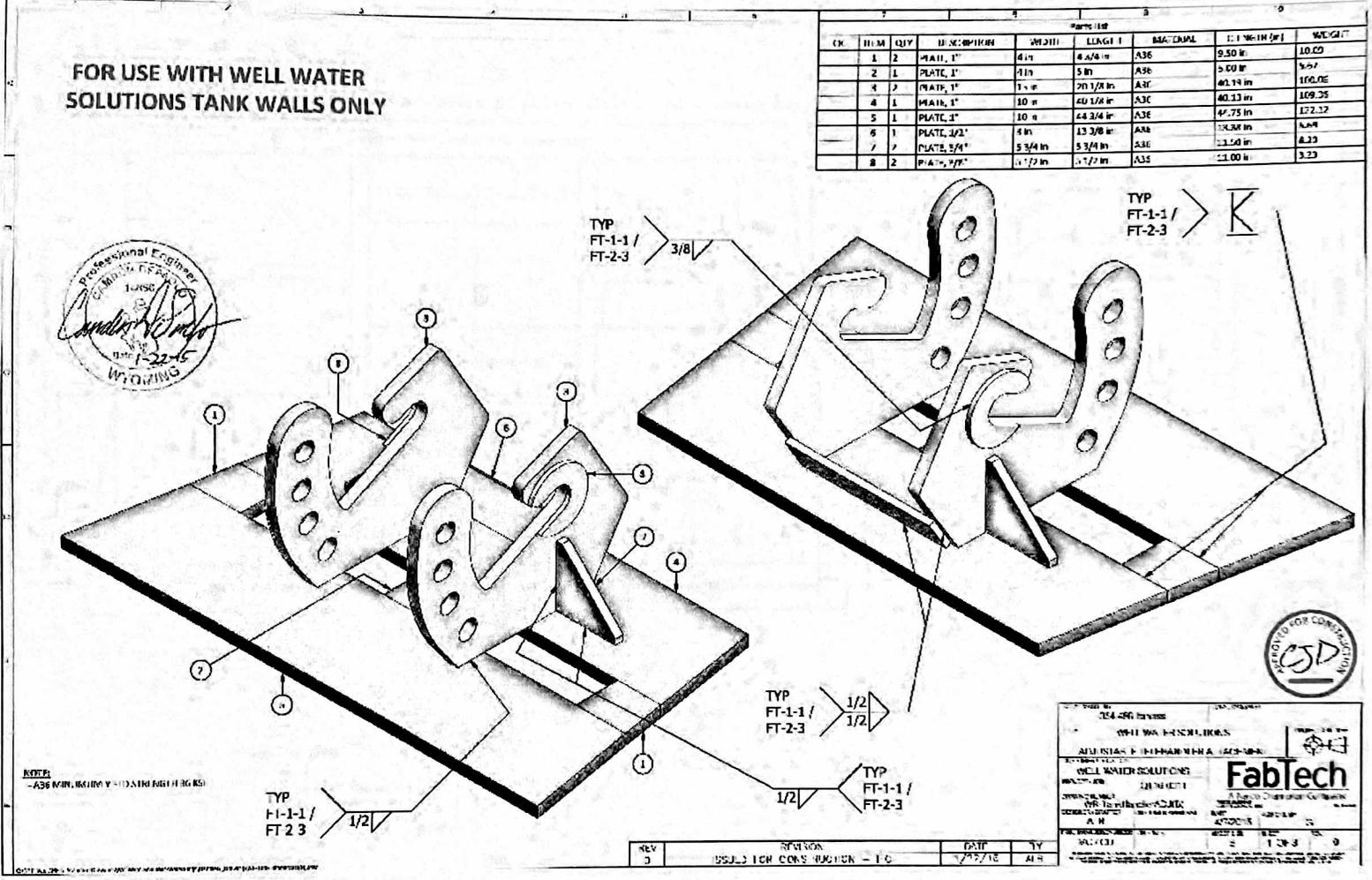
<b>FabTech</b> A NALCO COMPANY 4500 33 Mile Road Casper, WY 82601 (307) 472-9740	Status: <b>Released</b> Release Date: <b>5/31/2011</b>	Title: <b>N/A</b> Job Group: <b>T - TANKS</b>	<small>           This drawing is the property of FabTech. It is to be used only for the project and location specified. It is not to be reproduced, copied, or distributed in any form without the written consent of FabTech.         </small>
	Approved: <b>JDV</b> Designated From: <b>5/31/2011</b>	Customer of Location: <b>WELL WATER SOLUTIONS</b> Project Job #: <b>STANDARDS</b>	
<b>WELL WATER SOLUTIONS TANK PANEL</b> <b>40,000 BEIL</b>		Scale: <b>5 of 5</b> Drawing Number: <b>WR-40-901</b>	Rev: <b>2</b>

### Section 1.09 Proper AST Setback and Location Sample



JGL Approved Telehandler Attachment with Load Chart

Section 1.10





## 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'

## ATTACHMENT B - LANDOWNER NOTIFICATION - BLM

---

<b>Well Name:</b> RODEO UNIT	<b>Well Location:</b> T23N / R9W / SEC 25 / SESW / 36.191179 / -107.7448	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 511H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b> EASTERN NAVAJO
<b>Lease Number:</b> N0G14021893	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b> NMNM136328A, NMNM136328X
<b>US Well Number:</b> 3004535875	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> 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:** 04:00

**Date proposed operation will begin:** 08/31/2021

**Procedure Description:** Enduring Resources plans to construct a Recycling Facility and Recycling Containment on the Rodeo Unit 511H well pad for purposes of treating and recycling produced water for re-use in Enduring's drilling and completion activities. BLM is the surface owner of this location and has previously approved the placement of this facility and containment as part of the Rodeo Unit MDP. Attached is a copy of the full NMOCD C-147 application/registration packet for reference. \*This sundry will also 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

**NOI Attachments**

**Procedure Description**

1\_C147\_ROU\_20210729153835

**Well Name:** RODEO UNIT

**Well Location:** T23N / R9W / SEC 25 / SESW / 36.191179 / -107.7448

**County or Parish/State:** SAN JUAN / NM

**Well Number:** 511H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:** EASTERN NAVAJO

**Lease Number:** NOG14021893

**Unit or CA Name:**

**Unit or CA Number:** NMNM136328A, NMNM136328X

**US Well Number:** 3004535875

**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 03:58 PM

**Name:** ENDURING RESOURCES LLC

**Title:** Sr. Project Manager

**Street Address:** 470 WOLVERINE DRIVE #9

**City:** BAYFIELD **State:** 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:** Denver **State:** CO

**Zip:** 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  
 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 38843

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 38843
	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 application and related documents, submitted by [372286] ENDURING RESOURCES, LLC on July 29, 2021 for 3RF-49 - RODEO UNIT 511H - FACILITY ID IVV2123237271 in Unit Letter N, Section 25, Township 23N, Range 09W, San Juan County, New Mexico. The application has been approved with conditions.	8/24/2021