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

Recycling Facility and/or Recycling Containment

Form C-147

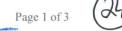
Revised April 3, 2017

Type of Facility: Recycling Facility  Type of action: Permit Registration Extension  Closure    Other (explain)   Containment*
* 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.
Operator: Enduring Resources IV, 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): Rodeo Unit 511H API: 30-045-35875 Rodeo Unit 512H API 30-045-35874 R
OCD Permit Number: (For new facilities the permit number will be assigned by the district office)
OCD Permit Number:
Surface Owner:  Federal  State  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:
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
☐ Liner type: Thickness 45 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
String-Reinforced String-Reinforced
Liner Seams:   Welded ☐ Factory ☐ Other *Per AST Volume: 40,280 bbl Dimensions: Radius 80' x Height 10'
Recycling Containment Closure Completion Date:

MMOCD

JAN 23 2019





Bonding:	1
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 u	ntil 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, hum	nan health and the
environment.	ian nearth, and the
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	d, 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.	
The variable to requirement of approved providing the same and	
8.	
Siting Criteria for Recycling Containment	
Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the applicant	tion. Potential
examples of the siting attachment source material are provided below under each criteria.	
<b>General siting</b>	
Ground water is less than 50 feet below the bottom of the Recycling Containment.	Yes No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	∐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ⊠ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; written approval obtained from the municipality	□ NA
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes ⊠ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☑ No
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	☐ Yes ⊠ No
lake (measured from the ordinary high-water mark).  - Topographic map; visual inspection (certification) of the proposed site	77
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	☐ Yes ☑ No
initial application.  - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	
Within 500 feet of a wetland.  US Fish and Wildlife Wetland Identification man; topographic man; visual inspection (certification) of the proposed site.	☐ Yes ⊠ No

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)
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): Andrea Velix Title: Regulatory Manager
Signature: Date: 1-23-2019
e-mail address: afelix@enduringresources.com / Telephone: 505-386-8205
t man address. <u>are manifestures.com</u>
OCD Representative Signature:  Approval Date: 2/12/19
OCD Representative Signature:  Approval Date: 2/12/19  Title: Environmental Spec OCD Permit Number: 3RF-44
☐ OCD Conditions
Additional OCD Conditions on Attachment

# Enduring Resources IV, LLC 200 Energy Court Farmington, NM 87401



# Rodeo Unit 511H Water Recycle Facility / Containment

Submitted by:

Andrea Felix, Regulatory Manager

January 23<sup>rd</sup>, 2019

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NMOCD

Enduring Resources IV, LLC Rodeo Unit 511H Recycling Facility /Containment Variance Request for 19.15.34 NMAC FEB 0.8 2019 District III

Enduring Resources IV, LLC 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.

<u>Liner Anchoring</u>: 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.E NMAC.

<u>Inside / Outside levee slopes</u>: 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.

<u>Minimized liner seams</u>: Enduring Resources requests a variance to NMAC 19.15.34.12 (5) which applies to a lined square excavation. This statute is not applicable to a steel AST that has a circular vertical shell without corners We believe this will provide equal or better protection than the requirements listed in 19.15.34.12.E NMAC.

<u>Netting</u>: Enduring Resources, LLC (Enduring) is proposing to mitigate migratory birds pursuant to the attached *Migratory Bird Mitigation Plan* as required in 19.15.34.12.E. We believe this will provide equal or better protection than the requirements listed in 19.15.34.12.E NMAC.

# 1. Introduction

Operator	Enduring Resources IV, LLC			
OGRID	372286			
<b>Facility Name</b>	Rodeo Unit 511H			
Facility Type	Recycling Facility & Recycling Containment			
Location	Section 25, 23N, R9W San Juan County			
Surface Owner	Federal- BLM			

In accordance with NMAC 19.15.34, Enduring Resources IV, LLC (Enduring) requests the registration of a recycling containment and permit for a recycling facility. The facility and containments will be used to treat and recycle produced water for re-use in Enduring 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/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.

# 2. Siting Criteria

The Rodeo Unit 511H facility / containment is located in accordance with 19.15.34.11 as documented below:

- Ground water is greater than 50 feet below the bottom of the containment
  A test well was drilled on the Rodeo Unit 511H on 1-16-2019 per the attached Mo-TE
  drilling Log which indicated a ground water depth greater than 100 feet.
  NM Office of the State Engineer iWATERS database search; USGS; Data obtained from nearby wells is shown on the aerial or topo maps provided.
- 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

The recycling facility / containment is not located 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 amend.

# Within the area overlying a subsurface mine

The recycling facility / containment is not located within an area overlaying a subsurface mine according to NM EMNRD Mining and Minerals Divisions database there are no subsurface mines in Section 25, T23N, R9W San Juan County.

### Within an unstable area

The recycling facility / containment is not located within an unstable area and is not on the side of a hill.

## Within a 100-year floodplain. FEMA map

The recycling facility / containment is not located within a 100-year floodplain as shown on the aerial or topo maps provided.

# 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)

The recycling facility / containment is not located within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake as shown on the aerial or top maps provided.

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

The recycling facility / containment is not located within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application as shown on the aerial or topo maps provided.

# 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

The recycling facility / containment is not located within 500 horizontal feet of a spring or fresh water well used for domestic or stock watering purposes in existence at the time of initial application as shown on the aerial or topo maps provided.

#### Within 500 feet of a wetland

The recycling facility / containment is not located within 500 feet of a wetland as shown on the aerial or topo maps provided.

# 3. Design and Construction Plan

In accordance with Rule 19.15.34.12 NMAC the following Design and Construction Plan describes Enduring's Rodeo Unit 511H recycling facility / containment and will assist Enduring personnel to ensure compliance with the minimum design and construction requirements as defined by NMOCD as outlined in 19.15.34.12 NMAC.

#### 3.1 Confinement of Produced Water

The recycling facility / containment has been designed to ensure the confinement of produced water, the prevention of releases, and the prevention of overtopping due to wave action or rainfall.

#### 3.2 Foundation Construction

The recycling facility / containment has been designed, and will be constructed, to have a properly constructed foundation with an unyielding base, free of rocks debris and sharp edges. Geotextile will be placed under the secondary liner in order to reduce stress-strain on it.

### 3.3 Liner Construction

The recycling facility / containment is designed to have a 45 mil, string reinforced LLDPE liner as the primary liner, and a 40 mil LLDPE liner as the secondary liner. This recycling facility/ containment is an above grade tank, and the liner will be secured to the top of the AST using bolted steel clamps. The primary liner will be a 45-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 x  $10^{-9}$  cm/sec. The secondary liner will be a 40-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 x  $10^{-9}$  cm/sec. Liner material will be factory welded by the manufacturer by qualified personnel. The liner material will overlap a minimum of 4 inches. All welding and testing will be completed by qualified personnel.

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

The recycling facility / containment is above ground and will not be subject to water run-on, Enduring will be constructing an earthen berm around the perimeter of the location to serve as an extra precaution.

### 3.4 Leak Detection System

The recycling facility / containment has been designed with a leak detection system made up of a conductive geocomposite material, at least 200 mm thick. The pond 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.

### 3.5 Top Soil

The location is an approved well pad location for the Rodeo Unit 511H well and top soil will be stripped and stored around the perimeter of the location for reclamation purposes. The top soil being stored is not within 100 feet of a continuously flowing watercourse or significant watercourse; within 200 feet from a lakebed, sinkhole, or playa lake; within 100 feet of a wetland or within a 100-year flood plain as shown on the aerial or topo maps provided.



FEB 0 8 2019

# DISTRICT 111

## 3.6 Signage

The recycling facility / containment will have a sign no less than 12" by 24" with lettering not less than 2" in height in a conspicuous place near the recycling facility / containment. The sign will contain the operator's name, location of the recycling facility / containment by quarter-quarter or unit letter, Section, Township, Range and emergency phone numbers.

## 3.7 Fencing

The recycling facility / containment will be surrounded by a fence four feet in height that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above the ground and maintained in good repair. All gates associated with the fence will be closed and locked when responsible personnel are not onsite.

## 3.8 Wildlife Protection

Enduring Resources will install a bird deterrent system pursuant to the attached *Migratory Bird Mitigation Plan*. The recycling facility / containment will be inspected weekly for dead migratory birds, and will be reported.

# 4. Maintenance and Operating Plan

In accordance with Rule 19.15.34.13 NMAC the following Maintenance and Operating Plan describes Enduring's Rodeo Unit 511H recycling facility / containment and will assist Enduring personnel and contractors to ensure compliance with the requirements as defined by NMOCD as outlined in 19.15.34.13 NMAC

- Enduring will inspect the recycling facility / containment and associated leak detection systems weekly while the containment is holding fluids. An inspection log will be maintained by Enduring, and will be available for review upon request by the division.
- > Enduring will remove any visible oil from the surface of the recycling facility / containment upon discovery.
- > Enduring will maintain a minimum of three feet of freeboard in the containment at all times.
- > The injection and 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 or pipes.
- ➤ If a leak is discovered in the containments primary liner above the liquid level in the containment, Enduring will repair the primary liner within 48 hours, or request an extension on repair within the 48-hour time limit.
- ➢ If a leak is discovered in the containments primary liner below the liquid level in the containment, Enduring will notify the division office of the leak, remove all fluids above the leak level, and repair the primary liner within 48 hours, or request an extension on repair within the 48-hour time limit.
- > The recycling facility / containment will be operated in such a way to prevent the collection of surface water.

- > An oil absorbent boom or other device will be onsite to contain an unanticipated release.
- > The recycling facility / containment will not be used for the storage or discharge of hazardous waste.
- Enduring will consider the recycling containment to have ceased operations if less than 20% of the total fluid volume is used every six (6) months following the first withdrawal of produced water for use. Enduring will report cessation of operations to the appropriate division district office. If additional time is needed for closure, Enduring will request an extension from the appropriate division district office prior to the expiration of the initial six (6) month time period.

# 5. Closure Plan

In accordance with Rule 19.15.34.14 NMAC the following Closure Plan describes Enduring's Rodeo Unit 511H recycling facility / containment closure requirements.

- > Upon cessation of operations Enduring will remove all fluids within 60 days of the official date of cessation.
- ➤ Enduring will close the produced water containment within six (6) months from the official date of cessation. If Enduring will require more than 6 months to complete closure activities, an extension request will be filed prior to the six (6) month time limit for closure.
- Within 60 days of final closure completion, Enduring will submit a closure report on form C-147, including required attachments, to document all closure activities including sampling results. The closure report will certify that all information in the report and attachments is correct and that Enduring has complied with all applicable closure requirements and conditions specified in division rules or directives.
- Closure activities will consist of the following:
  - a. Removal of all containment contents
  - b. Removal of liners and associated leak detection equipment for disposal at a division approved facility.
  - c. Removal of all equipment associated with the continued operation of the recycling containment.
  - d. Enduring 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.

- e. If the closure sample collected return results equal to or less than the parameters listed in *Table I* closure will be completed and backfill with begin with non-waste containing, uncontaminated, earthen material.
- f. If the closure sample collected indicates concentration is higher that the values listed in *Table I*, Enduring will report the elevated sample values to the NMOCD, and additional delineation may be required at that time.

		Table I	
Closure Criteria for Recyclin	ng Containments		
Depth below bottom of containment to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
51 feet - 100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

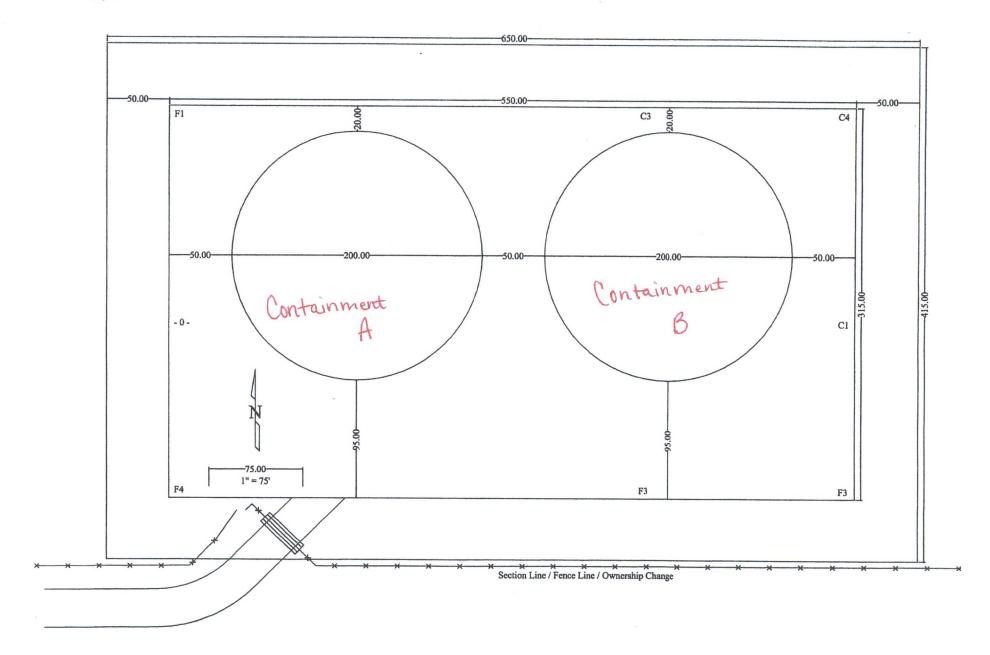
\* Or other test methods approved by the division.

\*\* Numerical limits or natural background level, whichever is greater.

[19.15.34.14 NMAC - N, 3/31/15]

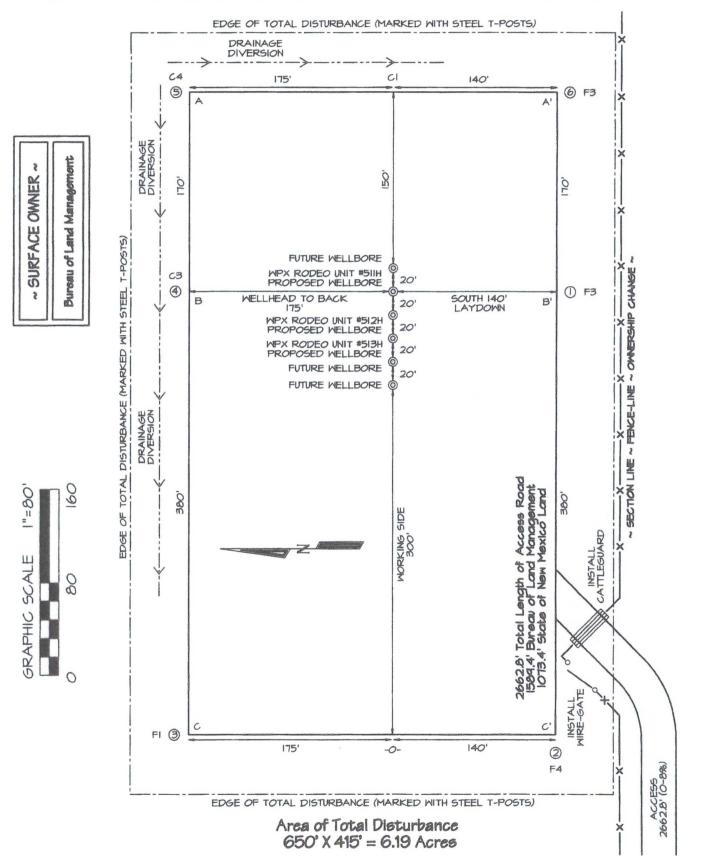
- ➤ Enduring will reclaim the containments location to a safe and stable condition that blends the surrounding undisturbed area. Tops soils and subsoils will be replaced to their original relative positions and contoured to achieve erosion control, long term stability and preservation of surface water flow patterns. The disturbed are will then be reseeded in the first favorable growing season following closure. The impacted surface area will be restored to the condition that existed prior to construction.
- Reclamation of all disturbed areas no longer in use shall be considered complete when all ground disturbing activities have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of predisturbance levels and total percent plant cover of at least seventy percent of predisturbance levels excluding noxious weeds.
- > Soil cover and revegetation as required in 19.15.34.14 NMAC will be met in addition to the reclamation requirements by BLM as surface owner which provide for more stringent requirements.

Attachment A



Page 7

# WPX ENERGY PRODUCTION, LLC RODEO UNIT #511H 191' FSL & 1365' FWL, SECTION 25, T23N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6798' LAT: 36°11'28.1940" LONG: 107°44'39.0719" DATUM: NAD1927



Steel T-Posts have been set to define Edge of Disturbance limits which are 50' offset from edge of wellpad.

Page 8

Attachment B

# <u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC Rodeo Unit #511H 191' FSL & 1365' FWL, Section 25, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.191179°N Longitude: 107.744800°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 37.8 miles to Mile Marker 113.4;

Go Right (South-westerly) on County Road #7890 for 0.8 miles to fork in roadway;

Go Left (Southerly) remaining on County Road #7890 for 1.3 miles to four-way intersection;

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (South-westerly) remaining on County Road #7890 for 1.5 miles to begin proposed access on left-hand side which continues for 2662.8' to staked WPX Rodeo Unit #511H location.

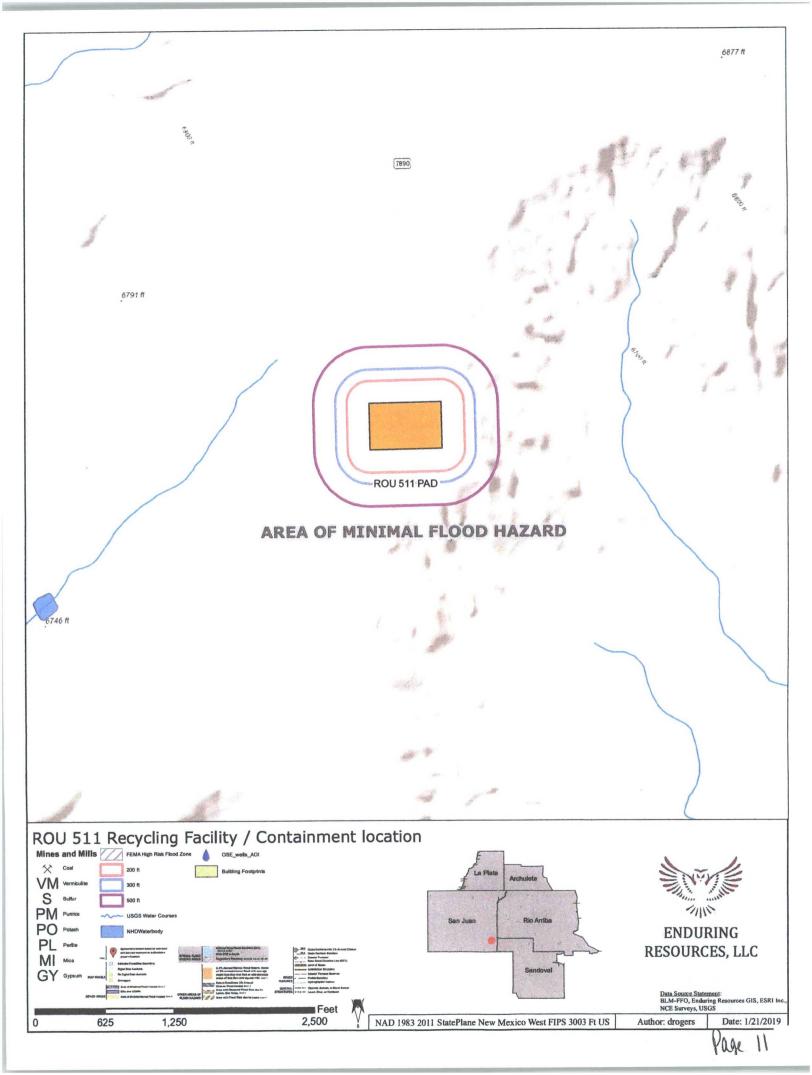
A Hachment C

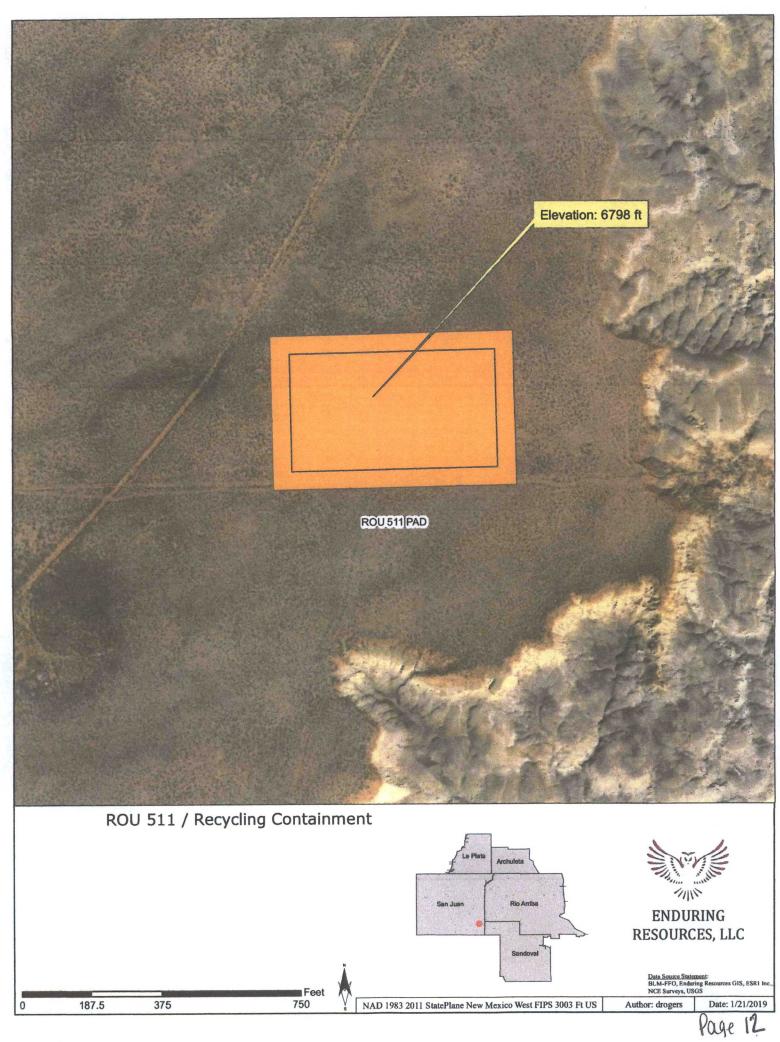
NO. OF LOADS OF WATER\_

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san juan repr farm,nm Form 219-6





#### Overview:

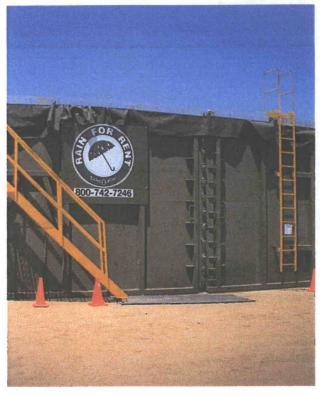
Contain more than 5 acre feet (1.7 million gallons) of water with just one tank. The LakeTank™ B-40 reduces traffic and carbon footprint on your jobsite, by replacing 80 traditional 500 BBL frac tanks and minimizes manifolding time.

#### Features:

- · Specially designed panel handling system for safe, rapid deployment
- Two OSHA compliant access/egress ladders
- · One stairway observation platform
- · Four 4" fill lines, Three 4" circulation lines
- One 12" low suction line for high volume pumping applications
- · Heavy duty connecting plates and pins for safe reliable containment
- Six temporary panel supports to ensure safety during installation
- · No easy access to the liner from outside the tank
- Standard liner is 40mil LLDPE
- Standard underlayment is 100Z Geotextile Ground Pad
- Reduced transportation costs: Complete tank structure is delivered on three trucks (6 truck trips vs. 98 for conventional 500bbl frac tanks)
- Reduced labor costs during manifolding and operation
- · Reduced heating costs
- Reduced site preparation costs (smaller footprint compared to 500bbl frac tanks)

# Specs:

Structure Diameter	160 ft.
Working Clearance	220 ft.
Capacity with 8" free board	40,280 BBL
Number of Panels	18
Number of Trucks to transport	3
Size of each Panel	12x28 ft.
Panel Weight (w/o insulation)	6,550 lb.
Liner Diameter	204 ft. Diameter
Liner Weight = 0.19 lb./sq. ft.	5,150 lb.



## Accessories:

- FreezeSentry<sup>™</sup> Heating equipment
- Tank Sidewall Insulation
- Floating Insulated Covers
- Bird Netting
- Filtration Equipment
- Temperature and Level Indicators/Alarms/Telemetry
- Various Liner Materials & Thicknesses
- · Additional Suction or Fill Lines



PUMPS . TANKS . FILTRATION . PIPE . SPILLGUARDS

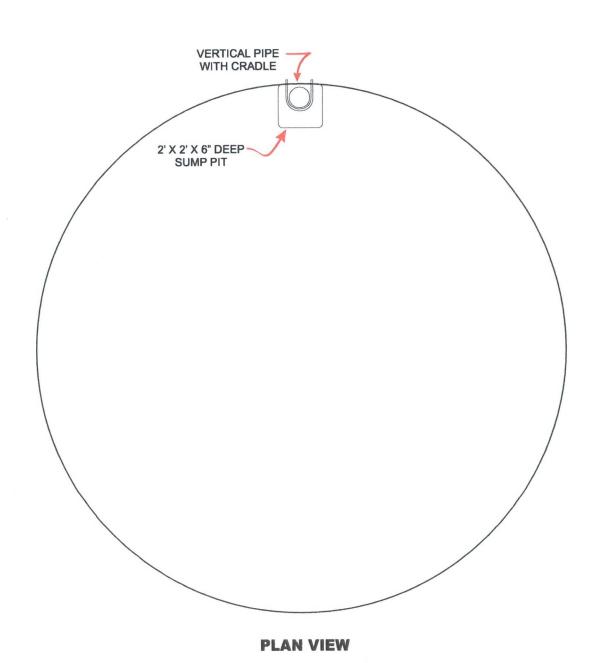
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# CONCEPTUAL DETAILS FOR DOUBLE LINED TANK SYSTEM WITH LEAK DETECTION/LIQUID REMOVAL PROVISIONS

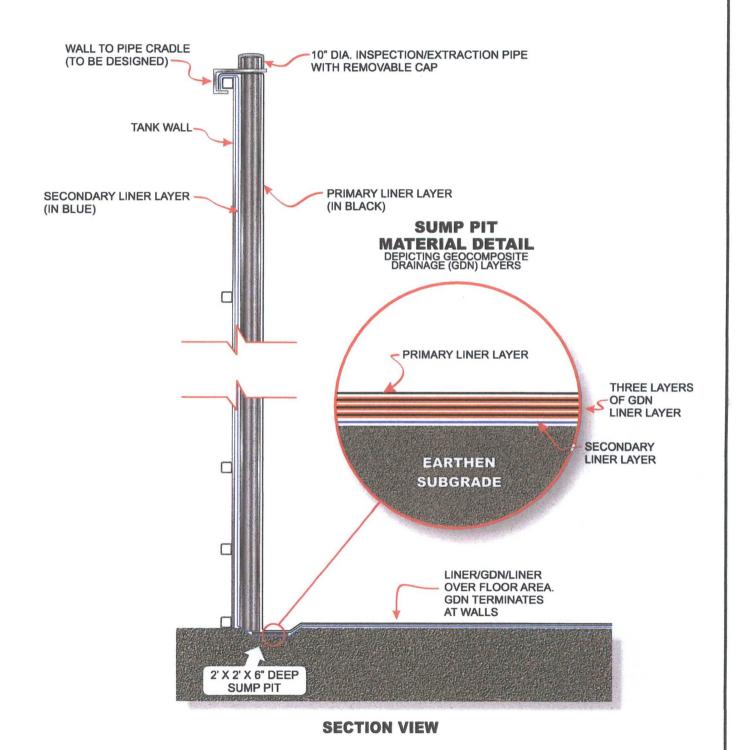
(SHEET 1 OF 2 NO SCALE)





# CONCEPTUAL DETAILS FOR DOUBLE LINED TANK SYSTEM WITH LEAK DETECTION/LIQUID REMOVAL PROVISIONS

(SHEET 1 OF 2 NO SCALE)



# **Enduring Resources, LLC's**

# Recycling Containment Migratory Bird Mitigation Plan

Enduring Resources, LLC (Enduring) is proposing this Migratory Bird Mitigation Plan (Mitigation Plan) in compliance with the New Mexico Oil Conservation Division (NMOCD) Rule 19.15.34.12.E Enduring shall ensure that the recycling containment is protective of wildlife by implementing the following proposed Mitigation Plan. Enduring employees will inspect the containment weekly for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring. This Mitigation Plan will utilize a combination of visual and audio deterrents to discourage wildlife, particularly birds and bats, from the recycling containment in order to mitigate potential impacts. This Mitigation Plan would be implemented while the Recycling Containment is active and in use, as to not desensitize birds to the deterrents.

The following mitigations will be implemented to reduce any wildlife impacts that may occur from the Recycling Containment:

- The following visual bird deterrents will be installed (Appendix A):
  - Bird-X Prowler Owl decoys will be installed at all four corners of the Containment.
  - Scare-Eye Balloons will be installed along the perimeter of the Containment.
- A Bird-X BroadBand PRO System will be installed at the Containment facility. It utilizes sonic (naturally-recorded bird distress calls & predator cries) to deter birds; as well as, ultrasonic highfrequency sound waves to deter bats. Bird propane cannons were avoided, so as not to disturb other wildlife species.
- The containment will be inspected on a weekly basis when water is present in the
  containment. All inspectors will insure the containment is receiving only filtered produced
  water with no hydrocarbons, as well as being trained to inspect the premises for, and
  respond to any wildlife incident, should it occur.
- Inspection will include:
  - An inspection of the filtration system and all visual and audio deterrents to insure they are in working order and functioning properly.
  - A thorough search of the entire containment facility, and just beyond, for the presence of any wildlife (entrapped, injured, dead, etc.).
- In the event a wildlife incident should occur, James McDaniel with Enduring will be
  contacted immediately and he will notify the appropriate wildlife agency and division
  district office. Enduring, appropriate wildlife agency, and division district office will then
  work collaboratively to address the incident appropriately to insure the incident does not
  reoccur.

# Appendix A: Visual and Audio Deterrents



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#### Bird Spikes

Bird Spikes Kits Stainless Steel Spilos Plastic Solkes

**Bird Netting** 

Drones

Laser Bird Control

Shock Track Systems

Sird Balls

Sind Wire

Visual Scares and Predator Decoys

Bird Gels, Taste Aversions, S. OveControl® P

For Songbird Lovers

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#### BroadBand PRO

Combines SONIC and ULTRASONIC Bird Control Technology Creates Uninviting Environment For Birds

Covers Up To SIX ACRES

#### IN STOCK - AVAILABLE IMMEDIATELY!

Deter Birds With Multi-Faceted Sonic and Ultrasonic Atlack! The BroadBand PRO's 4-speaker system simultaneously emits sounds that are both audible and inaudible to humans that confuse, disorient, and intimidate pest birds, keeping them away

Starting at \$850.00 NOW \$725.00 (15% SAVINGS!)

Voltage Options BroadBand PRO 110v (\$725

Quantity 1

Price \$725.00

Product Total \$725.00

Add & Combine

Seecs

Case Studies

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Backed by our 30 Day Electronics Performance Satisfaction Guarantee AND our 6-Month Manufacturer's Warranty Against Material Defects

Benefits

· Option to add 3 Visual Scares to package for added efficacy

Applications

- · Emits a combination of audible noises & high-frequency sound waves that are silent-to-most-humans
  - . SONIC: Uses naturally-recorded bird distress calls & predator ones; covers up to 6 acres
  - . ULTRASONIC: Uses high-frequency sound waves; covers up to 3,600 sq ft.
- 4 speakers included 4 independent speakers with 100 ft. of wire each
- Fully programmable control volume, sound delays, & daylight / night operation
- · Weather resistant NEMA type box is designed to withstand outdoor use
- . Option to add an essortment of three (3) high-quality visual scare ornibution



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# Prowler Owl

Proven Visual Scare

Saves Money on Cleanup & Repair Eliminates Bird & Small Post Problems Money-Back Guarantee

Decades-proven visual deterrent, improved with dynamic realism &

nearly everything it can catch. movement! Scare away birds & small pasts with this predator replica of the most-leaned aerial predator, the Great Horned Out, which catches & east

- · Carate and cathing design moreses effectiveness
- Accurate plumage & funting fight pose
   Instructing, glassy eyes "follow" pests
- Flavible wings move & Sup in the wind resistionly

pest birds or small cratters are a problem. are immobile install Provier Owl decay in any open outdoor area where Without movement, an oad scare is useless - don't be looked by mitations that



Drones

Bird Netting























Bird Wira

Bird Balts

Shock Track Systems

Laser Bird Control

Decoys > Visual Scares and Predator

& OvoControl® P Bird Gels, Taste Avertions,

For Songbird Lovers

Remote Control Drone

Retail Products

Quality Guarantee

thee from defect at the time of purchase. Customend to be manufactured to specifications &

Predeter and replica; life-size and

Oetais

Applications

Benefits

Add & Combine

Speci

- Out scare repais past birds & other small animals
- Always-moving "purting" posture keeps birds away
- 4-foct wingspan & accurate markings
- Covers up to 6,000 sq. ft. Safe humane, non-toxic, silent

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Visual Scares and Predator Decoys >

Bird Gels, Taste Aversions. & OveControl® P

For Songbird Lovers

Remote Control Drone











Guaranteed to be manufactured to specifications and free from defect at the time of purchase.

### Scare-Eye Balloons

- Simple, Highly Effective Sird Repellent
- Reduce Time & Energy Spent on Cleanup
- Reflective Mylar Eyes and Tails included

#### (3-Pack)

Keep birds away with these simple vinyl ball visual deterrents that move with the wind & intimidate pest birds within visible range.

- · Includes three balloons one white, one yellow, one black
- · Easy to use, cost-effective solution hang the balloons anywhere
- · Balloons move in the wind for fear of movement

Scare Eye® balloons are useful in many applications - homes, gardens. barns, trees, garages, marinas, doorways, & many more

Quantity 1

Price \$ 32.55

Product Total \$ 32.55

Reviews

Details

Applications

Benefits Add & Combine

Specs

- · Predator decoy: 3D balloons
- Three balloons included: one (1) white, one (1) black, and one (1) yellow
- · Includes mylar eyes, mylar tails, and strings for each balloon
- · Westherproof, vanyl, inflatable balloon
- . Design exaggerates the glaring stare and gaping mouth of natural predators
- . Wind causes the Scare-Eye Balloons to move in the wind, increasing efficacy
- Easy installation