

**2RF-109
JT PIT FACILITY ID
[fMLB1722856120]
C-147/Change of
Operator.**

**[7377] EOG RESOURCES
INC
08/21/2023**



P.O. Box 2267, Midland, Texas 79702
Phone: (432)848-9133

August 4, 2023

Ms. Victoria Venegas, Environmental Specialist
EMNRD- Oil Conservation Division
506 W. Texas Artesia, NM 88210

Re: EOG: JT Pit Reuse Recycling Facility and Containment

Dear Ms. Venegas:

Thank you for allowing EOG to continue to promote water reuse in the State of New Mexico for our operations. EOG Resources Inc., acquired a reuse pit previously owned and operated by [246289] RKI Exploration. The acquired pit was previously permitted as "RDX Section 16 Recycling Containment (RF109) located in Eddy County: Unit D, Section 16 Township 26S Range 30E. Transfer was conducted under Lease No. BL-2504, and signed in April of 2022 with an effective date of February 3, 2022 by the Commissioner of Public State Land Office.

EOG Resources respectfully request permission to re-permit the acquired pit from [246289] RKI Exploration and Production as the "JT Pit" under [7377] EOG Resources Inc. Attached you will find our C147 application renaming the facility along with all necessary supporting documents. Please do not hesitate to contact us with any questions or concerns.

Sincerely,

Patricia Donald

Patricia Donald

JT Pit



Operated by: EOG Resources, Inc

OGRID# 7377

5509 Champions Drive,

Midland, TX 79706

April 2023

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Appendix A:

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 - Business Lease No. BL-2503
 - Assignment of Business Lease
- Liner Leak Report and Repair Invoice
 - Leak Report (by Leak Location Services, Inc.)
 - Leak Repair Invoice (by Mustang Extreme Environmental Services, LLC)
- Financial Assurance

Professional Engineer Certification

PROFESSIONAL ENGINEER CERTIFICATION

19.15.34 NMAC Professional Engineer Certification
FOR
EOG RESOURCES
JT REUSE PIT
SEC 16 T26S-R32E
EDDY COUNTY
(LAT: 32.046524 LONG: -103.89348)

Being familiar with the provisions of 19.15.34 NMAC, I attest to the following:

- I am familiar with the requirements of this part.
- I have visited & examined the Facility located at **Lat: 32.046524 & Long: -103.89348**
- The recycling containment is built as per 19.15.34.10 NMAC.
- The recycling containment meets the siting requirements as per 19.15.34.11 NMAC.
- The recycling containment meets the design & construction specifications as per 19.15.34.12 NMAC.
- The recycling containment will be operated as per 19.15.34.13 NMAC.
- This certification is based on a site visit on April 19, 2023 and information validated as in Appendix A and Appendix B of this report.

Printed Name of Registered
Professional Engineer:

GAUTAM K AGRAWALA

Signature of Registered
Professional Engineer:



Date:

05/10/2023

Registration No.:

28671

Seal:



Form C-147

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

Form C-147
 Revised October 11, 2022

Recycling Facility and/or Recycling Containment

Type of Facility: ☐ Recycling Facility ☒ Recycling Containment*

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

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

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

1.
 Operator: EOG RESOURCES, INC (For multiple operators attach page with information) OGRID #: 7377
 Address: 5509 Champions Drive, Midland, TX 79706
 Facility or well name (include API# if associated with a well): JT Pit
 OCD Permit Number: 2RF-106 (For new facilities the permit number will be assigned by the district office)
 U/L or Qtr/Qtr D Section 16 Township 26S Range 30E County: Eddy
 Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Recycling Facility:**
 Location of recycling facility (if applicable): Latitude 32.0464979N Longitude -103.8933291W 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 _____ Longitude _____ NAD83
☐ For multiple or additional recycling containments, attach design and location information of each containment
☒ Lined ☒ Liner type: Thickness 60 mil ☐ LLDPE ☒ HDPE ☐ PVC ☒ Other 40 mil (see Attachment 9 for details) _____
☒ String-Reinforced
 Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 473,058 bbl Dimensions: L 650 x W 450 x D ~17 _____
☐ Recycling Containment Closure Completion Date: _____

4.	<p><u>Bonding:</u></p> <p><input checked="" type="checkbox"/> 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.)</p> <p><input type="checkbox"/> Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ _____ (work on these facilities cannot commence until bonding amounts are approved)</p> <p><input type="checkbox"/> Attach closure cost estimate and documentation on how the closure cost was calculated.</p>																				
5.	<p><u>Fencing:</u></p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input checked="" type="checkbox"/> Alternate. Please specify _____ 6 foot chain link fence _____</p>																				
6.	<p><u>Signs:</u></p> <p><input checked="" type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input type="checkbox"/> Signed in compliance with 19.15.16.8 NMAC</p>																				
7.	<p><u>Variances:</u></p> <p>Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.</p> <p><i>Check the below box only if a variance is requested:</i></p> <p><input checked="" type="checkbox"/> 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.</p> <p>If a Variance is requested, it must be approved prior to implementation.</p>																				
8.	<p><u>Siting Criteria for Recycling Containment</u></p> <p><i>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.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"><u>General siting</u></th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td> <p><u>Ground water is less than 50 feet below the bottom of the Recycling Containment.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA </td> </tr> <tr> <td> <p>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.</p> <p>- Written confirmation or verification from the municipality; written approval obtained from the municipality</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA </td> </tr> <tr> <td> <p>Within the area overlying a subsurface mine.</p> <p>- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>Within an unstable area.</p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>Within a 100-year floodplain. FEMA map</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>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).</p> <p>- Topographic map; visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <p>- Visual inspection (certification) of the proposed site; aerial photo; satellite image</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>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.</p> <p>- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> <tr> <td> <p>Within 500 feet of a wetland.</p> <p>- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> </tbody> </table>	<u>General siting</u>		<p><u>Ground water is less than 50 feet below the bottom of the Recycling Containment.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	<p>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.</p> <p>- Written confirmation or verification from the municipality; written approval obtained from the municipality</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	<p>Within the area overlying a subsurface mine.</p> <p>- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>Within an unstable area.</p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>Within a 100-year floodplain. 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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): Patricia Donald Title: Regulatory

Signature: Patricia Donald Date: 04/27/2023

e-mail address: patricia_donald@eogresources.com Telephone: 432-488-7684

11.

OCD Representative Signature: Victoria Venegas Approval Date: 08/21/2023

Title: Environmental Specialist OCD Permit Number: 2RF-109

- ☒ OCD Conditions
- ☐ Additional OCD Conditions on Attachment

Appendix A: Original RDX Report

Section 16 Recycling Containment Form C-147, June 2017



A subsidiary of WPX Energy, LLC

RDX Section 16 Recycling Containment

Form C-147

RKI Exploration and Production, LLC

OGRID # 246289

5315 Buena Vista Dr.

Carlsbad, NM 88220

June 2017

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Attachment 5 – OSE Wells Report
Attachment 6 – Surface Water Features
Attachment 7 – Hydrology Map
Attachment 8 – Design Drawings
Attachment 9 – Liner Specifications
Attachment 10 – Containment Inspection Checklist

1. Introduction

RKI Exploration and Production, LLC (RKI) is submitting this Form C-147 and attachments in order to request registration under 19.15.34 NMAC of the RDX Section 16 Produced Water Recycling Containment in Eddy County.

2. Containment Description

The containment will be a non-commercial facility intended for the temporary storage of produced water prior to reuse in hydraulic fracturing of new oil and gas wells. The containment will be authorized to receive only produced water from RKI-operated wells. RKI will not provide waste management services to third parties, except as part of joint operating agreement or in response to an emergency. This containment facility will not include any land treatment or land application sites. This site will be permitted and managed in compliance with local, state, and Federal requirements.

3. General description of the site location

3.1 Surface owner information

New Mexico State Land Office is the surface owner therefore an application for a Business Lease to Construct/Operate a Recycling Containment Facility will be submitted to the SLO for prior approval. A copy of this C-147 application will be submitted to the NMSLO.

3.2 Legal description

The containment is located in Eddy County in the NW ¼ NW ¼ of Section 16, Township 26 South, Range 30 East of the 6th P.M.; and at Latitude 32.0464979°N and Longitude -103.8933291°W NAD83. The Containment is located 177' from the west section line and 1044' from the north section line. The distances were measured at 90 degrees from the nearest section lines to facility boundary.

3.3 Adjacent Land use

Attachment 1 illustrates that the containment is not located within 1,000' of a permanent residence, school, hospital, institution or church in existence at the time of the initial registration. The nearest municipality is the town of Loving located approximately 20 miles northwest of the containment. The surrounding area is currently utilized for active oil and gas development.

4. Geologic Data

4.1 Soil Description

The Geologic Map of New Mexico by the NM Bureau of Geology and Mineral Resources (2003) identifies the site area as older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (middle to lower Pleistocene)—Includes scattered lacustrine, playa,

and alluvial deposits of the Tahoka, Double Tanks, Tule, Blackwater Draw, and Gatuña Formations, the latter of which may be Pliocene at base; outcrops, however, are basically of Quaternary deposits.

The exploratory lithologic log (Attachment 2) indicates white caliche from the surface to a depth of 20 ft, followed primarily by sandstone of various colors and limited gravels to 125 ft. The log supports the geologic description and indicates competent geology and foundational materials for the proposed Containment.

The NRCS report and Soil map are included in Attachment 3.

4.2 Distance to Cave/Karst Features

The containment is located within a BLM-identified medium cave and karst potential; see Attachment 4.

4.3 Distance to Subsurface Mines

Based on the NM EMNRD Mining and Mineral Division database, there are no surface or subsurface mining activities or evidence of mining activities in the vicinity of the proposed site.

5. Hydrologic Data

5.1 Distance to Groundwater

An exploratory well bore was drilled on May 11, 2017 and completed the following day at the proposed RDX Section 16 Containment site. The well was drilled to a depth of 125 ft with no water encountered. When the exploratory activities were completed, the well was plugged in accordance with the SOE requirements. The lithologic log, Attachment 2, indicates white caliche from the surface to a depth of 20 ft, followed primarily by sandstone of various colors to 125 ft.

A review of the New Mexico Office of the State Engineer's (OSE) water well records, Attachment 5, shows no freshwater wells within a 1 mile radius of the proposed site. Four water wells were identified beyond the one mile radius and within the two mile radius. The depth of water reported at the four wells ranged from 173 feet to 320 feet in depth. The nearest well, approximately 1.25 miles away, had a reported depth of 200 feet.

The reported surface elevation at the proposed site is 3048 ft. Assuming the RDX Section 16 containment is 20 feet deep, the bottom of the containment will be at elevation 3028 ft. The elevation of the bottom of the exploratory well bore is 2923 ft. (3048' – 125'). As required by OCD rule 19.15.34.11, the evidence indicates that no ground water is present within 100 feet of the bottom of the proposed containment.

The NRCS lists the Depth to Water Table for the facility location as ">200"; see Attachment 3 for the NRCS Soil Report.

5.2 Surface Water Features

Two ephemeral drainages, shown in the Attachment 6, are located to the north and south of the proposed facility. Tucker Draw is located approximately 2100 feet to the southeast and an un-named drainage is located 1600 feet to the north. A stock pond is located on the northern drainage approximately 2700 ft. to the northeast.

Attachment 7 illustrates that the containment is not located within 500 feet of a spring or fresh water well used for domestic

5.3 Site Location in Relation to Floodplain

Based on the information from the Federal Emergency Management Agency, the containment is located within the area of minimal flood hazard; see Attachment 7.

The NRCS lists the Flood Frequency Class for the facility location as "None"; see Attachment 3 for the NRCS Soil Report for the Flood Frequency information.

5.4 Annual Precipitation and Evaporation

Average annual precipitation, based on precipitation records from Loving, NM weather station, is 11.83 inches. Average annual gross evaporation, based on NOAA Technical Report NWS – 33 is estimated to be 75.0 inches. Monthly distributions are provided below.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Annual Precipitation (in.)*	0.4	0.28	0.39	0.62	1.53	1.06	1.46	1.83	1.82	1.39	0.5	0.55	11.83
Average Annual Evaporation (in.）**	0.8	2.3	4.5	6.8	9.4	11.6	12.0	9.8	8.3	5.6	3.0	1.1	75.0

* Precipitation Data from Western Regional Climate Center - Loving, NM Weather Station 295199
 ** NOAA Technical Report NWS 33 - Map 3 "Free Water Surface Evaporation 1956 - 1970"

5.5 Evaluation of Potential Impacts to Surface and Groundwater

The primary function of the facility is to store produced water extracted from RKI's oil and gas wells. The approved liner system consists of a 60 mil HDPE primary liner, a 200 mil geogrid, 40 mil string reinforced secondary HPDE liner, and a tertiary geosynthetic clay liner. The geogrid is located in the interstitial space between the primary and secondary liner. A monitoring sump provides for observation of water levels, if present, in the interstitial space, and allows for the removal of any accumulated liquids that passes through the primary liner so that hydraulic heads on the secondary liner are kept to a minimum. Installation of the

liner system included double welded fusion seams that were subjected to quality control pressure and integrity testing. Periodic hydrostatic tests are conducted to verify liner integrity.

6. Facility Design and Engineering

The recycling facility includes:

- one HDPE lined containment
- off-loading pad
- mobile third party treatment equipment

The containment will have a total capacity of 473,058 barrels; working volume with 3' of freeboard is 367,422 barrels. The containment dimensions will be 650 ft. in length by 450 ft. wide and ~17 ft. deep. The containment will be constructed below natural grade with up to 3' perimeter berm to prevent stormwater run-on. In accordance with 19.15.34.13 B.(2), at least three feet of freeboard will be maintained at all times therefore fluids will always be contained in the cut portion of the containment. See Attachment 8 for a certified design drawings.

6.1 Liner Specifications and Installation

The double liner system consists of a 60 mil primary liner and a 40 mil string reinforced secondary liner underlain with 10-ounce geotextile underlayment. An interstitial leak detection geonet is located between the primary and secondary liners. The liner edges will be secured with at least an 18 inch anchor trench around the containment perimeter. The liner seams will be kept to the minimum and will be oriented up and down and not across. Prior to field seaming, the liners will be overlapped four to six inches. All seams will be pressure tested to ensure integrity of the liner system.

The discharge and withdrawal of fluids will be completed through a loading station to protect the liner from excessive hydrostatic force or mechanical damage; hoses will not be placed directly onto the liner. The suction hose (unloading) area will be lined with an additional 60 mil liner.

Because RKI made a decision to install a 40-mil reinforced liner instead of the recommended 30 mil, this permit application is also a variance notification. See Attachment 9 for liner specification.

6.2 Leak Detection

As described in section 7.1., the liner system will consist of a 60 mil HDPE primary liner, a 200 mil geogrid, 40 mil string reinforced secondary HPDE liner, and a 10 ounce geotextile underlayment. The geogrid will be located in the interstitial space between the primary and secondary liner. A leak detection system (monitoring sump) provides for observation of water levels, if present, in the interstitial space, and allows for the removal of any accumulated liquids that passes through the primary liner so that hydraulic heads on

the secondary liner are kept to a minimum. Installation of the liner system included double welded fusion seams that will be subject to quality control pressure and integrity testing.

6.3 Stockpiling of Topsoil

Where topsoil is present, prior to constructing the recycling containment, it will be stripped and stockpiled on site for use as fill cover or fill at the time of closure.

6.4 Signs

An upright sign no less than 12 inches by 24 inches with lettering no less than two inches in height will be installed in a conspicuous place on the fence surrounding the containment. the sign will be installed in such a manner and location that a person can easily read the legend. The sign will include the following information:

- Operators name
- The location of the site by quarter-quarter or unit letter, section, township and range
- Emergency telephone numbers

6.5 Fencing

The containment will be enclosed in a 6-foot chain link fence to prevent unauthorized wildlife and human access. RKI will keep the fence in good condition and will ensure that the fence is closed and locked when responsible personnel are not onsite.

6.6 Netting

In order to comply with the Migratory Bird Treaty Act, a sonic bird deterrent system will be installed at the containment location. The facility will be visually inspected at least monthly for wildlife impacts. If any dead migratory birds or other wildlife is detected, RKI will notify the New Mexico Department of Game and Fish and NMOCD District Office as soon as practicable but no later than 30 days from the date of discovery. The bird deterrent system specifications are included in Attachment 11 – Bird X Mega Blaster Pro Specifications.

7. Operating Plan

7.1 General Description

The primary function of the recycling containment is to manage produced water and flowback prior to reuse for remote hydraulic fracturing operations. Water transported to the location will be treated for solids, hydrocarbons and bacteria utilizing a third-party contractor and their temporary equipment. The only in-containment treatment potentially needed might be the application of biocide in the summer months to prevent bacteria growth and potential associated odor concerns.

Before fracturing operations, produced water will be removed from the containment, sampled and amended as needed. RKI, through its operating entities, owns leases in the Delaware Basin and the current fracing schedule includes completing wells in New Mexico and Texas.

Volumes of produced water reused for completion operations will be tracked and documented. RKI will submit Form C-148 monthly to NMOCD within 30 days of the end of the calendar month listing volumes of produced water and volumes of freshwater received and the total volume leaving the recycling facility. Each submittal will certify that at least 20% of the of the total fluid capacity is used every six months following the first withdrawal of produced water for use. 3' of freeboard will be maintained at all times.

7.2 Site Security

The containment will be authorized to receive only produced water from RKI-operated wells. The containment will be enclosed in a 6-foot chain link fence to prevent incidental access. The location will be manned during completion operations and will be locked when unattended. Personnel will be instructed to report any unusual or apparently unauthorized use of the facility to their manager immediately.

7.3 Inspections

The recycling containment will be inspected routinely while it contains fluids and results of the inspection will be documented on an inspection checklist; see Attachment 10.

The following data will be collected at the indicated frequency:

ITEM	FREQUENCY
Fence Condition	weekly
Liner Condition	weekly
Oil Accumulation	weekly
Housekeeping	weekly
Berm	weekly
Spills/stains	weekly
Wildlife in Containment	weekly
Excessive Odors	weekly
Storage Levels/freeboard	weekly
Leak Detection System	weekly

7.4 Maintenance

- Liner maintenance and repairs performed on the facility as needed and as recommended by the manufacturer of the liner
- Periodic oil skimming of the containment, as needed

- Cleaning of the containment walls as needed
- Odor control using biocide as needed

8. Safety Procedures

8.1 Emergency Response Plan

In the event of an immediate threat to human health and the environment, please refer to the most current WPX Energy Emergency Response One Plan maintained at RKI's Carlsbad office.

8.2 Hazard Description

Special precautions must be taken when working near the containment. The sloping liner material is difficult to walk on when dry and impossible to walk on when wet, frosted, or covered with snow. Walking on the sloped area is certain to result in immersion in the containment under these conditions. If snow is present at the containment perimeter, it is impossible to determine if the area to be traversed is underlain by soil or liner material. If the water in the containment is cold, survival time if immersed is less than 10 minutes.

8.3 Containment Access Requirements

The following special safety precautions must be followed for the facility:

- Only authorized personnel, trained in the hazards and proper work practices shall be allowed to access the fenced area
- All personnel who have access to the facility, including contract water haulers, must be briefed on the safety hazards
- A rub layer will be in place to provide an escape route if needed.
- A ring buoy with an adequate length of rope to rescue an immersed party without entering the sloped area of the containment
- An anchored support rope to help maintain balance and footing while walking the containment slope
- The containment may not be accessed if the liner is wet or in the winter season without employing the buddy system. One person must remain on the containment perimeter, in direct view of the individual working in the containment. The flotation vest must be worn by the individual accessing the containment.
- If possible, containment maintenance activities should be avoided if the liner is wet, frosted, or covered with snow.

8.4 Personal Protective Equipment

Protective equipment requirements and procedures described by WPX Hazard Communication program and Personal Protective Equipment program shall be followed when contact with produced water or condensate is possible.

9. Closure Plan

9.1 Evacuation of Containment Contents

Once RKI cease the operations, all fluids will be removed from the containment within 60 days and the containment will be closed within six months, unless contamination is discovered. At that point, the closure schedule will depend on the remedial actions. If an extension for the containment closure is needed, RKI will submit an extension request to the division district office for prior approval.

All free-standing liquids will be removed from the containment at the start of the closure process. Liquids will be removed in a manner that the appropriate District Office approves including recycling, injection into a permitted injection well or disposal at a commercial facility. Once all free liquids are removed, if sludge is present, it will be stabilized/solidified and disposed of at a commercial facility.

9.2 Liner Integrity Assessment

The containment liner will be inspected prior to removal to identify any tears or rips. Once the liner system is removed, the containment sub-soils will be evaluated for evidence of staining and possibly impacts.

9.3 Evaluation of Sub-Soils

A five point composite sample will be collected and tested for the constituents listed in Table 1. Depth to groundwater measured from the containment bottom is greater than 100' therefore the following cleanup standards will apply:

Table 1 Closure Criteria for Recycling Containments

Components	Testing Methods*	Limits (mg/kg)**
Benzene	EPA SW-846 Method 8021B or 8260B	10
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 8015M (Full Range)	2500
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	1000
Chlorides	EPA SW-846 Method 300.1	20000

*Or other standards approved by the division

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

If any contaminant concentrations exceed the values listed in Table 1, RKI will submit a delineation and remediation plan to the NMOCD district office for prior approval. If all contaminant concentrations are less than or equal to the parameters listed in Table 1, RKI backfill the containment with a non-waste containing, uncontaminated earthen material.

9.4 Recontouring

All manmade structures and equipment will be removed from the site. All access roads that will no longer be in use shall be closed, graded and recontoured. Culverts and any other obstructions that were part of the access road(s) shall be removed. Topsoil and subsoils will be contoured as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

9.5 Closure Report

A closure report, Form C-147, will be submitted within 60 days of closure completion. The report will include attachments documenting closure activities such as sampling reports, details on backfilling activities, capping and/or covering. The closure report will also certify that all information in the report and attachments is correct and that RKI has complied with all applicable closure requirements and conditions specified in division rules or directives.

9.6 Re-Vegetation

The condition of the soil is important for the establishment of a healthy self-sustaining environment. Soil amendments will be utilized, as applicable. To alleviate soil compaction, the substrate will be cross ripped. RKI shall seed the disturbed areas the first growing season after the containment is covered. Reclamation of all disturbed areas no longer in use will be considered complete when all ground surface disturbing activities at the site have been competed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus 50% of pre-disturbance levels and a total percent plant cover of at least 70% or pre-disturbance levels, excluding noxious weeds. Repeat seeding or planting will be continued until successful vegetative growth occurs. RKI will notify the division when reclamation and re-vegetation activities are completed.

10. Financial Assurance

RKI has an existing financial assurance in place with NMOCD as required by 19.15.8 NMAC and use of the recycling containment will be limited to support completion of wells only owned by RKI Exploration or any other of WPX Energy subsidiaries. Therefore, no additional financial assurance associated with the containment is required.

11. Variance Requests

This registration includes requests for three variances for the recycling containment as described below.

11.1 Secondary Liner Specification.

The recycling containment will be constructed with a 40 mil string reinforced HDPE liner instead of the prescribed LLDPE 30 mil liner. HDPE was selected as the preferred secondary liner material based upon weathering/aging characteristics, mechanical properties and chemical resistance. HDPE liner life is expected to be 20 years which is substantially longer than the anticipated age of the recycling containment. RKI believes that the variance from NMOCD prescribed liner specification is warranted and provides greater protection of groundwater resources.

11.2 Fencing

The recycling containment will be fenced with a 6-foot chain link fence instead of the prescribed 4-foot barb wired fence. However, the proposed fence will provide a better entry deterrence to wildlife and unauthorized public access.

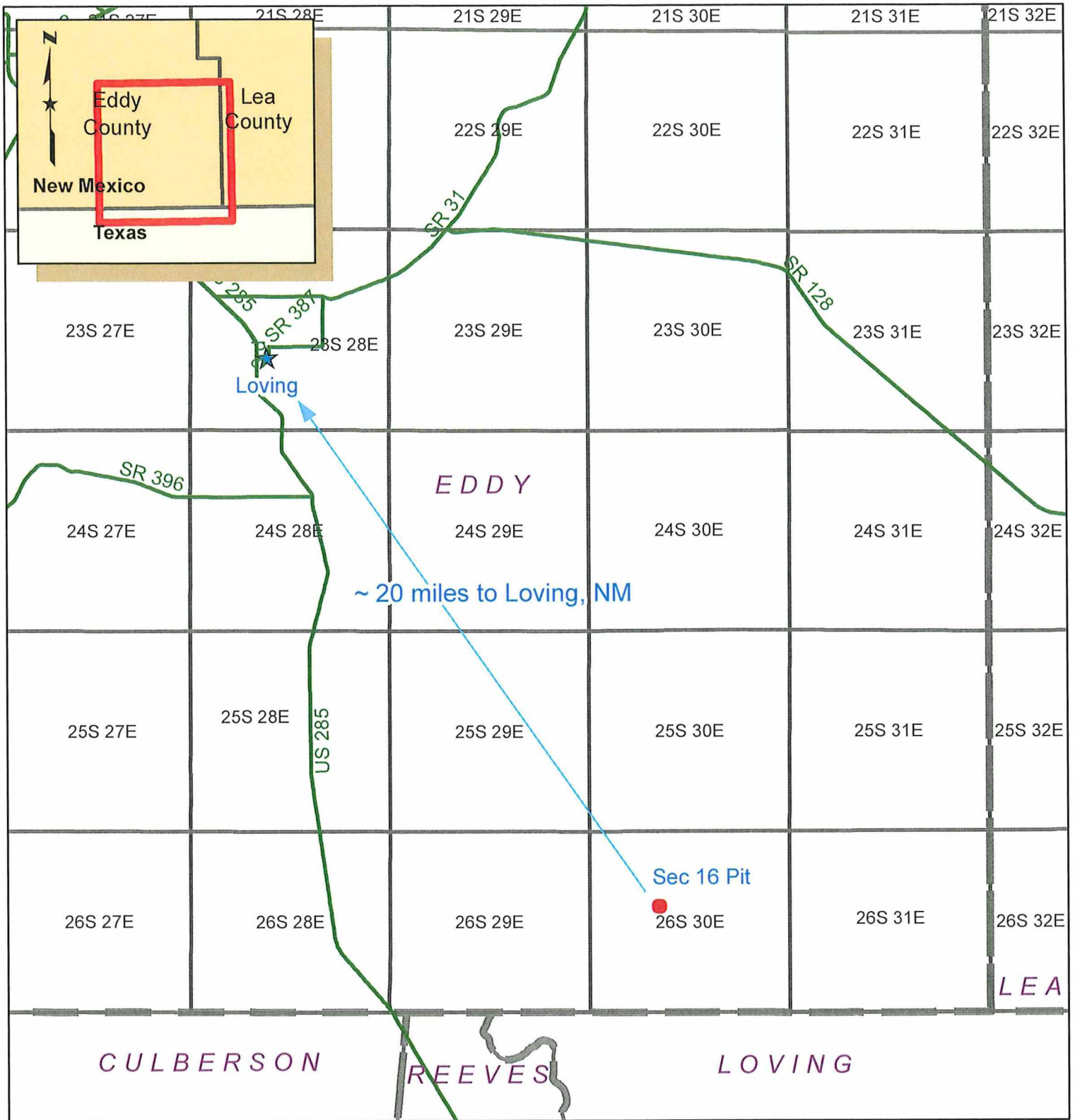
11.3 Netting

The recycling containment will be equipped with a sonic protection system which effectively deters birds from approaching the area. Due to the size of the proposed recycling containment, design, construction and maintenance of netting is not practicable. RKI has determined that an auditable system will provide the best protection and selected the Bird-X Mega Blaster Pro for use. This system has been used by other operators in the southeast area and has been proven effective.

12. Recordkeeping

Records will be maintained at RKI's Carlsbad, New Mexico field office. RKI maintains inspection forms, maintenance documentation, throughput calculations, and analytical sample data within the facility's data management system, which may include use of multiple databases, spreadsheets, log sheets, and sampling results. These records will be maintained for a period of five (5) years and made available for review upon request from NMOCD.

Attachment 1 – Distance to Nearest City Map

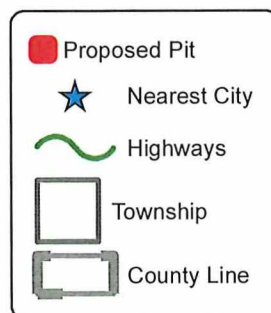


Sources:
 BLM - CFO
 FEMA
 NM OSE
 USDA
 USGS
 Playa Lakes Joint Venture

Scale (absolute) -
 1:250,000

RDX_Sec16Pit_RBW_Cities_170309
 Updated: 3/9/2017

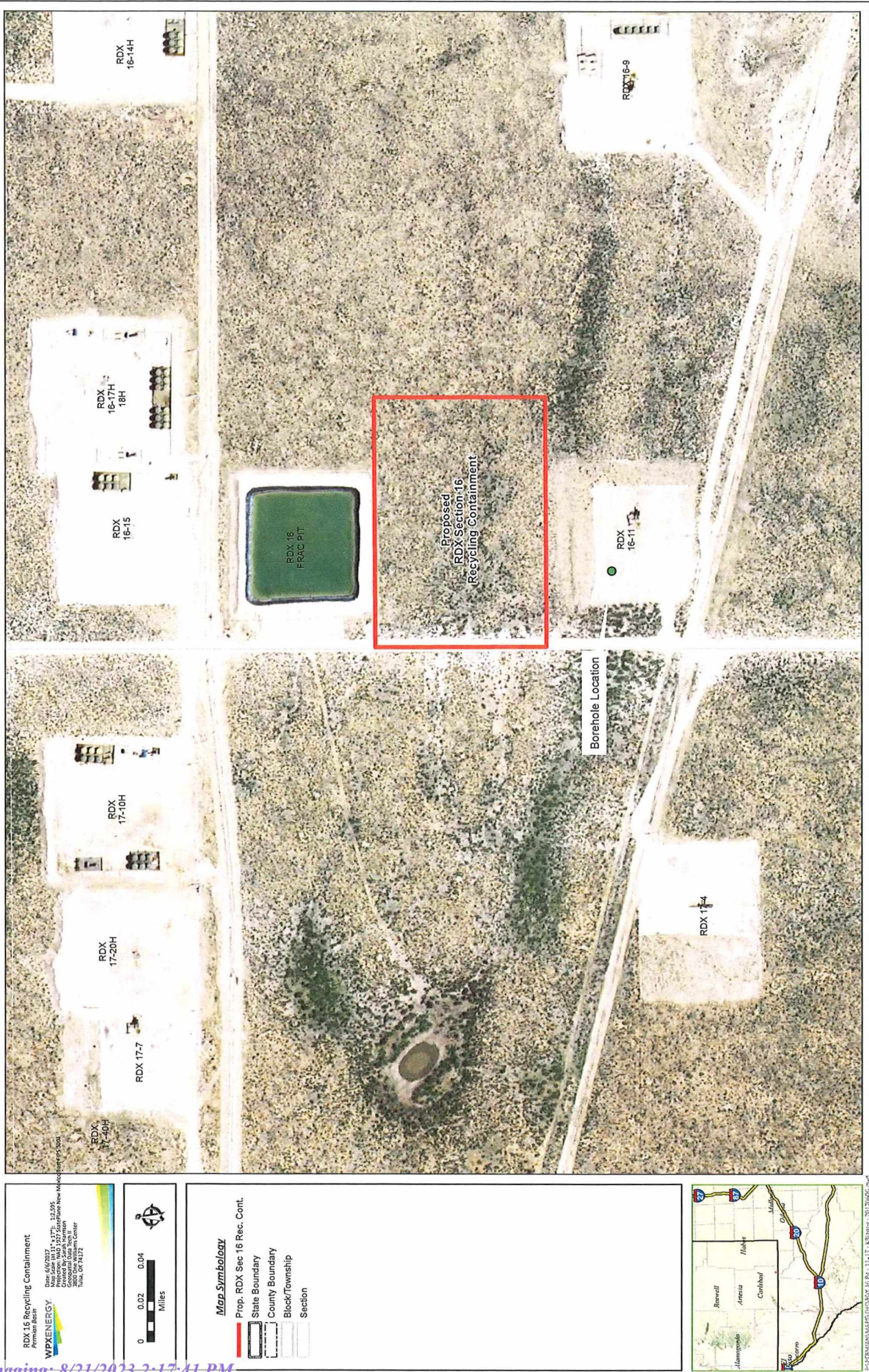
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RDX Section 16
Nearest City
 Eddy County, NM
 T26S R30E

\\GIS\Projects\Permian\RDXSection16Pit\

Attachment 2 – Soil Boring



Project: Rule 12 Exploratory Boring		Project Number: 5E25852		Client: RKI		Boring No. 1		
Address, City, State 3500 One Williams Center MD Tulsa, OK				Drill Rig Type: Air Rotary				
Logged By: Lucas Middleton		Date	Started: 5/11/2017		Bit Type: Auger, Tri Cone		Diameter: 6.625 in	
Drill Crew: Atkins Engineering			Completed: 5/12/2017		Location: 32.045541 -103.894231			
			Backfilled: Type I/II Neat Cement					
			Groundwater Depth: Greater than 125'		Elevation: 3084 ft.		Total Depth of Boring: 125'	
Depth (feet)		Sample	Lithology					
20			white calchie (0-5') samle gravel calchie, fin light brown sand with samll gravel					
40			Tan sand , medium gravel, Sandstone					
50			White, tanish sandsandstone					
60			Very Fine sandstone tanish					
70								
80								
90								
100			Fine redsish tan sandstone					
110								
120			Fine redish sandstone with small layers of redish clay					
130		X	TD- 125' - Sample Colleted No water found to depths of 125'					

SMA

Boring Log: Sheet 1_of _1

☒ Standard Penetration Slit Spoon Sampler (SPT)

☒ Bulk/ Bag Sample

Attachment 3 – NRCS Report



United States
Department of
Agriculture

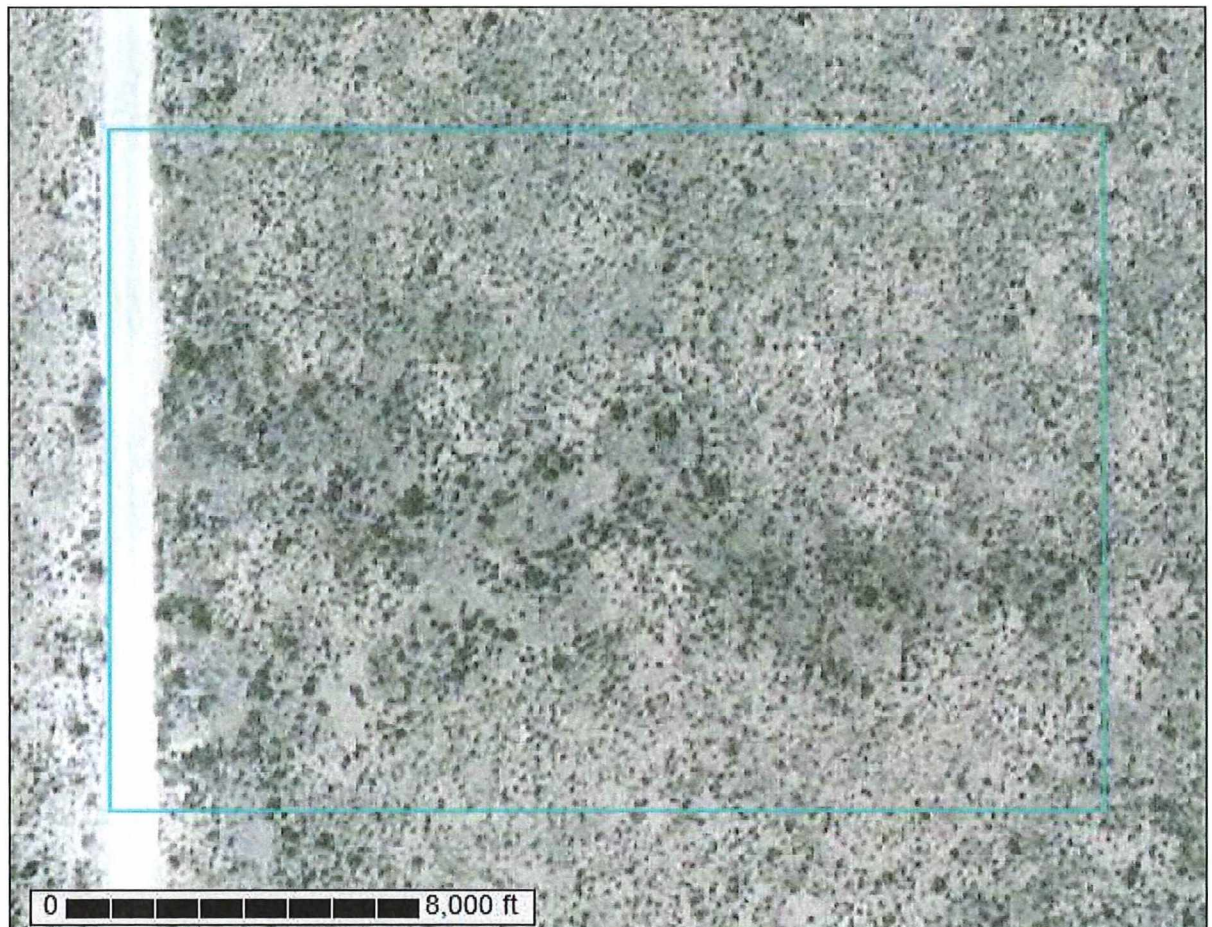
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Eddy Area, New Mexico

WPX Energy's RDX Section 16
Recycling Containment



May 22, 2017

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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 Water Features..... 21

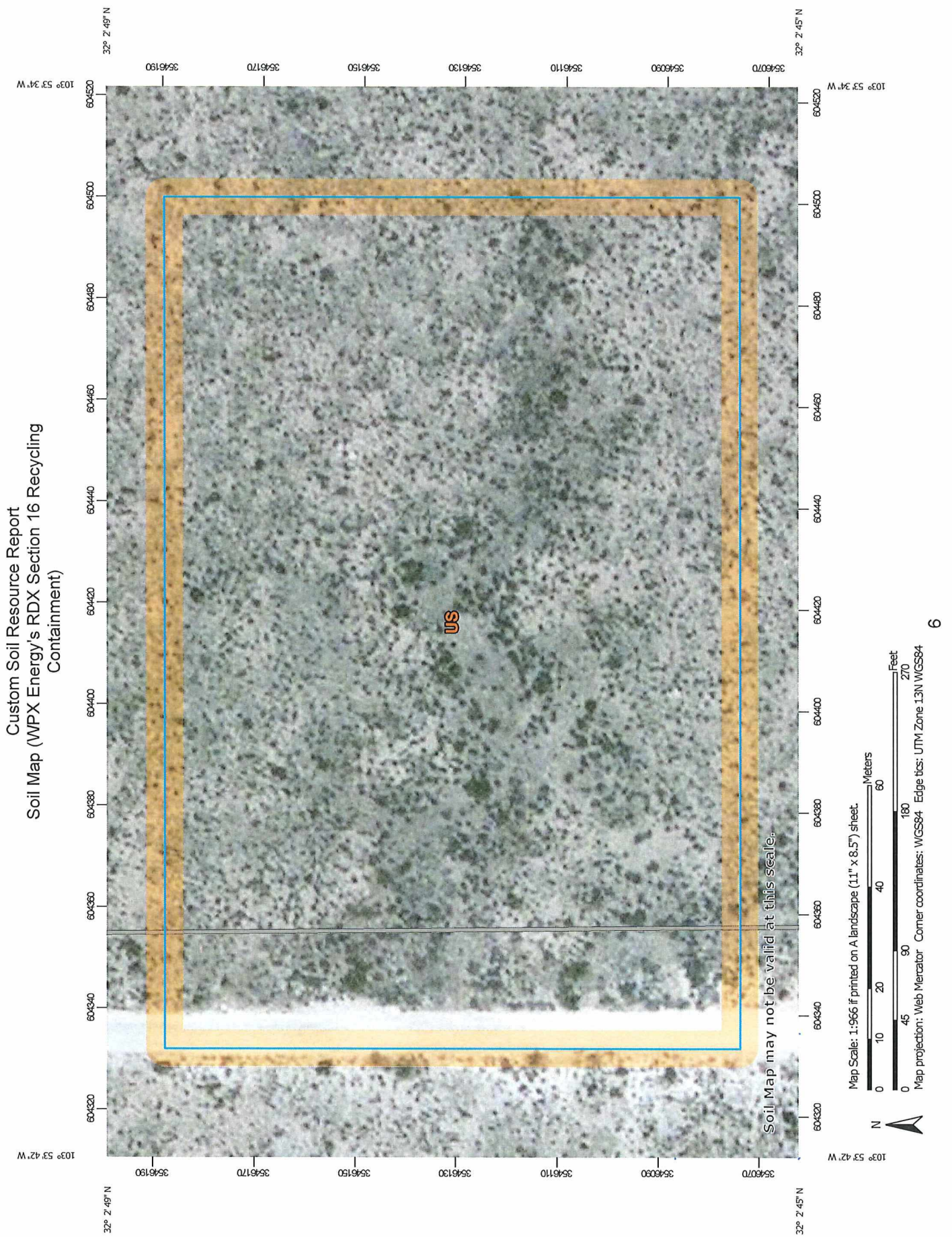
 Depth to Water Table21

 Flooding Frequency Class.....25

References.....29

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend (WPX Energy's RDX Section 16 Recycling Containment)

Eddy Area, New Mexico (NM614)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	4.7	100.0%
Totals for Area of Interest		4.7	100.0%

Map Unit Descriptions (WPX Energy's RDX Section 16 Recycling Containment)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

Custom Soil Resource Report

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

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Eddy Area, New Mexico**US—Upton-Simona complex, 1 to 15 percent slopes, eroded****Map Unit Setting**

National map unit symbol: 1w66
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 40 percent
Simona and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton**Setting**

Landform: Fans, ridges
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 1 to 15 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 75 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: Shallow (R042XC025NM)
Hydric soil rating: No

Custom Soil Resource Report

Description of Simona**Setting**

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: gravelly fine sandy loam
H2 - 6 to 20 inches: gravelly fine sandy loam
H3 - 20 to 24 inches: indurated

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: Shallow Sandy (R042XC002NM)
Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Building Site Development

Building site development interpretations are designed to be used as tools for evaluating soil suitability and identifying soil limitations for various construction purposes. As part of the interpretation process, the rating applies to each soil in its described condition and does not consider present land use. Example interpretations can include corrosion of concrete and steel, shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns and landscaping.

Shallow Excavations (WPX Energy's RDX Section 16 Recycling Containment)

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by

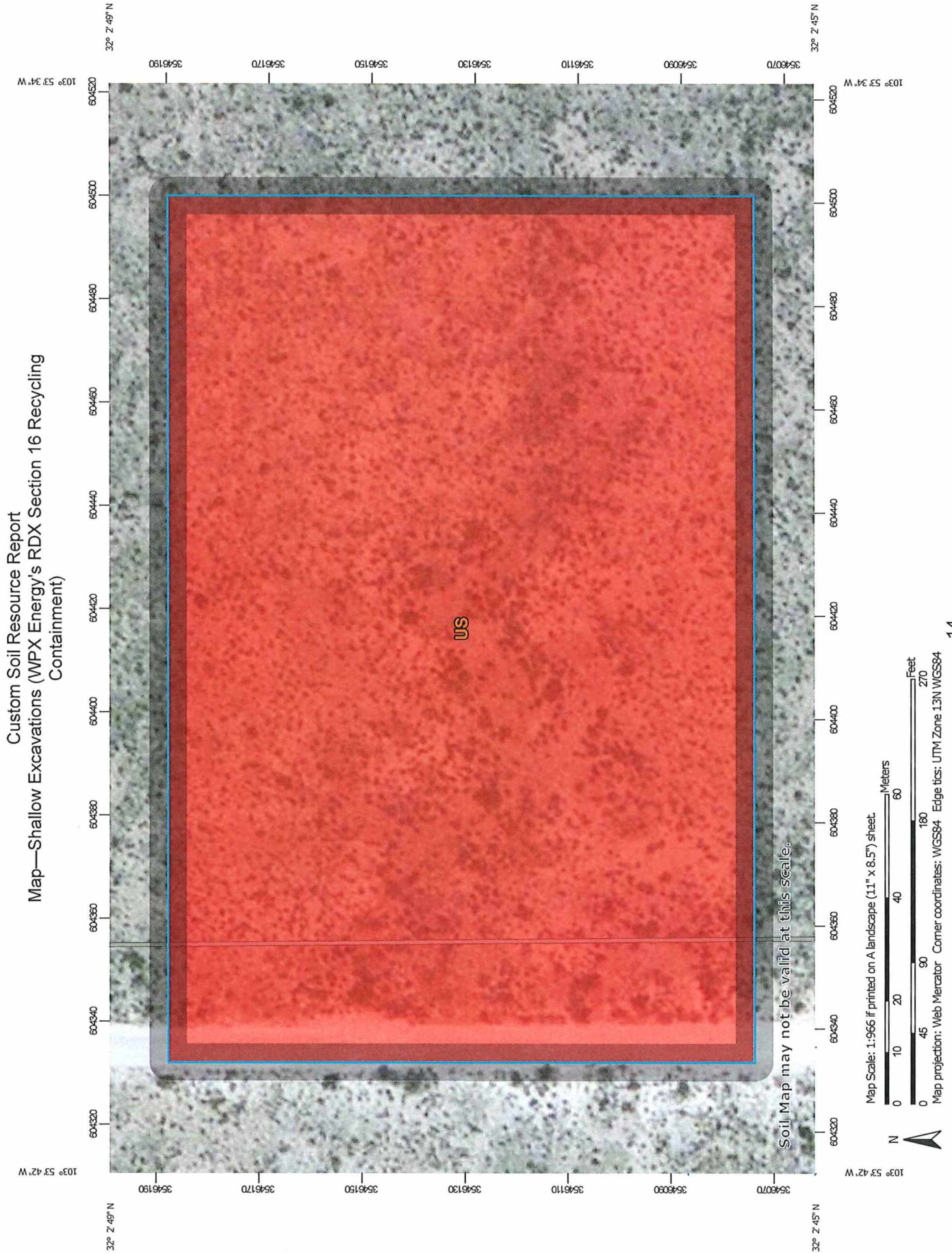
Custom Soil Resource Report

special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.



Custom Soil Resource Report

Area of Interest (AOI)

Area of Interest (AOI)

Background

Aerial Photography

MAP LEGEND

Soils

Soil Rating Polygons

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Lines

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

Very limited

Somewhat limited

Not limited

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 12, Sep 28, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

15

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Tables—Shallow Excavations (WPX Energy's RDX Section 16 Recycling Containment)

Shallow Excavations— Summary by Map Unit — Eddy Area, New Mexico (NM614)						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	Very limited	Upton (40%)	Depth to thin cemented pan (1.00)	4.7	100.0%
				Dusty (0.28)		
				Unstable excavation walls (0.01)		
Totals for Area of Interest					4.7	100.0%

Shallow Excavations— Summary by Rating Value		
Rating	Acres in AOI	Percent of AOI
Very limited	4.7	100.0%
Totals for Area of Interest	4.7	100.0%

Rating Options—Shallow Excavations (WPX Energy's RDX Section 16 Recycling Containment)

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Custom Soil Resource Report

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

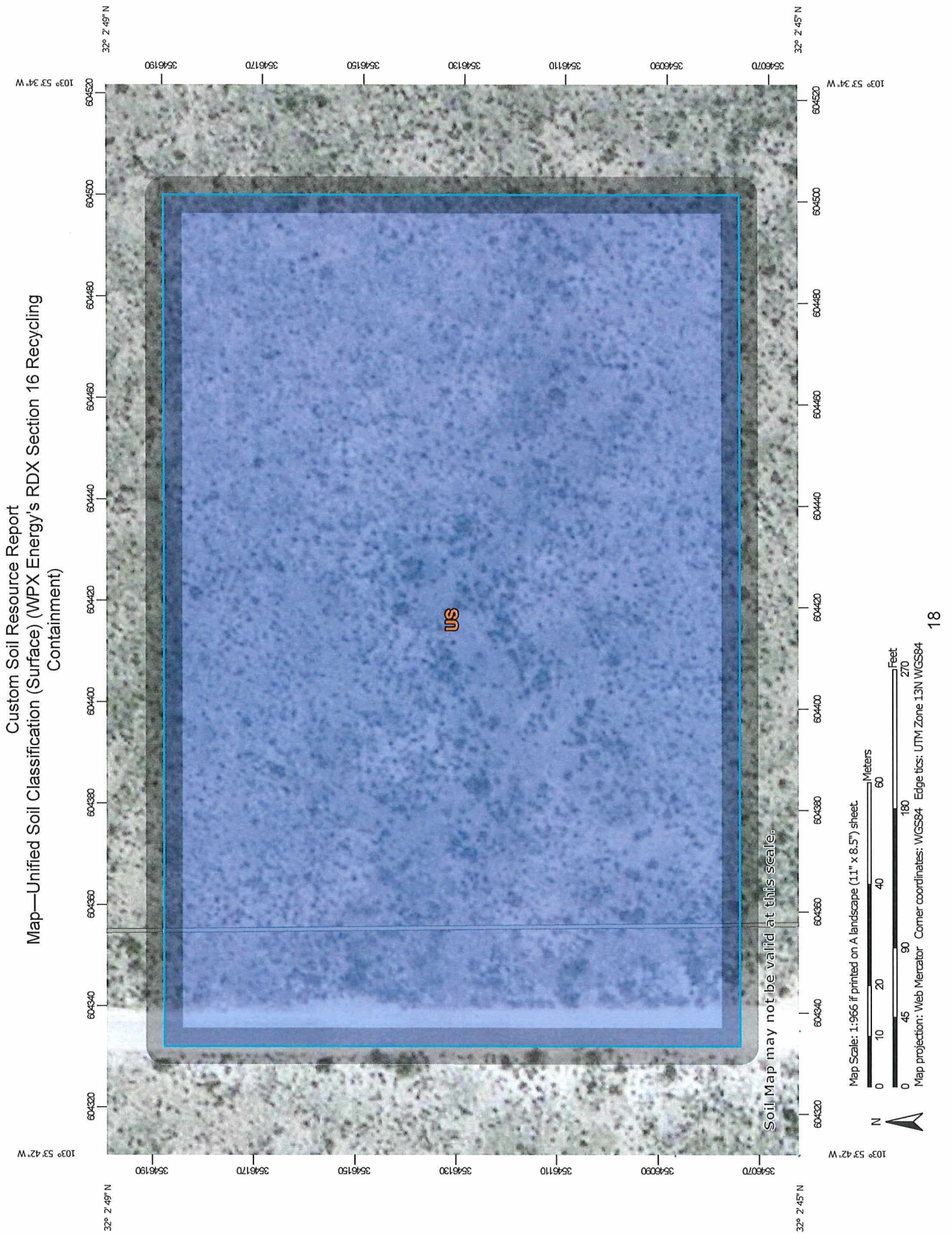
Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Unified Soil Classification (Surface) (WPX Energy's RDX Section 16 Recycling Containment)

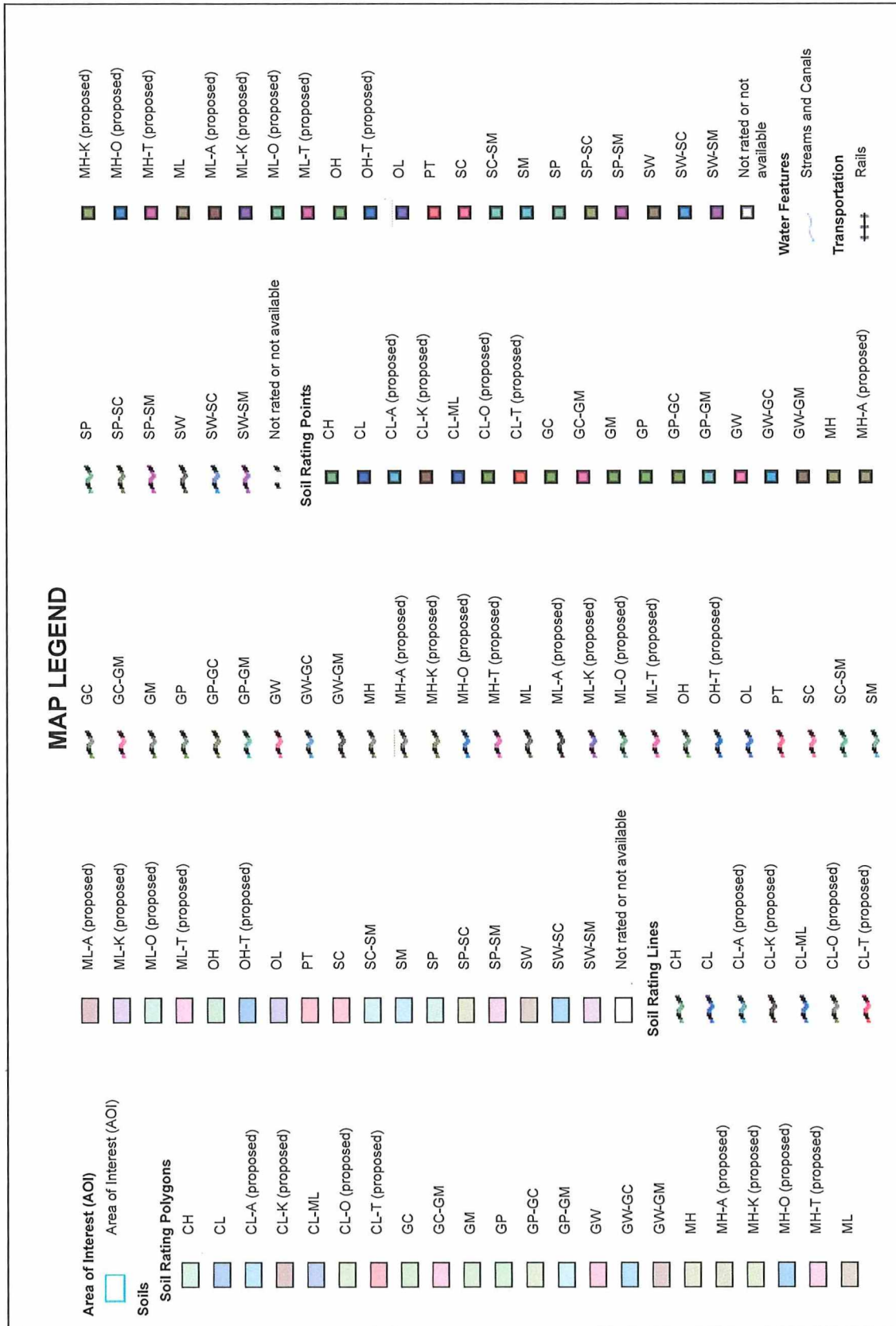
The Unified soil classification system classifies mineral and organic mineral soils for engineering purposes on the basis of particle-size characteristics, liquid limit, and plasticity index. It identifies three major soil divisions: (i) coarse-grained soils having less than 50 percent, by weight, particles smaller than 0.074 mm in diameter; (ii) fine-grained soils having 50 percent or more, by weight, particles smaller than 0.074 mm in diameter; and (iii) highly organic soils that demonstrate certain organic characteristics. These divisions are further subdivided into a total of 15 basic soil groups. The major soil divisions and basic soil groups are determined on the basis of estimated or measured values for grain-size distribution and Atterberg limits. ASTM D 2487 shows the criteria chart used for classifying soil in the Unified system and the 15 basic soil groups of the system and the plasticity chart for the Unified system.

The various groupings of this classification correlate in a general way with the engineering behavior of soils. This correlation provides a useful first step in any field or laboratory investigation for engineering purposes. It can serve to make some general interpretations relating to probable performance of the soil for engineering uses.

For each soil horizon in the database one or more Unified soil classifications may be listed. One is marked as the representative or most commonly occurring. The representative classification is shown here for the surface layer of the soil.





Custom Soil Resource Report





Custom Soil Resource Report

MAP INFORMATION


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 12, Sep 28, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

20

Released to Imaging: 8/21/2023 2:17:41 PM

Custom Soil Resource Report

Table—Unified Soil Classification (Surface) (WPX Energy's RDX Section 16 Recycling Containment)

Unified Soil Classification (Surface)— Summary by Map Unit — Eddy Area, New Mexico (NM614)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	CL	4.7	100.0%
Totals for Area of Interest			4.7	100.0%

Rating Options—Unified Soil Classification (Surface) (WPX Energy's RDX Section 16 Recycling Containment)

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

Water Features

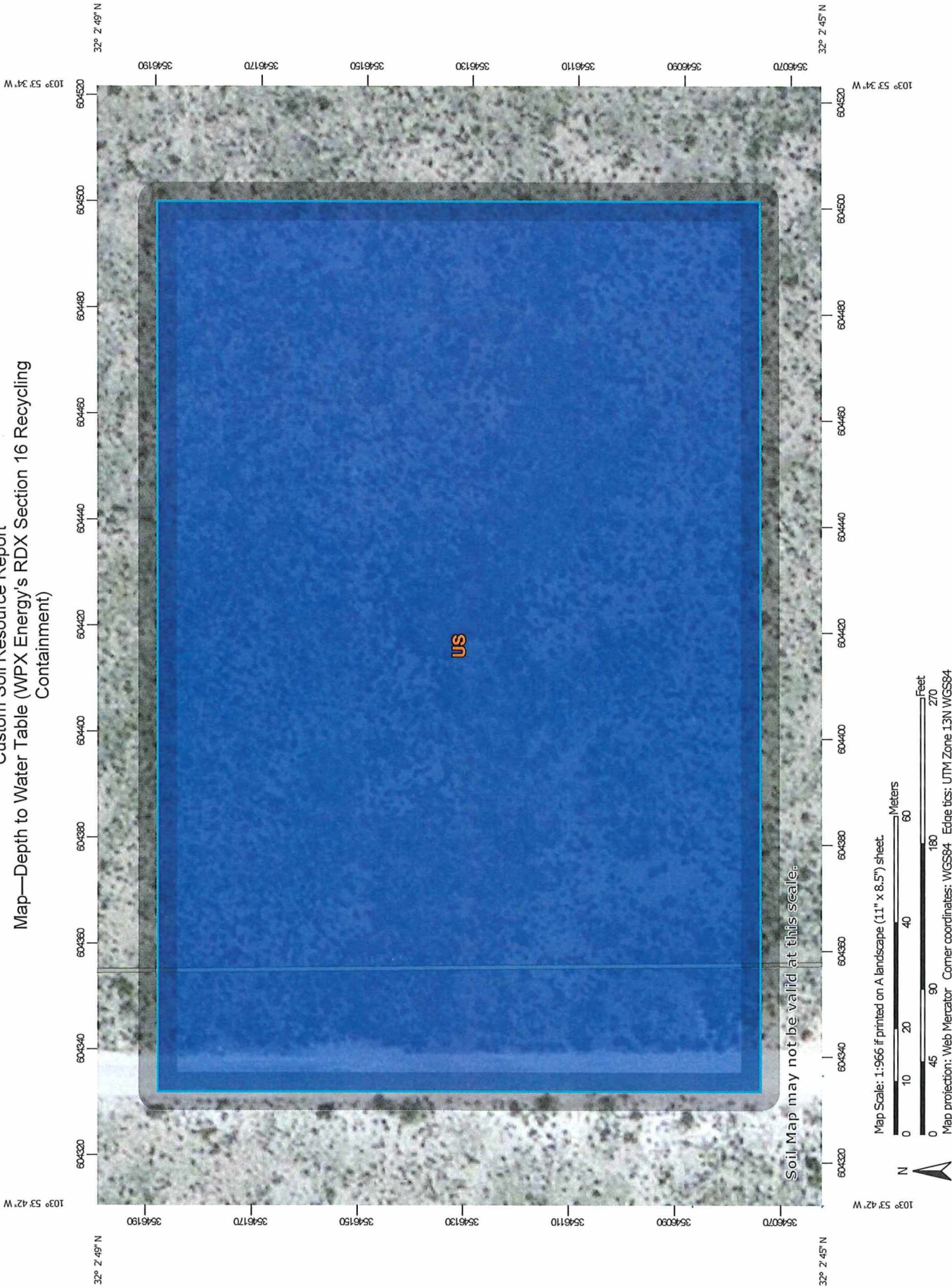
Water Features include ponding frequency, flooding frequency, and depth to water table.

Depth to Water Table (WPX Energy's RDX Section 16 Recycling Containment)

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Custom Soil Resource Report
Map—Depth to Water Table (WPX Energy's RDX Section 16 Recycling
Containment)



Custom Soil Resource Report

Table—Depth to Water Table (WPX Energy's RDX Section 16 Recycling Containment)

Depth to Water Table— Summary by Map Unit — Eddy Area, New Mexico (NM614)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	>200	4.7	100.0%
Totals for Area of Interest			4.7	100.0%

Custom Soil Resource Report

Rating Options—Depth to Water Table (WPX Energy's RDX Section 16 Recycling Containment)

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Flooding Frequency Class (WPX Energy's RDX Section 16 Recycling Containment)

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent.

"None" means that flooding is not probable. The chance of flooding is nearly 0 percent in any year. Flooding occurs less than once in 500 years.

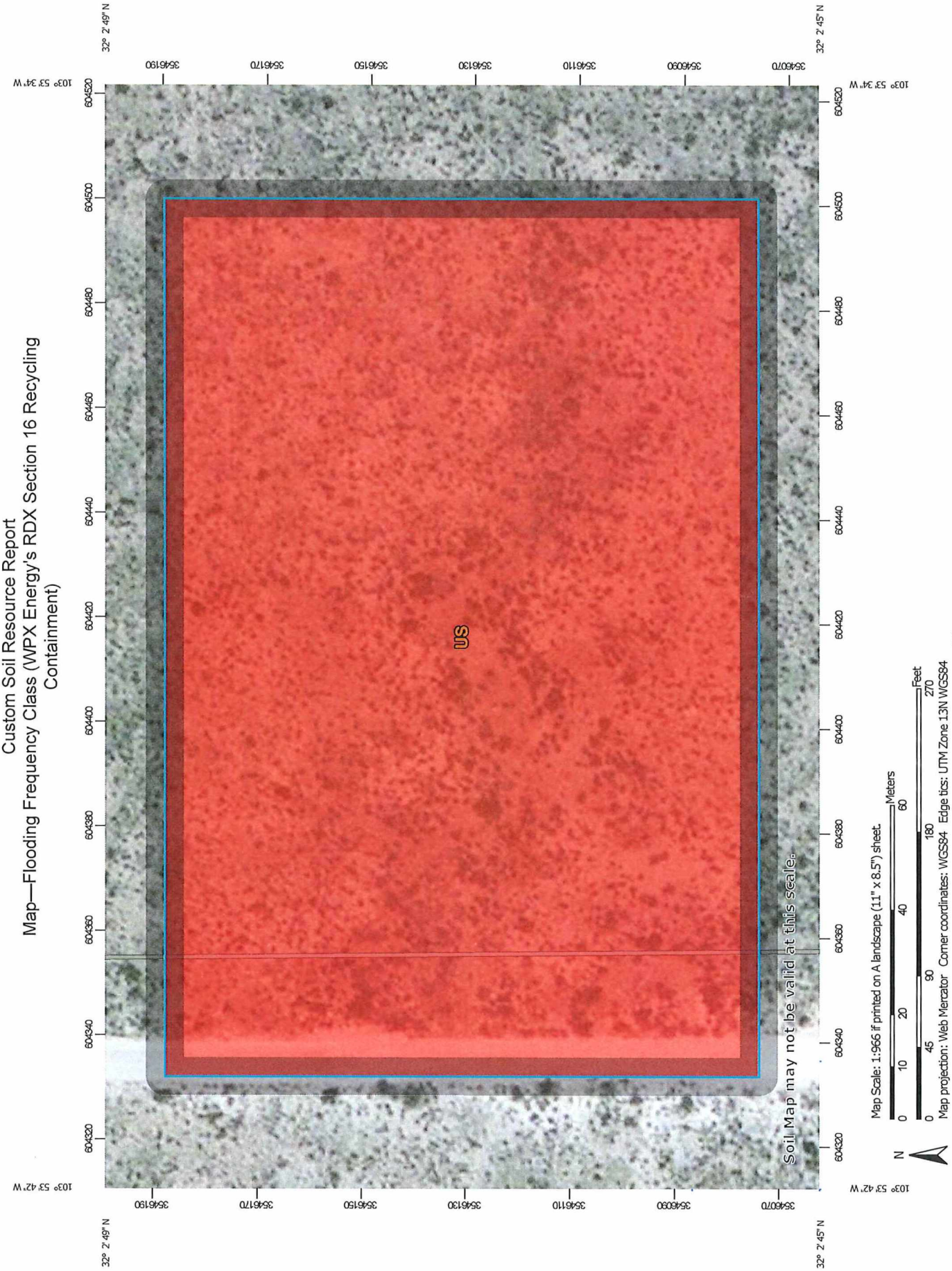
"Very rare" means that flooding is very unlikely but possible under extremely unusual weather conditions. The chance of flooding is less than 1 percent in any year.

"Rare" means that flooding is unlikely but possible under unusual weather conditions. The chance of flooding is 1 to 5 percent in any year.

"Occasional" means that flooding occurs infrequently under normal weather conditions. The chance of flooding is 5 to 50 percent in any year.

"Frequent" means that flooding is likely to occur often under normal weather conditions. The chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year.

"Very frequent" means that flooding is likely to occur very often under normal weather conditions. The chance of flooding is more than 50 percent in all months of any year.



Custom Soil Resource Report

Table—Flooding Frequency Class (WPX Energy's RDX Section 16 Recycling Containment)

Flooding Frequency Class— Summary by Map Unit — Eddy Area, New Mexico (NM614)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	None	4.7	100.0%
Totals for Area of Interest			4.7	100.0%

Rating Options—Flooding Frequency Class (WPX Energy's RDX Section 16 Recycling Containment)*Aggregation Method: Dominant Condition**Component Percent Cutoff: None Specified**Tie-break Rule: More Frequent**Beginning Month: January**Ending Month: December*

References

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United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>

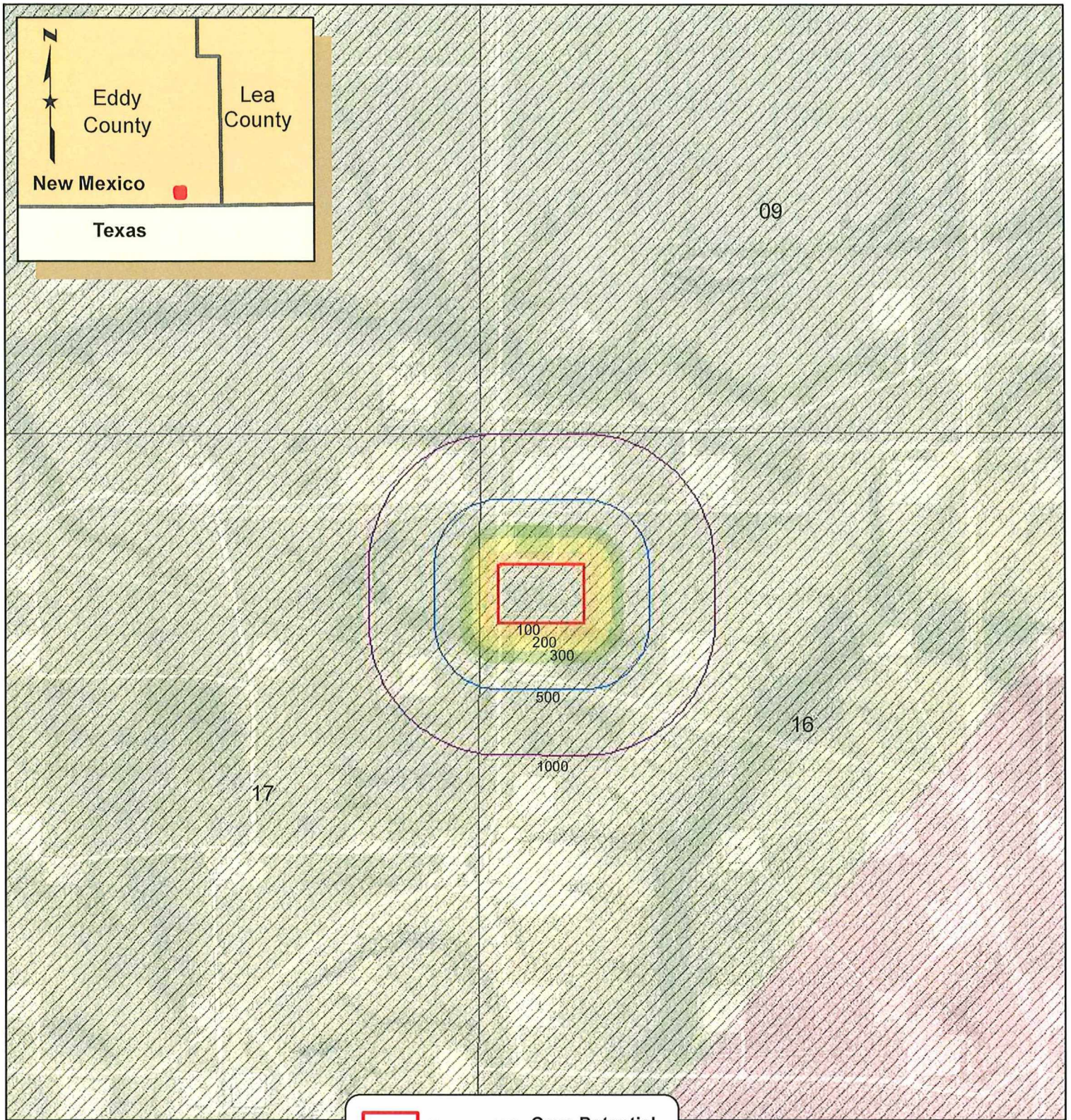
Custom Soil Resource Report

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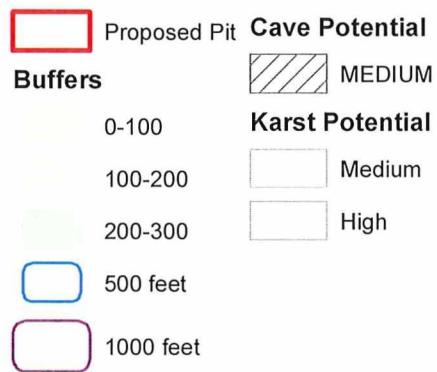
Attachment 4 – Karst Potential



Sources:
BLM - CFO
FEMA
NM OSE
USDA
USGS
Playa Lakes Joint Venture

Scale (absolute) -
1:12,000

RDX_Sec16Pit_RBW_170227
Updated: 3/6/2017
By rwinkler



RDX Section 16 Karst

Eddy County, NM
T26S R30E

\\GIS\Projects\Permian\RDXSection16Pit\

Attachment 5 – OSE Wells Report



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 604401.78

Northing (Y): 3546142.99

Radius: 1608

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

5/19/17 10:43 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03483	CUB	ED		4	4	4	05	26S	30E	604296	3548251	2111	700	200	500
C 03581 POD1	CUB	ED		4	4	4	05	26S	30E	604298	3548291	2151	800	320	480
C 01361		ED		3	4	3	05	26S	30E	603240	3548157	2325	775	184	591
C 01360	C	ED		4	3	3	05	26S	30E	602997	3548152	2451	770	173	597

Average Depth to Water: **219 feet**

Minimum Depth: **173 feet**

Maximum Depth: **320 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 604401.78

Northing (Y): 3546142.99

Radius: 3216

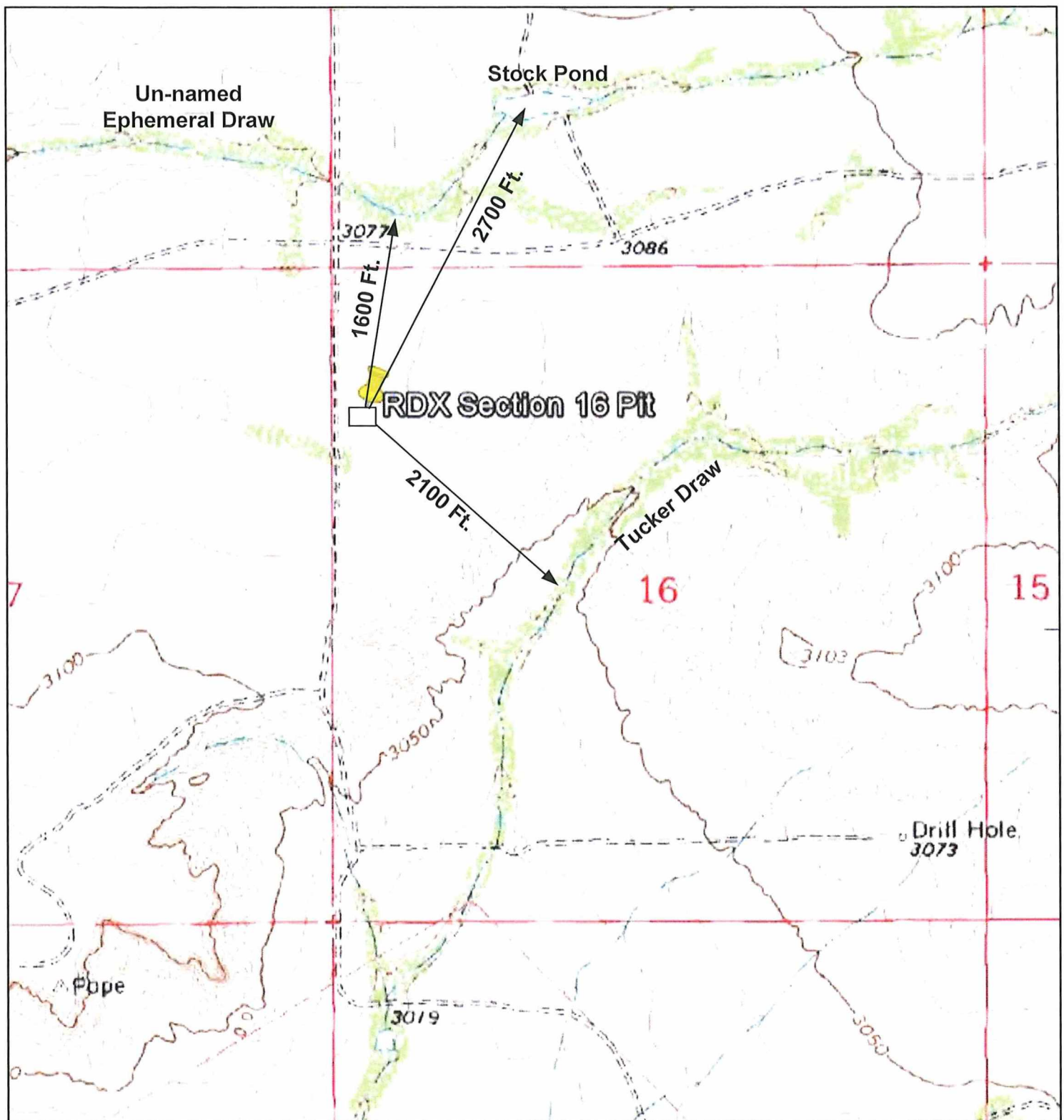
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/19/17 10:41 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Attachment 6 – Surface Water Features



0

1 mile

LEGEND
 Ephemeral Stream
RDX Section 16 Pit Facility

Surface Water Features

NW ¼ NW ¼ Sec. 16 T26S R30E, NM P.M.

Latitude: 32.0466° Longitude: -103.8941°

Eddy County, New Mexico

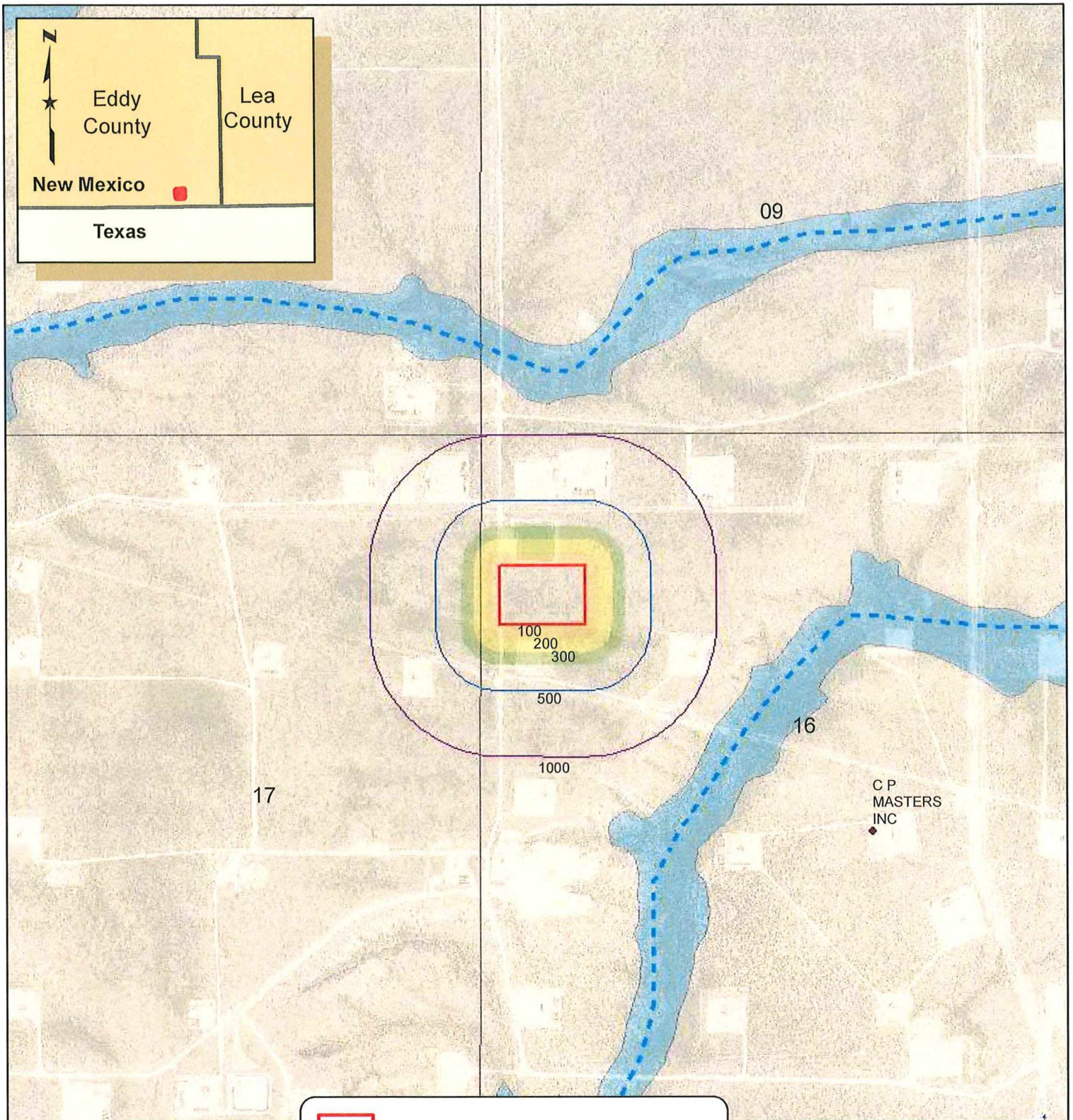
Source:

USGS Ross Ranch Quadrangle

Date: 2017-05-16

Review By: DJF

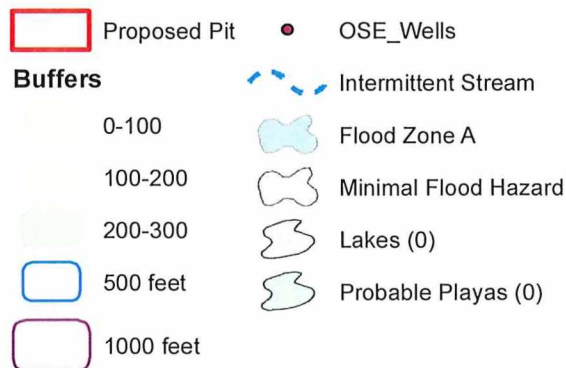
Attachment 7 – Hydrology Map



Sources:
BLM - CFO
FEMA
NM OSE
USDA
USGS
Playa Lakes Joint Venture

Scale (absolute) -
1:12,000

RDX_Sec16Pit_RBW_170227
Updated: 3/6/2017
By rvinkler



RDX Section 16 Water

Eddy County, NM
T26S R30E

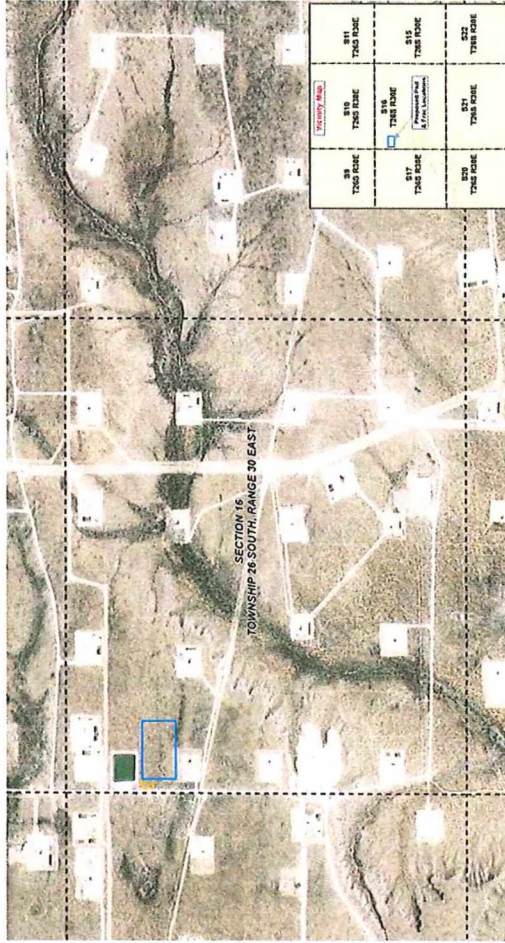
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Attachment 8 – Design Drawings

RDX SECTION 16

PRODUCED WATER IMPOUNDMENT PLANS

EDDY COUNTY, NEW MEXICO



OWNER:
RKI EXPLORATION & PRODUCTION, LLC
210 PARK AVE, STE 600
OKLAHOMA CITY, OK 73102

ENGINEER:
FSC INC.
2205 WALNUT STREET
COLUMBUS, TEXAS 78504
PH: (855) 637-5725

SURVEYOR:
FSC INC.
2205 WALNUT STREET
COLUMBUS, TEXAS 78504
PH: (855) 637-5725

SHEET INDEX

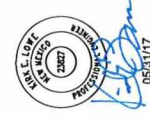
Sheet Description	Sheet No.
COVER SHEET	C0.00
GRADING PLAN	C1.01
PROPOSED POND PROFILES	C1.02
GENERAL DETAILS	C1.03
GENERAL DETAILS	C1.04

LOCATION MAP

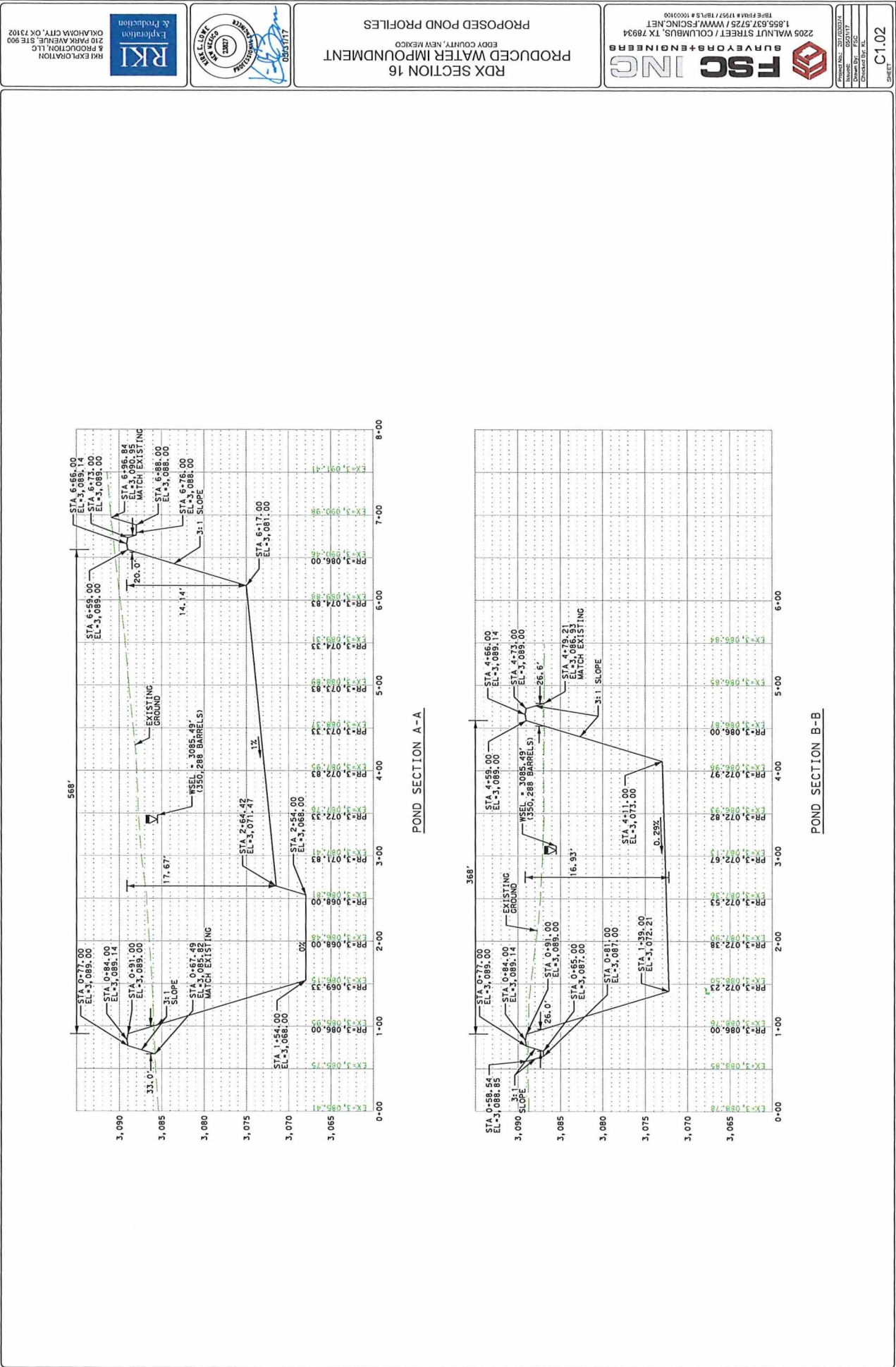
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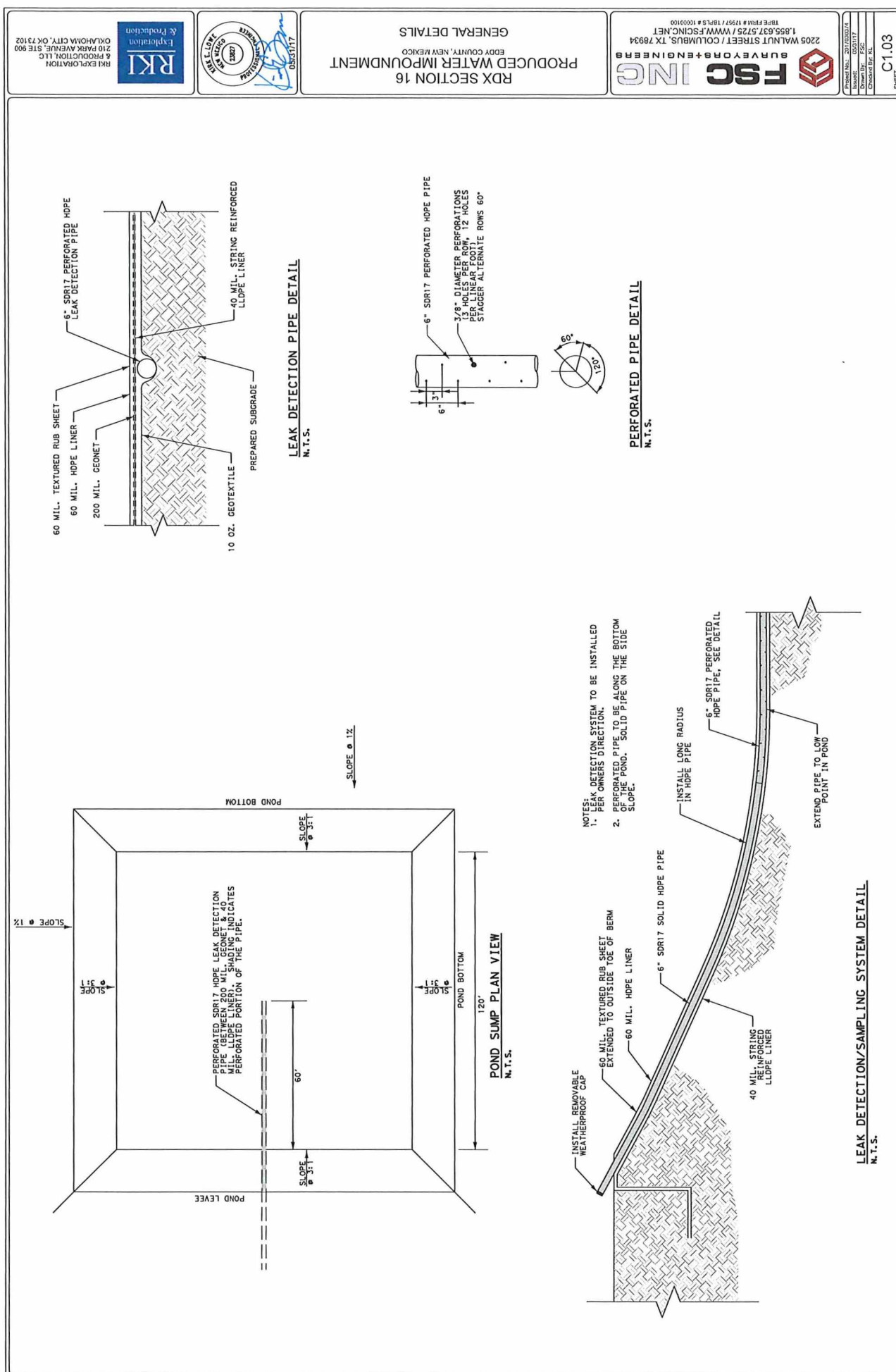


MAY 2017









GENERAL NOTES

1. PREPARED SUBGRADE MEANS COMPACTED, SMOOTH, SURFACE OF EXISTING SOIL OR FILL. CONCRETE CURBS, RIBBES AND ANY SHARP OBJECTS THAT MIGHT PUNCTURE THE HDPE LINER.
2. IF SUBGRADE IS NOT FREE OF SHARP OBJECTS, THEN 16 OUNCE GEOTEXTILE MATERIALS SHALL BE INSTALLED UNDER ALL HDPE LINER.
3. ALL EMBANKMENT SLOPES SHALL HAVE A RATIO OF 3:1 MAX. UNLESS OTHERWISE NOTED. SLOPES SHALL BE COVERED WITH 12 INCH (MAX) LOOSE LIFTS, COMPACTED TO 90% STANDARD PROCTOR DENSITY.
4. PERFORM GEOTECHNICAL ANALYSIS OF EXISTING SOIL TO CONFIRM SOIL IS SUITABLE FOR USE IN THE LEVEE.

CRANSEL SURFACE DEPTH, DETERMINED DURING CONSTRUCTION (18" MIN. INSTALLATION DETERMINED BY FIELD ENGINEER.

INSIDE POND

OUTSIDE POND

14' 0"

2%

2%

11/3

11/3

11/3

11/3

11/3

11/3

11/3

11/3

11/3

11/3

11/3

11/3

60 MIL. TEXTURED RUB SHEET

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

PREPARED SUBGRADE

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

60 MIL. TEXTURED RUB SHEET

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

PREPARED SUBGRADE

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF BERM

2' MIN

60 MIL. TEXTURED RUB SHEET EXTENDED TO OUTSIDE OF BERM

60 MIL. HDPE LINER

200 MIL. GEONET

40 MIL. STRING REINFORCED LLOPE LINER

10 OZ. GEOTEXTILE

ANCHOR TRENCH BACKFILLED WITH COMPACTED FILL

TOP OF

Attachment 9 – Liner Specifications

40 mil reinforced

TECHNICAL DATA SHEET

Geomembrane HDPE Smooth

PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	440-7000
SPECIFICATIONS				
Thickness (Nominal $\pm 10\%$) (11)	ASTM D-5199	Every roll	mm	1.00
Resin Density	ASTM D-1505	Certification	g/cc	> 0.932
Melt Index - 190/2.16 (max.)	ASTM D-1238	Certification	g/10 min	1.0
Sheet Density (8)	ASTM D-1505	1/Batch	g/cc	≥ 0.940
Carbon Black Content (9)	ASTM D-4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D-5596	Every 10 rolls	Category	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 5 rolls		
Strength at Yield			kN/m	15
Elongation at Yield			%	12
Strength at Break			kN/m	27
Elongation at Break			%	700
Tear Resistance (min. avg.)	ASTM D-1004	Every 10 rolls	N	106
Puncture Resistance (min. avg.)	ASTM D-4833	Every 10 rolls	N	320
Dimensional Stability	ASTM D-1204	Certification	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D-5397	1/Batch	hr	500
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation		
HP OIT (min. avg.)	ASTM D-5885		%	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation		
HP-OIT (min. avg.)	ASTM D-5885		%	50
SUPPLY SPECIFICATIONS (Roll dimensions may vary $\pm 1\%$)				
Roll Dimension - Width	-		m	6.80
Roll Dimension - Length	-		m	237.7
Area (Surface/Roll)	-		m ²	1616.4

NOTES

1. Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
8. Correlation table is available for ASTM D792 vs ASTM D1505. Both methods give the same results.
9. Correlation table is available for ASTM D1603 vs ASTM D4218. Both methods give the same results.
11. The minimum average thickness is $\pm 10\%$ of the nominal value.

* All values are nominal test results, except when specified as minimum or maximum.

* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. BlueWater assumes no liability in connection with the use of this information.

60 mil

TECHNICAL DATA SHEET**Geomembrane HDPE Smooth**

PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	460-2000
SPECIFICATIONS				
Thickness (min. avg.)	ASTM D-5199	Every roll	mm	1.5
Thickness (min.)	ASTM D-5199	Every roll	mm	1.35
Resin Density	ASTM D-1505	1/Batch	g/cc	> 0.932
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0
Sheet Density	ASTM D-1505	Every 2 rolls	g/cc	> 0.94
Carbon Black Content	ASTM D-4218	Every 2 rolls	%	> 2.0 / < 3.0
Carbon Black Dispersion	ASTM D-5596	Every 6 rolls	Category	Cat. 1 / Cat. 2
Oxidation Induction Time (min. ave)	ASTM D-3895	1/Batch	min	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls		
Strength at Yield			kN/m	22
Elongation at Yield			%	13
Strength at Break			kN/m	42
Elongation at Break			%	700
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	187
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	540
Dimensional Stability	ASTM D-1204	Every 6 rolls	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D-5397	1/Batch	hr	400
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation		
HP OIT (min. avg.)	ASTM D-5885		%	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation		
HP-OIT (min. avg.)	ASTM D-5885		%	50
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		m	6.80
Roll Dimension - Length	-		m	158.5
Area (Surface/Roll)	-		m ²	1077.8

NOTES

1. Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.

* All values are nominal test results, except when specified as minimum or maximum.

* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. BlueWater assumes no liability in connection with the use of this information.



GSE STANDARD PRODUCTS

Product Data Sheet

GSE HyperNet, HF, HS and UF Geonet

GSE HyperNet geonets are synthetic drainage materials manufactured from a premium grade high density polyethylene (HDPE) resin. The structure of the HyperNet geonet is formed specifically to transmit fluids uniformly under a variety of field conditions. HDPE resins are inert to chemicals encountered in most of the civil and environmental applications where these materials are used. GSE geonets are formulated to be resistant to ultraviolet light for time periods necessary to complete installation. GSE HyperNet geonets are available in standard, HF, HS, and UF varieties.

The table below provides index physical, mechanical and hydraulic characteristics of GSE geonets. Contact GSE for information regarding performance of these products under site-specific load, gradient, and boundary conditions.

Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE ^(b)			
			HyperNet	HyperNet HF	HyperNet HS	HyperNet UF
Product Code			XL4000N004	XL5000N004	XL7000N004	XL8000N004
Transmissivity ^(a) , gal/min/ft (m ² /sec)	ASTM D 4716	1/540,000 ft ²	9.66 (2 x 10 ⁻³)	14.49 (3 x 10 ⁻³)	28.98 (6 x 10 ⁻³)	38.64 (8 x 10 ⁻³)
Thickness, mil (mm)	ASTM D 5199	1/50,000 ft ²	200 (5)	250 (6.3)	275 (7)	300 (7.6)
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	0.94	0.94	0.94	0.94
Tensile Strength (MD), lb/in (N/mm)	ASTM D 5035	1/50,000 ft ²	45 (7.9)	55 (9.6)	65 (11.5)	75 (13.3)
Carbon Black Content, %	ASTM D 1603, modified	1/50,000 ft ²	2.0	2.0	2.0	2.0
Roll Width ^(c) , ft (m)			15 (4.6)	15 (4.6)	15 (4.6)	15 (4.6)
Roll Length ^(c) , ft (m)			300 (91)	250 (76)	220 (67)	200 (60)
Roll Area, ft ² (m ²)			4,500 (418)	3,750 (348)	3,300 (305)	3,000 (278)

NOTES:

- ^(a) Gradient of 0.1, normal load of 10,000 psf, water at 70° F (20° C), between steel plates for 15 minutes.
- ^(b) These are MARV values that are based on the cumulative results of specimens tested by GSE.
- ^(c) Roll widths and lengths have a tolerance of ±1%.

DS017 HyperNet R01/13/06

This information is provided for reference purposes only and is not intended as a warranty or guarantee. GSE assumes no liability in connection with the use of this information. Please check with GSE for current, standard minimum quality assurance procedures and specifications.

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North America	GSE Lining Technology, Inc.	Houston, Texas	800 435 2008	281 443 8564	Fax: 281 230 8650
South America	GSE Lining Technology Chile S.A.	Santiago, Chile		56 2 595 4200	Fax: 56 2 595 4290
Asia Pacific	GSE Lining Technology Company Limited	Bangkok, Thailand		66 2 937 0091	Fax: 66 2 937 0097
Europe & Africa	GSE Lining Technology GmbH	Hamburg, Germany		49 40 767 420	Fax: 49 40 767 4234
Middle East	GSE Lining Technology-Egypt	The 6th of October City, Egypt		202 2 828 8888	Fax: 202 2 828 8889

www.gseworld.com

Attachment 10 – Containment Inspection Checklist

Name:

Name of Pond: _____

1. IS WATER LEVEL ABOVE 2' OF FREEBOARD?

If YES, contact the appropriate field production supervisor and have pit levels lowered to the required 2'.

Name of Field Supervisor Notified:

2. IS THERE ANY OIL ACCUMULATION ON THE PIT?

If yes, contact the appropriate field production supervisor and have the pit skimmed to remove any oil.

Name of Field Supervisor Notified: _____

3. IS OIL PRESENT ON EXPOSED SIDES OF THE LINER?

4. ARE THERE ANY ISSUES AROUND OR ADJACENT TO THE ANCHOR TRENCH WHICH COULD LEAD TO LINER FAILURE?

5. ARE THERE TEARS IN LINER?

6. DOES THE NET NEED MAINTENANCE?

7. IS THE FENCING IN POOR CONDITION?

8. IS THERE A BOOM STRETCHED INSIDE THE PIT?

9. IS THE BERM AROUND THE PAD COMPROMISED OR IN POOR CONDITION?

10. IS THERE TRASH OR OIL STAINS ON LOCATION?

11. IS THERE ANY DAY-LIGHTING OF FLUIDS AT THE DOWNGRA-DIENT HILLSIDE BELOW THE PIT LOCATION?

12. IS THERE WATER PRESENT IN THE LEAK DETECTION TUBE?

Depth of water in the leak detection tube

[illegible]

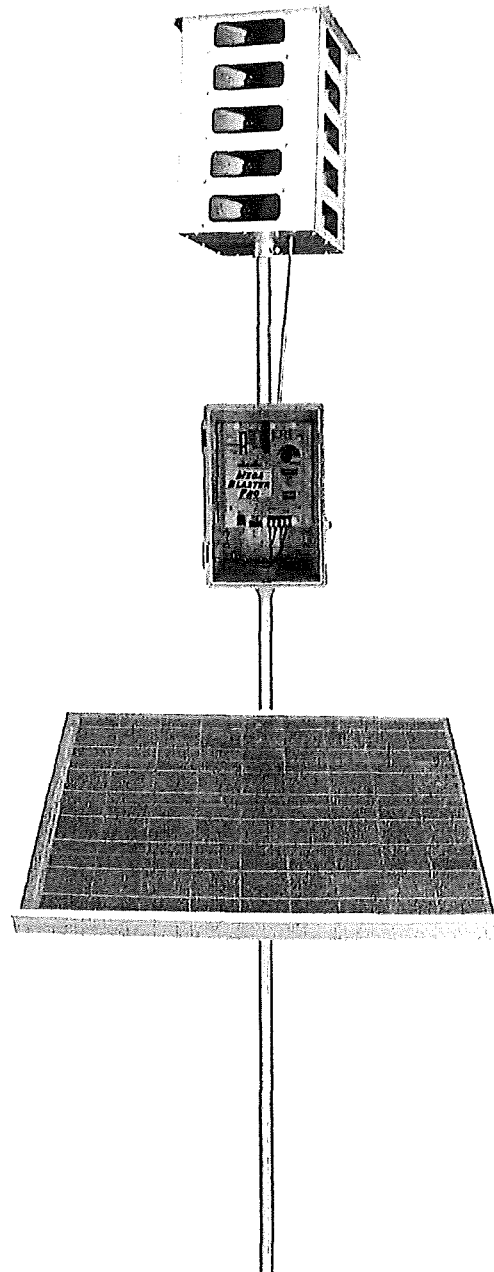
Attachment 11 – Bird X Mega Blaster Pro Specifications

MEGA BLASTER PRO



User's Manual

Overview	2
Bird Control Management Guidelines	3
Materials List	4
Assembly	5
Control Unit	5
Solar Panel	5
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Building a Mounting Pole or Mast	7
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Overview

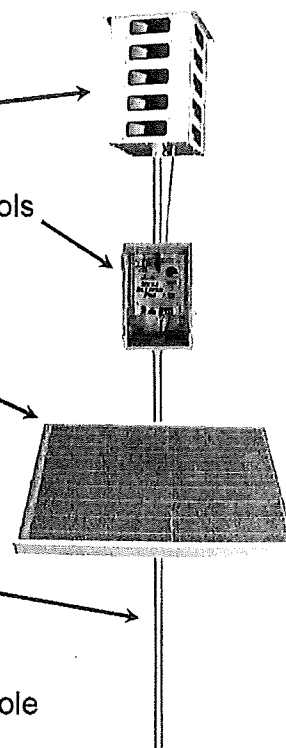
The Bird-X Mega Blaster Pro utilizes the innate power of the natural survival instincts of birds to effectively repel them. Digital recordings of distressed and alarmed birds, along with the sounds made by their natural predators are broadcast through high fidelity weather-resistant speakers over the top of areas. This action triggers a primal fear and flee response. Pest birds soon relocate to where they can feed without feeling threatened.

Your Bird-X Mega Blaster Pro system consists of:

20-Speaker Tower broadcasts the bird sounds

Control Unit produces the bird sounds and contains all operational controls

Solar Panel recharges the 12-volt deep cycle battery



Items needed but not included:

- (1) **Mounting Pole or Mast** tall enough to raise the 20-Speaker Tower at least 5 feet above the top of the areas, trees or other obstructions
- (1) **12-volt Deep Cycle Battery** (RV/Marine) Group 27 or larger wet cell
- (1) **T-Post** or similar (Optional) may be needed to support the mounting pole
- (1) **Bailing Wire or zip-tie** (Optional) to secure the Mounting Pole to the T-Post

CAUTION: THE MEGA BLASTER PRO IS CAPABLE OF PRODUCING SOUNDS UP TO 125 DECIBELS. PROPER HEARING PROTECTION MUST BE WORN ANYTIME THE UNIT IS TURNED ON.



Bird Control Management Guidelines



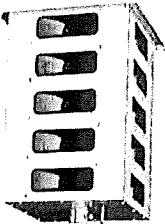


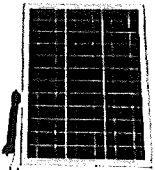




An active bird control management program is a key to successfully repelling pest birds. Bird feeding patterns may take several days or weeks to break. Follow all suggestions for maximum effectiveness. Read all instructions prior to installation.

For best results:

- It is extremely important to fully protect your entire area from birds. Any areas not fully protected will allow birds to begin feeding at the fringes of the sound coverage. They will soon become bolder and learn the sounds are nothing to fear. This will cause the effectiveness to diminish. Complete Bird-X product coverage forces birds to leave the area entirely.
- Install the Mega Blaster Pro unit at least two weeks before birds are attracted to your area. It is much easier to keep birds away before they have found a food source than it is to repel them once they have developed a feeding pattern.
- Most birds begin feeding from the perimeter of an area. Place Mega Blaster Pro units so the sound protection covers past the edges of the area.
- Birds will often use tall trees for roosting and observation. If birds are in bordering trees it is necessary to position the units so the sound protection covers the trees as well.
- Mount the 20-Speaker Tower at least five feet above trees, areas and structures for maximum coverage. The higher the better. Sound will disperse or reflect off structures or foliage. Mount control unit out of direct sun, if possible.
- When first installed, run Mega Blaster Pro units at FULL volume and on SHORT time off periods. This ensures maximum "bird stress" and creates a hostile environment.
- Watch for changes in bird activity and adjust the location of your Mega Blaster Pro unit if needed.
- Check the battery and unit settings often to insure continuous bird control. Be certain that the system is not turned down or has a dead battery. Field hands or harvesters may turn down the volume.
- Changing settings and switches often helps to prevent bird habituation. Periodically change the switch settings of the eight sounds (turning them ON or OFF). NEVER turn OFF the distress calls of the target birds you are trying to repel and always keep at least one predator bird sound turned ON.
- If different bird species enter the protected area and begin causing damage contact us immediately for an updated Sound Recording Card designed to repel the new invading birds.
- Remember that the Mega Blaster Pro system is a management tool, and should be used as part of your overall bird control strategy, sometimes in conjunction with other bird control techniques and devices.

Be aware that under extreme drought or other adverse conditions, birds will disregard all deterrents and risks in order to survive

Materials List

Item	Qty		Notes
Mega Blaster Pro Control Box	1		
Sound Recording Card	1		Pre-installed in control box
20-Speaker Tower	1		
Control Box Brackets	2		
Control Box Mounting U-Bolts	2		
40-Watt Solar Panel	1		
Solar Panel Mounting Bracket	1		
Solar Panel Mounting U-Bolts	2		
Control Box Connector Cable	1		1/4" x 1-1/8" x 2"
Battery Box	1		2 Wire, 10 ft. Long

Assembly

Note: You will find it easier to pre-assemble the following components prior to installation in the field.

Control Unit

1. Lay the Control Unit face down
2. Attach the two Control Box Mounting Brackets to the back with the included screws (Figure 1)

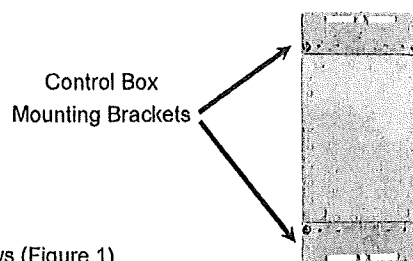


Figure 1

Solar Panel

3. Install the two Solar Panel Mounting U-Bolts in the Head of the Solar Panel Mounting Bracket (Figure 2)
4. Loosen, but do not remove the Carriage Bolts securing the movable Clamp Plates on the Solar Panel Mount Bracket
5. Lay the solar panel on a flat surface with the glass side down
6. Lay the Mounting Arm across the Solar Panel with the Clamp Plates down. Position the Mounting Arm at an angle so the Clamp Plates slide under the lip of the Solar Panel (Figure 3A)
7. Rotate the Mounting Arm and secure it to the Solar Panel by tightening the Carriage Bolts (Figure 3B)

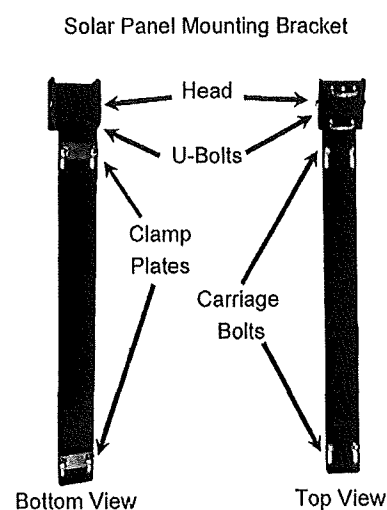


Figure 2

Clamp Plates slide under the lip of the Solar Panel

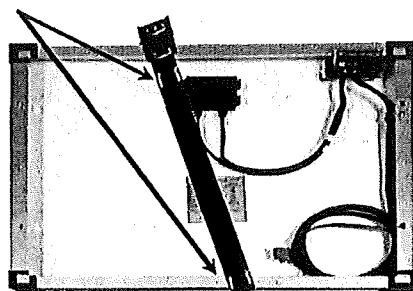


Figure 3A

Rotate Mounting Arm and tighten Carriage Bolts

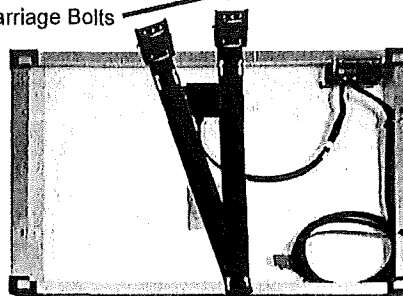


Figure 3B

Placement

Your Mega Blaster Pro will protect an area up to approximately 600 feet in all directions.

Factors to consider when selecting the best location include:

- Birds typically feed from the perimeter of the area and work their way in. Place Mega Blaster Pro units so the sound protection covers all the way to the edges of the area. For larger areas Mega Blaster Pro units should be positioned 400-500 feet inside the area and spaced every 1,200 feet.
- Mount the 20-Speaker Tower at least 5 feet above terrain, areas, trees and other obstacles.
- Placing the Mega Blaster Pro on top of a hill or small rise will give you much better coverage than at the bottom of a valley. The greater the height the further the sounds will travel.
- Wind can blow the sound waves. If the area you need to protect has consistent wind coming from the same direction, position your Mega Blaster Pro more "upwind."
- Trees surrounding areas provide birds with a safe perch that allows them to fly in, grab food and fly out. It is much more difficult to eliminate bird damage if the birds are able to use the surrounding trees as a staging area for attacks on your areas. Your Mega Blaster Pro unit should be positioned close to any trees bordering your areas. If birds are roosting in the trees at night the TIME OF OPERATION should be set to 24 HOUR.
- Lakes, rivers and wetlands are a favorite resting and hiding place for birds. Your Mega Blaster Pro unit should be placed so the sound thoroughly covers any areas where birds frequent.
- Neighbors, businesses and others may not appreciate hearing the bird sounds. At the limits of the effective range the sounds from your Mega Blaster Pro are at a level people may find annoying. Avoid placing the unit where it becomes a nuisance.

Building a Mounting Pole or Mast

CAUTION: TALL POLES AND MASTS CAN BE HEAVY AND POTENTIALLY DANGEROUS. USE EXTREME CAUTION WHEN CONSTRUCTING OR WORKING AROUND TALL POLES AND MASTS. BIRD-X, INC., ASSUMES NO RESPONSIBILITY FOR DAMAGES OR INJURIES.

Things to consider:

- The 20-Speaker Tower is designed to mount onto a 1 in. (outside diameter) pipe at least 14 in. long. 1 in. conduit works well as it is light, rigid, inexpensive and available in 10 ft. lengths making it ideal for low areas, vineyards and bushes.
- You will want to take down your Mega Blaster Pro unit after harvest and store it in a dry location until the next season.

A suggestion for masts up to 20 feet tall:

1. 3/4 inch Galvanized steel water pipe has a 1 inch outside diameter and is the correct size to fit inside the 20-Speaker Tower. It is often available in 20 ft. lengths from hardware and plumbing supply stores. If these are not available, 10 ft. lengths are common and can be fastened together with a threaded coupler. Assemble the poles on the ground.
2. Slide the 20-Speaker Tower over the pipe and tighten the set screw in the collar at the base.
3. Stand the pole assembly up just inside the drip line of a tree and securely tie the pole to a few heavy branches.
4. Drive a T-Post into the ground at the base of the pole and secure with wire.

For masts taller than 20 feet:

1. Use 20 ft. lengths of galvanized steel water pipe or similar, securely fastened together with threaded reducing couplers.
2. Starting with 3 in. pipe, step the size down with each length of pipe.
3. The last 10 ft. can be 1 in. (O.D.) conduit hose clamped to the final section of galvanized pipe.

A semi-permanent mast support can be made by digging a hole 4 ft. deep and 4 ft. round. In the middle of the hole sink a length of galvanized water pipe large enough that your mast will easily fit inside. Make sure at least 2 ft. of pipe is above ground level. Fill the area around the pipe with packed sand, leaving the last foot filled with concrete to form a cap over the hole. Your mast can be dropped into the galvanized water pipe "receiver" for support. At the end of harvest the mast can be lifted out and positioned on the ground for easy disassembly and storage.

Installation

Note: Foliage, trees, and other obstructions severely reduce the effective range of Mega Blaster Pro units. It is critical that the 20-Speaker Tower is mounted at least 5 feet above all obstructions to achieve the maximum protection.

Mounting Pole or Mast

1. The Mounting Pole or Mast will need to be supported by a T-Post, fence post, tree or other means. The Pole Support should be in place before proceeding.

20-Speaker Tower

2. Lay the 20-Speaker Tower on its side on the ground and cut the zip-tie securing the speaker cables.
3. Slide the 1 in. (outside diameter) Mounting Pole through the Collar at the bottom of the 20-Speaker Tower (Figure 4A) until it slides over the positioning pin inside the top of the Tower (Figure 4B).
4. Tighten the Set Screw in Collar securely.

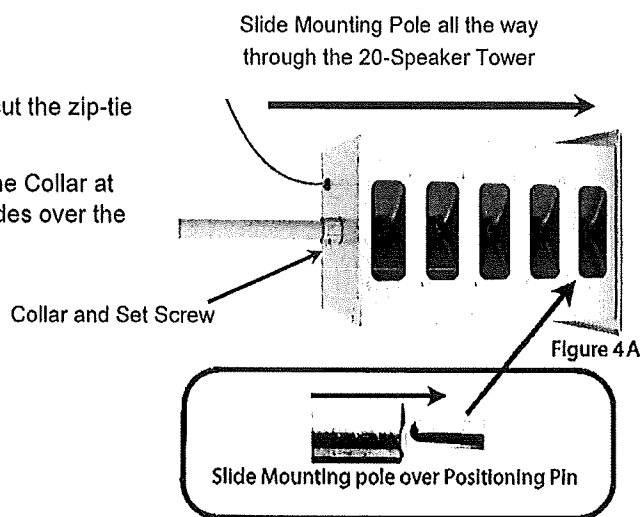
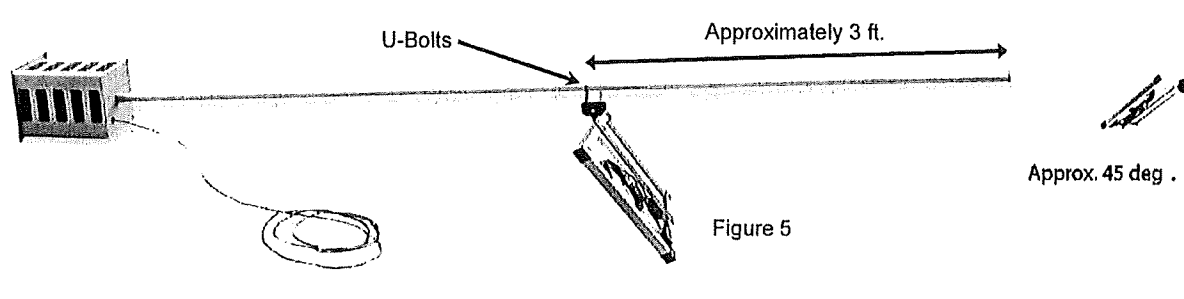


Figure 4B

Solar Panel

5. With the glass side of the solar panel facing the 20-Speaker Tower, slide the U-Bolts in the Solar Panel Mounting Bracket over the lower end of the Mounting Pole approximately three feet from the bottom of the pole and tighten the U-Bolts (Figure 5).
6. Lean up the Mounting Pole with the 20-Speaker Tower on top, against the Pole Support and fasten the Mounting Pole to the Pole Support securely with wire or other semi-permanent means.
7. Rotate the solar panel so it receives the most possible sunlight and tighten the Pivot Bolts so the panel is at approximately 45 degrees.

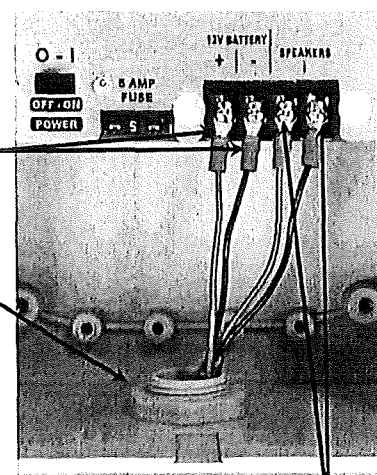


Control Box

8. Attach the Control Box to the Mounting Pole with the U-Bolts.
9. Feed the Speaker Cables through the Cable Strain Relief at the bottom
10. Attach the Speaker Cables from the 20-Speaker Tower to the screws marked "SPEAKER" on the faceplate of the control panel.
11. Locate the Control Box Connector Cable (the grey 2 lead cables) and feed one end through the Cable Strain Relief.
12. Connect the RED wire to the screw marked "+" and the BLACK wire to the screw marked "-" under "12V BATTERY" on the faceplate of the control panel.
13. **MAKE SURE THE POWER SWITCH IS TURNED OFF BEFORE ATTACHING BATTERY.**
14. Connect the other end of the RED wire to the "+" terminal on the 12-volt Deep Cycle battery (not included). Connect the BLACK wire to the "-" terminal on the battery.
15. Hand tighten the Tapered Cinch Nut on the bottom of the Cable Strain Relief to help keep insects and moisture out.

Control Box Connector to Solar Controller on back of 40-watt Solar Panel

Cable Strain Relief



Tapered Cinch Nut

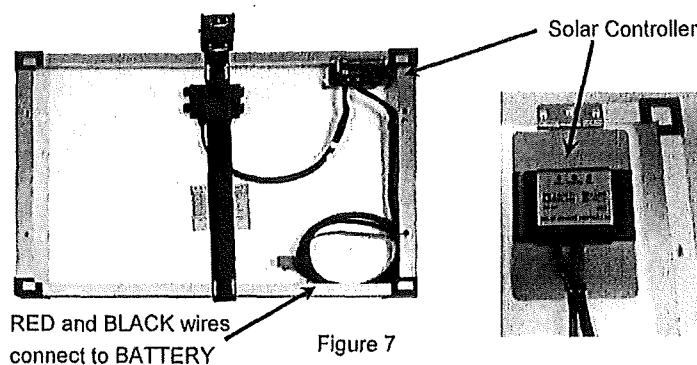
Figure 6

Speaker Cables

Solar Panel Connections

16. Cut the black zip-ties securing the RED and BLACK wires on the underside of the solar panel. (Figure 7)
17. Connect the RED wire to the "+" terminal on the 12-volt battery and connect the BLACK wire to the "-" terminal on the battery.

NOTE: If you are using a "Sealed Gel" 12-volt battery (instead of a "Wet" Lead Acid battery) you will need to adjust Dip Switch 1 to the "ON" position, and Dip Switch 2 to the "OFF" position. (Fig. 8, 9 and 10) The Access Hole is located on the Underside of the Solar Controller flexible panel, attached to the back side of the solar panel. The factory preset setting is for a 12-volt "Wet" Lead Acid battery with Dip Switch 1 to the "OFF" position, and Dip Switch 2 to the "ON" position. It is recommended that you use a Group 27, Deep Cycle 12-bolt battery for optimum performance.



RED and BLACK wires connect to BATTERY

Figure 7

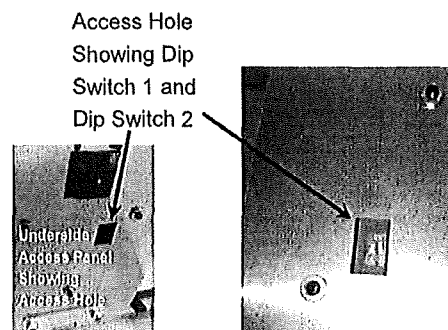


Figure 8, 9 and 10

CAUTION: The Mega Blaster Pro is capable of producing sounds up to 125 decibels. Hearing protection must be worn anytime the unit is on!



Settings

Repelling birds requires regular monitoring and active management. Birds are intelligent and highly adaptable so it is important to create and maintain an environment the birds perceive as hostile and dangerous. This is achieved by playing the sounds frequently and at a high volume, otherwise the birds will not be fully repelled and will soon learn to adapt.

Below are the initial settings that should be used when your Mega Blaster Pro is first installed. Please see the "Bird Control Management Guidelines" section for more information.

Recordings

There are eight separate bird sounds contained on the Replaceable Sound Card. The label on the sound card lists each sound with a number corresponding to the eight "RECORDINGS" dip switches to the left of the Sound Card. Initially all RECORDING switches should be turned ON. If the target birds begin returning, periodically change the switch settings for the eight sounds (turning them ON or OFF). **NOTE: NEVER turn OFF the distress calls of the target birds you are trying to repel and always keep at least one predator bird sound turned ON.**

Mode Settings

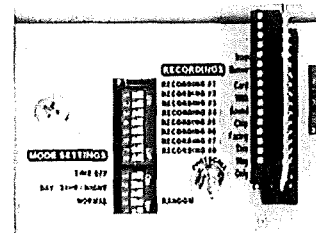
TIME OFF INTERVAL controls the time off periods between each playing of the bird recordings.

Setting	Time Off Duration	Switch #1	Switch #2
SHORT	17-50 Seconds	ON	OFF
MEDIUM	1:00-4:15 Minutes	OFF	ON
LONG	5:00-10:00 Minutes	ON	ON
XLONG	10:00-30:00 Minutes	OFF	OFF

When the Mega Blaster Pro unit is first installed the **TIME OFF INTERVAL** should be set to **SHORT** to create the greatest sense of danger and move the birds out of the area the fastest. Once the birds have left the area completely for a week or more you may try increasing the **TIME OFF INTERVAL** gradually, but you must monitor the birds carefully. Switch back to **SHORT** at the first sign birds are returning.

TIME OF OPERATION controls when the bird recordings play.

Setting	Switch #3	Switch #4
DAY ONLY	ON	OFF
24-HOUR	OFF	ON
NIGHT ONLY	ON	ON



Recommended Settings

In most cases birds are only active during the day so the **DAY ONLY** is recommended. If birds are roosting in bordering trees at night you will need to set the **TIME OF OPERATION** for **24-HOUR**.

RANDOM OPERATION should always be turned **ON**. **VOLUME** should be set as high as possible.

Troubleshooting

Problem	Possible Cause	Solution
No Sound	Volume turned down	Turn volume up
	Dead battery	Charge or replace battery
	Loose battery connection	Verify all battery connections are tight
	All RECORDINGS are turned OFF	Verify all RECORDINGS are switched to ON
	Sound Card not fully seated	Remove sound card and reinstall, making sure it is fully inserted into the socket
	Sound Card is installed backward	Unplug the sound card and reinstall with the label facing to the left
	TIME OF OPERATION set to DAY ONLY without enough light	Change TIME OF OPERATION to 24-HOUR
	Unit was not shut down before the battery was disconnected causing the unit to go into "SAFE MODE"	<ol style="list-style-type: none"> 1. Turn the POWER switch OFF 2. Disconnect the battery 3. Remove the sound card 4. Wait 30 seconds 5. Reinstall sound card 6. Reconnect the battery 7. Turn the POWER switch ON
Was working but stopped	The battery is dead	Connect the battery to a battery charger and see if it will hold a charge. Replace if necessary
	Solar Panel is not getting enough sunlight	Reposition the Solar Panel

Limited Warranty

THIS MEGA BLASTER PRO UNIT IS WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR SIX MONTHS FROM DATE OF PURCHASE (EXTENDED WARRANTY AVAILABLE). BIRD-X WILL REPLACE OR REPAIR, PROVIDED DEFECT OCCURS UNDER NORMAL USE. *RETURNS ACCEPTED ONLY WITH AUTHORIZATION FROM OUR CHICAGO OFFICE.*



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Chicago, IL 60612

Toll-Free (800) 662-5021

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Info@Bird-X.com

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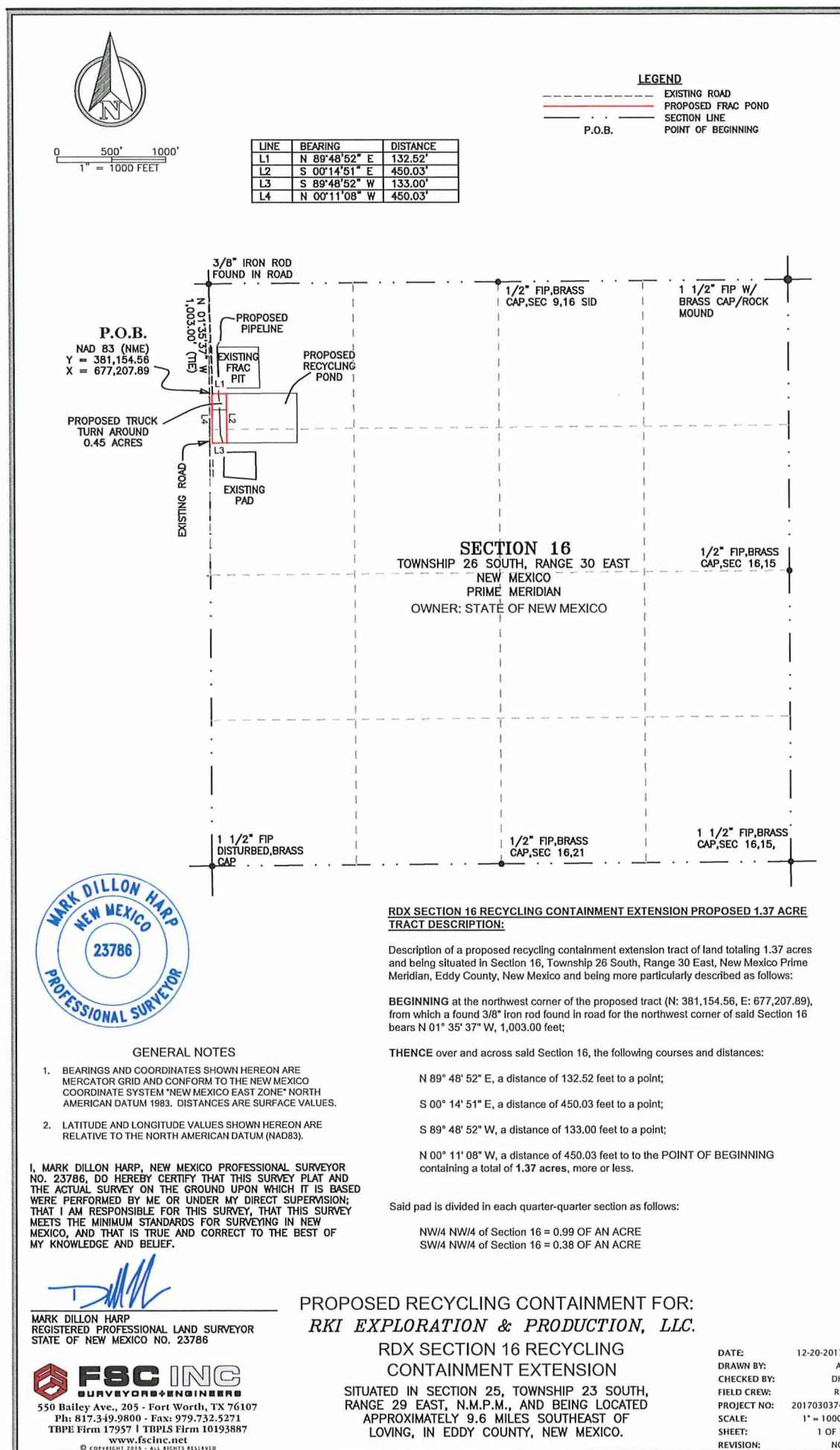
EPA Establishment Number 075130-OR-001

Mega Blaster Pro P/N 655-0065-00 (Rev. C - 5/2016)



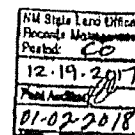
Appendix B: Additional Information

Proposed Pit Location



Business Lease

(Page 1 of 9)



**Aubrey Dunn, Commissioner of Public Lands
State of New Mexico**

BUSINESS LEASE

Lease No. BL-2503

THIS LEASE, dated 20 September 2017, is made and entered into by and between the Commissioner of Public Lands, hereinafter referred to as "Lessor", and *RKI Exploration & Production, LLC*, whose address is 3500 One Williams Center MD-35, Tulsa, OK 74172, hereinafter referred to as "Lessee".

Lessor and Lessee agree and covenant as follows:

1. **LEASE.** For and in consideration of and subject to the terms, conditions, covenants and reservations contained herein, Lessor leases to Lessee the following described tract of land, hereinafter referred to as the "leased premises":

An existing Frac Pond lying within State of New Mexico land in Section 16, Township 26 South, Range 30 East, NMPM, Eddy county, New Mexico and being more particularly described as follows:

Beginning at the Northwest corner of said Frac Pond in the NW ¼ NW ¼ of said section, which lies S0755°30" 583.01 feet from the Northwest corner; then S8923°02"E 385.26 feet; then S0018°36"E 369.80 feet; then S8946°22"E 372.76 feet; then N0212°36"W 375.69 feet to the point of beginning.

NW ¼ NW ¼ = 3.242± acres

The rights granted herein are subject to all valid existing rights in the leased premises.

2. **WATER RIGHTS.** No water rights shall be used, placed or developed on the leased premises without the express, written consent of Lessor. All water appropriated shall be pursuant to state law and regulations. Any water rights used, placed or developed on the Lease Premises are herein and hereby deemed to belong to the Lessor, and all such rights shall be developed in the name of the Lessor.

3. **RESERVATIONS.** Lessor reserves the right to execute leases for the exploration, development and production of geothermal resources, oil and gas, sand, gravel, coal, shale, clay, rock, building stone or materials, potassium, sodium, phosphorus, salt or any other minerals or deposits of whatsoever kind located in, under or upon the leased premises and all rights of access, ingress and egress through or across the

BL-2503

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(Page 2 of 9)

leased premises that are necessary or convenient to such exploration, development or production. Lessor further reserves the right to grant rights-of-way and easements over, upon, or across the leased premises for public highways, railroads, tramways, telephone, telegraph and power lines, irrigation works, sewer lines, drainage ditches, mining, logging, and for other purposes.

4. **TERM.** The term of this lease shall begin on the date of this lease and end at midnight on **19 September 2022**, unless terminated or canceled earlier as herein provided. Nothing contained herein shall limit the right of Lessor to sell or exchange the leased premises during the lease term.

5. **RENT.** Lessee shall pay to Lessor as rent for the leased premises and for the rights and privileges granted hereunder as specified below. All rent is due and payable in advance **on or before the 20th day of September** each year during the term of this lease. Time is of the essence in the performance of this agreement. Interest on delinquent rent payments shall accrue from the date the payment becomes due at the rate of one percent a month or any fraction of a month. Lessee shall also pay a late processing fee of **\$50.00** for any delinquent payment of rent, in accordance with the Lessor's schedule of fees.

09/20/2017 rental amount due \$5,000.00

09/20/2018 rental amount due \$5,150.00

09/20/2019 rental amount due \$5,305.00

09/20/2020 rental amount due \$5,464.00

09/20/2021 rental amount due \$5,628.00

6. **PERMITTED USE.** Lessee shall use the leased premises for the sole and exclusive purpose of: **Operation of a fresh water Frac Pond**. No other uses shall be permitted.

7. **IMPROVEMENTS.** Lessee may place the following improvements on the leased premises:

- One (1) 6' Chain link fence;
- One (1) Liner System;
- Loadout Lines;
- Dirt Work for Pond;
- Roadwork

No other improvements shall be placed on the leased premises without the prior amendment of this lease pursuant to Paragraph 20 hereof to permit such improvement placement. Lessee shall maintain and protect from waste and trespass all improvements placed on the leased premises. In the event improvements other than those authorized herein are placed on the leased premises, Lessor may either declare title to such improvements in Lessor without payment of compensation to Lessee or Lessor may order the removal of such improvements and the restoration of the leased premises to their

(Page 3 of 9)

condition existing prior to the placement of said improvements at Lessee's expense. The foregoing rights of Lessor shall be cumulative to Lessor's right to cancel this lease as herein provided.

8. **LIEN.** To secure the payment of any rent amount that becomes due, and to satisfy all reasonable costs incurred by Lessor in recovering said rent amount, Lessor shall have a first and prior lien on any and all improvements, fixtures and equipment placed on the leased premises.

9. **IMPROVEMENT REMOVAL AND RECLAMATION.** Before relinquishment or termination of this lease without re-lease to Lessee, or upon Lessor's cancellation of this lease as provided herein, Lessee shall remove all improvements placed on the leased premises and shall restore the leased premises to their condition existing prior to the placement of said improvements; provided, however, if any rent amount is due and unpaid at the time of lease cancellation or termination, Lessee shall remove improvements and restore the leased premises as herein provided only at such time, in such manner and under such conditions as Lessor may in writing demand. Lessee hereby waives, and shall not assert, any right to compensation for improvements on the leased premises under Section 19-7-14, NMSA 1978. This paragraph shall survive termination of this lease.

10. **RELINQUISHMENT.** Lessee, if not in default under this lease, may at any time apply to relinquish the lease to Lessor and be relieved of further obligations under the lease, provided, however, such relinquishment shall not be valid or effective until approved in writing by Lessor. Lessee must file an application to relinquish the Lease at least 30 days prior to the date on which the Lessee requests the relinquishment to go into effect. Lessor may condition relinquishment on any terms he deems reasonable. Relinquishment shall be made on a form prescribed by Lessor and shall be accompanied by the required relinquishment fee as set forth in Lessor's schedule of fees. Upon relinquishment Lessee shall not be entitled to the refund of any rent previously paid.

11. **ASSIGNMENT.** Lessee shall not assign this lease, any part thereof, or assign any improvements located on the leased premises without the prior amendment of this lease pursuant to Paragraph 20 hereof to permit such assignment. Any lease assignment without lease amendment shall be null and void. Lessor may condition such lease amendment upon an increase in the rent amount and the modification or addition of other lease provisions.

12. **SUBLEASE.** Lessee shall not sublease the rights granted hereunder, any part thereof, any portion of the leased premises or any improvements located on the leased premises without the prior amendment of this lease pursuant to Paragraph 20 hereof to permit such sublease. Any sublease without lease amendment shall be null and void. Lessor may condition such lease amendment upon an increase in the rent amount and the modification or addition of other lease provisions.

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13. **COLLATERAL ASSIGNMENT.** Lessee shall obtain approval of Lessor in accordance with State Land Office Rule 19.2.9.15 NMAC before making any collateral assignment or mortgage of its interest in this Lease or its improvements, and any such collateral assignment or mortgage shall be subject to the conditions, limitations and requirements set forth in the State Land Office rules. Lessor's approval of a collateral assignment or mortgage shall not release Lessee from any of its obligations under this Lease, except as agreed to in writing by Lessor. If Lessor gives Lessee a notice of default, Lessor shall simultaneously provide a copy of the notice to an approved collateral assignee or mortgagee, which shall have the right to cure the default within the time provided, subject to the requirements of State Land Office rules. An approved collateral assignee or mortgagee may succeed to the rights and duties of Lessee, and it may assign the lease in accordance with Paragraph 11, above, and State Land Office rules governing assignments.

14. **DEFAULT AND CANCELLATION.** Upon Lessee's violation of any of the terms, conditions or covenants contained herein, including the failure to pay the rent when due, Lessor may cancel this lease after providing Lessee thirty (30) days notice of the default by registered mail. The mailing of such notice as herein provided shall constitute notice of Lessor's intention to cancel the lease and no proof of receipt of such notice shall be necessary in order for Lessor to enter lease cancellation thirty days after the mailing of the notice if Lessee has not cured the default to Lessor's satisfaction within said thirty day period. Lessee agrees that if a court of competent jurisdiction determines that Lessee has breached any of the terms, conditions or covenants of this lease, Lessee shall pay the costs incurred by Lessor in litigating the default, including reasonable attorney fees. In the event of a breach of the terms of this Lease by the Lessee, the Lessor also shall have all remedies available at law or equity.

15. **WAIVER.** No employee or agent of Lessor has the power, right or authority to orally waive any of the terms, conditions, or covenants hereof and no waiver by Lessor of any of the terms, conditions or covenants hereof shall be effective unless in writing and executed by Lessor. Lessor's waiver of Lessee's breach or default of any of the terms, conditions or covenants hereof shall not constitute or be construed as a waiver of any other or subsequent breach or default by Lessee. The failure of Lessor to enforce at any time any of the terms, conditions or covenants hereof or to exercise any option herein provided, or to require at any time performance by Lessee of any of the terms, conditions, or covenants hereof shall not constitute or be construed to be a waiver of such terms, conditions, or covenants, nor shall it affect the validity of this lease or any part thereof, or Lessor's right to thereafter enforce each and every such term, condition and covenant.

16. **COMPLIANCE WITH LAWS.** Lessee shall fully comply with all federal and state laws, regulations, rules, ordinances and requirements, applicable to the leased premises or to Lessee's operations thereon, including but not limited to all applicable laws governing water; endangered or threatened species; hazardous materials; environmental protection; land use; health and safety; cultural, historic or archeological /

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paleontological properties; waste; trespass; and all New Mexico State Land Office Rules and Regulations, including those that may be hereafter promulgated. Lessee's obligations under this paragraph include but are not limited to compliance with NMSA 1978 Section 19-6-5, requiring a lessee of State Trust Land to protect the leased premises from waste or trespass. Lessee's compliance with all laws, regulations and policy shall be at its own expense.

17. WAIVER, RELEASE AND PROTECTION OF THE LEASED PREMISES. Lessee is leasing the leased premises based on Lessee's own inspection and investigation of and judgment regarding the leased premises. Lessor makes no warranties or representations of any kind or nature with regard to the leased premises or with regard to this transaction.

If accidental discharge, release, spill, or fire or any other event having environmental consequence occurs, Lessee agrees to provide notice to Lessor at the same time and in the same manner as Lessee is required to provide to the federal, state or local agency having responsibility for enforcing compliance with environmental laws, regulations and policy. Lessee agrees that, upon request by Lessor, Lessor shall have access to all reports, documents, test data and all other materials provided by Lessee to or received by Lessee from a governmental agency having responsibility for enforcing compliance with environmental or other laws.

In the event Lessor is required to incur any cost or expense to enforce the provisions of this lease, including but not limited to consultants, engineers, soil, air or water sampling and attorney's fees and costs, Lessee shall be liable for and reimburse Lessor for said costs and expenses.

18. INDEMNIFICATION; INSURANCE.

A. Lessee shall hold harmless, indemnify and defend the State of New Mexico, Lessor and Lessor's employees, agents, and contractors, in both their official and individual capacities, from any and all liabilities, claims, losses, damages, or expenses, including but not limited to reasonable attorneys' fees, loss of land value, third party claims, penalties or removal, remedial or restoration costs arising out of, alleged to arise out of or indirectly connected with a) the operations hereunder of Lessee or Lessee's employees, agents, contractors, or invitees, b) the activities of third parties on the leased premises, whether with or without Lessee's knowledge or consent. In the event that any action, suit or proceeding is brought against Lessee, Lessee shall, as soon as practicable but no later than two (2) days after it receives notice thereof, notify the legal counsel of Lessor and the Risk Management Division of the New Mexico General Services Department by certified mail. This Paragraph 18(A) shall survive the termination, cancellation or relinquishment of this Lease, and any cause of action of Lessor to enforce this provision shall not be deemed to accrue until Lessor's actual discovery of said liability, claim, loss, damage, or expense.

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B. During the Term of this Lease, Lessee shall, at Lessee's cost and expense, obtain and maintain at all times with insurers authorized to do business in the State of New Mexico commercial general liability insurance (in the broadest form then available in New Mexico) that names the Lessor ("New Mexico State Land Office") as the insured or as an additional insured, protecting the Lessor against claims for bodily injury, personal injury, death and property damage. Such an insurance policy must specifically provide coverage for the Lessor and its employees and agents in minimum amounts of \$200,000 for damage to or destruction of each legally described real property arising out of a single occurrence with an aggregate of \$1,000,000; \$1,000,000 per occurrence/aggregate for bodily injury, personal injury or death; and \$1,000,000 with respect to any one occurrence. Higher coverage for the Lessor may be reasonably required by the Lessor from time to time, including but not limited to increases needed to provide complete coverage for Lessor's maximum liability under the New Mexico Tort Claims Act, Section 41-4-1 et seq. NMSA 1978. Insofar as the above-described insurance provides protection against liability for damages to third parties for personal injury, death, and property damage, lessor shall be included as an additional insured, provided such liability insurance coverage shall also extend to damage, destruction and injury to Lessor-owned or Lessor-leased property and Lessor personnel, and caused by or resulting from work, acts operations or omissions of Lessee. Lessor shall have no liability for premiums charged for such coverage, and inclusion of Lessor as an insured party is not intended to, and shall not make Lessor a partner or joint venturer with Lessee in its operations.

C. The policy of insurance required to be maintained by Lessee pursuant to Paragraph 18(B) shall be reasonably satisfactory to Lessor and shall (a) provide for the benefit of Lessor that thirty (30) days prior written notice of suspension, cancellation, termination, modification, non-renewal or lapse or material change of coverage shall be given to all insured parties and that such insurance shall not be invalidated by any act or neglect of Lessor, nor by any foreclosure or other proceedings or notices thereof relating to the Land, leasehold or improvements, nor by occupation of the Land for purposes more hazardous than are permitted by such policy; (b) not contain a provision relieving the insurer thereunder of liability for any loss by reason of the existence of other policies of insurance covering the Land, leasehold or improvements against the peril involved, whether collectable or not; and (c) include a contractual liability endorsement evidencing coverage of Lessee's obligation to indemnify Lessor pursuant to Paragraph 18(A).

D. In addition, the Lessee must obtain at its own expense, insurance coverage adequate to protect its operations, property, employees and agents in amounts Lessee finds sufficient. Lessee shall be solely responsible for obtaining insurance policies that provide coverage for losses of Lessee-owned property, including improvements. Lessor shall not be required to provide such insurance coverage or be responsible for payment of Lessee's costs for such insurance.

E. Within ten (10) days after the execution of this Lease by Lessor and delivery to Lessee, Lessee shall deliver to Lessor original or duplicate certificates of insurance evidencing all the insurance which is required to be maintained under this

01-5-13 9-10-10

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Lease by Lessee certifying that all requirements set forth herein have been complied with, and within ten (10) days prior to the expiration of any such insurance, other original or duplicate certificates evidencing the renewal of such insurance. A certificate, policy, endorsement or rider which states that failure to give Lessor notice imposes no liability or obligation on the insurer shall not be in compliance with this Lease. For example, certificates or policies stating that the insurer shall "endeavor to notify" and that "failure to give such notice imposes no obligation" on the insurer are unacceptable to Lessor. Failure to comply with the insurance specifications in this Lease is a material breach of the Lease. Different types of required insurance may be written in one or more policies.

19. **SCOPE OF AGREEMENT.** This lease incorporates all the agreements, covenants and understandings between Lessor and Lessee concerning the subject matter hereof and all such agreements, covenants and understandings are merged into this written lease. No prior agreement or understanding between Lessor and Lessee shall be valid or enforceable unless expressly embodied in this lease.

20. **AMENDMENT.** This lease shall not be altered, changed or amended except by an instrument executed by both Lessor and Lessee.

21. **APPLICABLE LAW.** This lease shall be governed by the laws of the State of New Mexico.

22. **EXHAUSTION OF ADMINISTRATIVE REMEDIES.** In the event that Lessee is aggrieved by a decision of Lessor to cancel this Lease, Lessee shall within thirty (30) days after the date of such decision file an administrative contest pursuant to NMSA 1978, § 19-7-64 and State Land Office Rule 15 (19.2.15 NMAC). Lessee shall initiate no court action regarding this Lease except to appeal a final decision of the Commissioner of Public Lands rendered pursuant to such a contest proceeding, and as provided by NMSA 1978, § 19-7-64.

23. **SUCCESSORS IN INTEREST; THIRD PARTIES.** All terms, conditions and covenants of this lease and all amendments thereto shall extend to and bind the heirs, successors and assigns of Lessee and Lessor. There are no third party beneficiaries of this Lease.

24. **RE-LEASE.** At the expiration of the term of this lease, Lessee may re-lease the leased premises provided Lessor has determined to offer the leased premises for the same uses as permitted herein, Lessee is not in default under this lease, Lessee agrees to the terms offered by Lessor, and Lessee has bettered any offer to lease the leased premises made by a third party.

25. **HOLDING OVER.** If Lessee enters upon the leased premises after the termination or cancellation of this lease for any purpose, or leaves any equipment, buildings, materials, property or debris on the leased premises after the termination or cancellation of this lease, the rent due Lessor for such entry or presence shall be \$30.84 for each day or any part of a day. Nothing contained herein shall be construed as the

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grant to Lessee of the right to enter the leased premises for any purpose after the termination or cancellation of this lease without prior written consent of Lessor.

26. **LEASE ENTERED INTO UNDER STATE LAND OFFICE RULE 9.** This Lease is entered into pursuant to New Mexico State Land Office Rule 9, "Business Leasing" (19.2.9 NMAC), and the provisions of that rule control the interpretation and application of the terms of this Lease, except that in the event of a conflict between a provision of this Lease and a provision of Rule 9, the Lease provision controls.

Executed in duplicate.

LESSEE:

RKI EXPLORATION & PRODUCTION, LLC

By: 

Name: GREGORY J. GEIST

Title: VICE PRESIDENT OF LAND

LESSOR:

NEW MEXICO COMMISSIONER OF PUBLIC LANDS

By: 

AUBREY DUNN

(Notarization on Next Page)



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ACKNOWLEDGMENT IN AN INDIVIDUAL CAPACITY

State of _____
 County of _____

This instrument was acknowledged before on _____ (date) by
 _____ (name).

(seal)

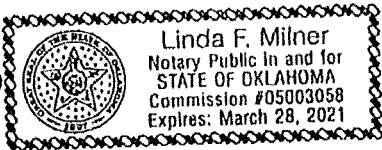
 (Signature of notarial officer)

My commission expires: _____

ACKNOWLEDGMENT IN A REPRESENTATIVE CAPACITY

State of Oklahoma
 County of Tulsa

This instrument was acknowledged before on 10/31/2017 (date) by
GREGORY J. GEIST (name) as VICE PRESIDENT OF LAND (title) of
RKI EXPLORATION & PRODUCTION, LLC (name of party on behalf of whom
 instrument is executed).

(seal)  Linda F. Milner
 Notary Public in and for
 STATE OF OKLAHOMA
 Commission #05003058
 Expires: March 28, 2021

Linda F. Milner
 (Signature of notarial officer)

My commission expires: 3/28/2021

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2022 MAY -2 AM 9:02

**Stephanie Garcia Richard
Commissioner of Public Lands
State of New Mexico**

ASSIGNMENT OF STATE BUSINESS LEASE

KNOW ALL PERSONS BY THESE PRESENTS:

That WPX Energy Permian LLC, hereinafter called the Assignor for good and valuable consideration of the sum of \$200.00, in hand paid, the receipt of which is hereby acknowledged, do hereby sell, assign, transfer and set over unto EOG Resources, Inc.,
(Name)
5509 Champions Drive, Midland, Texas, 79708, 432-686-3600,
(Address) (City, State, Zip Code) (Phone Number) hereinafter
called the Assignee, that certain Business Lease No. BL-2504 made and executed by the State of
New Mexico, through its Commissioner of Public Lands as Lessor, unto EOG Resources, Inc. as
Lessee. This Assignment will become effective 2/3/2022 ("Effective Date"). The same affects the
following described lands:

☒ Base Short-Term Lease (\$200.00 Application Fee)

☐ Base Long-Term Lease (\$500.00 Application Fee)

The Assignee agrees to assume all obligations of the Assignor to the State of New Mexico insofar as said described lands are concerned and to pay such rentals and to perform such acts as are required by said lease, to the same extent and in the same manner as if the terms and provisions of said lease were fully set out herein. It is further agreed that the Assignee shall succeed to all rights, benefits and privileges granted the Lessee by the terms of said lease.

The Assignor further states and affirms that the consideration recited about is the true and sole consideration paid or promised for the purchase of the improvements on the lands hereinabove described and for the execution of this assignment. It is further understood and agreed that in case it is found that the consideration recited above is not the true and sole consideration or that a false statement has been made in the procurement and approval of this assignment, the master lease or the portion thereof sought to be assigned, shall be subject to cancellation at the option of the Commissioner

Cultural Resource Protection:

Please indicate that you (Applicant) have read the T&E and Cultural Resources Notice to Applicants and that you understand and agree to abide by the terms and conditions set forth therein. Yes ☒ No ☐

An Archaeological Survey is strongly recommended. If no survey is provided an Archaeological Records Management Section Inspection (ARMS Inspection) in accordance with NMAC 4.10.15.9 is required. If the ARMS Inspection is not provided by the applicant, the Land Office will provide the ARMS Inspection in the order applications are received.

An Archaeological Survey is attached with a cover page labeled:

Confidential Exhibit _____.
Yes ☐ No ☐

An ARMS Inspection is attached with a cover page labeled:

Confidential Exhibit _____.

1

Yes ____ No ____

The Applicant would like the NMSLO to provide the ARMS Inspection:

Yes ____ No ____

Shape Files:

Shape Files are required with all applications.

Shape Files for this project are available: Yes X No ____

If yes, the NMSLO lease analyst will contact you at the address you provide:

Applicant Shape File Custodian (email contact information): carson_guinn@cogresources.com
of Public Lands.IN WITNESS WHEREOF, the Assignor has hereunto executed this assignment this 8th day of April, 2022.STATE OF OklahomaCOUNTY OF Oklahoma (ss)SUBSCRIBED AND SWORN TO BEFORE ME this 6th day of April, 2022, byDavid M. Korrell

(SEAL)

My Commission Expires: Notary Public

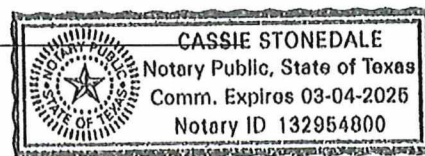
3/15/25PROVED THIS 11 DAY OF April, 2022.STATE OF TexasCOUNTY OF Midland) ss.SUBSCRIBED AND SWORN TO BEFORE ME this 11 day of April, 2022, byMatthew W. Smith, Agent & Attorney-in-Fact

(SEAL)

My Commission Expires:

3/4/25

Assignee

Stephanie Garcia Richard
Commissioner of Public Lands

Date

\$200.00 or \$500.00 NON-REFUNDABLE APPLICATION FEE*

* Please make checks payable to "Commissioner of Public Lands". When you provide a check as payment, you authorize the State of New Mexico to either use information from your check to make a one-time electronic fund transfer from your account or to process the payment as a check transaction.

Liner Leak Report and Repair Invoice



LEAK LOCATION SERVICES, INC.

January 23, 2023

Mr. Jesse Terrazas
EOG Resources
111 Bagby Street
Sky Lobby 2
Houston, TX 77002

Email: Jesses_Terrazs@eogresources.com

Subject: Report for the Geomembrane Leak Location Survey of JT PIT, formally known as
RDX Section 16 Recycling Containment (2RF109)
Latitude: 32.0464979 Longitude: -103.8933291
Located: Unit D Section:16 Township:26S Range:30E County:Eddy
State:New Mexico
LLSI Project 3622

Dear Mr. Terrazas,

On January 21, 2023, Christopher Gonzalez of Leak Location Services, Inc. (LLSI) conducted a geomembrane leak location survey of the subject site. The pond has a lined area of approximately 292,500 square feet and is lined from the bottom up with a 40-mil HDPE secondary geomembrane, geonet, and a 60-mil HDPE primary geomembrane. Approximately 190,000 square feet of the pond geomembrane was surveyed on this mobilization. This report documents the results of the survey.

I. RESULTS

A. Survey

One leak signal was detected during the leak location survey of the primary geomembrane for the JT Pit. The leak was located approximately 187 feet from the mark near line 355 on the west side slope, in line with the reference mark near line 355 on the east side slope. Figure 1 shows the approximate locations of the leak found in the pond.

B. Leak Detection Sensitivity Test

The leak location equipment was tested to document the leak detection sensitivity. A simulated leak was constructed by placing a 0.055 inch-diameter hole in a plastic container with a thickness approximating the thickness of the geomembrane. An insulated wire with a stripped end will enter the container through a sealed insulating penetration. The other end of the wire was connected to earth ground. The container was filled with water from the impoundment and submerged in the impoundment. Leak location scans were made to determine the maximum

16124 UNIVERSITY OAK • SAN ANTONIO, TEXAS 78249 • (210) 408-1241 / FAX (210) 408-1242
WEB: WWW.LLSI.COM EMAIL: RESULTS@LLSI.COM

EOG Resources
January 23, 2023

LLSI Project 3622
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distance that the simulated leak can be reliably detected. The simulated leak could be detected from approximately five feet away.

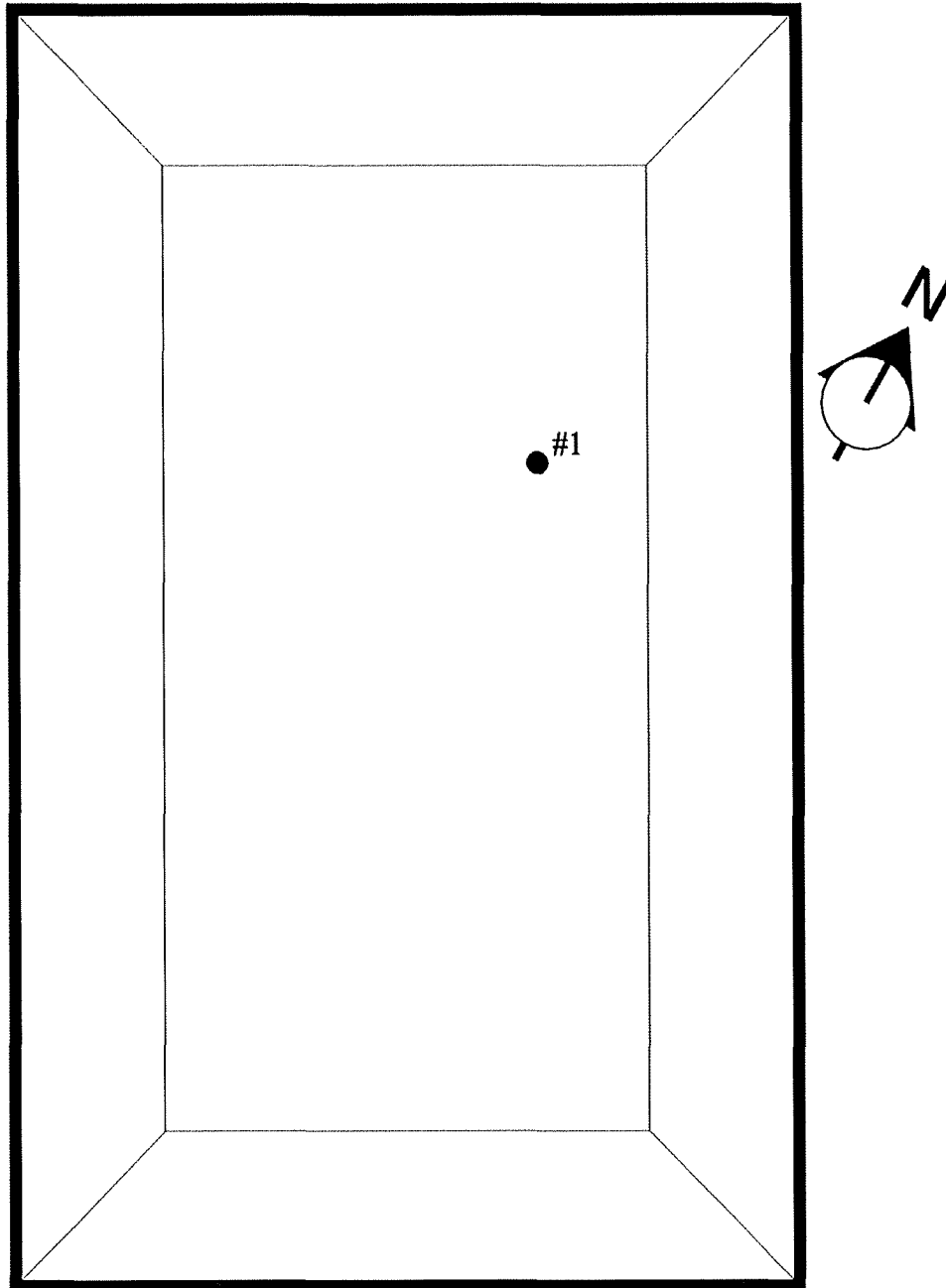


FIGURE 1. APPROXIMATE LOCATIONS OF LEAKS IN THE JT PIT

EOG Resources
January 23, 2023

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To relocate the leaks, stretch a string line between the corresponding survey line markers on the opposite sides of the lagoon and then lower the line onto the geomembrane. Use a tape measure to measure the distance from the mark on the geomembrane along the string line to the leak. The tape measure should go down the slope to the toe of the slope and then along the floor to the leak. Draw a short line perpendicular to the end of the tape measure. The leak should be close to the perpendicular line. If two measurements are provided, repeat this process from the second mark. The leak will be close to the intersection of the lines perpendicular to the end of the tape measures.

II. PRINCIPLE OF THE ELECTRICAL SURVEY METHOD

A. General

The electrical leak location method detects electrical paths through the liner caused by water or moisture in the leaks. A voltage is impressed across the geomembrane being tested. Electrical current flowing through any leaks in the geomembrane produces localized anomalous areas of high current density near the leaks. These areas are located by making electrical potential measurement scans in or on the electrically conductive material covering the geomembrane.

B. Deep Water Survey

A towed probe survey is used to locate leaks in geomembranes that are covered with more than 30 inches of water and for testing side slopes covered with water. The sensor is towed down the side-slope across the short dimension of the pond and then back up the opposite side-slope along the established survey lines while the survey operators stand on opposite banks of the pond. The probe and cable are then moved to the next survey line and the process reversed.

The survey lines spaced approximately 2.5 feet apart are established by placing temporary marks on the liner side-slope near where the survey operators will stand. In this manner, the water does not have to be lowered for the testing and the geomembrane is tested under full hydrostatic load. In addition, long side-slopes can be tested by pulling the sensor up and down the side slope while survey personnel move around the perimeter of the pond.

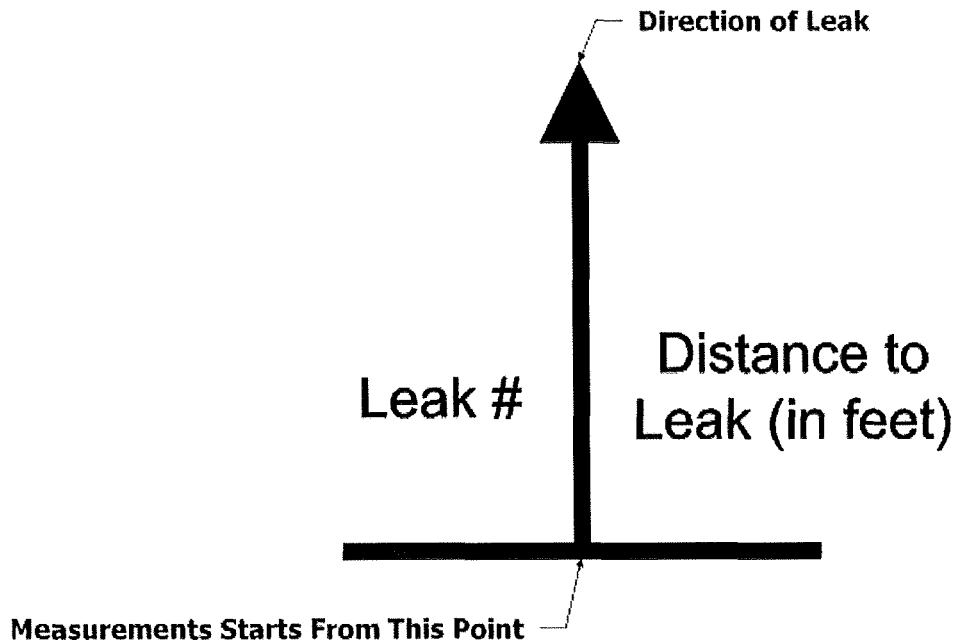
When a leak is located, the position of the leak is determined by measuring the distance to the sensor when the sensor is at the leak. However, because the probe can only be maneuvered along the survey line, and because of the tolerances in the measurement accuracy, the positioning accuracy for located leaks is anticipated to be about two feet plus one or two percent of the distance to the leak to the edge of the pond. When the water is removed for repair, the leak must be located visually by the leak repair crew using the distance marks provided to guide the repair personnel. An example of the provided distance marker is below:



Leak Location Services, Inc.

EOG Resources
January 23, 2023

LLSI Project 3622
Page of 4



If there are any questions regarding the electrical survey or this report, please contact us at (210) 408-1241. We appreciate the opportunity to have been of service to you.

Respectfully,

John Ortiz
Sr. Project Manager

Invoice



#522023

3/28/2023

WO51975 JT Pit (Warf Rat) Repairs

Bill To

EOG Resources 14701 Bogert
Parkway Oklahoma City OK
73134-2646

Job Site

EOG Resources
Jal NM 88252
32.047003
-103.894277

TOTAL

Due Date: 4/27/2023

Terms

Net 30

Due Date

4/27/2023

PO or AFE

Verbal From Jesse Terrazas

Sales Rep

Rowdy Beggs

Job Site

WO51975 JT Pit
Repairs

State

NM

Ordered By

EOG Resources : Jesse
Terrazas

Job Completion Date

Quantity	Units	Item	Rate	Amount
28	Hours	9045-labor-Liner Labor - Liner -Labor for 4-person Crew to Walk and inspect pond for leaks and repair. -Repaired holes in 60mil primary liner with grinder and extrusion gun found on 01/23/20203 leak detection report. -Repaired/reinforced weakness on perimeter of liner.		
2	Days	9066 - Fuel Surcharge Fuel Surcharge Fuel Surcharge		

Subtotal

Tax (5.38%)

Total

Paid

Amount Due

detach and return with remittance

Remit to:
Mustang Extreme Environmental Services, LLC
5049 Edwards Ranch Rd.
Suite 240
Fort Worth TX 76109Invoice #: 522023
Remit this amount: 
Customer #: EOG Resources

522023

Financial Assurance



**Stephanie Garcia Richard
Commissioner of Public Lands
State of New Mexico**

RECLAMATION BOND FOR COMMERCIAL LEASES

File with:

New Mexico State Land Office
Commercial Resources Division
310 Old Santa Fe Trail, Santa Fe, NM 87501
P.O. Box 1148, Santa Fe, NM 87504-1148

BOND NO. 58S216006
(For use of Surety Company)

BOND NO. _____
(For use of NMSLO)

EFFECTIVE DATE: May 18, 2023

LEASE NO. **BL-3024**

KNOW ALL PERSONS BY THESE PRESENTS:

Lessee Name: EOG Resources, Inc.
Lessee's Address: 5509 Champions Dr., Midland, TX 79706
State in which Lessee is Organized: Texas

Surety Name: Liberty Mutual Insurance Company
Surety Business Address: 175 Berkeley St., Boston, MA 02116
State in which Surety is Organized: Massachusetts

WHEREAS, Lessee, authorized to do business in the State of New Mexico, and Surety, authorized by the Superintendent of Insurance to do business in the State of New Mexico, pursuant to the Commissioner of Public Land's authority to manage state trust land and leases in Sections 19-2-1 and 19-2-2 NMSA 1978, are jointly and severally firmly bound to the State of New Mexico's State Land Office ("NMSLO"), or its successor, for payment in the amount of **one million dollars (\$1,000,000)**.

WHEREAS, Lessee holds a Recycling Containment and Recycling Facility Business Lease with NMSLO, and has installed or will install a recycling containment and recycling facility on the state trust land described in and covered by said NMSLO Lease No. **BL-3024** ("the Lease"), located in Section 16, Township 26S, Range 31E, N.M.P.M., Eddy County, New Mexico ("the Lease Land").

WHEREAS, the construction and operation of Lessee's recycling containment and recycling facility will cause surface and subsurface impacts to the Lease Land.

WHEREAS, Lessee and Surety expressly agree, under this Bond obligation, to cause and ensure compliance with all performance requirements of the Lease, as well as the proper removal of improvements, remediation, reclamation and restoration of the Lease Land, including but not limited to the requirements of Lease Paragraphs 13 and 14, any and all performance requirements, costs, fees, rent, fines in the Lease, 19.2.9 NMAC, 19.15.34 NMAC (including but not limited to 19.15.34.14 "Closure and Site Reclamation Requirements For Recycling Containments"), and any other applicable rules or laws ("Obligations").

Lessee and Surety further expressly agree that the Obligations of this Bond also include any costs, fees (including reasonable attorney's fees) incurred by NMSLO in enforcing any Obligations covered by this Bond, including the collection and forfeiture of this Bond. Additionally, Lessee and Surety expressly agree that the Obligations of this Bond also include any damages to the surface of the Lease Land, livestock, water, crops, tangible improvements or surface improvements suffered by reason of Lessee's operations on the Lease Land by NMSLO or under any state lease, permit, right-of-way or easement heretofore or hereafter executed by the Commissioner of Public Lands.

WHEREAS, Lessee and Surety agree to complete or make good and sufficient recompense, satisfaction or payment to NMSLO, for all Obligations under this Bond.

THEN AND IN THAT EVENT, this Bond and obligation shall be null and void; otherwise, and in default of complete compliance with any and all of said Obligations, this Bond shall remain in full force and effect.

PROVIDED, HOWEVER, that thirty (30) days after receipt by NMSLO's Commercial Resources Division of written notice of cancellation from the Surety, the obligation of the Surety shall terminate as to any Obligations placed and arising on or from the Lease or Lease Land after the said 30-day period, but shall continue in effect, notwithstanding said notice, as to Obligations placed or arising on or from the Lease or Lease Land before the 31st day after receipt of said notice; under such circumstances, the determination of what Obligations were placed and arising on or from the Lease or Lease Land as of the 31st day after receipt of said notice shall be made exclusively by NMSLO. The liability of Surety on this Bond shall not expire upon the termination of the Lease, but shall remain in full force and effect until released in writing by the Commissioner of Public Lands. The term of this bond shall be a minimum of five (5) years, unless released in writing earlier by the Commissioner of Public Lands.

Signed and sealed this 18th day of May, 20 23.

EOG Resources, Inc.

Robert L. Wust
PRINCIPAL Signature

Liberty Mutual Insurance Company

David T. Miclette
SURETY Signature

Robert L. Wust, VP & Treasurer
Printed Name and Title

David T. Miclette, Attorney-In-Fact
Printed Name and Title

5509 Champions Drive
Street Address

175 Berkeley Street
Street Address

Midland, TX 79706
City, State and Zip Code

Boston, MA 02116
City, State and Zip Code

Note: If Principal is a corporation, affix corporate seal here.

Note: If corporate surety, affix corporate seal here.

[Acknowledgement on the following page.]

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS:STATE OF _____)
) ss.

COUNTY OF _____)

On this _____ day of _____, 20____, before me personally appeared _____ to me known to be the person(s) described in and who executed the same as (his, her, their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission Expires _____

Notary Public name _____

Notary signature _____

(Notary seal)

ACKNOWLEDGMENT FORM FOR CORPORATION:STATE OF Texas)
) ss.COUNTY OF Harris)

On this 18th day of May, 20 23, before me personally appeared Robert L. West, to me personally known, who, being by me duly sworn, did say that s/he is VP & Treasurer of

EOG Resources, Inc. and that this instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

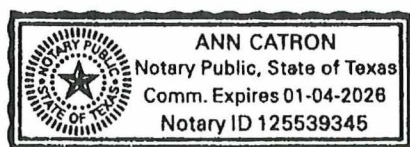
IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Jan 4, 2026
My Commission Expires

Ann Catron
Notary Public name

Ann Catron
Notary signature

(Notary seal)



ACKNOWLEDGMENT FORM FOR CORPORATE SURETY:STATE OF TEXAS)
) ss.COUNTY OF HARRIS)

On this 18th day of May, 2023, before me personally appeared
David T. Miclette to me personally known, who, being by me duly sworn,
 did say that s/he is Attorney-In-Fact of
Liberty Mutual Insurance Company and that this instrument was signed and sealed on
 behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be
 the free act and deed of said corporation.

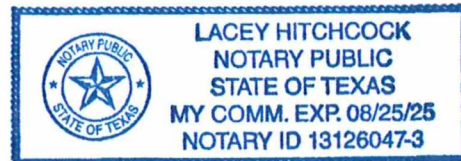
IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate
 first above written.

08/25/2025
 My Commission Expires

(Notary seal)

Lacey Hitchcock
 Notary Public name

Lacey Hitchcock
 Notary signature



(Note: Corporate surety attach power of attorney.)

APPROVED this _____ day of _____, 20____.

COMMISSIONER OF PUBLIC LANDS



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8210001-971801**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Stacey Bosley, Ashley Britt, Robert C. Davis, Will Duke, Lacey Hitchcock, Nikole Jeannette, Andrew Kim, Barry K. McCord, David T. Miellette, Jennifer Mitchell, Robert M. Overbey, Jr., Stacy Owens

all of the city of Houston state of TX each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 24th day of April, 2023.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 24th day of April, 2023 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 18th day of May, 2023.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.



P.O. Box 2267, Midland, Texas 79702
Phone: (432)848-9133

August 4, 2023

Ms. Victoria Venegas, Environmental Specialist
EMNRD- Oil Conservation Division
506 W. Texas Artesia, NM 88210

Re: EOG: JT Pit Reuse Recycling Facility and Containment

Dear Ms. Venegas:

Thank you for allowing EOG to continue to promote water reuse in the State of New Mexico for our operations. EOG Resources Inc., acquired a reuse pit previously owned and operated by [246289] RKI Exploration. The acquired pit was previously permitted as "RDX Section 16 Recycling Containment (RF109) located in Eddy County: Unit D, Section 16 Township 26S Range 30E. Transfer was conducted under Lease No. BL-2504, and signed in April of 2022 with an effective date of February 3, 2022 by the Commissioner of Public State Land Office.

EOG Resources respectfully request permission to re-permit the acquired pit from [246289] RKI Exploration and Production as the "JT Pit" under [7377] EOG Resources Inc. Attached you will find our C147 application renaming the facility along with all necessary supporting documents. Please do not hesitate to contact us with any questions or concerns.

Sincerely,

Patricia Donald

Patricia Donald



















District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 248323

COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 248323
	Action Type: [C-147] Water Recycle Long (C-147L)

COMMENTS

Created By	Comment	Comment Date
vvenegas	The form C-147 change of operator application for 2RF-109 JT PIT FACILITY ID [fMLB1722856120] is approved. • [7377] EOG RESOURCES INC acknowledges and must comply with the terms and conditions of the permit to own and operate 2RF-109 JT PIT FACILITY ID [fMLB1722856120]. • [7377] EOG RESOURCES INC shall operate, maintain, close, and reclaim the 2RF-109 JT PIT FACILITY ID [fMLB1722856120] in compliance with 19.15.34 NMAC. • [289068] SELECT ENERGY SERVICES, LLC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field waste 2RF-109 JT PIT FACILITY ID [fMLB1722856120]. • 2RF-109 JT PIT FACILITY ID [fMLB1722856120] permit expired on 7/27/2022. Please submit the annual extension request for this permit.	8/21/2023

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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 248323

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 248323
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