C-147 REGISTRATION PACKAGE
ACE STERN VEGAS
SECTION 21, T22S, R28E
EDDY COUNTY, NEW MEXICO

PREPARED FOR

Matador RESOURCES COMPANY

PREPARED BY

ENVIROTECH
ENGINEERING & CONSULTING, INC.

TYLER JOE WILLIAMS
NEW MEXICO
26432
PROFESSIONAL ENGINEER
6/12/2022

JUNE 2022

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: [X] Recycling Facility [X] Recycling Containment*

Type of action: [X] Permit [X] 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: Matador Production Company (For multiple operators attach page with information) OGRID #: 228937
Address: One Lincoln Centre 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240
Facility or well name (include API# if associated with a well): Ace Stern Vegas (124H)
OCD Permit Number: _____ (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr SW 1/4 of SW 1/4 Section 21 Township 22S Range 28E County: Eddy
Surface Owner: [ ] Federal [ ] State [X] Private [ ] Tribal Trust or Indian Allotment

2.
[ ] **Recycling Facility:**
Location of recycling facility (if applicable): Latitude 32.3741935 Longitude -104.1001544 NAD83
Proposed Use: [ ] Drilling* [X] 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.***
[X] Fluid Storage
[ ] Above ground tanks [X] 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):** [X] Recycling Facility Closure Completion Date: April 6th 2022

3.
[ ] **Recycling Containment:** North tank
[ ] Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 32.3741935 Longitude -104.1001544 NAD83
[ ] For multiple or additional recycling containments, attach design and location information of each containment
[X] Lined [ ] Liner type: Thickness _____ mil [ ] LLDPE [ ] HDPE [ ] PVC [X] Other Fuel Grade TPU Bladder
[ ] String-Reinforced
Liner Seams: [ ] Welded [X] Factory [ ] Other _____ Volume: 10,000 bbl Dimensions: L 48.9 x W 48.9 x D 32
[X] Recycling Containment Closure Completion Date: April 6th 2022

4.
Bonding:

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

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

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

5.
Fencing:

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

☐ Alternate. Please specify_____

6.
Signs:

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

☐ Signed in compliance with 19.15.16.8 NMAC

7.
Variances:

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

Check the below box only if a variance is requested:

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

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

8.
Siting Criteria for Recycling Containment

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

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

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

- ☒ 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): Cliff Humphreys Title: Engineer
Signature: Date: July 11, 2022
e-mail address: chumphreys@matadorresources.com Telephone: 972-371-5288

11.
OCD Representative Signature: Victoria Venegas **Approval Date:** 09/26/2022
Title: Environmental Sepcialist **OCD Permit Number:** 2RF-182

- ☒ OCD Conditions
- ☐ Additional OCD Conditions on Attachment

Conditions of Approval
This application has been accepted for the NMOCD records. On Friday, September 16, 2022 1:34 PM MATADOR PRODUCTION COMPANY [228937] sent the following email: "Mr. Tremaine had asked that we go ahead and submit a C147 Long for this site although already removed, so that OCD could correctly identify the facility and its recycling data. We filed that C147 Long this afternoon. I wanted to send you a note to give you the context of the reason for the filing although the facility is already removed."
Added on 9/26/2022 by vvenegas

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Figures:

Appendices:

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1.0 Introduction

Matador Resources is proposing to construct a recycle facility, Ace Stern Vegas, to located in Section 21, Township 22 South, Range 28 East in Eddy County, New Mexico, an aerial photographic site map is included herein as *Figure 1*. This study was performed on the proposed location for the proposed pit to evaluate the site suitability and impact (if any) of area topography, geology, ground- and surface water in the surrounding area.

2.0 Topography

According to the United States Geological Survey (USGS) Topographic Map obtained from the TopoQuest online database, the subject site is located on the Loving, USGS 7.5-Minute Series Topographic Map, 2003. The general topography of the majority of the site is gently sloping with an approximate elevation of 3,070-ft. above mean sea level (AMSL). Based on the topography of the site, surface runoff would flow southwest, towards the Pecos River.

The Pecos River is located approximately 1.0-mi. southwest of the proposed site. No surface water is located on the site based on the topographic map and aerial photography review. A reproduction of the Loving, USGS 7.5-Minute Series Topographic Map of the proposed site is included herein as *Figure 2*.

3.0 Hydrology

3.1 Distance to Surface Water. Based upon the review of the Loving, USGS 7.5-Minute Series Topographic Map, *Figure 2*, there is no continuously flowing surface water located on the proposed facility. The nearest surface water source is the Pecos River located approximately 1.0-mi. to the southwest.

3.2 Aquifers. Based upon information reviewed from the Bureau of Land Management (BLM) Carlsbad Field Office, the proposed facility is not located within a mapped major aquifer system. The proposed facility is located within an alluvial aquifer system. Available groundwater within the area of the proposed facility is noted to be within an alluvial groundwater basin, by the New Mexico Office of the State Engineer (OSE). The alluvial groundwater basin contains two major water-bearing units including shallower alluvial aquifer systems and a deeper "artesian" carbonate system. A reproduction of the New Mexico Aquifers is included herein as *Figure 3.2*.

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3.3 Distance to Groundwater Wells. Banks Environmental Data (Banks) was contracted to search a 1-mi. radius surrounding the proposed facility location. The search of New Mexico Office of State Engineer (OSE) records identified five (5) water wells. The nearest well to the proposed facility, OSE POD id C-01819-M, is located approximately 0.6-mi. to the west-southwest of the proposed facility. This water well was drilled as an exploration well by the City of Carlsbad, New Mexico; no drilling data was reported for the well.

Documentation of the OSE database search of the above listed sections is contained herein as *Appendix A*. A map showing the location of OSE groundwater wells relative to the site location is presented in *Figure 3.3*.

The New Mexico Oil and Gas Division (NMOGD) requires that groundwater (freshwater as defined by NMOGD rules) at the location be greater than 50-ft. below the containment bottom. Figure 3.3 demonstrates the following to meet these criteria:

1. The location of the proposed containment shown on an aerial photograph with surface elevation (taken from the United States Geological Survey (USGS) Loving, 7.5 Minute Series Topographic Map, *Figure 2*).
2. Location of area water wells (as plotted in the OSE WATERS database). It should be noted, OSE wells can be mis-located as older wells are plotted in the center of the quarter, quarter, quarter section, township, and range.
3. The total depth of the groundwater well closest to the site and depth to water is plotted on the map.

The OSE database contained no records for wells located in the section containing the proposed facility area or in surrounding sections. One well, located approximately 1.3-mi. from the proposed facility is located 1.3-mi. and was drilled to a depth of 166-ft. below ground surface (bgs). No wells drilled within the proposed facility have depth to groundwater recorded.

3.4 Distance to Municipal Boundaries and Freshwater Fields. *Figure 3.4* demonstrates that the proposed facility is municipal boundaries or within a defined municipal freshwater field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3. *Figure 3.4* illustrates the following:

1. The closest municipality to the site is loving, New Mexico located approximately 6-mi. south of the proposed facility location. In addition, the municipalities of Carlsbad, New Mexico is located 8-mi. northwest, and Malaga, New Mexico is located approximately 10.5-mi. south of the proposed site.
2. The closest municipal well field is located approximately 15-mi. west-southwest of the proposed facility location (City of Carlsbad Sheep's Draw Well Field) serving the community of Carlsbad, New Mexico.

3.5 Distance to Non-Public Water Supply. The site is not located horizontally within 500-ft. of a private, domestic fresh water well or spring that less than five (5) households use for domestic or stock watering purposes. In addition, the site is not located within 1,000-ft. of any other freshwater well or spring, as documented at the time of this application. *Figure 3.3* illustrates the following:

1. *Figure 3.3* shows the location of area water wells, active or plugged, relative to the proposed site location.

2. There are no known domestic water wells located within 1,000-ft. of the proposed site location.

3. No springs were identified within the mapping area (refer to *Figure 2*).

4.0 Geology

A geological map for the proposed facility was obtained from the New Mexico Bureau of Land Management, Carlsbad Field Office and was used to the review the geological setting. Based on the review of the geologic map, the containment location lies within the Holocene eolian sand and the Pleistocene alluvial sand and gravel piedmont. The Holocene eolian sand contains very fine, well sorted, subangular to subrounded, quartz sand with an approximate thickness less than 10-meters. The Pleistocene alluvial sand and gravel piedmont contains pink to red sand and gray to white gravel, poorly sorted, angular to subrounded shape. The sand and gravel are composed of quartz and comes from limestone, dolomite, and chert.

Figure 4 is a reproduction of the Loving, 7.5-Minute Quadrangle geological map. *Figure 4* illustrates the following:

1. Location of the proposed facility
2. Geological setting of the proposed facility

5.0 Distance to High or Critical Karst Areas (Unstable Areas)

The Bureau of Land Management Carlsbad Field Office Critical Karst Resource Areas map was reviewed for the proposed facility. The proposed facility is located within a karst potential area that has a 35%-65%. A reproduction of the Critical Karst Resource Areas map is herein included as *Figure 5*.

6.0 Distance to Subsurface Mines

According to the New Mexico Mining and Minerals Division the nearest mine to the proposed facility are surface salt mines. Additionally, several underground potash mines are within the vicinity of the proposed facility. *Figure 6* illustrates the following:

1. The nearest registered mine to the containment location is two (2) salt surface mine located approximately 5-mi. to the southeast.
2. An underground potash shaft mine located approximately 10-mi. to the northeast.
3. A salt surface mine is located approximately 12-mi. to the southeast.
4. An underground potash shaft mine is located approximately 13-mi. to the east.
5. Two (2) underground potash shaft mines are located approximately 13-mi. to the northeast

7.0 Distance to 100-Year Floodplain

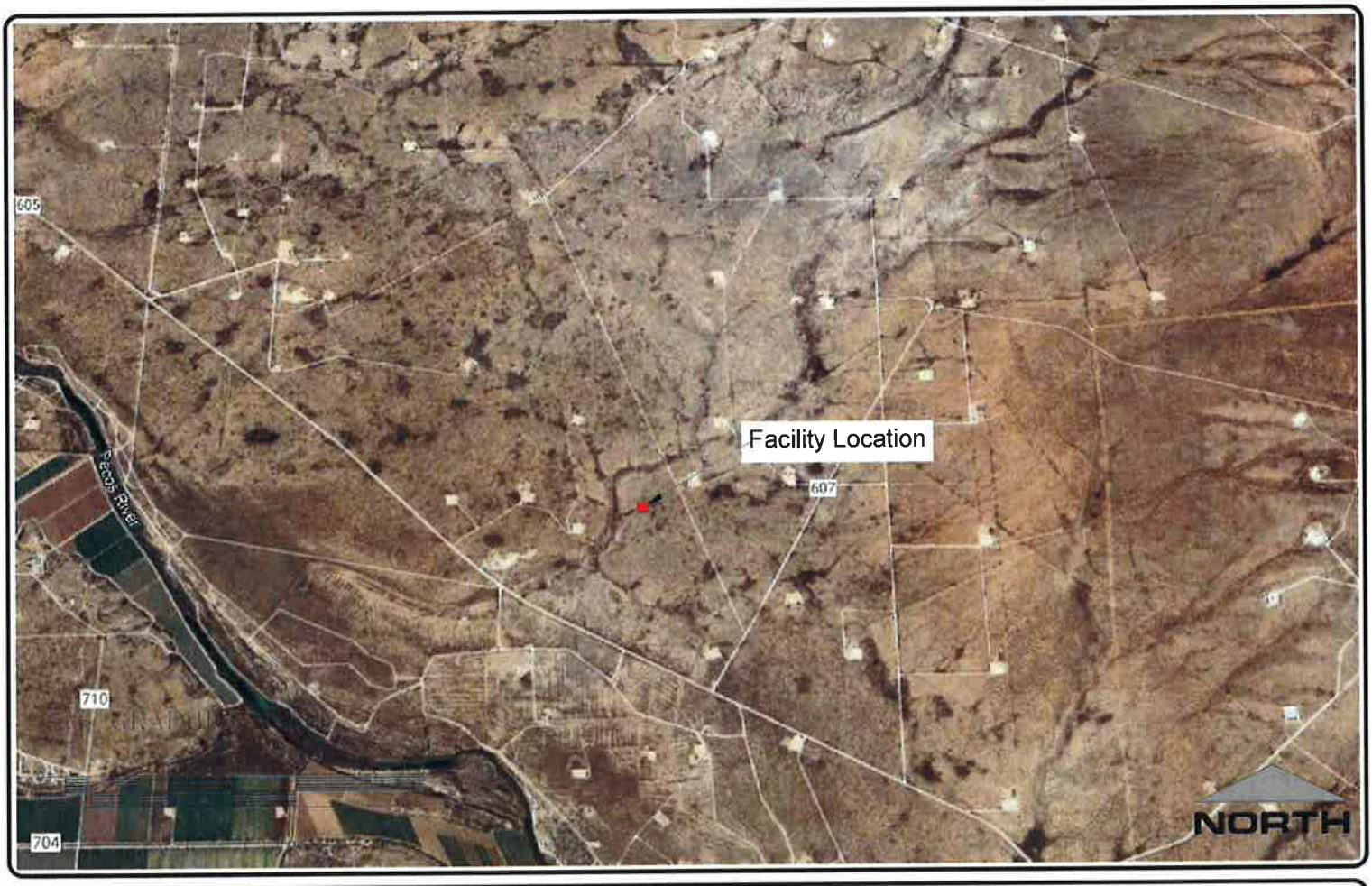
The Federal Emergency Management Agency (FEMA) Flood Insurance Maps were reviewed for the location of the proposed site. The proposed site is located on FEMA map panel number 35015C1100D, which was printed effective 6/4/2010. *Figure 7* demonstrates the area of the proposed site is not located within a 100-year floodplain.

8.0 Distance to Wetlands

The United States Fish and Wildlife National Wetlands Inventory Maps were reviewed for the area of the proposed facility. *Figure 8* illustrates the proposed facility is not located within an area of a potential wetland. The nearest potential wetland is located approximately 0.68-mi. away from the site. The potential wetland closest to the site is labeled as a "freshwater emergent wetland" with a wetland code "PEM1A." The National Wetlands Inventory Maps do not show a potential wetland located within 50-ft. of the proposed facility location.

9.0 Distance to Permanent Residence or Structures

The United States Geological Survey (USGS) Loving New Mexico, 7.5-Minute Series Topographic map, *Figure 2*, demonstrates that the proposed facility is not within a 1,000-ft. of occupied permanent residence, schools, hospitals, institutions, churches, or other permanent structures in existence at the time of initial application. The Site Map, *Figure 1*, of the proposed facility location shows the nearest structure to the proposed facility location is an oil field tank battery.



Matador

FIGURE - 1

Site Map

Ace Stern Vegas

Project I.D. 222166

Section 21, Township 22 South, Range 24 West

Eddy County, NM

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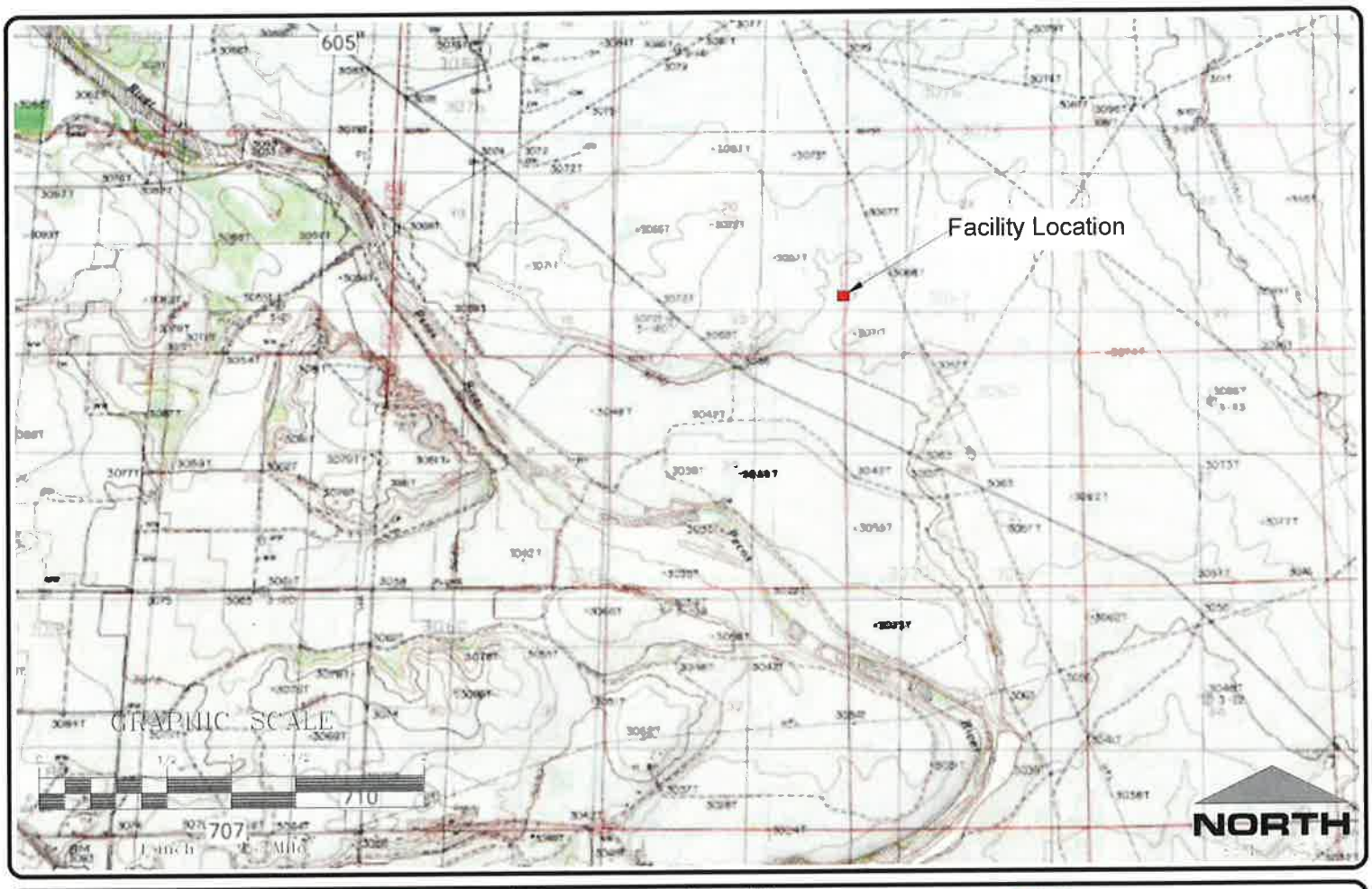

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Topography Map

Ace Stern Vegas

Project No. 22766

Section 21, Township 22 South, Range 28 East

Eddy County, NM

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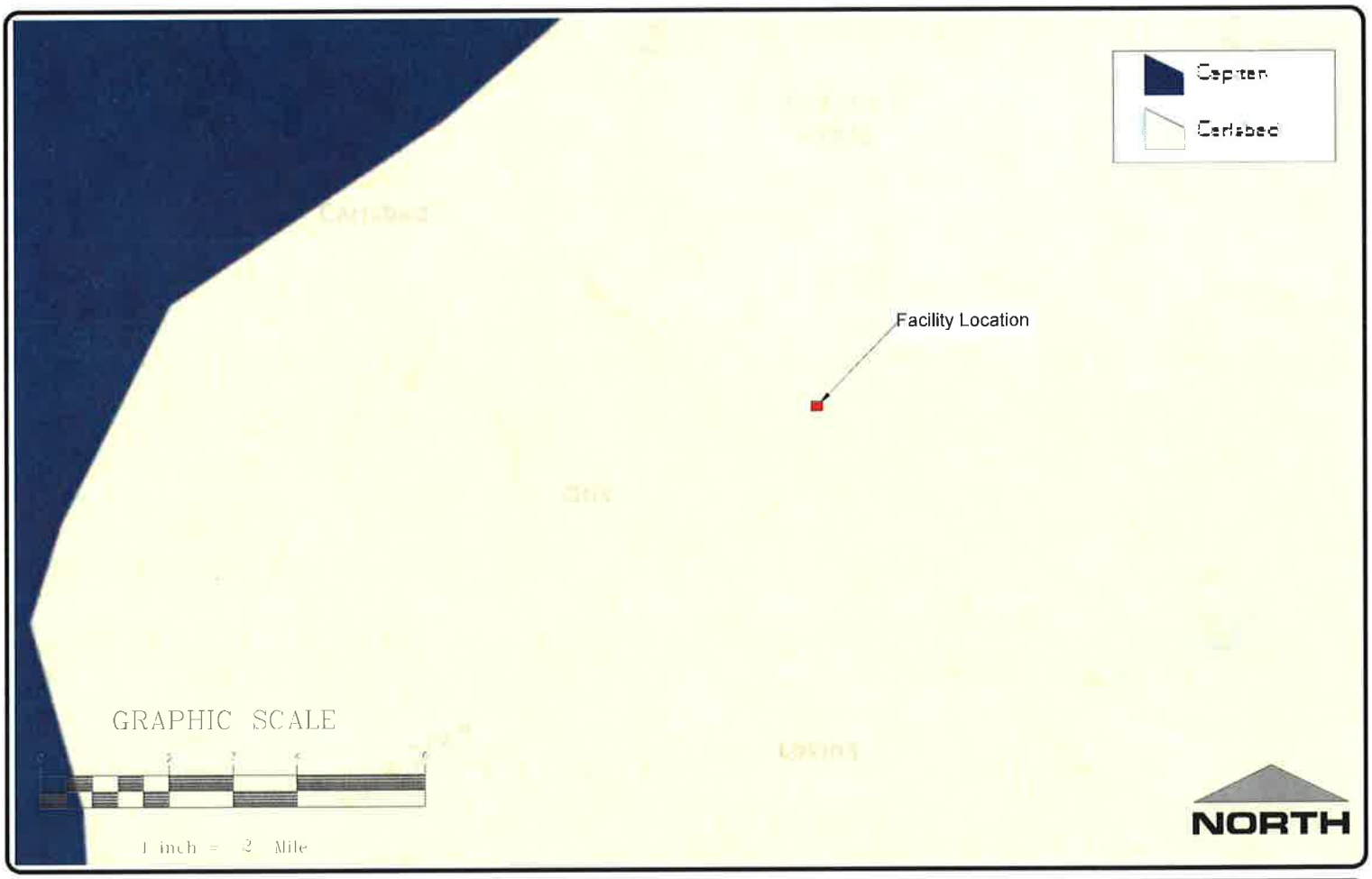
FIGURE - 2



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Aquifers Map

Ace Stern Vegas

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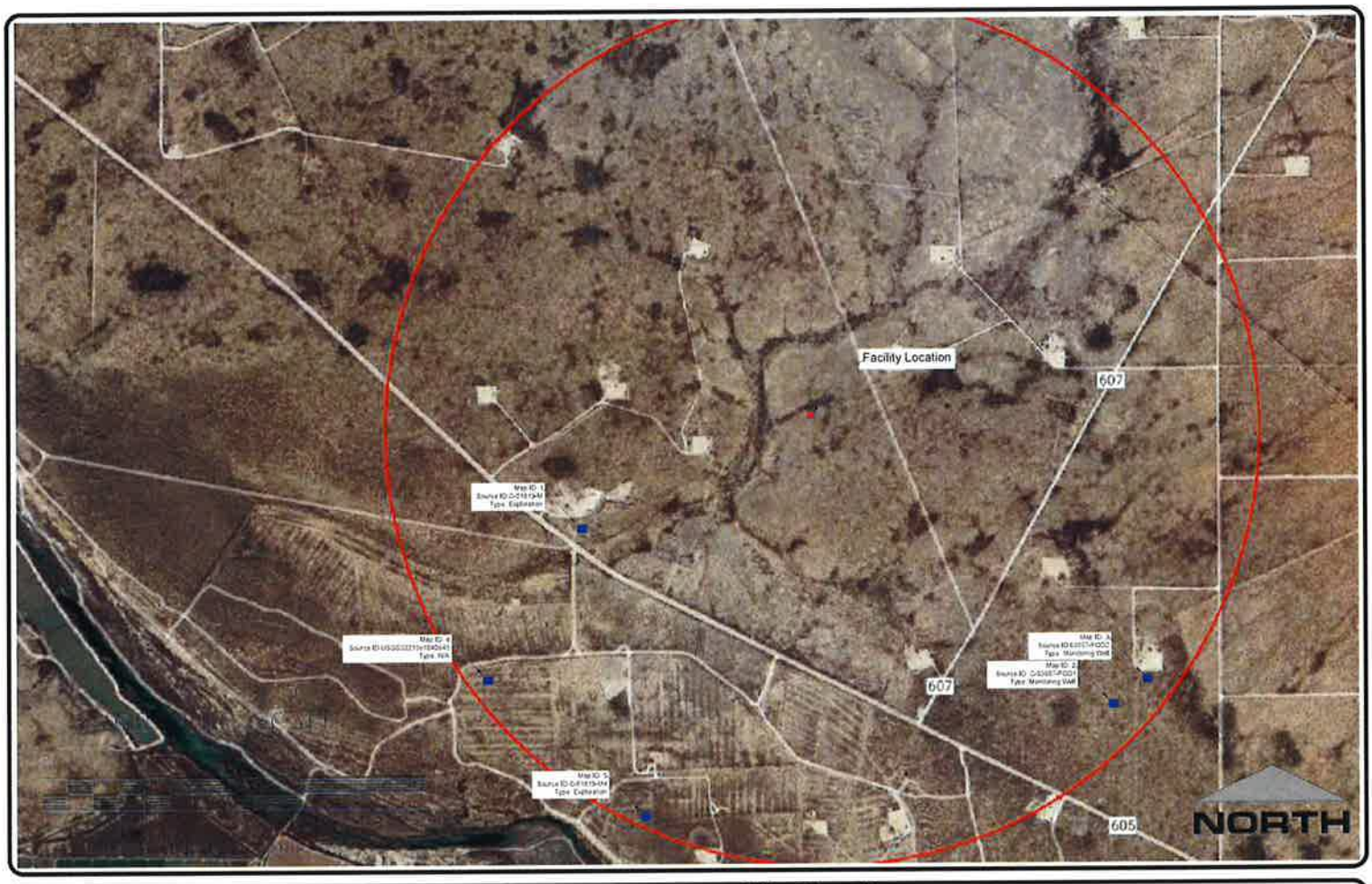
FIGURE - 3.2



Groundwater Wells Map

Ace Stern Vegas

Matador

FIGURE - 3.2

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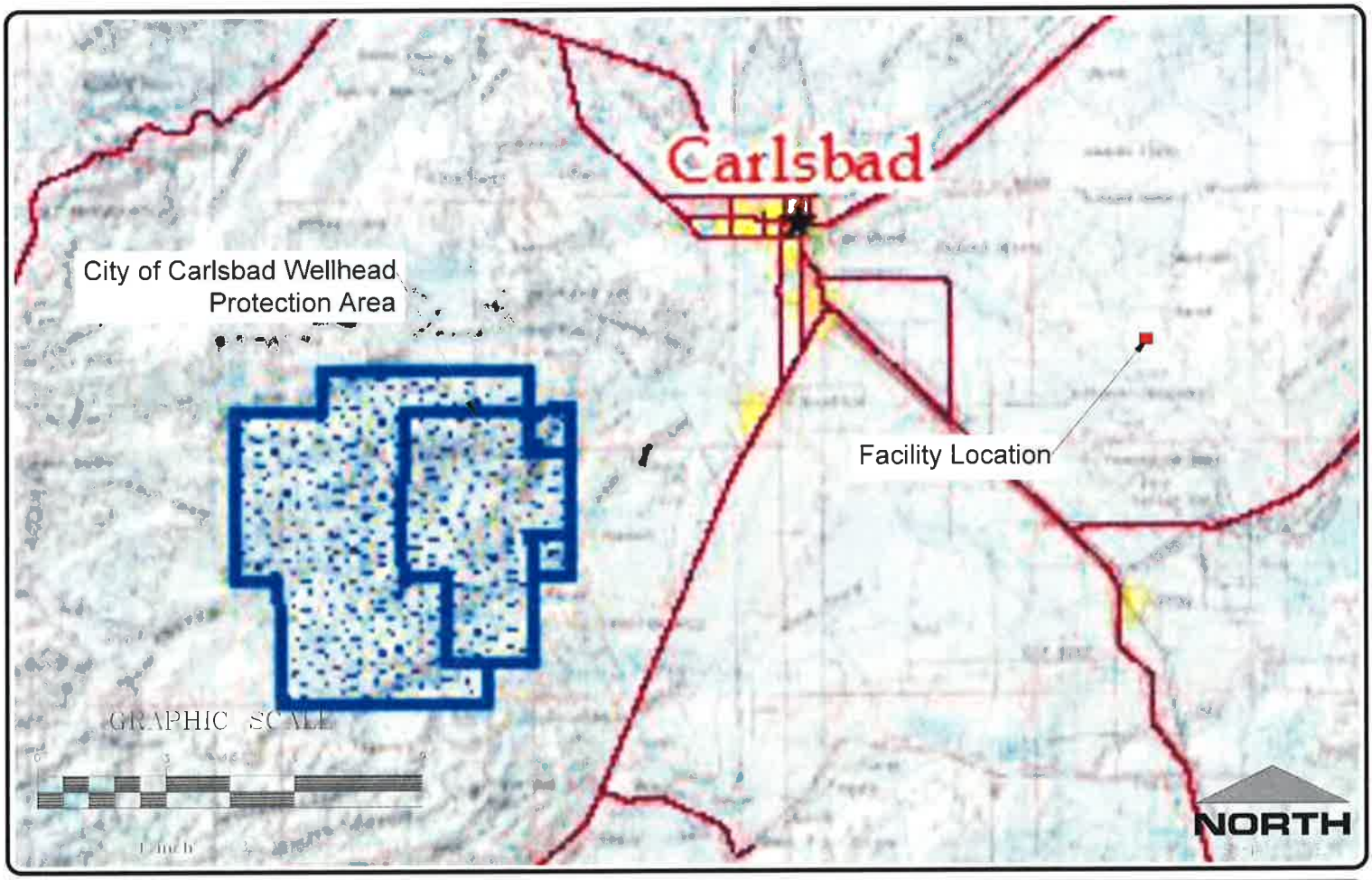

Distance from Freshwater Fields

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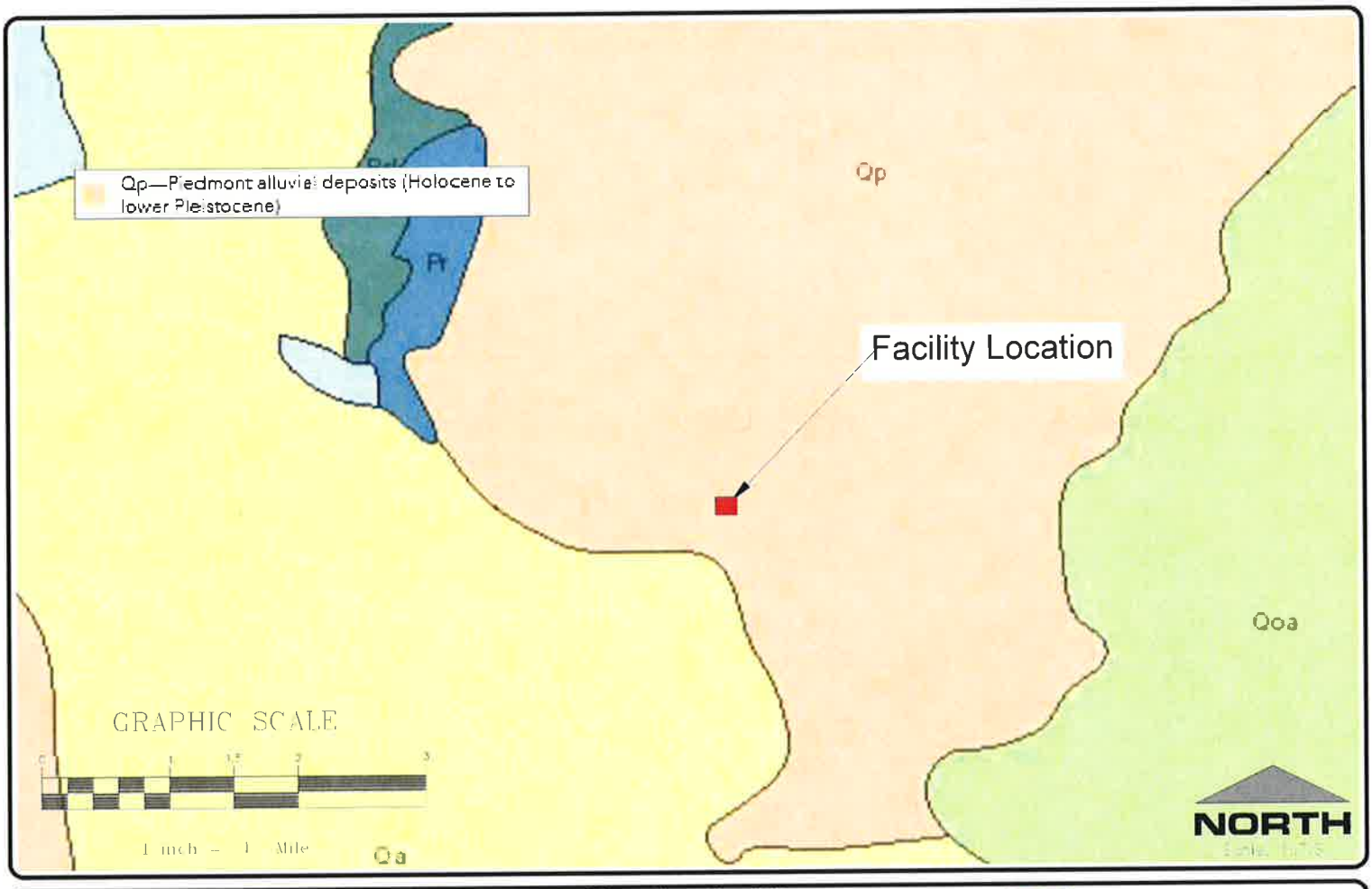
FIGURE - 3.4



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Geologic Map

Ace Stem Vegas

FIGURE - 4

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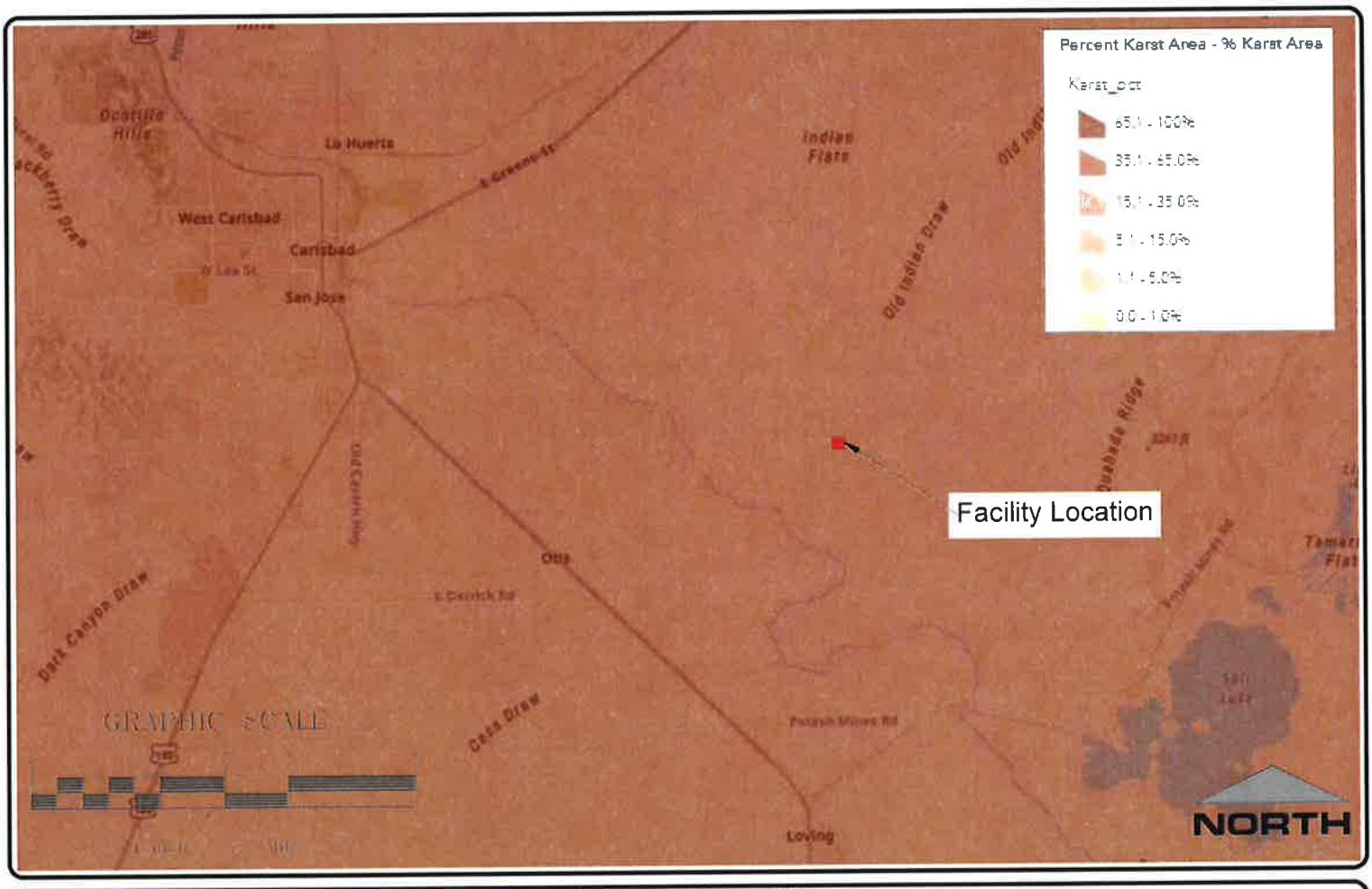

Karst Location Map

Ace Stern Vegas

Project No. 021706

Section 21, Township 22 South, Range 28 East

Eddy County, NM

FIGURE - 5

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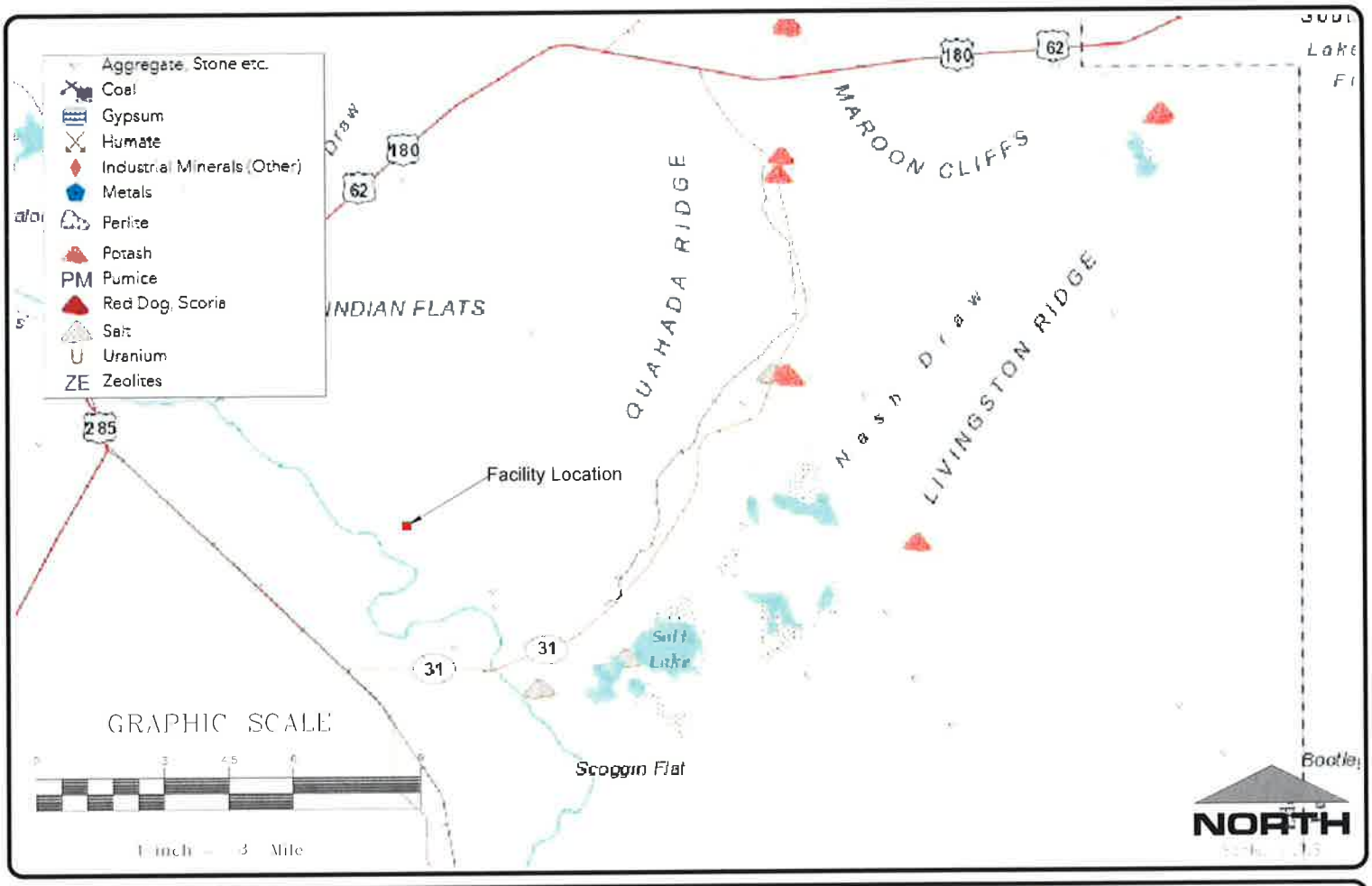

Distance to Mines

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FIGURE - 6

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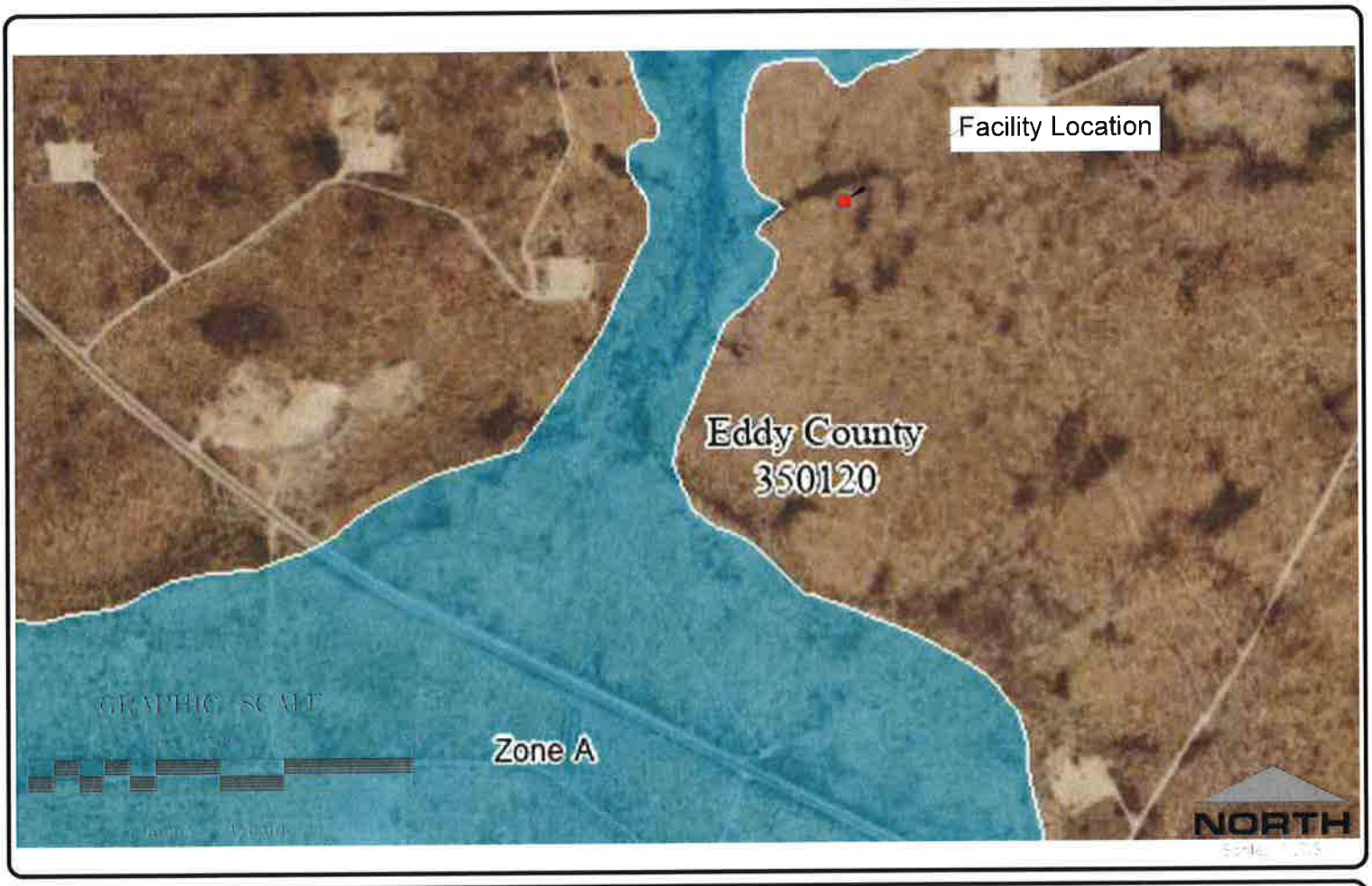

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FEMA Floodplain Map

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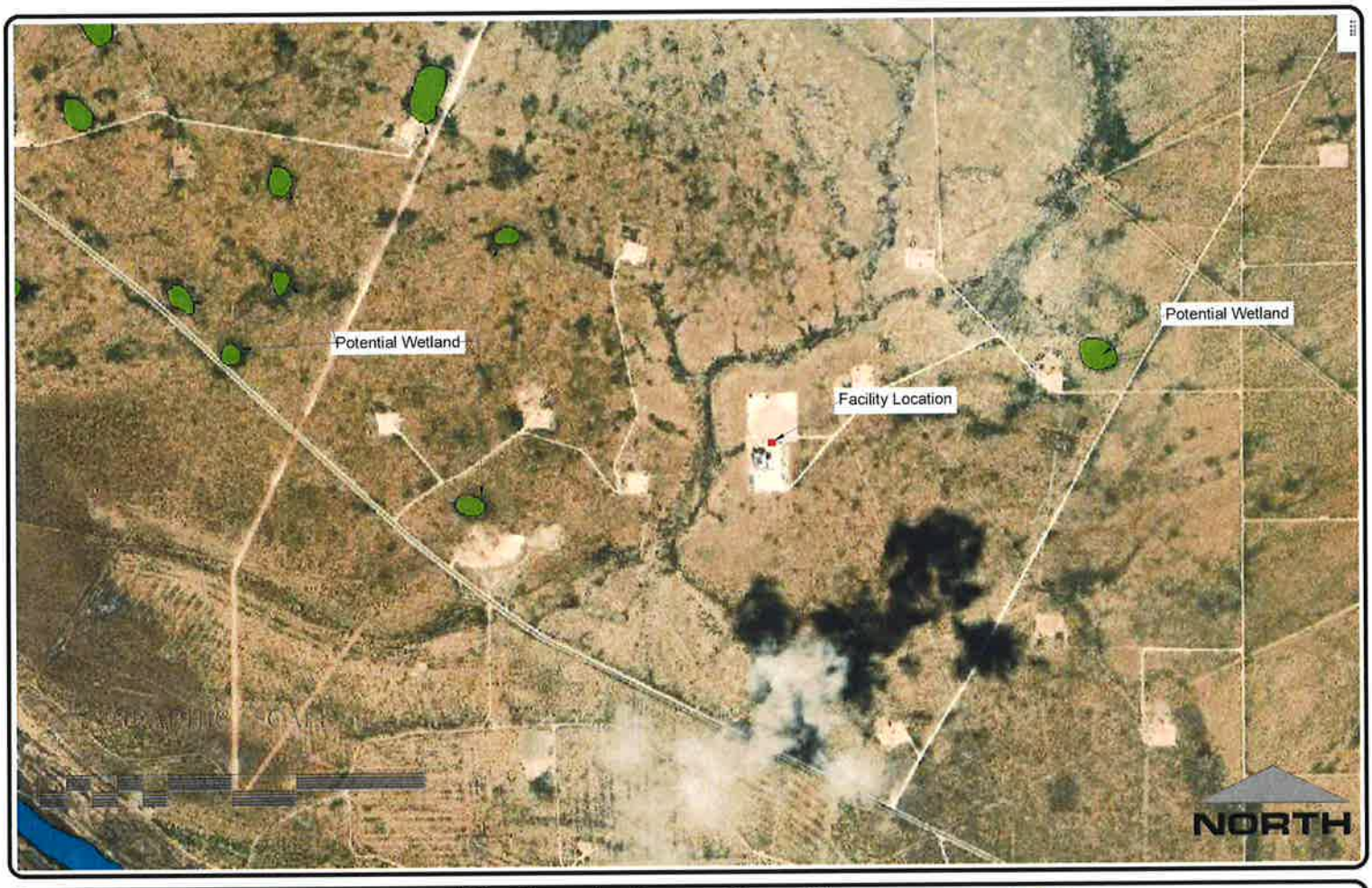
FIGURE - 7



Wetlands Location Map

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FIGURE - 8

APPENDIX A

DEPTH TO GROUNDWATER VERIFICATION

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Drilling Report

Matador Resources Contracted Ready Drill LLC to conduct a boring to verify the depth to groundwater. On October 29, 2022 a hole was drilled to 120-ft and was determined to be dry. Red dirt and sandstone was encountered throughout the boring. Attached is the Drilling report from Ready Drill LLC.

Reaan DRILL LLC

M1 8320

DRILLING REPORT

BILL TO

Drill Rig
Company
Lease Name
City
County Eddy
State NM

Rig # 19
Contractor #

CEMENT

Yards: Type: Furnished by:

Pumped:	Yes	No	Furnished by: RD Wade	# trucks
Mud Truck:	Yes	No	Furnished by:	# trucks
Water Truck:	Yes	No	Furnished by:	# trucks 1
VacTruck:	Yes	No	Furnished by:	# trucks 1

	Depth	X	Diameter
Conductor			
Hole	120	X	30 XN
Pipe	120	X	20
Rat			
Hole		X	
Casing		X	
Mouse			
Hole		X	
Casing		X	
Cellar			
Tin Horn		X	

Footage 240'

1 Section

Drilling Conditions:
Red Dirt, Sandstone
DRY HOLE

Driller Chad Shull
Pusher
Helper Pedro Becerra
Helper

ITEM	DATE	TIME
DEPART SHOP	10-29	5pm
ARRIVED AT RIG		
STARTED JOB	10-29	6am
FINISHED JOB	10-29	12am
DEPARTED RIG		
ARRIVED AT SHOP		
TOTAL HOURS	10-29	19 hrs

Directions

HOLE COVERS: Mat # M/R# OLD NEW NONE

APPENDIX B

ENGINEERING DRAWINGS

ENVIROTECH 2500 North Eleventh Street • PO Box 6029 • Enid, Oklahoma 73701 • (580) 234-8780 • Fax (580) 237-4302

MINION 10,000 BBL TANK

VOLUME	BBL	m3
	10,000	1,590
GROUND PRESSURE WITHOUT MATS	kpa	psi
VOLUME	305	44
GROUND MAX PRESSURE	91	14
NO. OF PANELS	13	
DIMENSION	FT	MM
HEIGHT OF TANK	32	9,754
HEIGHT OF BULKHEAD	34	10,573
DIAMETER ID	48.9	14,910
SHIPPING DIMENSION	FT	MM
LENGTH OF SKID DURING TRANSPORT	36	10,976
HEIGHT OF SKID DURING TRANSPORT	8.5	2,577
WIDTH OF SKID DURING TRANSPORT	12.2	3,715
LENGTH OF TYPICAL SKID DURING TRANSPORT	36.9	11,236
HEIGHT OF TYPICAL SKID DURING TRANSPORT	5	1,539
WIDTH OF TYPICAL SKID DURING TRANSPORT	12.5	3,793
WEIGHTS	LBS	KG
TYPICAL PANEL x 12	5,250	2,381
BULKHEAD / SKID / GROUND MAT / BLADDER / MISC.	31,353	14,222
DRY WEIGHT	94,353	42,798
TOTAL WEIGHT WITH WATER	3,846,128	1,744,574
TYPICAL SHIP SKID	6,000	2,721
DETAILS OF PIPES & CONNECTIONS	INCHES	MM
INTERNAL FILL / HEATING RETURN LINE x 1	6	152
FILL LINE x 1	6	152
FILL LINE x 2	10	254
BOTTOM SUCTION LINE x 2	4	102
SUCTION LINE x 2	10	254
TEMPERATURE GAUGE	0.75	19
PRESSURE GAUGE	0.75	19
FREEZE PROTECTION LINE	1	25

thinktank products inc

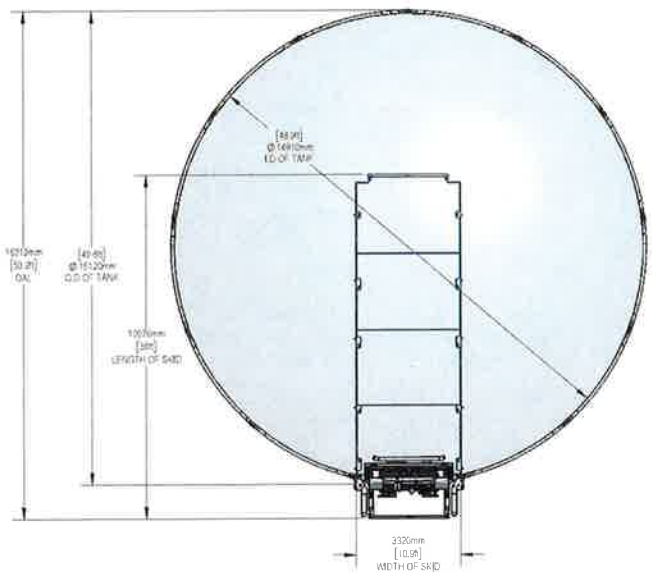
GENERAL ARRANGMENT DRAWINGS

DRN: CT | CHK: | APP:

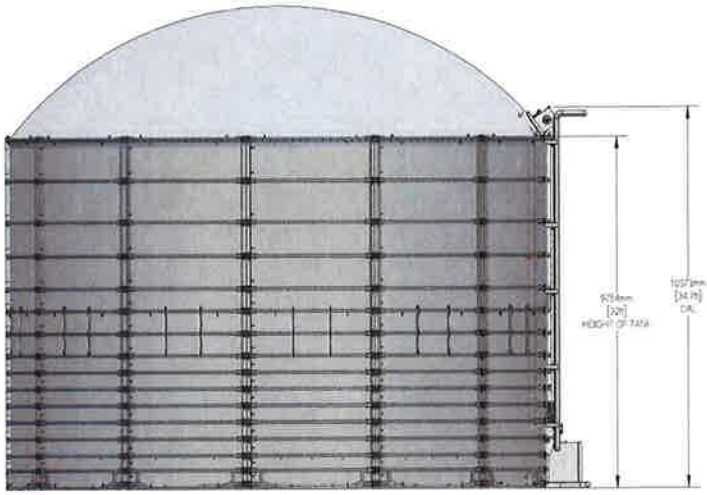
DATE: MAY 15'19 | DATE: | DATE:

PROJECTION | UNITS: MILLIMETERS

SHEET: 1 OF 10 | SIZE: MINION 10,000 BBL | REV: 2



PLAN VIEW
SCALE: 1:115



LEFT VIEW
SCALE: 1:100

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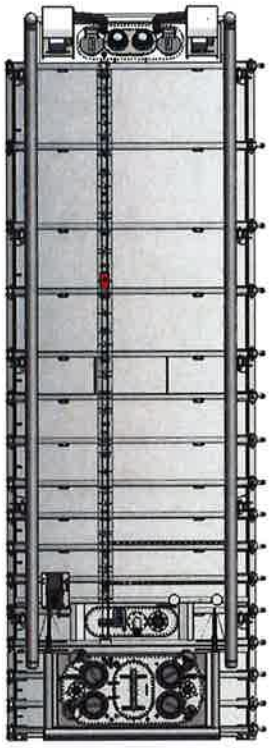
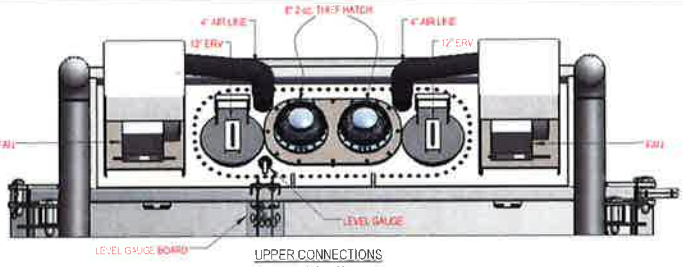
GENERAL ARRANGMENT DRAWINGS

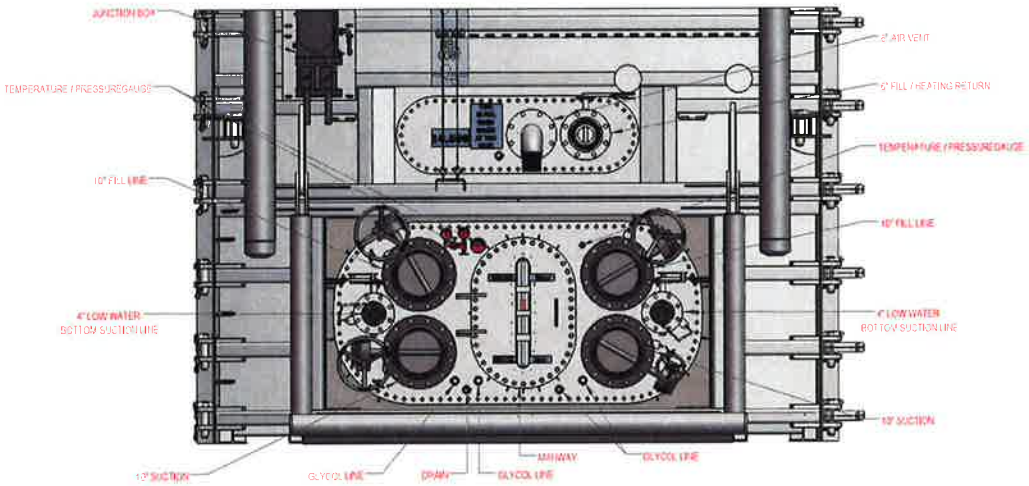
DRN: CT	CHK:	APP:	
DATE: MAY 13/19	DATE:	DATE:	
PROJECTION	UNITS MILLIMETERS	SHEET: 2 OF 10	DWG: MINION 10,000 BBL	REV: 2



FRONT VIEW OF BULKHEAD
SCALE: 1:52



UPPER CONNECTIONS
SCALE: 1:20



MIDDLE AND LOWER CONNECTIONS
SCALE: 1:20

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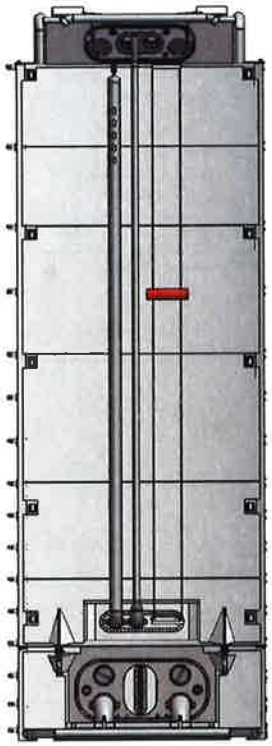
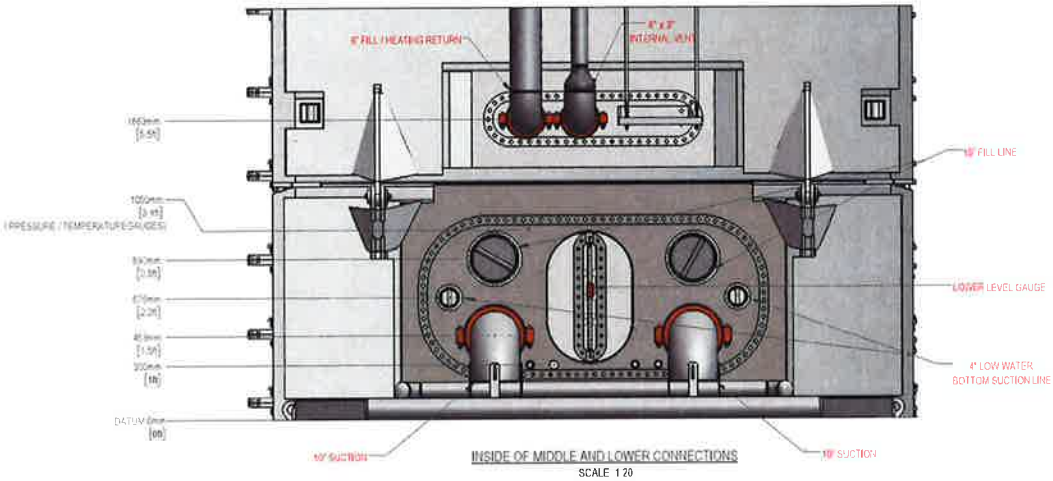
GENERAL ARRANGMENT DRAWINGS

DWN: CT	CHK:	APP:	
DATE: MAY 13/13	DATE:	DATE:	
PROJECTION:	UNITS: MILLIMETERS	SHEET: 3 OF 10	DWG: MINION 10,000 BBL	REV: 2



BACK VIEW OF BULKHEAD
SCALE 1:52

INSIDE OF UPPER CONNECTIONS
SCALE 1:20



INSIDE OF MIDDLE AND LOWER CONNECTIONS
SCALE 1:20

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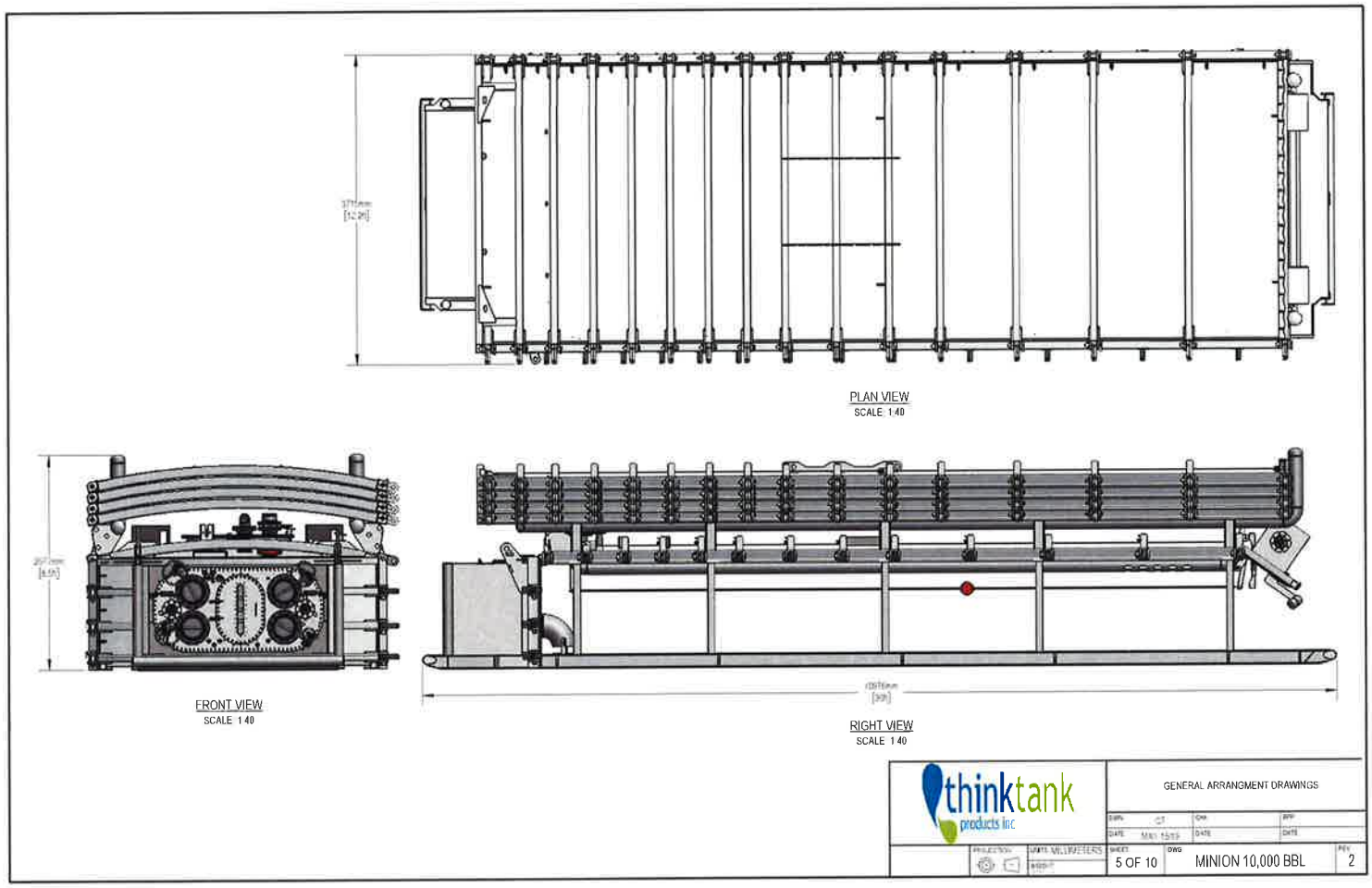
GENERAL ARRANGMENT DRAWINGS

DRN: CT	CHK:	APP:	
DATE: MAY 15/13	DATE:	DATE:	
UNITS: MILLIMETERS	SHEET: 4 OF 10	DWG: MINION 10,000 BBL	REV: 2



PLAN VIEW
SCALE 1:40

FRONT VIEW
SCALE 1:40

RIGHT VIEW
SCALE 1:40

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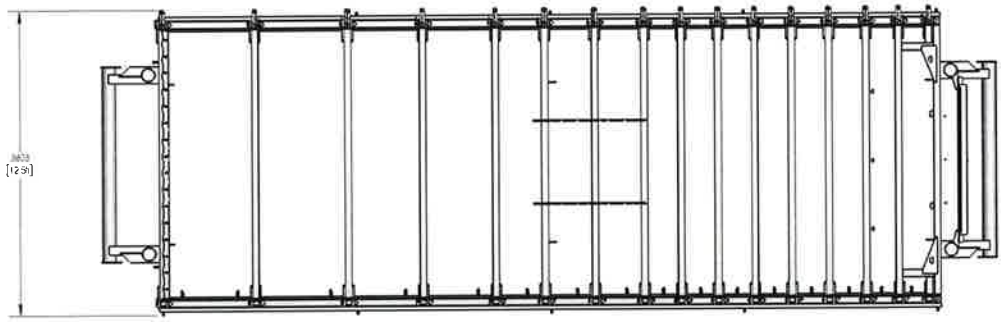
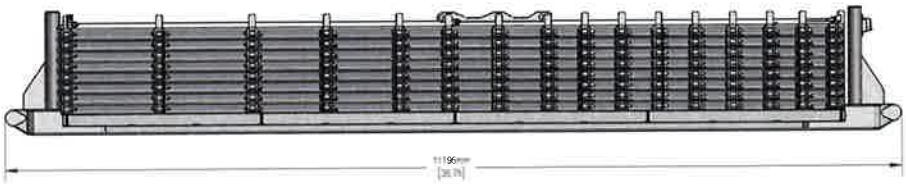
GENERAL ARRANGMENT DRAWINGS

DRN. CT	CHK.	APP.	
DATE MAY 16/22	DATE	DATE	
UNITS: MILLIMETERS	SHEET 5 OF 10	DWG MINION 10,000 BBL	REV. 2



PLAN VIEW
SCALE 1:45

FRONT VIEW
SCALE 1:45



RIGHT VIEW
SCALE 1:45

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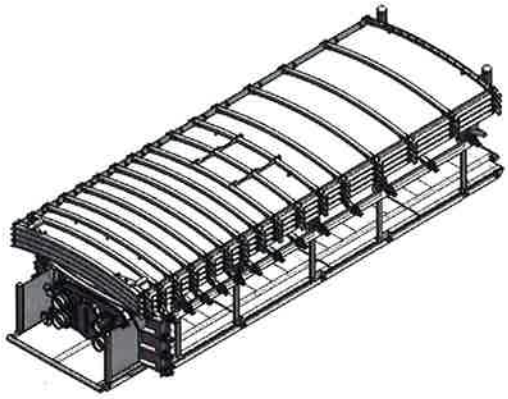
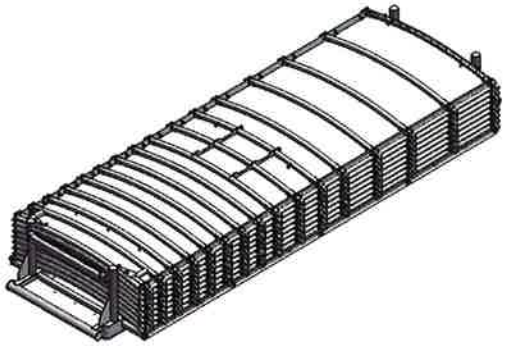
GENERAL ARRANGMENT DRAWINGS

DWN: CT	CHK:	APP:	
DATE: MAY 15/19	DATE:	DATE:	
PROJECTION:	UNITS: MILLIMETERS	SHEET: 6 OF 10	DWG: MINION 10,000 BBL
	ATEX:		REV: 2



ISOMETRIC VIEW
BULKHEAD SKID WITH 4 TYPICAL PANELS
SCALE 1:70

WEIGHTS	LBS	KG
BULKHEAD & SKID	25,253	11,455
TYPICALPANEL x 4	5,250	2,381
BLADDER	4,500	2,041
GROUND MAT	600	272
CHAIN & BOOMERS MISC.	1,000	454
TOTAL WEIGHT	52,353	23,747



ISOMETRIC VIEW
TYPICAL SHIP SKID WITH 8 PANELS
SCALE 1:70

WEIGHTS	LBS	KG
TYPICAL SHIP SKID	6,000	2,722
TYPICALPANEL x 8	5,250	2,381
CHAIN & BOOMERS MISC.	1,000	454
TOTAL WEIGHT	49,000	22,226

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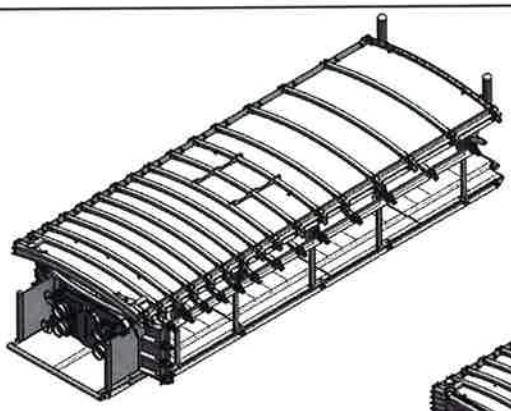
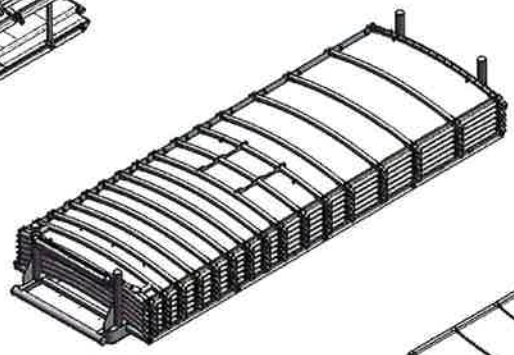
GENERAL ARRANGMENT DRAWINGS
SHIPPING DATA

SHEET	DWG	REV
7 OF 10	MINION 10,000 BBL	2



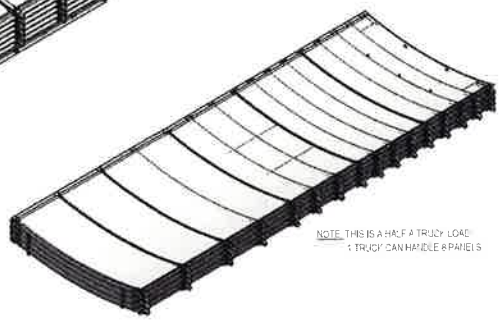
ISOMETRIC VIEW
BULKHEAD SKID WITH 2 TYPICAL PANELS
SCALE 1:70

WEIGHTS	LBS	KG
BULKHEAD & SKID	25,253	11,455
TYPICALPANEL x 2	5,250	2,381
BLADDER	4,500	2,041
GROUND MAT	600	272
CHAIN & BOOMERS MISC.	1,000	454
TOTAL WEIGHT	41,853	18,984



ISOMETRIC VIEW
TYPICAL SHIP SKID WITH 6 PANELS
SCALE 1:70

WEIGHTS	LBS	KG
TYPICAL SHIP SKID	6,000	2,722
TYPICALPANEL x 6	5,250	2,381
CHAIN & BOOMERS MISC.	1,000	454
TOTAL WEIGHT	38,500	17,463



NOTE: THIS IS A HALF A TRUCK LOAD
1 TRUCK CAN HANDLE 8 PANELS

ISOMETRIC VIEW
4 LOOSE TYPICAL PANELS
TO BE SHIPPED IN ONE TRUCK
SCALE 1:70

WEIGHTS	LBS	KG
TYPICALPANEL x 4	5,250	2,381
CHAIN & BOOMERS MISC.	1,000	454
TOTAL WEIGHT	22,000	9,979

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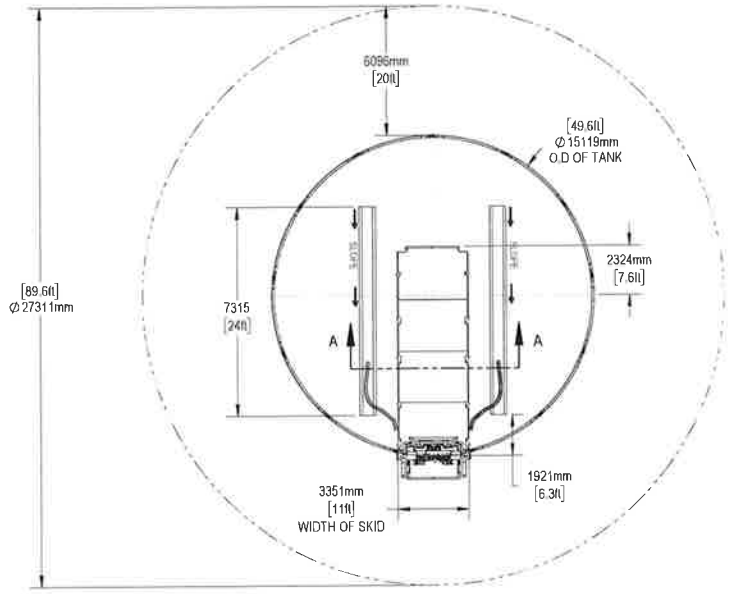
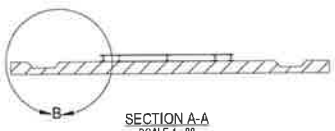
GENERAL ARRANGMENT DRAWINGS
SHIPPING DATA

DRN: ST | CHK: | APP:
DATE: MAY 15'19 | DATE: | DATE:

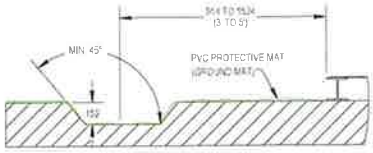
PROJECTION | UNITS: MILLIMETERS | SHEET: 8 OF 10 | SIZE: | MINION 10,000 BBL | REV: 2



PLAN VIEW
SCALE: 1:170



SECTION A-A
SCALE 1 : 90



DETAIL B
SCALE 1 : 25

NOTE: CLEARANCE MAY BE REDUCED BASED ON EQUIPMENT BEING USED.

Ground Work

1. Do not erect Minion Tank on false fill. Solid, level ground is essential for a safe and successful setup and operation. A slight slope from back to front is acceptable (6" over the tanks 67' diameter).
2. Prior to starting setup, ensure the Tank Installation area is level, smooth, and free of debris. Having the setup area as level as possible is very important as it will help to ensure an easy, issue-free setup and proper operation of the tank.
3. Identify and if possible, stay clear of all over head hazards including power lines and trees.
4. Maintain a minimum safe setback distance between tank and any obstacles that may inhibit a safe setup and operation of tank.
5. Install drainage troughs on tank base to position suction hoses in. Refer to applicable drawing for depth, width and length of drainage troughs.
6. Keep undulations within the tank base area to a minimum of 1".
7. For leases where extra protection is required due to sharp rocks, scoria, etc , you must use:
   - sand or sawdust over your tank base area (no more than 2" deep), or
   - lay out belting, ground mat or geotextile over the tank base area.
8. Place skid in correct location between drainage troughs being mindful of minimum safe distance identified in step 5.
9. Locating center point of tank, measure and mark tank circumference for correct placement of panels using ground paint. This is a critical step in the process as the assembled tank must be completely round to avoid creeping resulting in damage to bladder during initial fill. This step may be done in conjunction with ground work/trenches as long as the tank is spotted in its correct location.

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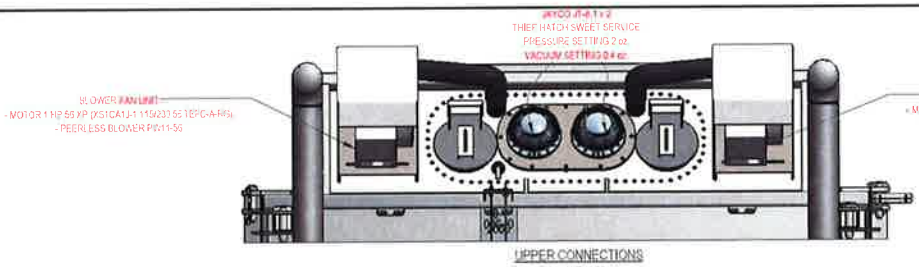
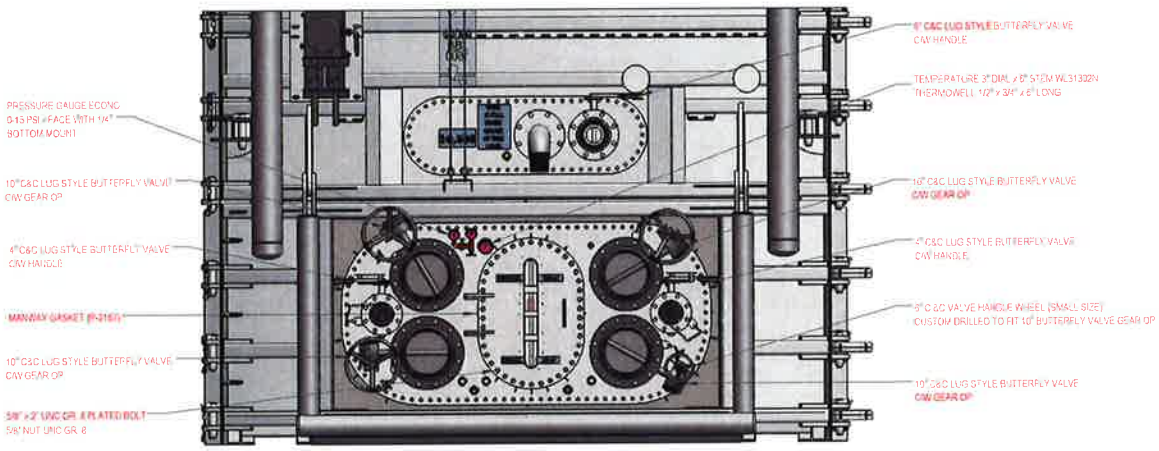
GENERAL ARRANGMENT DRAWINGS

DRN CT	CHK	APP	
DATE MAY 13/19	DATE	DATE	
PROJECTION	UNITS MILLIMETERS	SHEET 9 OF 10	DWG MINION 10,000 BBL	REV 2



UPPER CONNECTIONS
SCALE 1 20



MIDDLE AND LOWER CONNECTIONS
SCALE 1 20

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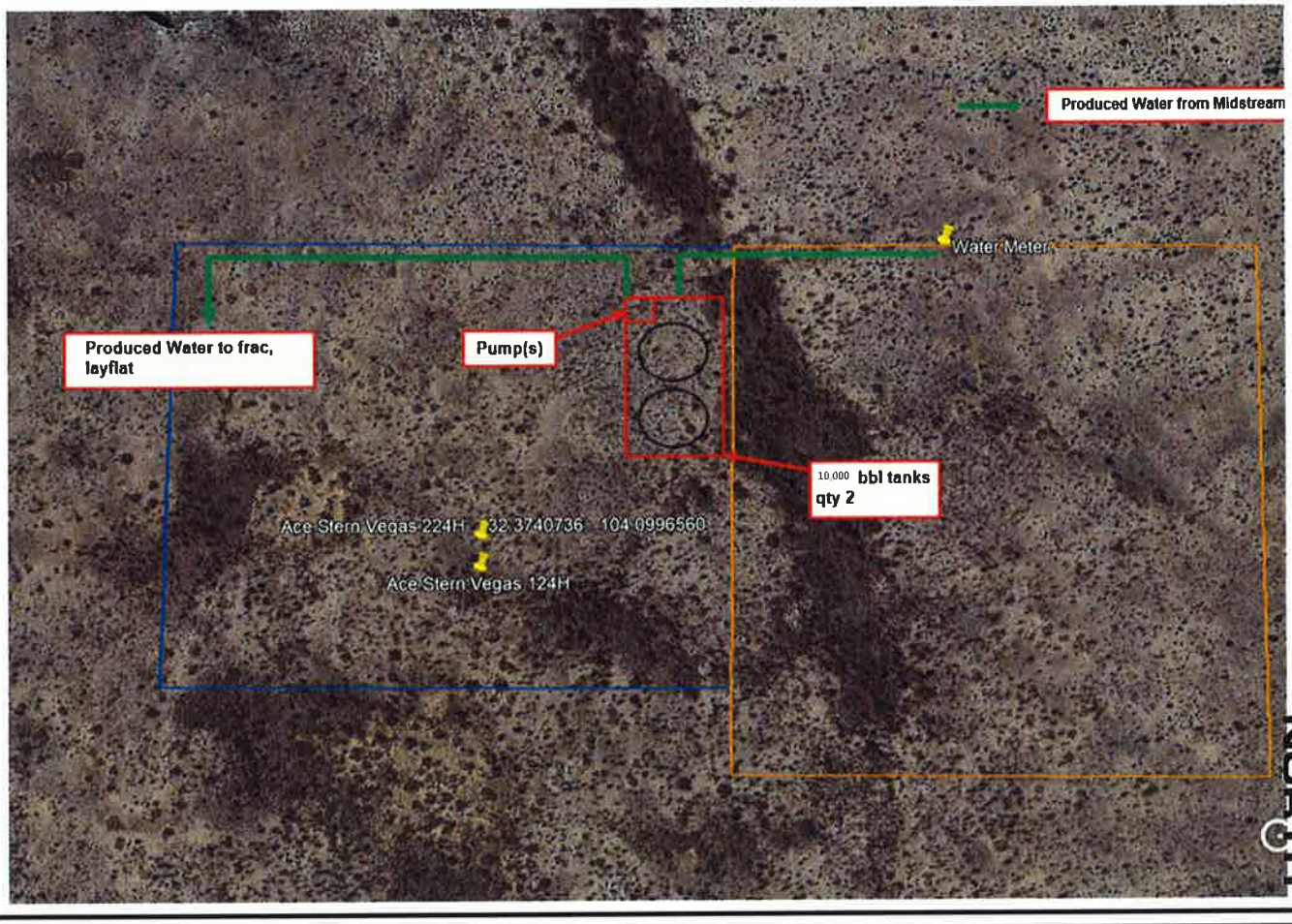
CONSUMABLE LIST

DRN: CT	CHK:	APP:	
DATE: MAY 15/15	DATE:	DATE:	
UNITS: MILLIMETERS	SHEET: 10 OF 10	DWG: MINION 10.000 BBL	REV: 2



Matador

Site Plan

Ace Stern Vegas

ENVIROTECH

7500 North 11th Street - Enid Oklahoma 73701
Phone (580) 234-3780 Fax (580) 237-4302
C.A. #960 - Expiration Date: 6-30-2022
www.envirotechconsulting.com

FIGURE - 1

APPENDIX C

DESIGN AND CONSTRUCTION PLAN

ENVIROTECH 2500 North Eleventh Street • PO Box 6029 • Enid, Oklahoma 73701 • (580) 234-8780 • Fax (580) 237-4302

DESIGN AND CONSTRUCTION PLAN

It should be noted that the recycling facility referenced in this report will consist of two Minion Tanks with a capacity of 10,000-bbls each. Produced Water will be delivered to the facility via pipeline to be stored in the Minion Tanks until pumped to customers via pipeline.

Envirotech, in conjunction with Matador Production Company, has designed the facility and environmental controls to closely mimic the rules for recycling containment to protect the environment and surface and subsurface waters.

Applicable mandates in Rule 34 for containments are underlined. This plan addresses construction of minion tanks with a fuel grade bladder containing the produced water. While not intended to fully comply with the containment rules in 19.15.34, the minion tanks were designed with the Recycling Containment rules as a guideline. *Appendix C* presents Engineering Design Plans of the Minion Tanks as well as a layout of the facility

STOCKPILE TOPSOIL

Where topsoil is present, prior to constructing containment, the operator will strip and stockpile the topsoil for use as the final cover or fill at the time of closure. The topsoil will be stockpiled adjacent to a perimeter fence surrounding the minion tanks.

SIGNAGE

In the event similar signage does not exist at the current facility entrance, or in the event an additional entrance is developed to access the recycling facility, the appropriate signage shall be installed. The design calls for an upright sign no less than 12-in by 24-in with lettering not less than two inches in height in a conspicuous place on the fence surrounding the containment. The sign is posted in a manner and location such that a person can easily read the legend. The sign will provide the following information:

1. The operator's name,
2. The location of the site by quarter-quarter or unit letter, section, township and range, and
3. Emergency telephone numbers.

FENCING

Envirotech understands the larger OWL landfill facility that surrounds the NDBL Recycle facility is currently fenced with a barb wire fence. In the event additional fencing is needed, the fencing shall include, at a minimum, a fence to enclose the recycling containment in a manner that deters unauthorized wildlife and human access. The design may be a 6-ft tall chain link and barbed wire fence around the containment to exclude wildlife (see detail on last page of engineering design). This fence provides greater wildlife (and human) deterrence than the minimum required barbed wire fence with four strands evenly spaced in the interval between one foot and four feet above ground level. The fence will be gated to provide access for maintenance and placement of pumps and other necessary equipment. As stated in the O&M plan, the operator will ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.

NETTING AND PROTECTION OF WILDLIFE

The Minion tank holding the produced water is fully contained. Produced water is stored within a bladder which does not let rain, debris or wildlife encounter and produced water at any point.

The recycling containment is otherwise protective of wildlife, including migratory birds. The O&M plan calls for the operator to inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency ad to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.

APPENDIX D

OPERATING AND MAINTENANCE PLAN

ENVIROTECH 2500 North Eleventh Street • PO Box 6029 • Enid, Oklahoma 73701 • (580) 234-8780 • Fax (580) 237-4302

OPERATION AND MAINTENANCE PROCEDURES

In this plan, underlined text represents the language of the Rule.

The operator will operate and maintain the minion tanks to contain liquids and maintain the integrity of the liner system in a manner that prevents contamination of fresh water and protects public health and the environment as described below. The purpose of the minion tanks is to facilitate recycling, reuse, and reclamation of produced water derived from nearby oil and gas wells. During periods when water for E&P operations is not needed, produced water may discharge to one of the injection wells in the operator's SWD system. The minion tanks will not be used for the disposal of produced water or other oilfield waste.

The operation of the Recycling minion tanks is summarized below:

1. Via pipeline, produced water generated from nearby oil and gas wells is delivered to a treatment system located as indicated in the C-147 Form.
2. After treatment, the produced water discharges into the minion tanks.
3. When required, treated produced water is removed from the containment for E&P operations. At this time, treated produced water will be used for drilling beneath the fresh water zones (beneath surface casing), for well stimulation (e.g. hydraulic fracturing) and other E&P uses as approved by OCD.
4. Whenever the maximum fluid capacity of the minion tanks is reached, treatment and discharge to the minion tanks ceases (see Freeboard and Overtopping Plan, below).
5. The operator will keep accurate records and shall report monthly to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
6. The operator will maintain accurate records that identify the sources and disposition of all recycled water that shall be made available for review by the division upon request.
7. The containment shall be deemed to have ceased operations if less than 20 % of the total fluid capacity is used every six months following the first withdrawal of produced water for use. The operator will report cessation of operations to the appropriate division district office. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.

The operation of the minion tanks will follow the mandates listed below:

1. The operator will not discharge into or store any hazardous waste (as defined by 40 CFR 261 and NMAC 19.15.2.7.H.3) in the AST's.
2. If the containment's primary liner is compromised above the fluid's surface, the operator will repair the damage or initiate replacement of the primary liner within 48 hours of discovery or seek an extension of time from the Division District office.
3. If the primary liner is compromised below the fluid's surface, the operator will remove all fluid above the damage or leak within 48 hours of discover, notify the division district office, and repair the damage or replace the primary liner.
4. The operator will install, or maintain onsite, an oil absorbent boom or other device to contain an unanticipated release and the operator will remove any visible layer of oil from the surface of the recycling containment.
5. The operator will report releases of fluid in a manner consistent with NMAC 19.15.29.
6. The containment will be operated to prevent the collection of surface water run-on.
7. The operator will maintain the minion tanks free of miscellaneous solid waste or debris.
8. The operator will maintain at least 3-ft of freeboard for the minion tanks and will utilize electronic sensors within the tank to ensure fluid capacity does not exceed this freeboard requirement.
9. As described in the design/construction plan, the injection or withdrawal of fluids from the containment is accomplished through hardware that prevents damage to the liner by erosion, fluid jets, or impact from installation and removal of hoses or pipes.
10. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
11. The operator will maintain the fences in good repair.

MONITORING, INSPECTION, AND REPORTING PLAN

The operator will inspect the recycling containment and associated leak detection systems weekly while it contains fluids. The operator shall maintain a current log of such inspections and make the log available for review by the division upon request.

Weekly inspections consist of:

1. Reading and recording the fluid height from the electronic sensors.
2. Fluid testing to indicate presence of oil in the produced water

3. Visually inspecting the minion tank exposed bladder and operating valves.

As stated above, if a liner's integrity is compromised, or if any penetration of the liner occurs above the water surface, then the operator will notify the District office within 48 hours (phone or email).

Monthly, the operator will:

1. Inspect diversion ditches and berms around the minion tank to check for erosion and collection of surface water run-on.
2. Inspect the minion tanks for dead migratory birds and other wildlife. The minion tanks do not have any exposed water and it is expected that there will be no possible contact with wildlife. However, Within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.
3. Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
4. Record sources and disposition of all recycled water.

The operator will maintain a log of all inspections and make the log available for the appropriate Division District office's review upon request. An example of the log is attached to this section of the permit application.

FREEBOARD AND OVERTOPPING PREVENTION PLAN

The design of minion tanks does not allow for accidental escape of fluids. The produced water is contained within a bladder that is completely seal from outside factors. There is one influent located at the top of the tank panel and there is one effluent located at the bottom of the tank panel. To ensure that the tank does not become to full there are shut off sensors located towards the top of the bladder. In the event the tank reaches capacity the influent is closed and produced water is redirected to one of the injection wells as identified in *Appendix E*.

APPENDIX E
CLOSURE PLAN

CLOSURE PLAN

In this plan, underlined text represents the language of the Rule.

After operations cease, the operator will remove all fluids within 60 days and close the containment within six months from the date the operator ceases operations from the containment for use.

The operator does not own the land where the referenced recycle facility will be operated but has received permission to operate under a Surface Use Agreement. Upon substantial closure, the operator will work with the land owner to leave the land in an acceptable manner which may include leaving the pad, berms, etc. for future equipment storage or convert the containment and/or pad area for other industrial purposes.

EXCAVATION AND REMOVAL CLOSURE PLAN - PROTOCOLS AND PROCEDURES

The minion tanks' bladder is expected to be able to be pumped completely dry after it use. There will be no excess solids due to complete containment during its lifetime.

The operator will remove all liquids from the tanks and either:

a. Dispose of the liquids in a division-approved facility, or
b. Recycle, reuse, or reclaim the water for reuse in drilling and stimulation

The operator will close the recycling containment by first removing all fluids, contents, and synthetic liners and transferring these materials to a Division approved facility. The minion tanks utilize a reusable bladder, at closure there will be no disposal of liner expected.

After the removal of the tank contents, soils beneath the workover pit will be tested by collection of a five-point (minimum) composite sample, which includes stained or wet soils, if any. That sample shall be analyzed for the constituents listed in *Table 1* of *19.15.34.14*.

After review of the laboratory results:

a. If any contaminant concentration is higher than the parameters listed in *Table 1*, additional delineation may be required, and the operator must receive approval before proceeding with closure.

b. If all contaminant concentrations are less than or equal to the parameters listed in *Table 1*, then the operator may restore the containment area for use as an oil and gas production facility or oil and gas related activities. The operator plans to continue using the surface for operating purposes on the production facility. If operator decides to restore the containment area, restoration activities may include:

   i. Backfill with non-waste containing, uncontaminated earthen material or

   ii. Undertake an alternative closure process pursuant to a variance request after approval by OCD.

The operator will reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area.

Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability, and preservation of surface water flow patterns.

The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.

CLOSURE DOCUMENTATION

Within 60 days of closure completion, the operator shall submit a closure report on Form C-147, including required attachments, to document all closure activities including sampling results and the details on any backfilling, capping or covering, where applicable. The closure report shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in division rules or directives.

The operator shall notify the division when reclamation and re-vegetation are complete. Specifically, the notice will document that all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

TABLE 1
SOIL PARAMETERS

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

* Or other test methods approved by the division.
** Numerical limits or natural background level, whichever is greater.
[19.15.34.14 NMAC - N, 3/31/2015; A, 10/13/2020]

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

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

CONDITIONS

Action 144152

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 144152
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	This application has been accepted for the NMOCD records. On Friday, September 16, 2022 1:34 PM MATADOR PRODUCTION COMPANY [228937] sent the following email: "Mr. Tremaine had asked that we go ahead and submit a C147 Long for this site although already removed, so that OCD could correctly identify the facility and its recycling data. We filed that C147 Long this afternoon. I wanted to send you a note to give you the context of the reason for the filing although the facility is already removed."	9/26/2022