<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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.

Form C-147 Revised April 3, 2017

Santa Fe, NM 87505

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.
the 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. It does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Mewbourne Oil Company (For multiple operators attach page with information) OGRID #: 14744
Address: 4801 Business Park, Hobbs NM, 88241
Facility or well name (include API# if associated with a well): Salado Draw Containment & Recycling Facility
OCD Permit Number:(For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NESW Section 16 Township 26 South Range 33 East County: Lea
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Location of recycling facility (if applicable): Latitude 32.040117 Longitude103.579909 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
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 32.041665 Longitude -103.580542 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 HDPE Secondary Liner □ LLDPE HDPE □ PVC □ Other 40-mil HDPE Secondary Liner □ □ □ □ □ □ □ □ □
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: 400,882 bbl Dimensions: L 477' x W 218' x D 19'
Recycling Containment Closure Completion Date:

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 operated by the owners of the containment.)	s owned or
Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence to	ıntil bonding
amounts are approved)	
Attach closure cost estimate and documentation on how the closure cost was calculated.	
Fencing: Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify Eight foot game fence with chain link gates	
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. Vanisanas	
Variances: Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hum	nan 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.	ed, 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 examples of the siting attachment source material are provided below under each criteria.	tion. Potential
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	☐ Yes ☑ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality	□ NA □
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes ⊠ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological 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
- Mix Office of the State Engineer - Tw ATERS database scaron, visual inspection (continuation) of the proposed site	
Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ☑ No

Pecycling Facility and/or Containment Checklist: Instructions: Each of the following items must be attached to the applicate 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	
10.	
Operator Application Certification:	
	pplication are true, accurate and complete to the best of my knowledge and belief.
Name (Print): Tyler Tupman	Title: Petroleum Engineer
Signature:	Date: 7/11/17
e-mail address: _tupman@mewbourne.com	Telephone: <u>575-390-3739</u>
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
OCD Conditions	e Maria de la companya del companya de la companya della companya
Additional OCD Conditions on Attachment	

<u>District I</u> 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.

Form C-147 Revised April 3, 2017

Santa Fe, NM 87505

Recycling Facility and/or Recycling Containment
Type of Facility: Recycling Facility Recycling Containment* Type of action: Registration Registration 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.
e 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. or does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Mewbourne Oil Company (For multiple operators attach page with information) OGRID #: 14744
Address: 4801 Business Park, Hobbs NM, 88241
Facility or well name (include API# if associated with a well): Salado Draw Containment (South)
OCD Permit Number:(For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr NESW Section 16 Township 26 South Range 33 East County: Lea
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
7
Recycling Facility:
Location of recycling facility (if applicable): LatitudeLongitudeNAD83
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 32.039463 Longitude -103.581321 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 HDPE Secondary Liner
String-Reinforced
Liner Seams: Welded Factory Other Volume: 400,882 bbl Dimensions: L 477' x W 218' x D 19'
Recycling Containment Closure Completion Date:

4. Bonding:	
☑ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells	owned or
operated by the owners of the containment.)	
Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence u	ntil bonding
amounts are approved)	
Attach closure cost estimate and documentation on how the closure cost was calculated.	
5.	
Fencing:	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify Eight foot game fence with chain link gates	
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,	
<u>Variances</u> :	1 14 14
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hum environment.	an health, and the
Check the below box only if a variance is requested:	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested in the consideration of approval of the consideration of approval of the consideration of approval.	d, include the
variance information on a separate page and attach it to the C-147 as part of the application. If a Variance is requested, it must be approved prior to implementation.	
8. Siting Criteria for Recycling Containment	
Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the applica examples of the siting attachment source material are provided below under each criteria.	tion. Potential
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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☒ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	□ NA
- Written confirmation or verification from the municipality; written approval obtained from the municipality	
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	☐ Yes ☒ No
lake (measured from the ordinary high-water mark).	
- Topographic map; visual inspection (certification) of the proposed site	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - 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	☐ Yes ⊠ No
	I I I CS I ALL IND
initial application.	L Tes A 140
- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	☐ 1es ☐ 140

P. Recycling Facility and/or Containment Checklist: Instructions: Each of the following items must be attached to the apple 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.	
Operator Application Certification: I hereby certify that the information and attachments submitted with this Name (Print): Tyler Tupman Signature: e-mail address: ttupman@mewbourne.com	s application are true, accurate and complete to the best of my knowledge and belief. Title: Petroleum Engineer Date: 7/11/17 Telephone: 575-390-3739
Title: OCD Conditions Additional OCD Conditions on Attachment	Approval Date: OCD Permit Number:



C-147 Registration Application Form

Salado Draw Containment & Recycling Facility

July 11, 2017

SITING REQUIREMENTS

1. DISTANCE TO GROUNDWATER

Figure 1 shows the nearest active water wells to the recycling containment. A borehole was completed by Phoenix Environmental and the results are shown in Figure 2. A bore-hole was drilled down to 100' and was left open for twenty-four hours. No groundwater was encountered down to this depth.

2. DISTANCE TO MUNICIPAL BOUNDARIES AND FRESH WATER FIELDS

Figure 1 also illustrates that the recycling containment is not located within incorporated municipal boundaries or within defined municipal fresh water well fields covered by a municipal ordinance pursuant to Section 3-27-3 NMSA 1978 as amended.

3. DISTANCE TO SUBSURFACE MINES

Based off local knowledge of the area and according to the NM EMNRD Mining and Minerals Division there are no subsurface mines within the proximity of the recycling containment. Figure 3 shows the active mines within Lea County in respect to the location of the recycling containment

4. DISTANCE TO KARST FEATURES

Figure 4 shows the recycling containment is located within a BLM-identified medium potential karst zone. BLM inventory data of existing karst features are indicated in the figure and verify that the recycling containment is not located within an unstable area.

5. DISTANCE TO 100 YEAR FLOODPLAINS

Based off of information from the Federal Emergency Management Agency, the recycling containment is located within the FEMA identified Zone D. Figure 5 demonstrates that the area is not located within a 100-year floodplain.

6. DISTANCE TO SURFACE WATER

Figure 6 illustrates that the recycling containment is not located within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole or playa lake (measured from the ordinary high-water mark).

Figure 6 illustrates that the nearest watercourses is a playa lake located 700 feet to the east,

7. DISTANCE TO PERMANENT RESIDENCE OR INSTITUTIONS

Figure 7 illustrates that the recycling containment is not located within 1,000 feet of a permanent residence, school, hospital, institution or church in existence at the time of this initial registration.

8. DISTANCE TO DOMESTIC AND STOCK WATER SUPPLIES

Figure 8 illustrates that the recycling containment is not located within 500 feet of a spring or fresh water well used for domestic or stock watering purposes at the time of this initial registration. The distances to the nearest stock or domestic water are noted in the figure. Also, referencing back to **Figure 1**, the nearest water well is 2,200' to the SE.

9. DISTANCE TO WETLANDS

Figure 6 illustrates that the recycling containment is not located within 500 feet of any identified wetland.

DESIGN AND CONSTRUCTION PLAN

10. PROJECT OVERVIEW

The following bullet points will be followed and met during the construction of the recycling containment:

- The recycling containment will be constructed to ensure the confinement of produced water, to prevent releases and to prevent overtopping due to wave action or rainfall
- The foundation will be properly constructed and interior slopes will consist of a firm unyielding base that will be smooth and free of rocks, debris or and sharp edges that may penetrate the liner.
- 10 ounce geotextile will be laid on the base of the containment to add another layer of protection for the liner from any sharp edges.
- A levee will be constructed with an inside and outside grade of three horizontal feet to one vertical foot (3H:1V).
- The recycling containment will be constructed with a 60 mil HDPE **conductive** primary liner and a 40 mil HDPE secondary liner.

- The edges of both liners will be anchored with an 24-inch deep compacted earth-filled
- Liner seems will minimized and will oriented up and down, not across, the slope of the levee. Factory welded seams will be used anywhere possible and no horizontal seams will be within five feet of the slope's toe.
- All field seems will be tested and logged to ensure the seams are thermally sealed.
- The conductive primary liner will be spark tested to ensure no cuts are present.
- The liner will be protected from excessive hydrostatic force or mechanical damage. External discharge or suction lines will not penetrate the liner.
- The recycling containment will be constructed with a leak detection system between the primary and secondary liner. The leak detection system will consist of 200-mil geonet and will be sloped to facilitate the earliest possible leak detection.
- The containment will be designed to prevent run-on of surface water. Diversion ditches will be used where necessary.

11. STOCKPILING OF TOPSOIL

Topsoil will be stockpiled beside the recycling containment and will be used as final layer at the time of the enclosure of the containment.

12. SIGNS

Mewbourne Oil Co will provide easily read sign(s) in a conspicuous place around the perimeter of the fence that will include:

- The operator's name
- The location of the site by quarter-quarter, section, township and range
- Emergency telephone numbers

13. FENCING

An 8-foot tall game fence will be provided around the perimeter of the containment to deter an unauthorized human or wildlife access. Gates will be used for authorized personnel only and will be kept locked at all times.

14. NETTING AND WILDLIFE PLAN

The fence indicated above will be effective in excluding any terrestrial wildlife. Due to infeasibility of installing netting on the recycling containment of this magnitude, an audible avian deterrence system will be installed similar to setups by other operators in southeast New Mexico. The system has provided effective protection for migratory birds.

Mewbourne Oil will inspect the containment monthly and will report to NM Game and Fish Department and NMOCD any dead migratory birds within 30 days.

OPERATING AND MAINTENANCE PLAN

15.Overview

The recycling containment will be operated and maintained to contain liquids and solids and maintain 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 this lined containment is to facilitate recycling, reuse, and reclamation of produced water from nearby oil and gas wells to be used in new well completions. When the treated produced water is not needed for completion of new wells, it will be pumped to and injected in a third party authorized SWD. This containment will not be used for the disposal of produced water or other oilfield waste.

The operation of the Recycling Containment is outlined below:

- Produced water from nearby oil and gas wells will be pumped via permanent pipeline to the treatment facility near the recycling containment.
- After being treated, the produced water will be pumped into the recycling containment.
- When sufficient volume is reached in the recycling containment, it will be removed from the containment and used for either well stimulation (hydraulic fracturing) or drilling below fresh water zones (beneath surface casing).
- When the containment reaches maximum capacity, either treatment and discharge to the containment will cease or current plans will have a permanent 12-inch line in place to send treated produced water to a separate recycling containment in the same area.
- Accurate records will be kept and monthly reports will be sent in showing 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.
- Inspections will be performed regularly and records will also be kept that identify sources and disposition of all recycled water and will be made available for review upon request.
- These inspections will include monitoring the leak detection system to make sure the primary liner has not been compromised; removal of any visible layer of oil from the liquid surface and verification that the three foot freeboard is being maintained.
- If a liner breach is identified above the liquid surface, the liner will be repaired or replaced within 48 hours. Alternatively, the NMOCD district office will be contacted within 48 hours to seek and extension for the liner repair or replacement.

- If a liner breach is identified above the liquid surface, the liner will be repaired or replaced within 48 hours. Alternatively, the NMOCD district office will be contacted within 48 hours to seek and extension for the liner repair or replacement.
- If a liner breach is identified below the liquid surface, all liquid above the identified breach will be removed, the NMOCD district office will be notified and the liner repair or replacement will be initiated within 48 hours of discovery.
- The berm will be visually inspected to ensure the integrity and condition is such to prevent surface water run-on.
- Finally, oil absorbent pads will be kept on site to contain an unexpected release.

The recycling 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. Records will be kept using form C-148. If these records indicate that less than 20% of the total fluid capacity is used within six months, the appropriate division district office will be notified.

CLOSURE PLAN

After operations cease (insufficient volume used or permit expires), all fluids will be removed within 60 days and the recycling containment will be closed within six months. All removed liquids, solids and liner materials will be removed and transferred to a NMOCD-approved disposal facility within six months.

A five-point composite sample will be collected from beneath the containment and anywhere soils are stained or wet and tested for contamination. The samples will be analyzed for the criteria listed in Table 1 of 19.15.34.14 NMAC.

- If the contaminant concentration is higher than the parameters listed in Table 1, the NMOCD district office will be notified and a request will be submitted before completing the enclosure on the containment.
- If all parameters from Table 1 are met, closure will proceed by backfilling with non-waste containing, uncontaminated, earthen material.

Within 60 days of closure completion, a closure report on form C-147, including required attachments, will be submitted to document all closure activities including sampling results and details of any backfilling, capping, or covering, where applicable. The closure report will certify that all information in the report and attachments is correct and that all applicable closure requirements and conditions have been met.

Once the containment has been closed, the containment's location will be reclaimed to a safe and stable condition that blends with the surrounding undisturbed area. Top soils and subsoils will 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 area will then be reseeded in the first favorable

Salado Draw Containment & Recycling Facility | MOC

Reclamation of the area will be considered complete when 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 50% of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds.

Surface reclamation obligations imposed by the BLM or the NM State Trust Land on lands managed by those agencies will supersede these requirements, provided that these other requirements provide equal or greater protection of fresh water, human health, and the environment.

The NMOCD district division office will be notified when the reclamation and re-vegetation are complete.

FINANCIAL ASSURANCE REQUIREMENTS

Mewbourne Oil Company has an existing financial assurance in place with NMOCD as required by 19.15.8 NMAC. Use of the recycling containment will be used solely for wells owned or operated by MOC.

VARIANCE REQUESTS

Netting

Due to the size and infeasibility of constructing and maintaining a netting system over a containment of this size, Mewbourne is requesting an alternative solution. The recycling containment will instead be equipped with an audible avian protection system. This system will be designed to deter birds from approaching the containment. Mewbourne will use the Bird-X Mega Blaster PRO. This device has been used by other operators with registered recycling containments in southeast New Mexico as an effective means of deterring birds.

Figures

Boundary References



Figure 1: Nearest Water Wells

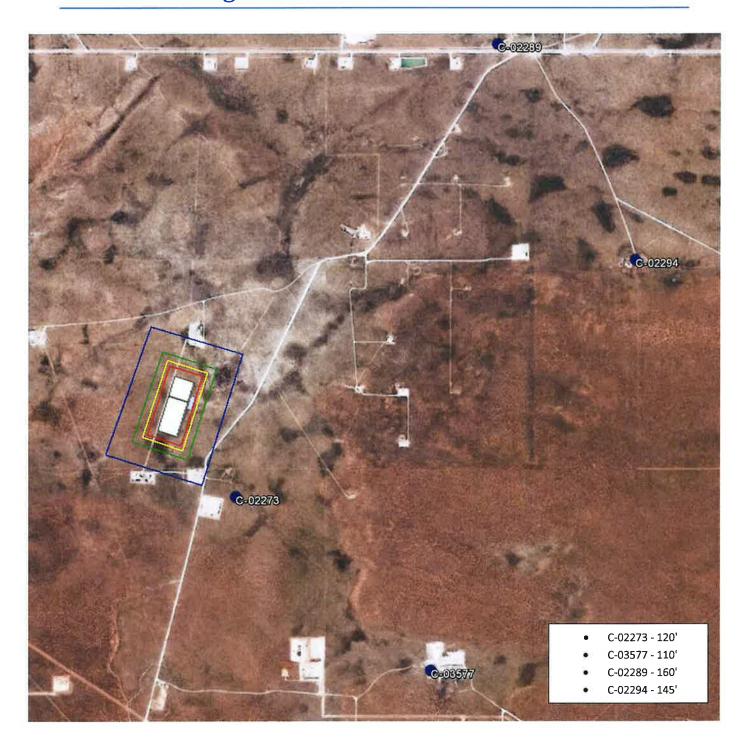


Figure 2: Soil Boring Log



THE DRILLING PROFESSIONALS

Soil Boring Log

	Phoenix Environmental LLC
Contractor	HCI Drilling
Date Completed	07/09/2107
Location	Jal, NM
Soil Boring Number	SB-1
Lithology	
0' - 20'	Caliche with Sand
20' - 50'	Caliche with Sandstone
50' - 100'	Red Clay with Sandstone Stringers

Copies: Email (Phoenix Env)

HCI DRILLING / P.O. BOX 96 / WOLFFORTH, TX 79382-0096 806.866.4026 / HCIDRILL.COM

Figure 3: Subsurface Mine Locations

Active Mines in Lea County, New Mexico, November 2014

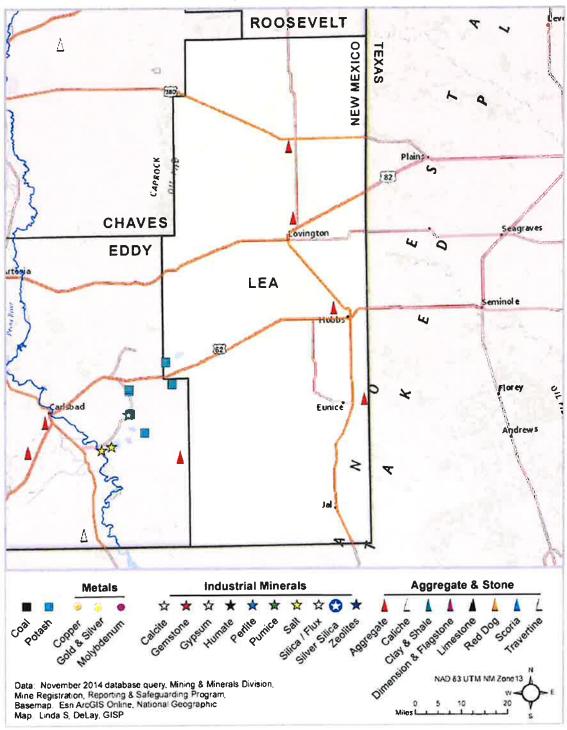


Figure 3: Subsurface Mine Locations

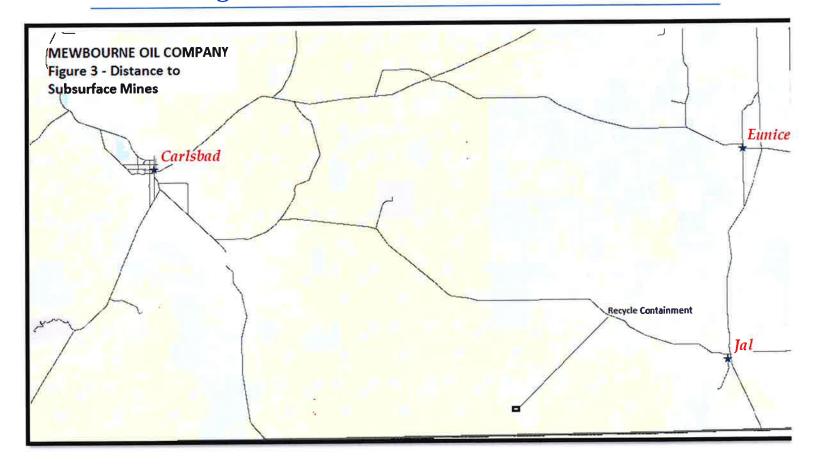


Figure 4: Karst Features

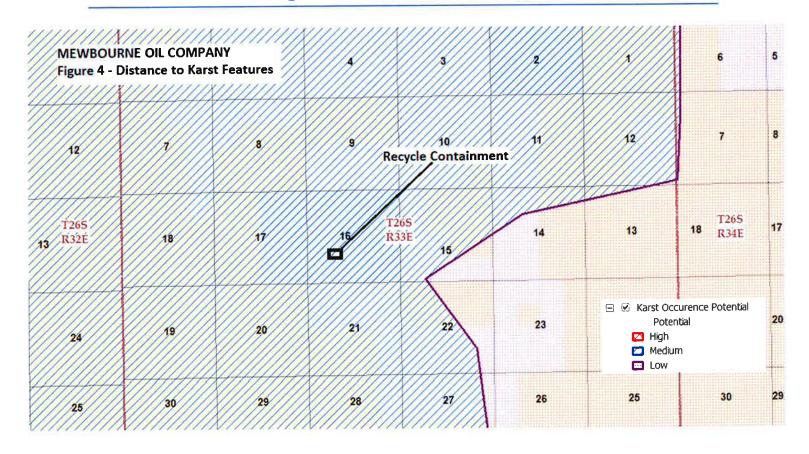


Figure 5: 100 Year Floodplain

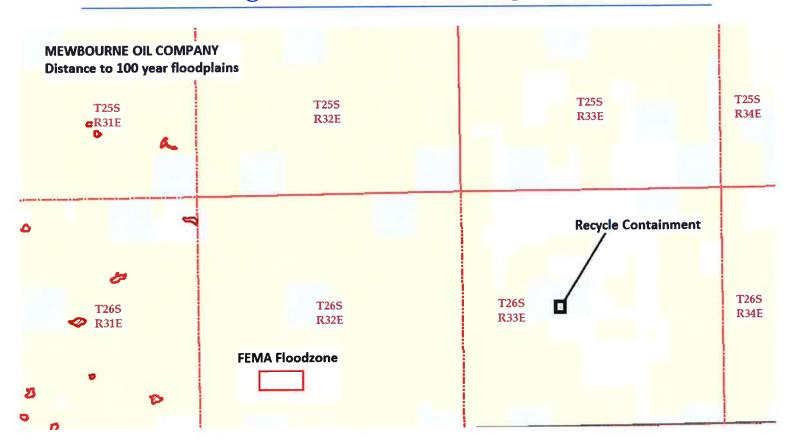


Figure 6: Distance to Surface Water

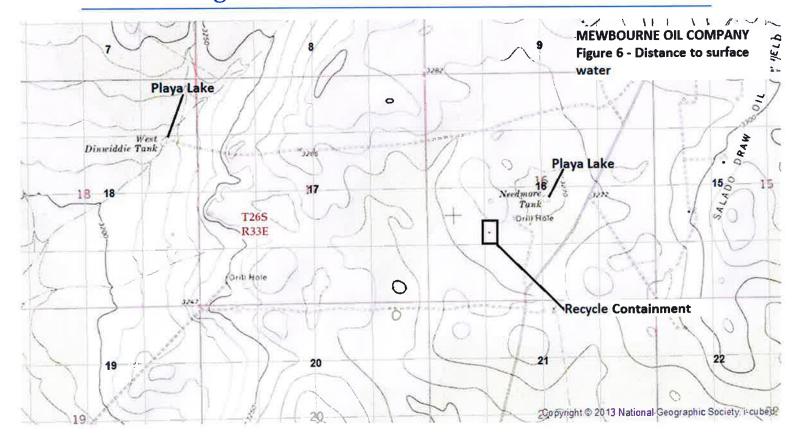


Figure 7: Distance to Residence



Figure 8: Distance to Stock & Domestic Water



Survey Plats

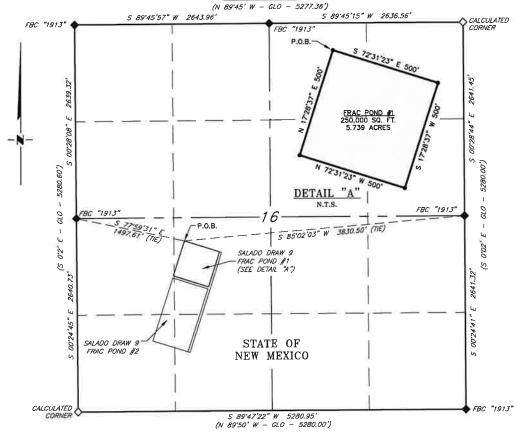
MEWBOURNE OIL COMPANY OVERALL SURVEY OF THE PROPOSED SALADO DRAW 9 FRAC PONDS #1 & #2 WITH ROAD TURNOUT SECTION 16, T26S, R33E, N. M. P. M., LEA CO., NEW MEXICO (N 89°45' W - GLO - 5277.36') S 89°45'57" W 2643.96' S 89°45'15" W 2636.56' FBC "1913" FBC "1913" SEC 16 T26S R33E 2639.32 2641 . 44,87.00 ,80,82.00 STATE OF 5280.00') 5280.60') NEW MEXICO FBC "1913" 079 FBC "1913" 070 16 0.5 € .20.0 S 5 2641.32 00"24'45" E SALADO DRAW 9 FRAC PONDS (SEE DETAIL "A") S 00.24'41" CALCULATED CORNER FBC "1913" \$ 89°47'22" W 5280.95' (N 89°50' W - GLO - 5280.00') FRAC POND # ROAD TURNOUT (SEE EXHIBIT "C") FRAC POND #2 (SEE EXHIBIT "B") **LEGEND** RECORD DATA - GLO DETAIL "A" 500' 1000' FOUND MONUMENT AS NOTED N.T.S. BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND. CALCULATED CORNER TX 10193838 NM 4655451 SCALE: 1" = 1000 DATE: 6-7-2017 SURVEYED BY: ML/JL DRAWN BY: LPS REVISION DATE APPROVED BY: RMH JOB NO.: LS1705282A SHEET: 1 OF 4 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 DWG. NO.: 1705282-1

MEWBOURNE OIL COMPANY

SURVEY OF THE PROPOSED SALADO DRAW 9 FRAC POND #1

SECTION 16, T26S, R33E, N. M. P. M., LEA CO., NEW MEXICO





DESCRIPTION

A tract of land situated within the Southwest quarter of Section 16, Township 26 South, Range 33 East, N. M. P. M., Lea County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds

BEGINNING at a point, which bears S 77°59'31" E, 1,497.61 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 16 and bears S 85'02'03" W, 3,830.50 feet from a brass cap, stamped "1913", found for the East quarter corner of Section 16;

Thence S 72°31'23" E, 500 feet, to a point;

Thence S 17'28'37", W 500 feet, to a point;

Thence N 72'31'23" W, 500 feet, to a point;

Thence N 17'28'37" E, 500 feet, to the Point Of Beginning.

Said tract of land contains 250,000 square feet or 5.739 acres, more or less. and is allocated by forties as follows:

1" = 1000' 500' 1000' NE 1/4 SW 1/4 NW 1/4 SW 1/4 249,776.53 Sq. Ft. 223.47 Sq. Ft. 5.734 Acres 0.005 Acres

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

CALCUTED CORNER \Diamond P.O.B.

DWG. NO.: 1705282-2

NM EAST ARE HORIZ. GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet RECORD DATA - GLO the Min. Stds. for Land Surveying in the State of N. M. and FOUND MONUMENT are true and correct to the best of my knowledge and belief.

Hobert M

POINT OF BEGINNING Robert M. Howett

TX 10193838 NM 4655451

10.	REVISION	DATE
ОВ	NO.: LS1705	282A

(575) 964-8200 308 W. BROADWAY ST., HOBBS, NM 88240

SCALE: 1" = 1000 DATE: 6-7-2017 SURVEYED BY: ML/JL

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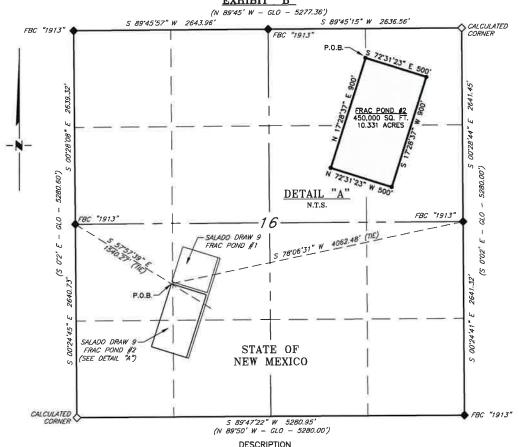
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DRAWN BY: LPS APPROVED BY: RMH SHEET: 2 OF 4

MEWBOURNE OIL COMPANY SURVEY OF THE PROPOSED SALADO DRAW 9 FRAC POND #2

SECTION 16, T26S, R33E, N. M. P. M., LEA CO., NEW MEXICO

EXHIBIT "B"



A tract of land situated within the Southwest quarter of Section 16, Township 26 South, Range 33 East, N. M. P. M., Lea County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds

BEGINNING at a point, which bears S 57*57'39" E, 1,540.27 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 16 and bears S 78'06'31" W, 4,062.48 feet from a brass cap, stamped "1913", found for the East quarter corner of Section 16;

Thence S 72"31'23" E, 500 feet, to a point;

Thence S 17*28'37", W 900 feet, to a point;

Thence N 72°31'23" W, 500 feet, to a point;

Thence N 17*28'37" E, 900 feet, to the Point Of Beginning.

Said tract of land contains 450,000 square feet or 10.331 acres, more or less. and is allocated by forties as follows:

SCALE:	1" =	1000
D	500"	1000

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

NE 1/4 SW 1/4 NW 1/4 SW 1/4 SE 1/4 SW 1/4 SW 1/4 SW 1/4 171,440.51 Sq. Ft. 50,249.39 Sq. Ft. 1.154 Acres 128,353.24 Sq. Ft. 2.947 Acres 99,956.86 Sq. Ft. 2.294 Acres

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the heat of the land or true and correct to the heat of the land or true and correct to the heat of the land or true and correct to the heat of the land or true and correct to the land of the land are true and correct to the best of my knowledge and belief.

Howett Hobert M

POINT OF BEGINNING Robert M. Howett NM PS 19680

TX 10193838 NM 4655451

FOUND MONUMENT AS NOTED

CALCULATED CORNER

NO.	REVISION	DATE
JOB	NO.: LS1705	5282A
DWG	. NO.: 17052	82-3

0

P.O.B.



(575) 964-8200 308 W. BROADWAY ST., HOBBS, NM 88240

Copyright 2016 - All Rights Reserve SCALE: 1" = 1000 DATE: 6-7-2017 SURVEYED BY: ML/JL DRAWN BY: LPS APPROVED BY: RMH SHEET: 3 OF 4

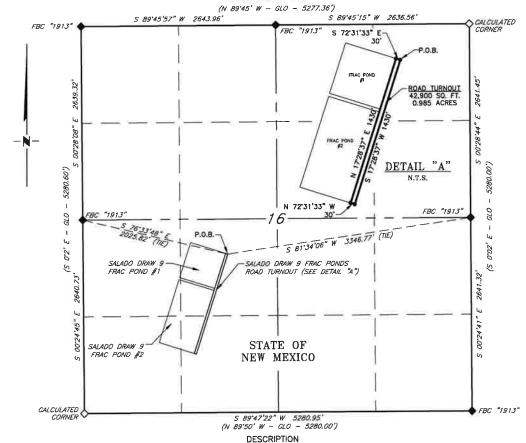
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MEWBOURNE OIL COMPANY

PROPOSED ROAD TURNOUT FOR THE SALADO DRAW 9

FRAC PONDS #1 & #2 SECTION 16, T26S, R33E, N. M. P. M., LEA CO., NEW MEXICO EXHIBIT "C"



A tract of land situated within the Southwest quarter of Section 16, Township 26 South, Range 33 East, N. M. P. M., Lea County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds

BEGINNING at a point, which bears S 76'33'48" E, 2,025.82 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 16 and bears S 81°34'06" W, 3,346.77 feet from a brass cap, stamped "1913", found for the East quarter corner of Section 16;

Thence S 17°28'37" W, 1,430 feet, to a point;

Thence N 72°31'23" W, 30 feet, to a point;

Thence N 17*28'37" E, 1,430 feet, to a point;

Thence S 72°31'23" E, 30 feet, to the Point Of Beginning.

Said tract of land contains 42,900 square feet or 0.985 acres, more or less, and is allocated by forties as follows:

1" = 1000 500 1000

26,666.68 Sq. Ft.

0.612 Acres

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

<u>LEGEND</u>

FOUND MONUMENT AS NOTED

0 CALCULATED CORNER POINT OF BEGINNING P.O.B.

NE 1/4 SW 1/4 SE 1/4 SW 1/4

16,233.32 Sq. Ft.

0.373 Acres

NM EAST
ARE HORIZ. GROUND.
LEGEND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify
that I prepared this plat from an actual survey made on the
ground under my direct supervision, said survey and plat meet
the Min. Stds. for Land Surveying in the State of N. M. and
are true and correct to the best of my knowledge and belief,

Robert M

TX 10193838 NM 4655451 Robert M. Howett PS 19680

REVISION DATE JOB NO.: LS1705282A

DWG. NO.: 1705282-4



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200 Copyright 2016 SCALE: 1" = 1000 DATE: 6-7-2017 SURVEYED BY: ML/JL DRAWN BY: LPS APPROVED BY: RMH 4 OF 4 SHEET:

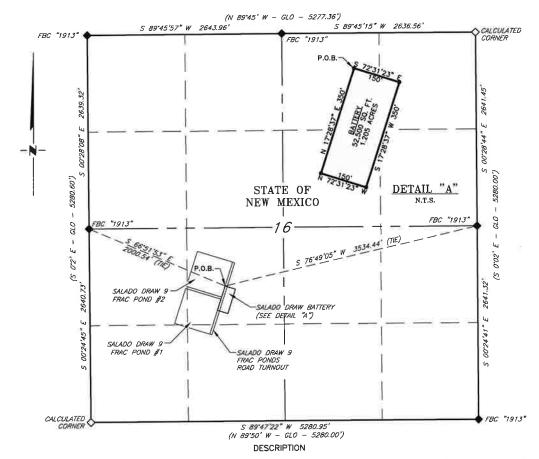
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MEWBOURNE OIL COMPANY

SURVEY OF THE PROPOSED SALADO DRAW BATTERY

SECTION 16, T26S, R33E, N. M. P. M., LEA CO., NEW MEXICO EXHIBIT "D"



A tract of land situated within the Southwest quarter of Section 16, Township 26 South, Range 33 East, N. M. P. M., Lea County, New Mexico, across State of New Mexico land, and being more particularly described by metes and bounds as follows:

BEGINNING at a point, which bears S 66'51'53" E, 2,000.54 feet, from a brass cap, stamped "1913", found for the West quarter corner of Section 16 and bears S 76'49'05" W, 3,534.44 feet from a brass cap, stamped "1913", found for the East quarter corner of Section 16;

Thence S 72°31'23" E, 150 feet, to a point;

Thence S 17*28'37" W, 350 feet, to a point;

Thence N 72'31'23" W, 150 feet, to a point;

Thence N 17°28'37" E, 350 feet, to the Point Of Beginning.

Said tract of land contains 52,500 square feet or 1.205 acres, more or less, and is allocated by forties as follows:

1" = 1000 500' 1000' NE 1/4 SW 1/4

52,500 Sq. Ft. 1.205 Acres

BEARINGS ARE GRID NAD 83 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

FOUND MONUMENT AS NOTED \Diamond CALCULATED CORNER

TX 10193838 NM 4655451 P.O.B.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify ARE MORIZ. GROUND.

In that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

> Robert M NM PS 19680

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19680

REVISION DATE JOB NO.: LS1705299R DWG. NO.: 1705299-5



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000 DATE: 5-25-2017 SURVEYED BY: JM/EF DRAWN BY: LPS APPROVED BY: RMH 5 OF 5 SHEET:

Engineering Drawings

MEWBORNE OIL COMPANY

SALADO DRAW 9

Section 16 - Township 26 South, Range 33 East, - Lea County, New Mexico N.M.P.M.





6/14/2017



Description Sheet No.



Contacts
Mewhorne Oil Company - Tyler Tupman

Envirolech Engineering - Jimmy Stellings 580-234-8780 (Design Engineer)







Salado Draw 9 Section 16-Township 26 South, Range 33 East N.M.P.M. - Lea County, New Mexico

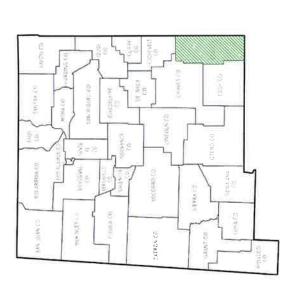
LOCATION PLAN

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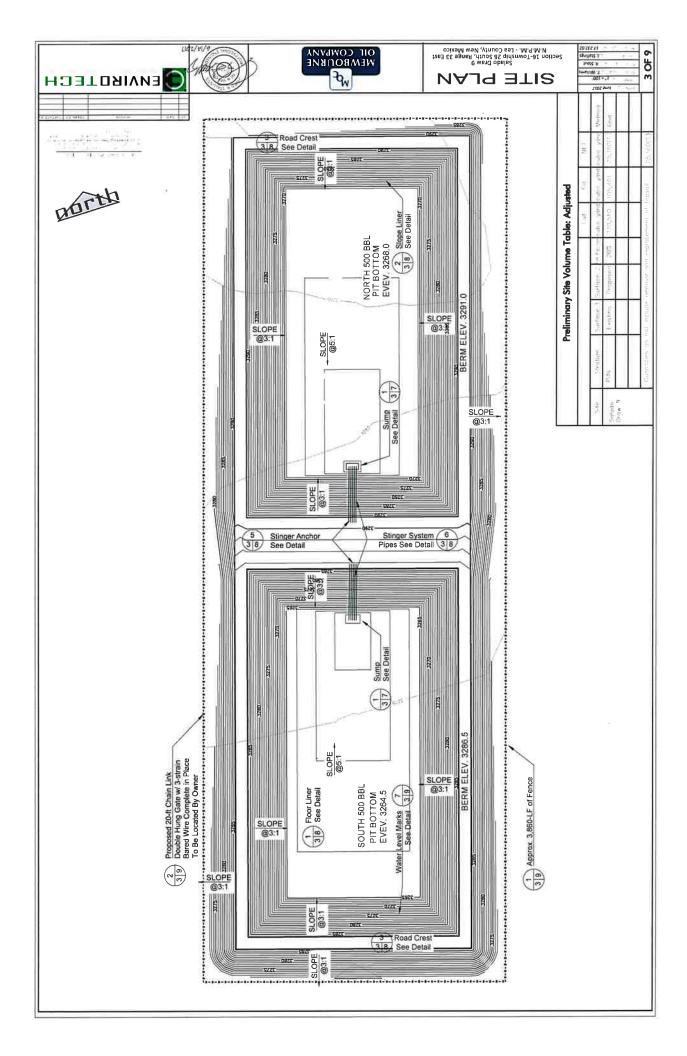
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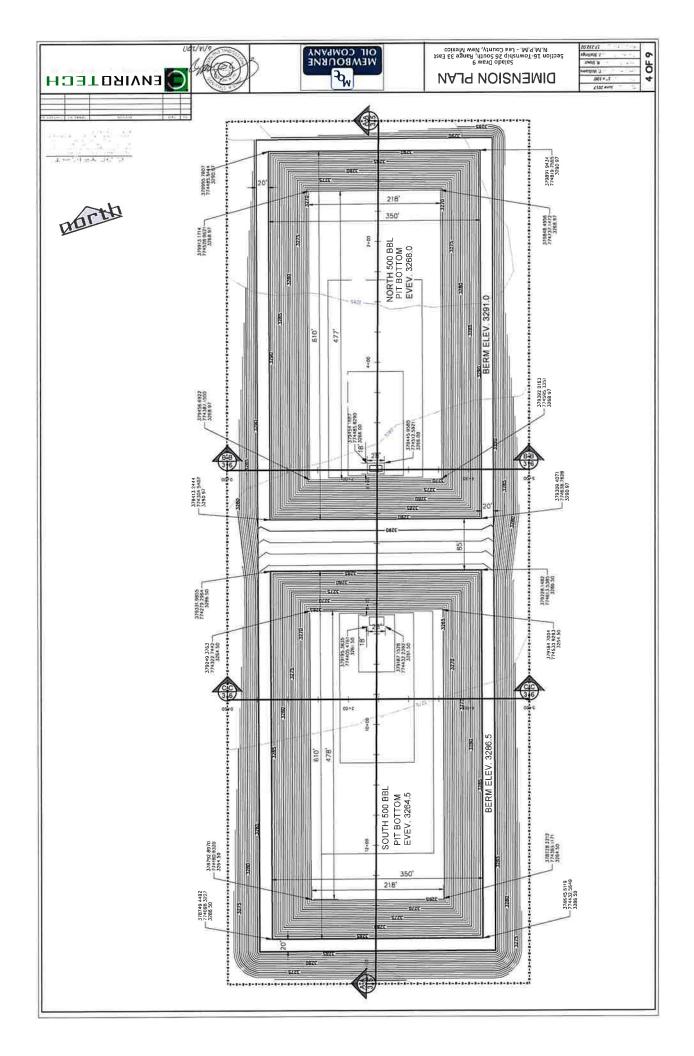
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2,481,325 59,079
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6,252,203 148,862
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12,358,737 294,256
12,969,482 308,797
14,219,719 338,565
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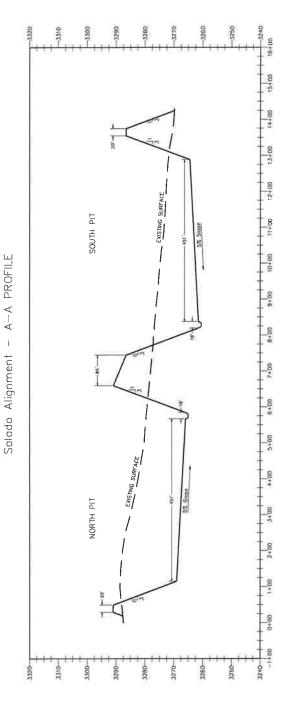








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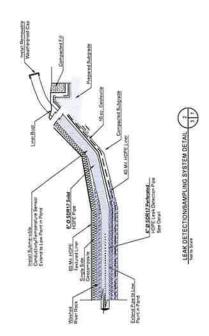


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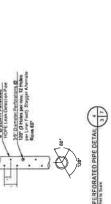


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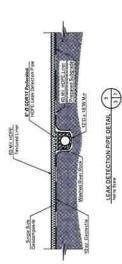


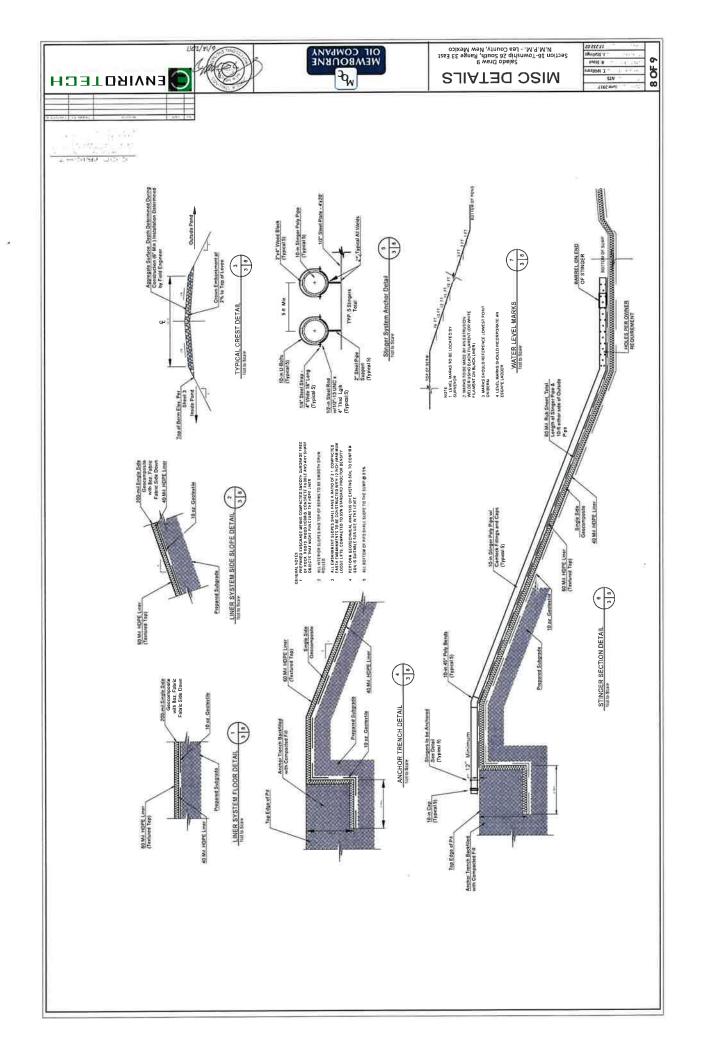


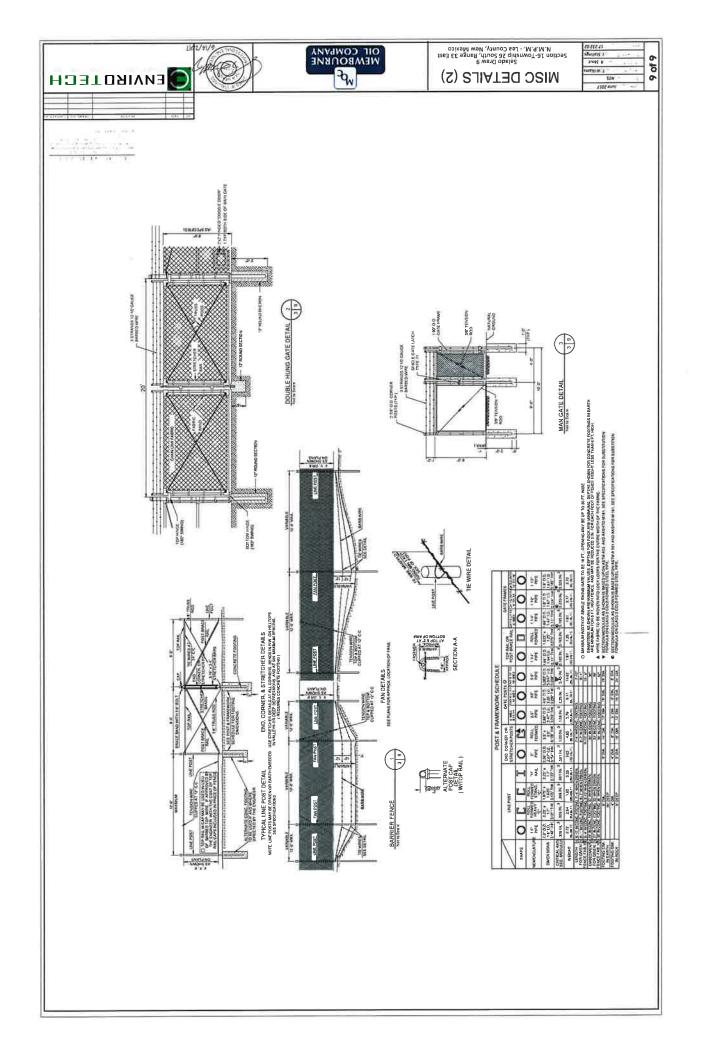
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Material Spec Sheets



Sales Office: Engineered Synthetic Products, Inc. Phone (770) 564-1857 Fax (770) 564-1818 www.espgeosynthetics.com

Geotextile Product Description Sheet

SKAPS Mustang-10 Nonwoven Geotextile

SKAPS Mustang-10 is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. SKAPS Mustang-10 resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. SKAPS Mustang-10 conforms to the physical property values listed below:

PROPERTY	TEST METHOD	UNIT	M.A.R.V. (Minimum Average Roll Value)
Grab Tensile	ASTM D 4632	lbs	225
Grab Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	lbs	90
CBR Puncture Resistance	ASTM D 6241	lbs	600
Permittivity*	ASTM D 4491	sec ⁻¹	1.26
Flow Rate*	ASTM D 4491	gpm/ft ²	100
AOS*	ASTM D 4751	US Sieve (mm)	80 (.180)
UV Resistance	ASTM D 4355	%/hrs	70/500

^{*} At the time of manufacturing. Handling, storage, and shipping may change these properties.

PACKAGING				
Roll Dimensions (W x L) – ft	15 x 1200			
Square Yards Per Roll	2000			
Estimated Roll Weight - lbs	1100			

This information is provided for reference purposes only and is not intended as a warranty or guarantee. SKAPS assumes no liability in connection with the use of this information.

SKAPS Industries, 316 S. Holland Dr., Pendergrass, GA 30567, Phone (706) 693-3440, Fax (706) 693-3450, Email: info@skaps.com

Made in U.S.A.



TECHNICAL DATA SHEET

Premium HD Series, 40 mils

Black, Smooth

2801 Boul, Marie-Victorin Varennes, Ouebec Canada I3X 1P7

Tel: (450) 929-1234 Sales: (450) 929-2544 Toll free in North America:1-800-571-3904 www.Solmax.com www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY(1)	UNIT Imperial	1001375
SPECIFICATIONS				
Thickness (min. avg.)	ASTM D-5199	Every roll	mils	40.0
Thickness (min.)	ASTM D-5199	Every roll	mils	36.0
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0
Sheet Density (8)	ASTM D-792	Every 10 rolls	g/cc	≥ 0.94
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	Per formulation	min	160
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	800
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls		
Strength at Yield			ppi	84
Elongation at Yield			%	13
Strength at Break			ppi	152
Elongation at Break			%	750
Tear Resistance (min. avg.)	ASTM D-1004	Every 5 rolls	lbf	28
Puncture Resistance (min. avg.)	ASTM D-4833	Every 5 rolls	lbf	85
Dimensional Stability	ASTM D-1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D-5397	1/Batch	hr	1000
Multi-Axial Tensile (min. avg.)	ASTM D-5617	Per formulation	%	15
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation		
HP OIT (min. avg.)	ASTM D-5885		%	80
UV Res % retained after 1600 hr	GRI-GM-11	Per formulation		
HP-OIT (min. avg.)	ASTM D-5885		%	80
SUPPLY SPECIFICATIONS (Roll of	dimensions may vary ±19	%)		
Roll Dimension - Width	= 3;		ft	22.3
Roll Dimension - Length	≥3		ft	780
Area (Surface/Roll)	5 25		sf	17394

NOTES

- Testing frequency based on standard roll dimension and one batch is approximately 180,000 lbs (or one railcar).
 Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
 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.
- * 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 responsability of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.



SKAPS Industries 571 Industrial Parkway Commerce, GA 30529 (U.S.A.) Phone (706) 336-7000 Fax (706) 336-7007 e-mail: info@skaps.com

> SKAPS TRANSNET™ (TN) HDPE GEONET 220

SKAPS TRANSNET™ Geonet consists of SKAPS GeoNet made from HDPE resin.

Property	Test Method	Unit	Required Value	Qualifier
Geonet				
Thickness	ASTM D 5199	mil.	220±20	Range
Carbon Black	ASTM D 4218	%	2 to 3	Range
Tensile Strength	ASTM D 7179	lb/in	45	Minimum
Melt Flow	ASTM D 1238 ³	g/10 min.	1	Maximum
Density	ASTM D 1505	g/cm ³	0.94	Minimum
Transmissivity ¹	ASTM D 4716	m²/sec.	2x10 ⁻³	MARV ²

Notes:

- 1. Transmissivity measured using water at $21 \pm 2^{\circ}\text{C}$ ($70 \pm 4^{\circ}\text{F}$) with a gradient of 0.1 and a confining pressure of 10000 psf between stainless steel plates after 15 minutes. Values may vary between individual labs.
- MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.
- 3. Condition 190/2.16

This information is provided for reference purposes only and is not intended as a warranty or guarantee. SKAPS assumes no liability in connection with the use of this information.



TECHNICAL DATA SHEET

Premium HD Series, 60 mils

Conductive, Smooth

2801 Boul, Marie-Victorin Varennes, Quebec Canada J3X 1P7

Tel: (450) 929-1234 Sales: (450) 929-2544 Toll free in North America:1-800-571-3904 www.Solmax.com www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Imperial	1001688	
SPECIFICATIONS	A DOMESTIC	THE THE P.	7. 7. 75		
Thickness (min. avg.)	ASTM D-5199	Every roll	mils	60.0	
Thickness (min.)	ASTM D-5199	Every roll	mils	54.0	
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0	
Sheet Density (8)	ASTM D-792	Every 10 rolls	g/cc	≥ 0.94	
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.)(6)	ASTM D-3895	Per formulation	min	160	
HPOIT - High Pressure (avg)(6)	ASTM D-5885	Per formulation	min	800	
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls			
Strength at Yield			ppi	132	
Elongation at Yield			%	13	
Strength at Break			ppi	243	
Elongation at Break			%	750	
Tear Resistance (min. avg.)	ASTM D-1004	Every 5 rolls	lbf	42	
Puncture Resistance (min. avg.)	ASTM D-4833	Every 5 rolls	lbf	125	
Dimensional Stability	ASTM D-1204	Certified	%	± 2	
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D-5397	1/Batch	hr	1000	
Multi-Axial Tensile (min. avg.)	ASTM D-5617	Per formulation	%	15	
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation		ł .	
HP OIT (min. avg.)	ASTM D-5885		%	80	
UV Res % retained after 1600 hr	GRI-GM-11	Per formulation		l	
HP-OIT (min. avg.)	ASTM D-5885		%	80	
Volume Resistivity (max.)	ASTM D-4496	Every 10 rolls	Ohm•m	10	
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)					
Roll Dimension - Width	•		ft	22.0	
Roll Dimension - Length	(4)		ft	520	
Area (Surface/Roll)	99.		sf	11440	
Application (10)			<u> </u>	Conductive	

NOTES

- Testing frequency based on standard roll dimension and one batch is approximately 180,000 lbs (or one railcar).
 Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
- 6. Modified. Samples should be taken on the core layer only.
- 6. Modified. Samples should be taken on the core layer only.
 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.
- 10. The conductive layer may cause the carbon black content results to be higher than 3%, specified on the data sheet.
- * 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 responsability of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

Avian Protection Device Specs

MEGABLASTER PRO (MEGA) SPECS

Coverage: Up to 30 acres from single unit

Box dimensions: 32" x 24" x 5" / Shipping weight: 17 lbs
Power Input: 12vDC (3 amps) via solar panel and battery

Sound Pressure: up to 125 decibels

Frequency: 2,000–10,000 Hz
Compliance: UL and CE listed
EPA Est. 075310-OR-001

 Included: Generating unit with two built-in high-output amplifiers, 20-speaker tower with audio cables, 40 watt solar panel, battery clips and all mounting hardware.

Proudly made in the USA