



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

May 6, 2024

Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

SUBJECT: Reclamation Report for the Artesia Metex Unit #006, Eddy County, New Mexico

1.0 Introduction

On behalf of the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (OCD), Souder, Miller and Associates (SMA) has prepared five separate Reclamation Reports that describe the reclamation of land related to oil and gas production activities at the Artesia Metex (AM) Units. The project area consists of five Unit Locations: AM #005, AM #006, AM #017, AM #018, and AM #019, all located on private land approximately 12 miles southeast of Artesia, within Eddy County, New Mexico. All five well locations have been plugged and abandoned, though residual equipment, piping, and debris remain on site.

This Reclamation Report details reclamation activities for AM Unit #006, located in Unit Letter K, Section 24, Township 18S, Range 27E, (32.73009, -104.23312) Eddy County, New Mexico. A summary of the site is detailed in Table 1.

Table 1. Summary of Artesia Metex Unit				
Site Name (Type of Well)	API	Surface Location Latitude, Longitude	Plug and Abandonment Date	Notes (Pre-Reclamation, per OCD)
Artesia Metex Unit #006 (Injection)	30-015-00941	Unit K, S24, T18S, R27E 32.73009, -104.23312	8/31/2018	No pits found, no environmental orders, unvegetated area, cement washout area

2.0 Site Background and Information

Artesia Metex Unit #006 is located approximately 12 miles southeast of Artesia, NM on private land at an elevation of approximately 3,559 feet above mean sea level (amsl). This unit was plugged and abandoned on August 31, 2018.

3.0 Reclamation Activities

Initial site activities included marking the site for a New Mexico One Call (811) and an initial environmental site inspection. Marking for the 811 was conducted on January 1, 2024, with 811 activities commencing in the days

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following. The initial overview of the site indicated that electrical equipment had been found on site, but upon further inspection, the equipment was not connected to power. Additionally, operationally stained soils were not observed; therefore, surface scraping was not required as part of reclamation activities.

NORM Assessment

Following the initial inspection of the site, a Naturally Occurring Radioactive Material (NORM) assessment of the residual petroleum production infrastructure was performed on January 8, and January 9, 2024. This assessment was performed to determine if equipment and flowlines left after the cessation of production measured NORM readings greater than the disposal threshold of 50 microrentgens per hour (mR/hr) (20.3.14.1403 NMAC). The NORM assessment was performed using a Geiger counter with a scintillometer probe. All equipment of similar NORM reading and size, namely already cut cable wire, T-posts, or fencing wire, were marked, and labeled as one. A total of 3 readings were performed at AM Unit #006. None of the equipment exceeded the disposal threshold. The highest exposure rate observed was 2,000 counts per minute (cpm), or 11.43 mR/hr.

All NORM values and equipment locations can be found in the field notes and photographic log in Appendix B. The Geiger counter calibration record is included in Appendix E.

Scrap Metal and Debris Removal

SMA and J&H Services, Inc (J&H) met onsite on February 26, 2024, to begin initial reclamation activities, starting with the collection of scrap metal and debris within the area. The metal piping at AM Unit #006 was removed from site using the backhoe on February 27, 2024, as it was partially buried. Scrap metal was hauled to Sandpoint Landfill for disposal. Sandpoint Landfill is maintained by Eddy County.

Due to the unregulated nature of scrap metal and polyline disposal, Sandpoint Landfill did not provide waste manifests for the scrap metal.

Ripping and Seeding

On March 15, 2024, J&H began ripping the wellpad area and access road for AM Unit #006 in preparation for tilling and seeding. Tilling and seeding of AM Unit #006 and the access road was completed on March 19, 2024. All seeded areas were mulched with straw blankets to promote seed growth by reducing evaporation, weed growth, and erosion. J&H laid straw blankets over the seeded ground on March 20, 2024. Application of the straw blankets to AM Unit #006 and the access road was completed on March 22, 2024. The area of reclamation corresponding to AM Unit #006 totals 34,478 square feet.

Photos of ripping, seeding, and application of the straw blankets are included in Appendix B. The seed mix list can be found in Appendix C.

Aerial Photos Drone Sweep

Along with the NORM assessment, on January 9, 2024, SMA performed a drone sweep of the area to get an aerial image prior to reclamation, as shown in Figure 1. Upon completion of reclamation activities, a second drone sweep was completed on April 3, 2024, to show the completion of reclamation activities. The drone photos provide updated aerial photographs that were used for Figure 2 for post-reclamation of the well pad and access roads.

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4.0 Scope and Limitations

Reclamation activities for AM Unit #006 began on January 1, 2024, and concluded on March 22, 2024. The scope of our services included: environmental assessment; regulatory liaison; reclamation guidance; and preparation of this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas reclamation in the Permian Basin in New Mexico.

This report concludes the reclamation activities at AM Unit #006 under the direction of OCD.

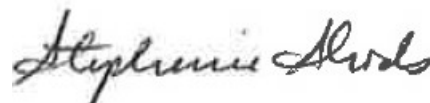
If there are any questions regarding this report, please contact Sarahmay Schlea at (330) 958-5689 or Stephanie Hinds at (505) 793-7079.

Submitted by:
SOUDER, MILLER & ASSOCIATES



Sarahmay Schlea, GIT
Staff Geoscientist

Reviewed by:



Stephanie Hinds, P.E.
Senior Engineer

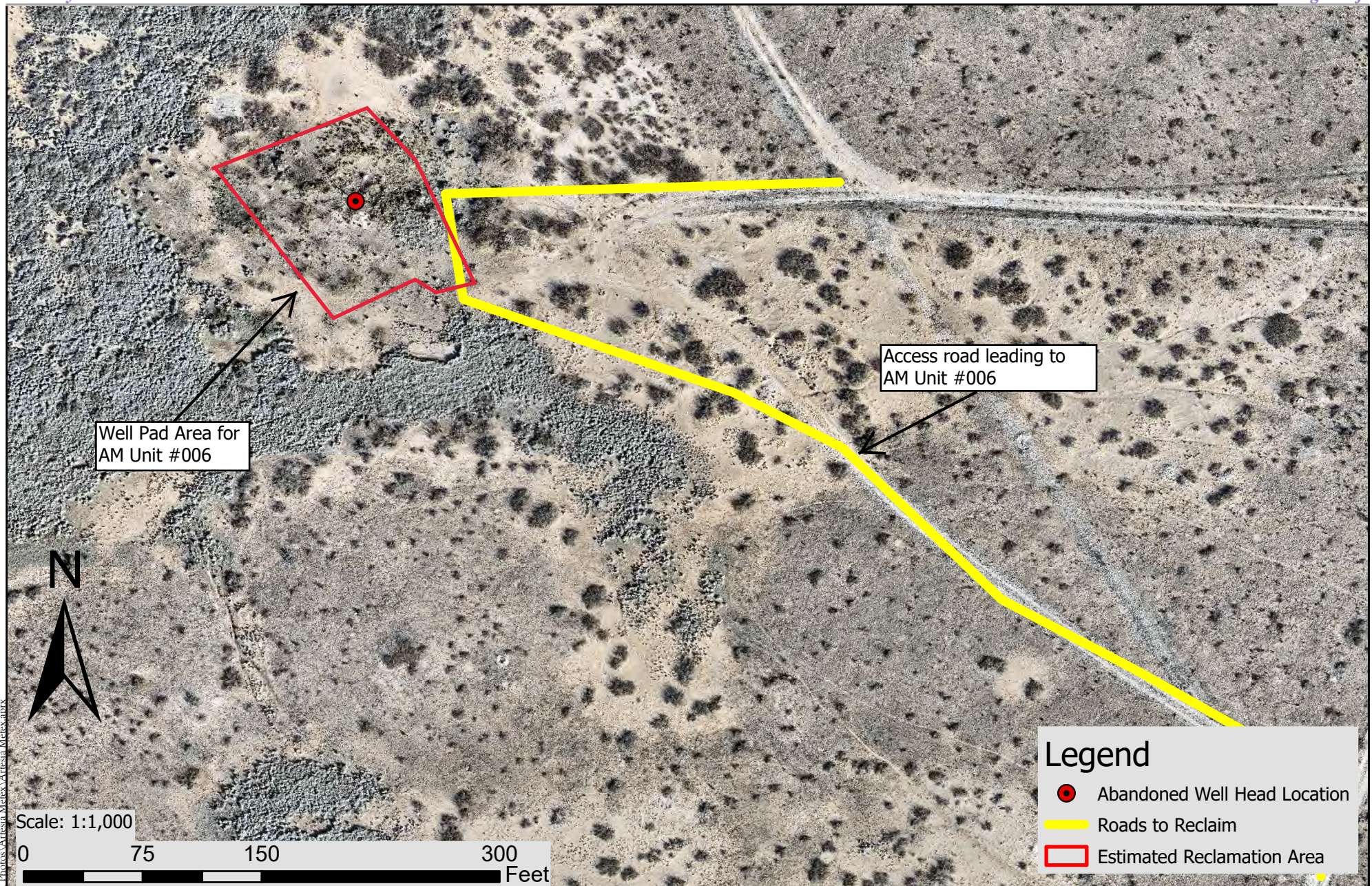
ATTACHMENTS:**Figures:**

- Figure 1: Aerial Site Map Pre-Reclamation
- Figure 2: Aerial Site Map Post-Reclamation
- Figure 3: Aerial Access Roads Map Post-Reclamation

Appendices:

- Appendix A: Correspondence
- Appendix B: Field Notes and Photographic Log
- Appendix C: Seed Mix List
- Appendix D: Waste Manifests
- Appendix E: Geiger Counter Calibration Record

FIGURES



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Site Map

Artesia Metex Unit #006
Reclamation and Reseeding

Figure 1

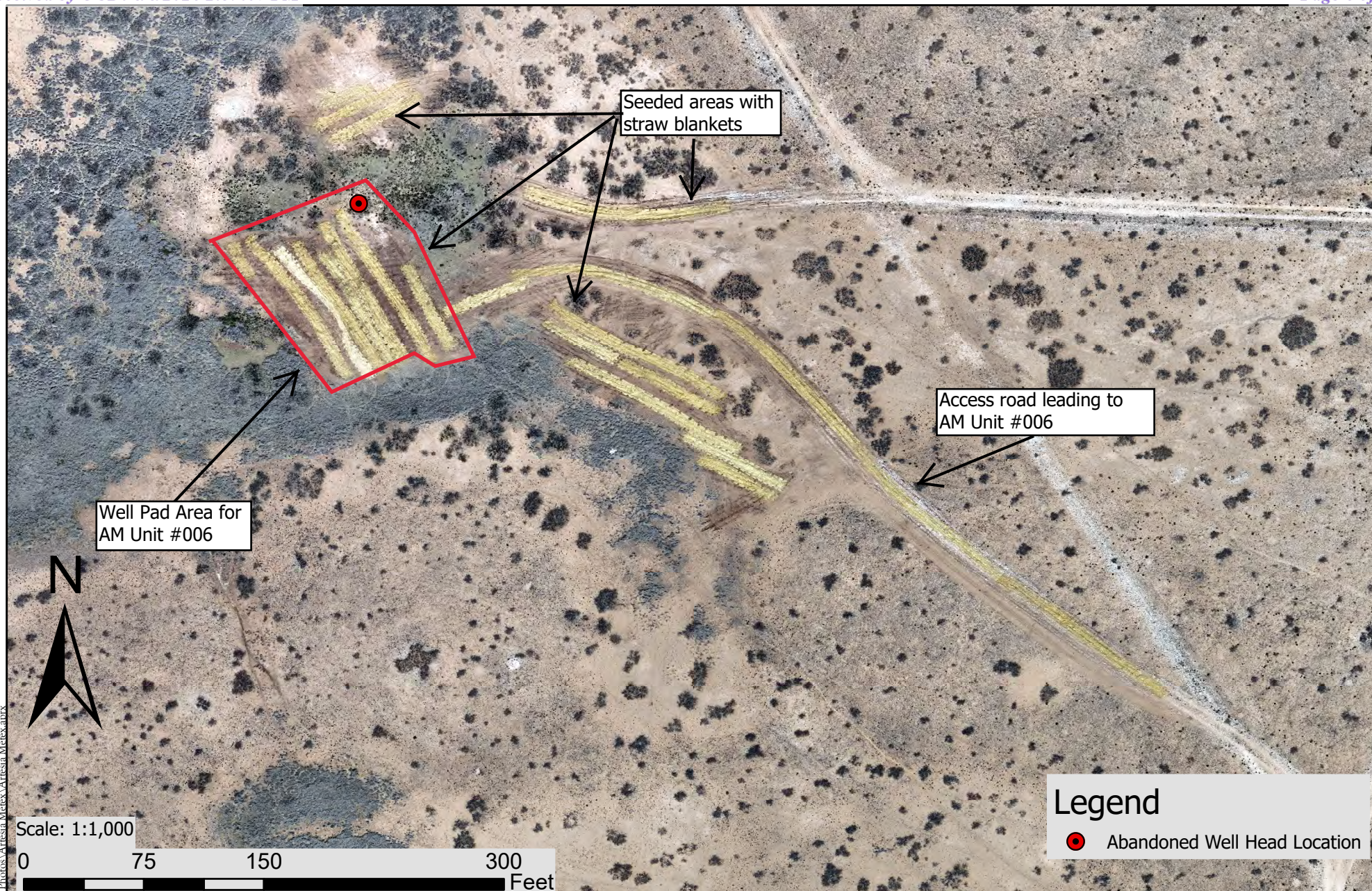
Designed SKS	Drawn SKS	Checked SAH
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Date: 4/19/2024

Scale:

Project No: 5E31796

Sheet:



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Site Map

Artesia Metex Unit #006
and Road Leading to AM 006
Post - Reclamation and Reseeding

Figure 2

Designed SKS	Drawn SKS	Checked SAH
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Date: 4/9/2024

Scale:

Project No: 5E31796

Sheet:

APPENDIX A: CORRESPONDENCE

From: [Maxwell, Ashley, EMNRD](#)
To: [Stephanie Hinds](#)
Cc: [Smith, Cory, EMNRD](#); [Hall, Brittany, EMNRD](#); [Scott McKittrick](#); [Reid Allan](#)
Subject: [EXTERNAL]Artesia Metex Seeding Mix and NORM Surveying
Date: Monday, September 25, 2023 9:29:22 AM
Attachments: [Seed Mix.kmz](#)
[Turkey Track ROW Seed Mix.pdf](#)

Good Morning Steph,

We are working with the Artesia Metex surface owner, Conoco, on the preferred seeding mix. I have attached a KMZ file that details where the preferred seed mix is used. I am also including a pdf file of the preferred seed mix. I will handle the communication with Conoco. If you have any questions for them, please send them to me.

As far as NORM surveying is concerned, we received some additional guidance from NMED. In your report, provide all calibration records for the equipment that you will be using. Include a site map, identifying the equipment surveyed and the corresponding equipment readouts. If the equipment reads in picocuries per minute, also include the conversion for picocuries per hour. Also, include pictures of the equipment surveyed.

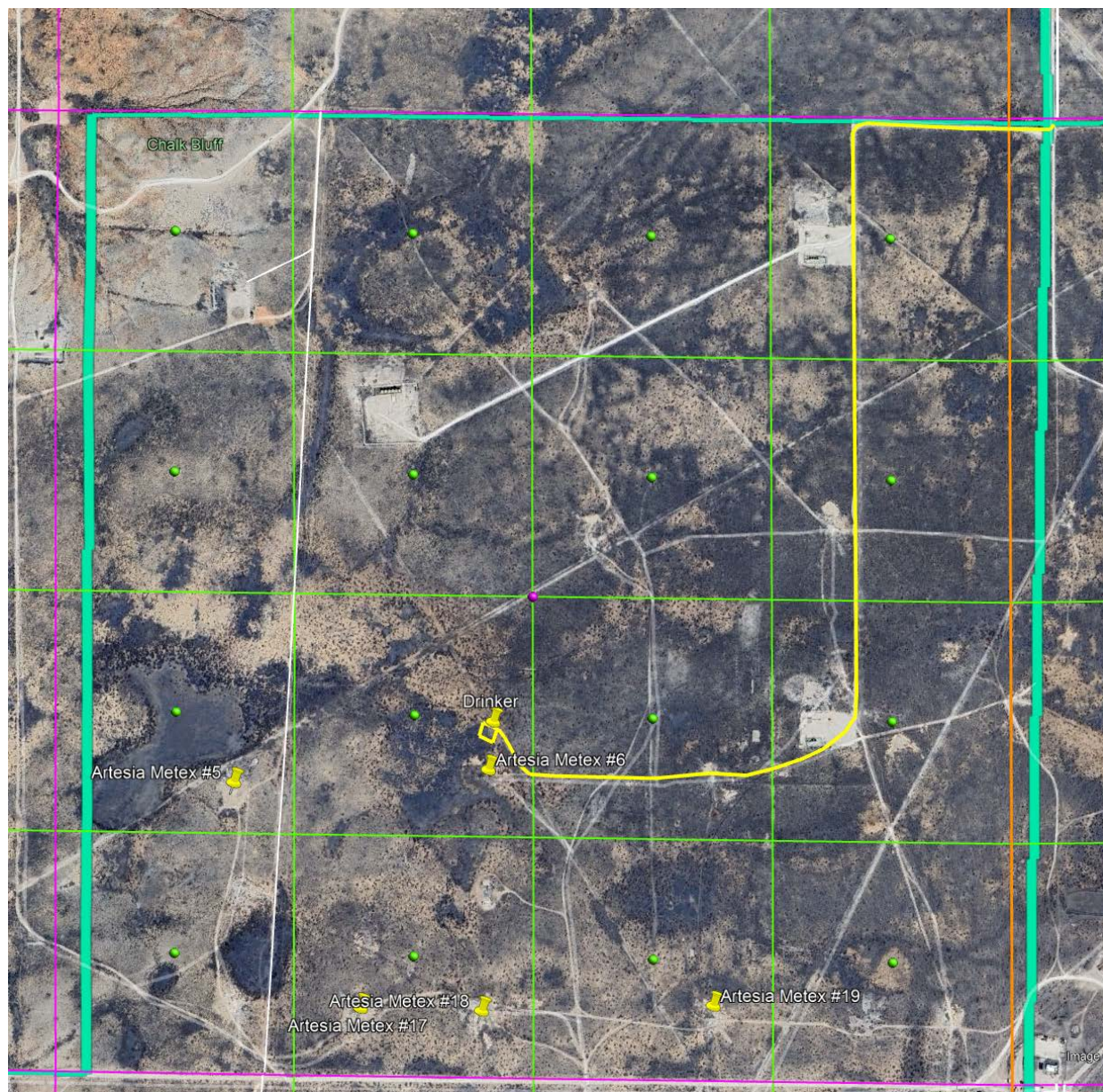
Prior to work starting, let's set up a meeting to establish a timeline and to answer any questions.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Maxwell, Ashley, EMNRD
To: Stephanie Hinds; Reid Allan
Cc: Smith, Cory, EMNRD; Hall, Brittany, EMNRD; Walker, Crystal, EMNRD
Subject: [EXTERNAL]Artesia Metex Land Owner Request
Date: Friday, February 16, 2024 11:54:34 AM
Attachments: image001.png
Importance: High

Steph,

Per the land owner, **DO NOT** disturb the yellow highlighted road below:



Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: [Maxwell, Ashley, EMNRD](#)
To: [Stephanie Hinds](#); [Reid Allan](#)
Subject: FW: [EXTERNAL] Google Earth Placemark: Seed Mix.kmz
Date: Friday, February 16, 2024 11:53:41 AM
Attachments: [Needed ROAD.kmz](#)

Steph, please see the email below from Brian Hall. Keep a copy of this email on site for your records. I am following up with a their request regarding the Drinker road.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Hall, Brian <Brian.Hall@conocophillips.com>
Sent: Friday, February 16, 2024 11:46 AM
To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>
Cc: Sitka, Brooks <Brooks.Sitka@conocophillips.com>; Jonnes, Ryan <Ryan.Jonnes@conocophillips.com>; Sellers, Joshua E <Joshua.E.Sellers@conocophillips.com>; Valdez, Dani <Dani.Valdez@conocophillips.com>; Wood, Jesse <Jesse.Wood@conocophillips.com>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Google Earth Placemark: Seed Mix.kmz

Cory-

We have a drinker just north of the AM#6. We are requesting that the drinker is not disturbed and the road outlined in the attached .kmz remains in place.

Outside of that, you have permission to start the reclamation process.

Regards,

Brian Hall, MBA, CPL | Senior Surface Land Negotiator | Permian Non-OP Surface Land |
ConocoPhillips

C: 432-638-8932 | **O:** 432-688-6913 | 600 W. Illinois Ave, 1CC-934, Midland, Texas 79701

APPENDIX B: FIELD NOTES AND PHOTOGRAPHIC LOG

SUBJECT NORM SWEEP

PROJECT Artesia Muter

PAGE 1 of 1

CLIENT NMOC.

DATE 01/08/24

BY SS

CHECKED

BY

General field notes:

Weather: lii ~46, high winds ~ 30-40 mph; ^{high} wind warning
Erin arrived onsite @ Artesia Muter Unit #005 @ ~0900
Sarahman arrived onsite @ ~0915.

Gathered equipment; PID x2, 4-gas monitor x2, geiger counter, gps.

watched a brief video on how to work the geiger counter & ran a quick test to ensure proper functioning.

signed ~~some~~ HASP & JHA/JSA and began work @ ~1000.

Geiger Counter: model 3 serial # 83222

~~some~~ → w/ high winds, we could not reasonably ~~fly~~ fly the drone, will try again tomorrow.

no readings on geiger counter above 2500 cpm (~14.29 μ R/hr)
→ counter was set @ x1 scale.

ran a quick test w/ the drone's software to see general length of time it would take to fly the area under optimal conditions.

left site @ ~1135

SUBJECT Reclamation

PROJECT Artesia Nitex

PAGE 1

CLIENT NMOC

DATE Feb 26, 2024

BY SS

CHECKED

BY

SMA arrived on site at unit #005 @ 0805

→ set up law posters and got JSA & HASP ready for signing
J&H onsite @ ~0825

had everyone sign the HASP and JSA (paper) @ 0830

talked over general plan for removing any contaminated soil and polyline/piping.
plus gave an overview of which roads to reclaim.

@ ~0850 J&H began collecting scrap metal and loading in the back of their pickup.

once they collected all the equipment from unit #005 they began a surface scrape of the gravel and concrete washout.

→ revealed some ~~soil~~ staining in which Zach w/ J&H suggested it might be asphaltene (?) or rust from the metal

as the removal of polyline commences, and once they are able to get dirt haulers out here, we will have them scrape a little more off the surface, not to exceed 6 in, to try and remove that staining.

after completing the surface scraping @ unit #005, we moved to unit #017 arriving @ 0945 and repeated the process.

~~continuing to~~ continuing to #013 and #019 @ 1115 and 1215 respectively.

@ ~1355 the operator & spotter took their pickup truck w/ the scrap metal in it to the County landfill to dispose of.

→ they returned @ ~1510 for a second load

Steph arrived onsite @ ~1415

Everyone offsite @ 1540.

SUBJECT Artesia Metex - Field Notes

PROJECT

PAGE

CLIENT NMOC

DATE 2/27/2024

BY SH

CHECKED

BY

2/27/2024

0800 - SMA arrived onsite. At Unit 19.

0805 - J+H onsite.

Reviewed the day's scope and safety items. Signed JSA.

0815 - J+H sets up at Unit 19. WM surface scrape a bit more.
Stained areas have definite oil odor. Not super strong though.0925 - J+H (Zach) heading to pick up / pull ^{metal cables} ~~polyline~~ from middle of field.
Cable is long. Crew pulled cable towards road. Trying to figure out how to cut without fraying and potential to impact face.

1010 - J+H crew off to town to pick up safety masks / shields to safely cut cable.

1015 - Steph + Zach to Unit 006 to see what is there.

1100 - Back at Unit 9. J+H starting to cut ^{short} polylines into 3 ft sections.

1130 - Finished cutting

1200 - J+H crew back from town. Marking poly lines every 3 ft. Too windy to scrape soil.

1330 - At Unit 6, picking up ~~barred~~ partially barred piping w/ tractor

1400 - At Unit 19, picking up cut polyline.

1415 - Offsite. J+H also off site.

0800 - SMA arrived on site

0805 - JSA reviewed safety measures and ~~for~~ scope of work
Signed JSA.

0830 - waiting for vac truck adapter to flush flow lines

0900 - Second vac truck showed up

0930 - Steph on site

1100 - Started pump out on flow line

SUBJECT Artesa Metex - Field Work

PROJECT

PAGE

CLIENT NMOC

DATE 2/28/2024

BY

CHECKED

BY

11:00 - Georgetown offsite.

J+H prepping for flushing polyline, starting with long one from Unit 19 to Unit 5. Approximately 50 barrels of fresh water pumped through. Approximately ~~400~~ 60 bbls of petroleum liquid coming from poly line. ^{to flush water}
So total of about 10 bbls of petroleum liquid was in the line.

12:00 - Finished flushing line. Began cutting poly into 3-ft sections.

13:00 - Move over to Unit 18 and pulled polyline to that pad area.

15:25 - Begin cutting the multiple polylines into 3-ft sections. Will come back tomorrow with generator and extra cutting tools.

16:00 - Offsite. J+H offsite too.

0800 On site
0800 Signed JSA
0820 Cutting pipe
0845 Break to warm up
0930 J+J brought trash trailers to haul off pipe
1000 Back to cutting pipe and loading into trash bin
1215 lunch break
1240 Back to work cutting pipe
1500 left site

32°degrees
Cloudy/wet

Artesia Metex - NMOCB March 1, 2024

Field Notes:SMA onsite @ ~~0755~~ @ unit # 018

JSA @ 0800

J+H onsite @ 0700 w/ 2 hacksaws and began work on cutting the poly line

when SMA arrived onsite J+H had ~80% of the poly line cut but still has some metal pipe all over the units that needed to be collected & cut.

→ J+H is going to split cut poly between two trash trailers for weight

Completed cutting poly @ 0330

Started loading poly into trash trailers @ 0840

Miguel w/ J+H arrived onsite @ 0900

→ signed JSA

→ gave me more of a game plan

* J+H will finish loading poly in trash trailers and then scrape in areas where there was liquid release after poly flushing & cutting.

They will then work on gathering all of the spoil piles to one location to the belly with haul to travel to all 4 locations w/ piles.

once that is complete (which is their #1 priority because they will be hauling it off on Monday) they will then gather any metal piping and begin cutting that.

@ 0945 They began moving dirt piles & scraping dirty areas

SMA left site @ 1100

0800 - Arrived on site Filled out JSA

0815 - Signed JSA with J+H

0830 - J+H had piled Contaminated Soil onto ^{Unit} D18 From all units

1000 - Semi brought one load of top soil

1030 - Semi hauled one load of ~~top soil~~ Contaminated Soil. Miguel ~~and~~ estimated 40yds (2 loads) hauled out

1200 - lunch - Semi had a blow out ~~address~~

300 - Continued to scrap the rest of the day.

- Going to continue hauling in the morning.

3-5-2024

- Miguel - Hauled in' 20 yds hauled out 40 yds

3-6-2024

- dozer arrived on site First thing.

1200 - Started ripping ~~prod~~ unit 005

~~3-6-2024~~

- NO Contamination observed on any unit

3-11-2024

J+H OFF back to work on 3-12-24

- 1030 - Filled out JSA
- J+H Crew Signed JSA
- When I Arrived guys were working on unit 018 'Ripping'
- Unit 005, Access road to unit ~~017~~ 017, Unit 017, Access road to Unit 018 were complete.

- 1300 - Started Ripping Unit 019.

3-13-24

- J+H Continued Ripping Unit 019. And plan to do Access road in the morning

3-14-24

- 1100 Arrived on site Filled out JSA J+H signed JSA
- 1130 J+H were Ripping access roads from unit 019.
- 1200 Walked around Unit 019 and observed darker colored soil was ripped up with the dozer. It also contained a smell.
- 1215 Notified Steph of findings
- J+H notified as well as OCD
- 1300 Miguel and I walked ~~past~~ unit 006 made a plan to only rip bare spots. Miguel said we may rip up more Contamination due to reserve pad.
- As for now no contamination has been ~~observed~~ observed.

- J+H are moving equipment for seeding in.
- J+H are moving equipment out that is no longer needed
- Bringing in straw rolls to unit sites.

3-19-24

- J+H started seeding and finished up Unit 006 and unit 08 plus access roads.

3-20-24

- J+H finished seeding all units and access roads @ noon and started laying straw.

NORM SCREENING FORM

[illegible]

Conversion rate: 175 cpm per $\mu\text{R/hr}$. Example: If instrument reading was 2000 cpm, then $2000/175 = 11.43 \mu\text{R/hr}$.

NORM disposal threshold = 50 μ R/hr. If exceeds, then notify SMA project manager/safety officer/OCD.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #1	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 01.09.2024	
Equipment Location: 32.729302N -104.234012W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Unit #006 debris, metal cable, NORM = 2000 cpm.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #2	A photograph showing a section of metal piping, likely a well casing, lying on the ground in a desert environment. The piping is rusted and has a yellow tag attached to it. The ground is dry, rocky, and covered with sparse, low-lying vegetation. A scale bar at the top of the image shows distances from 90 to 180 feet. Below the scale bar, location data is displayed: 135°SE (T), 32.730146°N, 104.233067°W, ±7837ft, and an elevation of 3563ft. A green timestamp in the bottom right corner of the photo reads '01/09/2024 12:19:33 MST'.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 01.09.2024	
Equipment Location: 32.730146N -104.233067W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Unit #006 debris, metal piping, NORM = 1800 cpm.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #3	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 01.09.2024	
Equipment Location: 32.730652N -104.233221W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Sarahmay Schlea	Description: Unit #006 debris, fencing and T-posts, NORM = 1600 cpm.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #4	A wide-angle photograph of a flat, arid landscape under a clear blue sky. The ground is dry and sandy with sparse, low-lying green and brown shrubs. In the distance, a line of wind turbines is visible on the horizon. The photo is overlaid with a compass and data at the top and a unit identifier and timestamp at the bottom right.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.12.2024	
Release Location: 32.729961N -104.232842W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation (ripping, discing, and seeding). Photo shows spots of minimal vegetation.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #5	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.12.2024	
Release Location: 32.730024N -104.232986W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation. No operational staining observed.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #6	A wide-angle photograph of a dry, open landscape with sparse, low-lying shrubs and grasses on a sandy, brownish soil. In the far distance, a line of wind turbines is visible against a clear blue sky. The photograph is overlaid with a compass rose at the top and a timestamp in the bottom right corner.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.12.2024	
Release Location: 32.730029N -104.232998W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #7	W 270 300 NW 330 N 0 30 NE 60 ☀ 351°N (T) • 32.730034, -104.233005 ±3m ▲ 1072m Unit 006 12 Mar 2024, 12:46:25 PM
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.12.2024	
Release Location: 32.730034N -104.233005W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #8	A photograph of a desert landscape with sparse green and brown shrubs on sandy soil. A wooden post with a small roof is visible in the center. The photo is overlaid with a blue header bar containing directional markers (SW, W, NW, N) and a scale (240, 270, 300, 330, 0, 30). Below the header, white text reads: '309°NW (T) • 32.730043, -104.233014 ±9m ▲ 1072m'. In the bottom right corner, white text reads: 'Unit 006' and '12 Mar 2024, 12:46:31 PM'.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.112.2024	
Release Location: 32.730043N -104.233014W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #9	A wide-angle photograph of a flat, arid landscape under a clear blue sky. The ground is covered with sparse, dry, yellowish-brown grass and small, dark, scrubby bushes. In the distance, a flat horizon line separates the land from the sky. A compass overlay at the top of the photo shows a scale from 150 to 300 degrees, with 'S' at 180, 'SW' at 225, 'W' at 270, and 'NW' at 315. A green vertical line is positioned at approximately 230 degrees. Below the scale, a text overlay reads: '☼ 230°SW (T) • 32.730026, -104.232976 ±3m ▲ 1072m'. In the bottom right corner of the photo, white text reads: 'Unit 006' and '12 Mar 2024, 12:46:39 PM'.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.12.2024	
Release Location: 32.730026N -104.232976W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 before surface reclamation.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #10	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.20.2024	
Release Location: 32.729229N -104.23168W S: 24 T: 18S R: 27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Access road to Unit #006, ripping and seeding complete.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #11	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.20.2024	
Release Location: 32.729228N -104.231681W S:24 T:18S R:27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Access road to Unit #006, ripping and seeding complete.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #12	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.20.2024	
Release Location: 32.729574N -104.232206W S:24 T:18S R:27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Description: Unit #006 pad, ripping and seeding complete.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #13	
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.24.2024	
Release Location: 32.729574N -104.232206W S:24 T:18S R:27E Eddy County, New Mexico	
Photo Taken by: Miguel Ramirez	Description: Access road to Unit #006, seeding complete and straw blankets being applied.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #14	 A wide-angle photograph showing a dirt access road in a flat, arid landscape. The road is reddish-brown and has visible tire tracks. To the right of the road, a large area of land is covered with yellow straw blankets, which are being applied to the soil. The background shows a flat horizon under a bright blue sky with scattered white clouds. In the distance, some small structures and possibly wind turbines are visible on the horizon.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 03.24.2024	
Release Location: 32.729574N -104.232206W S:24 T:18S R:27E Eddy County, New Mexico	
Photo Taken by: Miguel Ramirez	Description: Access road to Unit #006, seeding complete and straw blankets being applied.

Photograph Log**SITE: Artesia Metex Unit #006****CLIENT: New Mexico OCD**

Photograph #15	The photograph shows a wide, flat landscape under a clear blue sky. The foreground is covered in dry, yellowish-brown grass and patches of bare soil. In the distance, a line of wind turbines is visible on the horizon. A compass overlay at the top of the image shows cardinal directions (SW, W, NW, N) and degree markings (210, 240, 270, 300, 330, 0). Below the compass, the coordinates and elevation are displayed: 295°W (T), 32.729847, -104.232611 ±3m, and 1065m.
Client: New Mexico OCD	
Site Name: Artesia Metex Unit #006	
Date Photo Taken: 04.07.2024	
Release Location: 32.729847N -104.232611W S:24 T:18S R:27E Eddy County, New Mexico	
Photo Taken by: Georgeann Goodman	Unit 006 07 Apr 2024, 3:30:32 PM Description: Unit #006, seeding and straw blanket application complete.

APPENDIX C: SEED MIX LIST

Worksheet for Determining Seeding Rates and Amounts

Client: Turkey Track
 Planned by: RSJ

Field Office: Artesia W
 Date: 10/30/2020

Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
1	1.0	Grama, Blue (Native)	10.0 Pls lb	40%	4.0 Pls lb	4.0 Pls lb
		Dropseed, Sand	1.0 Pls lb	10%	0.1 Pls lb	0.1 Pls lb
		Bluestem, Cane	6.0 Pls lb	5%	0.3 Pls lb	0.3 Pls lb
		Grama, Sideoats (Haskell)	4.5 Pls lb	40%	1.8 Pls lb	1.8 Pls lb
		Plains Bristlegrass, Native	3.0 Pls lb	15%	0.5 Pls lb	0.5 Pls lb
		Total		110%	6.7	6.7
Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
2	1.0	Bluestem, Sand (Woodward)	5.0 Pls lb	20%	1.0 Pls lb	1.0 Pls lb
		Bluestem, Little (Native)	3.4 Pls lb	30%	1.0 Pls lb	1.0 Pls lb
		Plains Bristlegrass, Native	5.0 Pls lb	20%	1.0 Pls lb	1.0 Pls lb
		Dropseed, Sand	1.0 Pls lb	10%	0.1 Pls lb	0.1 Pls lb
		Grama, Blue (Native)	10.0 Pls lb	20%	2.0 Pls lb	2.0 Pls lb
		Bluestem, Cane	6.0 Pls lb	5%	0.3 Pls lb	0.3 Pls lb
		Grama, Sideoats (Haskell)	4.5 Pls lb	10%	0.5 Pls lb	0.5 Pls lb
		Total		115%	5.9	5.9
Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
3	1.0	Grama, Sideoats (Haskell)	4.5 Pls lb	40%	1.8 Pls lb	1.8 Pls lb
		Bluestem, Little (Native)	3.4 Pls lb	25%	0.9 Pls lb	0.9 Pls lb
		Grama, Blue (Native)	10.0 Pls lb	40%	4.0 Pls lb	4.0 Pls lb
		Dropseed, Sand	1.0 Pls lb	10%	0.1 Pls lb	0.1 Pls lb
		Bluestem, Cane	6.0 Pls lb	5%	0.3 Pls lb	0.3 Pls lb
		Total		120%	7.1	7.1
Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
4	1.0	Sacaton, Alkali	1.0 Pls lb	50%	0.5 Pls lb	0.5 Pls lb
		Saltbush, Fourwing	5.0 Pls lb	40%	2.0 Pls lb	2.0 Pls lb
		Grama, Sideoats (Haskell)	4.5 Pls lb	10%	0.5 Pls lb	0.5 Pls lb

Artesia Metex seed mix

Total				100%	3.0	3.0
Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
5	1.0	Sacaton, Alkali	1.0 Pls lb	40%	0.4 Pls lb	0.4 Pls lb
		Saltbush, Fourwing	5.0 Pls lb	15%	0.8 Pls lb	0.8 Pls lb
		Grama, Sideoats (Haskell)	4.5 Pls lb	50%	2.3 Pls lb	2.3 Pls lb
Total				105%	3.4	3.4
Field No.	Acres to be Planted	Species	Planting Rate per Acre	% of Mix	Amount Required per Acre	Total Amount Required
Total						

APPENDIX D: WASTE MANIFESTS, DISPOSAL RECORDS



Waste manifests indicates all operationally stained soil was removed from AM Unit #019. Operationally stained soil was stockpiled from all units onto AM Unit #018, and was removed from AM Unit #018

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 201875	Trailer No. J&H SERVICES 682	
GENERATOR	Company Name: J & H Services		Address: 6616 Gulton Ct NE #190 Albuquerque, NM 87109	
	Phone: 505-896-9428		Disposal Date: 03-04-2024 12:06 PM	
	Name Or Description Of Waste Shipped:			
	☒ RCRA Exempt ☐ RCRA Non-Exempt			
	Weight (lbs): 35780, 36140 TA 71920			
TRANSPORTER	Lease/Job Name: ARTESIA METEX UNIT #19			
	Generator's Representative: Zach Conder			
	Name: J&H Services, Inc.			
	Emergency Contact:			
	Emergency Contact Phone:			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): Raul R Cardenas			
	Signature (Firma): X [Signature] Date: 03-04-2024 12:06 PM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		Comments:	
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: [Signature]		Unit No: IIA	Date: 03-04-2024	Time: 12:06 PM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

**LEA LAND, LLC SURFACE WASTE LANDFILL**

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 201902	Trailer No. J&H 682		
GENERATOR	Company Name: J & H Services		Address: 6616 Gulton Ct NE #190 Albuquerque, NM 87109		Disposal Date: 03-05-2024 09:22 AM
	Phone: 505-896-9428				
	Name Or Description Of Waste Shipped:				
	☒ RCRA Exempt ☐ RCRA Non-Exempt				
	Weight (lbs): 42540, 43160, 43740 Total 129440				
TRANSPORTER	Lease/Job Name: ARTISIA METEX UNIT # 19				
	Generator's Representative: Zach Conder				
	Name: J&H Services, Inc.				
	Emergency Contact:				
	Emergency Contact Phone:				
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material				
	Printed/Typed Name (Impreso/Mecanografico): <u>Raul R Cardenas</u>				
	Signature (Firma): <u>[Signature]</u> Date: 03-05-2024 09:22 AM				
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico		Comments:		
DISPOSAL FACILITY	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u>[Signature]</u>		Unit No: IIA	Date: 03-05-2024	Time: 09:22 AM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

APPENDIX E: GEIGER COUNTER CALIBRATION RECORD

Scientific and Industrial
Instruments

www.ludlums.com

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.

501 Oak Street

325-235-5494

Sweetwater, TX 79556, U.S.A.



CERT # 4084.01

Customer JAKD SOLUTIONS LLCORDER NO. 20456634/547544Mfg. Ludlum Measurements, Inc. Model 3Serial No. 83222Mfg. Ludlum Measurements, Inc. Model 44-2Serial No. PR3S4334Cal. Date 24-Oct-23 Cal Due Date 24-Oct-24 Cal. Interval 1 Year Meterface 202-002Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 72 °F RH 43 % Alt 702.3 mm Hg☐ New Instrument ☐ Instrument Received ☒ Within Toler. +/-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments☒ Mechanical ck.☒ Meter Zeroed☐ Background Subtract☒ Input Sens. Linearity☒ F/S Resp. ck☒ Reset ck.☒ Window Operation☒ Geotropism☒ Audio ck.☐ Alarm Setting ck.☒ Batt. ck.☒ Calibrated in accordance with LMI SOP 14.8☐ Calibrated in accordance with LMI SOP 14.9Instrument Volt Set 750 V Input Sens. 26 mV Det. Oper. 750 V at 26 mV Threshold = mV☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

Cs-137 ~ 0.5 µCi check source SN N/A reads ~ 700 cpm (70 kcpm @ x100) with flat end of 44-2 placed on the label side of the check source.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

Multimeter uncertainty within 1.3% of reading, Gamma uncertainty within 3.0% of reading, Neutron uncertainty within 7.0% of reading, Count rate uncertainty within 5.4% of reading

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING
X 100	400K cpm	4 1k cpm	4 1k cpm
X 100	100K cpm	4	4
X 10	40K cpm	4	4
X 10	10K cpm	4	4
X 1	4K cpm	4	4
X 1	1K cpm	4	4
X 0.1	400 cpm	4	4
X 0.1	100 cpm	4	4

ALL Range(s) Calibrated Electronically

Digital	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING	Log	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Readout				Scale			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. All pass/fail determinations are based on the manufacturer's specifications without considering uncertainty factors. Measurement results represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k=2. The calibration system conforms to the requirements of ANSI/NCCL Z540-1-1994 and ANSI N323AB-2013.

ISO/IEC 17025:2017(E)
State of Texas Calibration License No. LO-1963Reference Instruments and/or Sources: Cs-137 S/N: ☐ 059 ☐ 2171CP ☐ 2261CP ☐ 720 ☐ 734 ☐ 781 ☐ 1131 ☐ 1616 ☐ 1696 ☐ 1909 ☐ 1916CP ☐ 2324/2521
☐ 5717CO ☐ 5719CO ☐ 60646 ☐ 70897 ☐ 73410 ☐ E552 ☐ G112 ☐ 2168CP ☐ S-394 ☐ S-1054 ☐ T10081 ☐ T10082 Neutron Am-241 Be ☐ T-304 Ra-226 ☐ Y982
☐ E551 ☐ 5105 ☐ CSV280☐ Alpha S/N ☐ Beta S/N ☐ Other ☒ m 500 S/N 189509 ☐ Oscilloscope S/N ☒ Multimeter S/N 50970100Calibrator Heather Crain Title Calibrator Date 24-Oct-23QC'd By Rudolph Title Final QC Date 25 Oct 23This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
FORM C22A 01/07/2020 Page 1 of 2AC Inst. ☐ Passed Dielectric (Hi-Pot) and Continuity Test
Only ☐ Failed:

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

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

CONDITIONS

Action 351689

CONDITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 351689
	Action Type: [IM-SD] Well File Support Doc (ENV) (IM-BWF)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	6/6/2024