

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

## Recycling Facility and/or Recycling Containment

**Type of Facility:**  Recycling Facility  Recycling Containment\*

**Type of action:**  Permit  Registration  
 Modification  Extension  
 Closure  Other (explain) \_\_\_\_\_

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

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

1.

Operator: Coterra Energy Operating Co. (For multiple operators attach page with information) OGRID #: 215099  
 Address: 6001 Deauville Blvd, Ste 300N Midland, TX 79706

Facility or well name (include API# if associated with a well): Tatanka North AST Containment

OCD Permit Number: fVV/23024366081RF-502 (For new facilities the permit number will be assigned by the district office)

U/L or Qtr/Qtr N Section 35 Township 25S Range 35E County: Lea

Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.

**Recycling Facility:**

Location of recycling facility (if applicable): Latitude 32.08238 Longitude -103.33993 NAD83

Proposed Use:  Drilling\*  Completion\*  Production\*  Plugging \*

*\*The re-use of produced water may NOT be used until fresh water zones are cased and cemented*

Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.

Fluid Storage

Above ground tanks  Recycling containment  Activity permitted under 19.15.17 NMAC explain type \_\_\_\_\_  
 Activity permitted under 19.15.36 NMAC explain type: \_\_\_\_\_  Other explain \_\_\_\_\_  
 For multiple or additional recycling containments, attach design and location information of each containment

**Closure Report (required within 60 days of closure completion):**  Recycling Facility Closure Completion Date: 12/1/2025

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 32.08238 Longitude -103.33993 NAD83

For multiple or additional recycling containments, attach design and location information of each containment

Lined  Liner type: Thickness 40 & 30 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_

String-Reinforced

Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 60,000 bbl Dimensions: L\_\_\_\_\_ x W\_\_\_\_\_ x D\_\_\_\_\_

Recycling Containment Closure Completion Date: 12/1/2025

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 See Variance

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.*

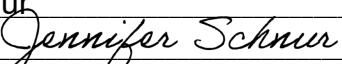
- Design Plan - based upon the appropriate requirements.
- Operating and Maintenance Plan - based upon the appropriate requirements.
- Closure Plan - based upon the appropriate requirements.
- Site Specific Groundwater Data -
- Siting Criteria Compliance Demonstrations -
- Certify that notice of the 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): Jennifer Schnur Title: Regulatory Analyst

Signature:  Date: 1/7/2026

e-mail address: Jennifer.Schnur@coterra.com Telephone: (432)620-1695

11. **OCD Representative Signature:** Victoria Venegas**Approval Date:** 01/14/2026

Title: Environmental Specialist

**OCD Permit Number:** 1RF-502

OCD Conditions

Additional OCD Conditions on Attachment

**Site Map**

Coterra Energy Operating

**Legend**

★ Composite Sample

● FVV2302436608 - TATANKA NORTH AST CONTAINMENT



**Nearest Water Well**

Coterra Energy Operating

**Legend**

- 0.50 Mile Radius
- 0.68 Miles
- 1.07 Miles
- FW2302436608 - TATANKA NORTH AST CONTAINMENT
- Groundwater Determination Bore
- NMSEO Water Well

220' - Drilled 2017

FW2302436608 - TATANKA NORTH AST CONTAINMENT

105' GWDB - Drilled 2022

Legend

- FW2302436608 - TATANKA NORTH AST CONTAINMENT
- Low

FW2302436608 - TATANKA NORTH AST CONTAINMENT



# Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column	
<a href="#">CP 01305 POD1</a>		CP	LE		NW	SE	31	25S	37E	655627.9	3551065.4	●	1084	420	230	190	
<a href="#">C 04861 POD1</a>		CUB	LE		NW	NW	NE	27	25S	35E	655298.4	3553583.4	●	3128	105		
<a href="#">CP 01170 POD1</a>		CP	LE		SW	SW	SW	06	26S	36E	659281.6	3548984.5	●	3163	500	280	220
<a href="#">CP 01170 POD1</a>	C	CP	LE		SW	SW	SW	06	26S	36E	659281.6	3548984.5	●	3163	500	280	220
<a href="#">CP 01263 POD3</a>		CP	LE		SE	NW	SW	06	26S	36E	660038.4	3549729.4	●	3524	516	240	276
<a href="#">C 05017 POD1</a>		CUB	LE		SW	SW	SE	24	25S	35E	658391.2	3553861.5	●	3535	105		
<a href="#">L 15939 POD1</a>		L	LE		SE	SE	SE	11	26S	35E	657579.5	3547273.1	●	3615	105		
<a href="#">CP 01920 POD1</a>		CP	LE		SE	SW	SE	31	25S	36E	660281.8	3550531.1	●	3618	101		
<a href="#">CP 01267 POD1</a>		CP	LE		SW	SE	SW	06	26S	36E	659759.1	3548807.1	●	3659	585	200	385

Average Depth to Water: **246 feet**

Minimum Depth: **200 feet**

Maximum Depth: **280 feet**

## Record Count: 9

### UTM Filters (in meters):

**Easting:** 656671.75

**Northing:** 3550772.67

**Radius:** 4000

\* UTM location was derived from PLSS - see Help

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



## WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

**Alert!** Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology [geoinfo.nmt.edu/resources/water/cgmn/](http://geoinfo.nmt.edu/resources/water/cgmn/) if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email [nmbg-waterlevels@nmt.edu](mailto:nmbg-waterlevels@nmt.edu), prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

**I. FILING FEE:** There is no filing fee for this form.

**II. GENERAL / WELL OWNERSHIP:**  Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: To be assigned C-4713-POD1

Name of well owner: Solaris Water Midstream

Mailing address: 3305 Boyd Drive County: \_\_\_\_\_

City: Carlsbad State: NM Zip code: 88220

Phone number: 469-978-5620 E-mail: rob.kirk@ariswater.com

### **III. WELL DRILLER INFORMATION:**

Well Driller contracted to provide plugging services: Jason Maley with Vision Resources

New Mexico Well Driller License No.: WD-1690 Expiration Date: 10/07/2023

**IV. WELL INFORMATION:**  Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 05 min, 02.19 sec  
Longitude: 103 deg, 19 min, 20.28 sec, NAD 83

2) Reason(s) for plugging well(s):

*OSE DIT NOV 15 2022 2:52*

The test boring will be drilled to evaluate for the absence or presence of groundwater less than 105-ft at salt water spill location.

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no, dry If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: no water feet below land surface / feet above land surface (circle one)

6) Depth of the well: 106 feet

7) Inside diameter of innermost casing: no casing inches.

8) Casing material: no casing

9) The well was constructed with:  
 an open-hole production interval, state the open interval: no water, test boring only, open 0 to TD  
 a well screen or perforated pipe, state the screened interval(s): no water, no well constructed

10) What annular interval surrounding the artesian casing of this well is cement-grouted? no casing or gravel pack

11) Was the well built with surface casing? no well If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? no seal If yes, please describe:  
open 6.25-inch boring

12) Has all pumping equipment and associated piping been removed from the well? none installed If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

**V. DESCRIPTION OF PLANNED WELL PLUGGING:**  If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:  
Well to be plugged with bentonite chips. Hydrate at 5-gallons per sack. Bentonite and water added in lifts. Bentonite below 20-ft to total depth will be tremied in.

2) Will well head be cut-off below land surface after plugging? no well head

**VI. PLUGGING AND SEALING MATERIALS:**

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 22.4-cubic feed

4) Type of Cement proposed: no cement

5) Proposed cement grout mix: no slurry gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: na batch-mixed and delivered to the site  
na mixed on site

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7) Grout additives requested, and percent by dry weight relative to cement:  
Grout not planned

8) Additional notes and calculations:

**VII. ADDITIONAL INFORMATION:** List additional information below, or on separate sheet(s):

Boring to be drilled as a test boring to 106-ft, will add bentonite chips and water in lifts to abandon

**VIII. SIGNATURE:**

I, Rob Kirk, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.



11/1/22

Signature of Applicant

Date

**IX. ACTION OF THE STATE ENGINEER:**

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions.  
 Not approved for the reasons provided on the attached letter.

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Witness my hand and official seal this 23<sup>rd</sup> day of February, 2023



Mike A. Hammond, E., New Mexico State Engineer

By: K. Parekh

KASHYAP PAREKH

W. R. M. I

WD-08 Well Plugging Plan  
Version: March 07, 2022  
Page 3 of 5

**TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.**

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	Does Not Apply (DNA)		
Bottom of proposed interval of grout placement (ft bgl)	DNA		
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			09E 011 NOV 15 2022 AM 8:52
Additive 2 percent by dry weight relative to cement			

**TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.**

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	1-ft. Fill to one-ft below ground surface. Top 1-ft will be filled with soil backfill.		
Bottom of proposed sealant of grout placement (ft bgl)	Bottom 106-ft 0 to 20': pour from surface 20 to 105': tremie in bentonite chips.		
Theoretical volume of sealant required per interval (gallons)	22.5-cubic feet 168 gallons of water		
Proposed abandonment sealant (manufacturer and trade name)	Wyoming Bentonite		

OSE DJT NOV 15 2022 AMB/JS



**STATE OF NEW MEXICO**  
**OFFICE OF THE STATE ENGINEER**  
**ROSWELL**  
 1900 West Second St.  
 Roswell, New Mexico 88201  
 Phone: (575) 622-6521  
 Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged Jason Maley (Vision Resources) (WD-1690) will perform the plugging.

Permittee: Solaris Water Midstream  
 NMOSE Permit Number: C-4713-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4713-POD1	5.0	106	Unknown	32° 05' 2.19"	103° 19' 20.28"

**Specific Plugging Conditions of Approval for Well located in Eddy County.**

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment is approximately 22.4 cubic feet. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 106 feet below ground surface (b.g.s.).
3. Bentonite chips is the approved sealant. When bentonite chips are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
4. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.
5. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental

concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

6. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
7. NMOSE witnessing of the plugging of the non-artesian well will not be required.
8. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
9. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 23<sup>th</sup> day of February 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh  
Water Resources Manager I





**STATE OF NEW MEXICO**  
OFFICE OF THE STATE ENGINEER  
ROSWELL

**Mike A. Hamman, P.E.**  
State Engineer

**DISTRICT II**  
1900 West Second St.  
Roswell, New Mexico 88201  
Phone: (575) 622-6521  
Fax: (575) 623-8559

February 23, 2022

Solaris Water Midstream  
3305 Boyd Drive  
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for **C-4713-POD1**

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

  
\_\_\_\_\_  
Kashyap Parekh  
Water Resources Manager I



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE OF NEW MEXICO  
WELL RECORD & LOG

2017 MAR 7 AM 01:45:00

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1305-POD1			OSE FILE NUMBER(S)		
	WELL OWNER NAME(S) Gregg Fulfer			PHONE (OPTIONAL) 575-631-0522		
	WELL OWNER MAILING ADDRESS P.O. Box 1227			CITY Jal	STATE NM	ZIP 88252
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	05 32	SECONDS 06.5976 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						
LICENSE NUMBER WD1706	NAME OF LICENSED DRILLER Bryce J Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation		
DRILLING STARTED 5/4/17	DRILLING ENDED 5/6/17	DEPTH OF COMPLETED WELL (FT) see driller's report 240 420 ft B64	BORE HOLE DEPTH (FT) 12.25	DEPTH WATER FIRST ENCOUNTERED (FT) 230		
COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 213 220 ft see driller's report B64		
DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:						
DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:						
DEPTH (feet bgf)	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
FROM		TO				SLOT SIZE (inches)
0	20	17.5	A53 Grade B Steel		12.57	.188
0	320	12.25	A53 Grade B Steel	Weld	6.065	.280
320	420	12.25	SDR 21 PVC	Spline connection	6.0	SDR 21
2. DRILLING & CASING INFORMATION	DEPTH (feet bgf)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM		TO			
	0	20	17.5	Neat Portland Cement Type 1/11	18	Pour
	0	313	12.25	Neat Portland Cement Type 1/11	175	Trimmie
	313	420	12.25	Silica sand 8-16	60	Pour
3. ANNULAR MATERIAL	DEPTH (feet bgf)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM		TO			
	0	20	17.5	Neat Portland Cement Type 1/11	18	Pour
	0	313	12.25	Neat Portland Cement Type 1/11	175	Trimmie
	313	420	12.25	Silica sand 8-16	60	Pour

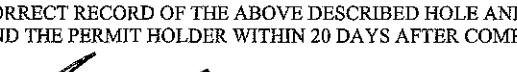
FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 10/29/15)

FILE NUMBER CP-1305	POD NUMBER	TRN NUMBER 604490
LOCATION Com	255.37E 31.41	PAGE 1 OF 2

#### 4. HYDROGEOLOGIC LOG OF WELL

## 5. TEST: BIG SUPERVISION

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		
Bryce J Wallace		
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
		Bryce J Wallace
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/2015)

FILE NUMBER	CP-1303	POD NUMBER	1	TRN NUMBER	604490
LOCATION	6pm	255.37E.31.41		PAGE 2 OF 2	

Memorandum To Files: CP-1305-POD1

From: Catherine Goetz *1-7*

Subject: Drilling records for Well CP-1305-POD1

Date: November 9, 2017

*11-20-17  
w/k entered*

Attached is drilling information pertaining to the construction of Artesian Well CP-1305-POD1.

Please collect the following information for the Fulfer Jal CP-1305 POD1 well:

CP-1305 POD1

Name of person recording info: Bryce Wallace

GENERAL INFO:

GPS coordinates of well: N 32 05 06.5976 W 103 21 03.3840

Total Depth of initial borehole and diameter 420ft. - 12 1/4"

Cement Applied to Borehole – brief description of back-plugging and dates (this will close-out the ~~please~~ one part of the project) – N/A

Total depth of reamed hole (include how tag was determined) and diameter – 420ft. - 12 1/4" – drill pipe

2017 JUN - 7 AM 10:26  
STATE INSPECTOR OFFICE  
ROSENBERG, TEXAS  
MEXICO

Total Depth of Well – 420ft.

Static water level – 220ft.

CASING:

Date: 5/5/17

Casing composition/grade/ID/OD - A53 Grade B steel; 6.065 ID; 6 5/8 OD

Screen composition/grade/ID/OD – SDR 21 PVC .032; 6.0 ID 6 5/8" OD

Photos of casing and screen – Already sent in.

Tally sheet N/A

Receipt or Bill of Laden showing materials used – well casing, screen, centralizers – Already sent in.

Location of centralizers: 400', 340', 280', 220', 180', 160', 120', 10'

Photo of a double-beaded weld: See attached.

Welding company used: Jorge Soto Welding

Cp-1305-P0DI

FILTER PACK:

Date: 5/5/17

Sand type 8-16 silica sand

Begin time/date application of filter pack: 3:00pm 5/5/17

End time/date application of filter pack: 6:00pm 5/5/17

Interval (include how determined, eg tagged with tremie pipe, etc): 107': Tagged with trimmie.

2017 JUL - 7 AM 10:36

STATE ENGINEER OFFICE  
ROSENBLATT, NEW MEXICO

BENTONITE: N/A

Date:

Type

Method of application

Begin time/date application of bentonite

End time/date application of bentonite

Interval (include how determined, eg tagged with tremie pipe, etc)

CEMENT:

Date: 5/6/17

Cement type: Portland 1/11

Additives: N/A

Mixed onsite or batch: Onsite

Cement Density: 15.6 pounds per gallon

Method of application (e.g. pumping rate, tremie diameter) 28 GPM per batch – Trimmie – 1 ½" pipe.

Tremie set depth: 312'

CP-1305 POD1

Begin time/date application of cement: 5/6/17 8:00am

End time/date and volume of cement circulating to surface: 5/6/17 4:00pm

Photo of cement circulating to surface

Density of cement as returns to surface: 14.2 pounds per gallon.

Density of cement and time as continue pumping cement: 14.2 pounds per gallon – 15.6 pounds per gallon.

(Record until cement density correlates to the density of cement applied)

2017 JUL - 7 AM 10:36

STATE ENGINEER OFFICE  
ROSWELL, NEW MEXICO

End time/date of pumping cement: 5/6/17 5:00pm

Photo of final cement circulating to surface

Interval of cement: 313'

Total Volume of cement applied downhole: 175 cubic feet

How much drop in cement upon settling (tag depth and time/date): 2' Measure tape

If dropped, how much additional cement applied: One bag.

If something does not go according to plan – document written and with photos as needed

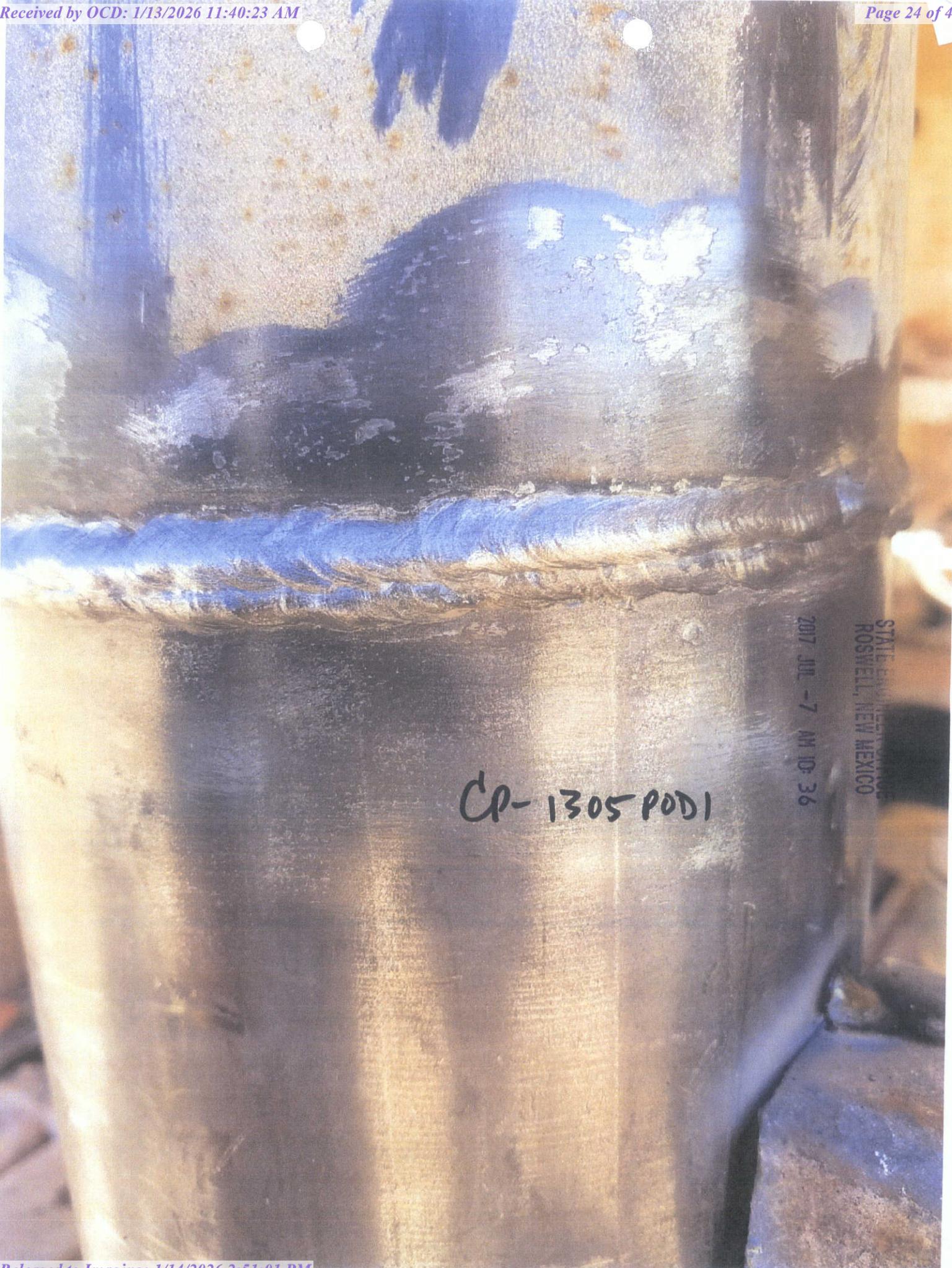
CP-1305 PDI

STATE ENGINEER OFFICE  
ROSWELL, NEW MEXICO

2017 JUL -7 AM 10:36





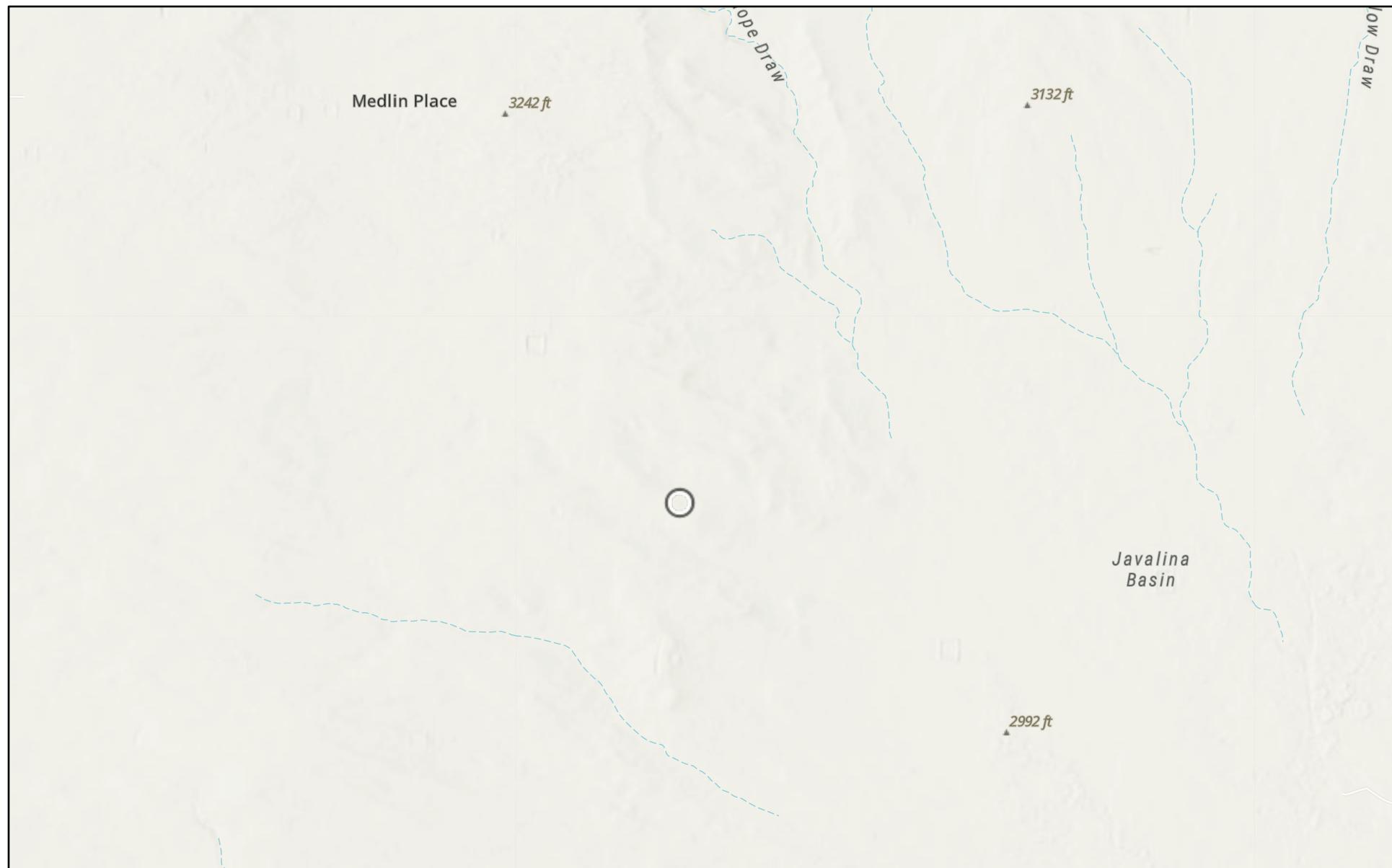


STATE BOARD OF EQUALIZATION  
ROSWELL, NEW MEXICO

2017 JUL -7 AM 10:36

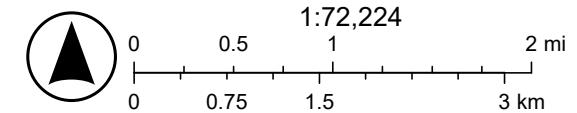
CP-1305 POD1

## FVV2302436608 - TATANKA NORTH AST CONTAINMENT



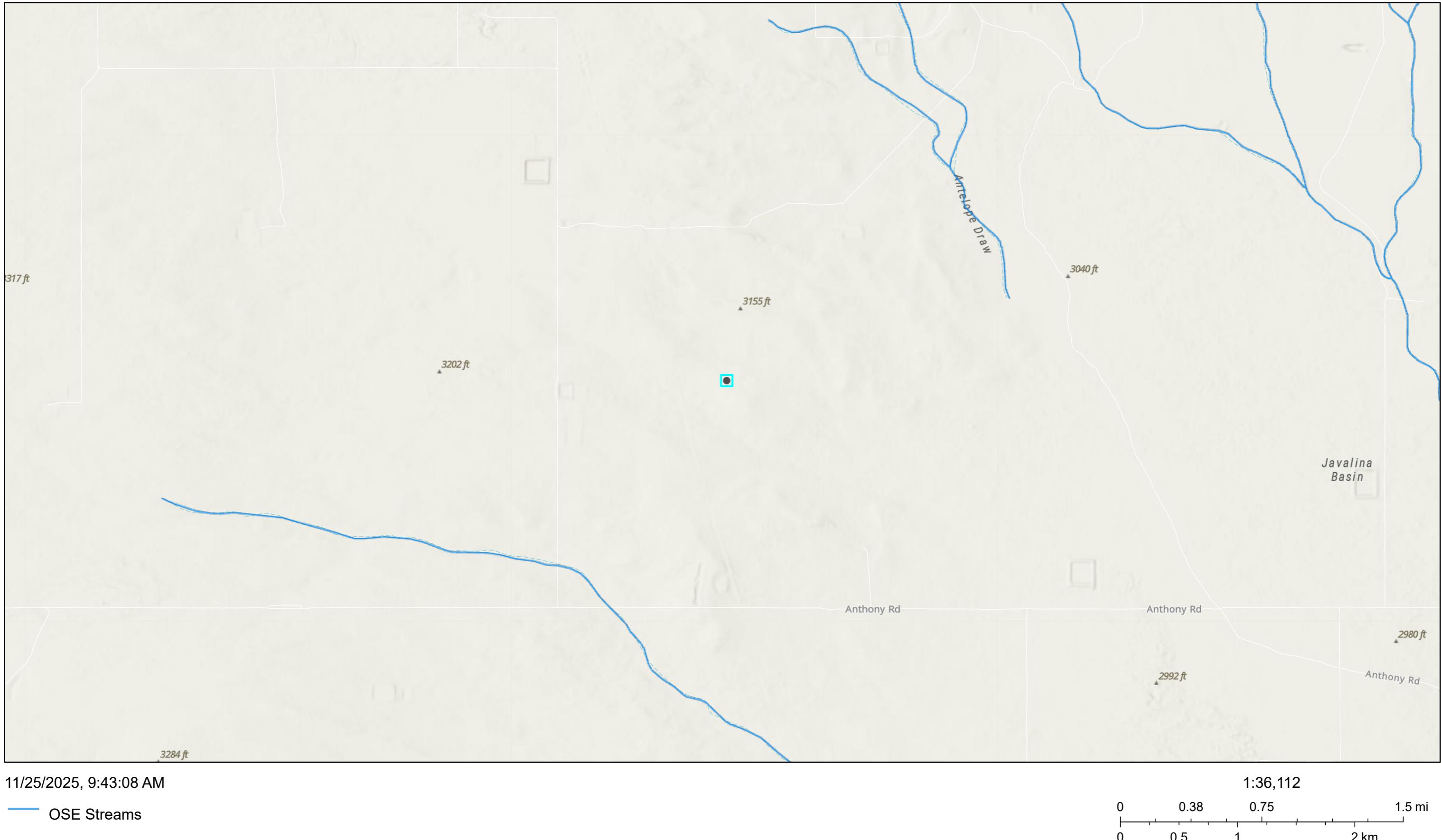
11/25/2025

World\_Hillshade



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User

## FVV2302436608 - TATANKA NORTH AST CONTAINMENT



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE

**Table 1**  
**Coterra Energy Operating Co.**  
**Tatanka North AST Containment**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	12/1/2025	0-0.5'	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	99.0
<b>Regulatory Criteria<sup>A</sup></b>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) - Confirmation Sample

## PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

## Photograph No. 1

Facility: Tatanka North AST Containment

County: Lea County, New Mexico

## Description:

View of the lease sign.



## Photograph No. 2

Facility: Tatanka North AST Containment

County: Lea County, New Mexico

## Description:

View North of the removed AST containment.



## Photograph No. 3

Facility: Tatanka North AST Containment

County: Lea County, New Mexico

## Description:

View East of the removed AST containment.





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ashton Thielke  
Carmona Resources  
310 W Wall St  
Ste 500  
Midland, Texas 79701

Generated 12/4/2025 12:59:31 PM

## JOB DESCRIPTION

Tatanka North AST Containment  
Lea County New Mexico

## JOB NUMBER

880-65516-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

See page two for job notes and contact information.

# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Generated  
12/4/2025 12:59:31 PM

Client: Carmona Resources  
Project/Site: Tatanka North AST Containment

Laboratory Job ID: 880-65516-1  
SDG: Lea County New Mexico

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## Definitions/Glossary

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### Glossary

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

✉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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**Case Narrative**

Client: Carmona Resources  
 Project: Tatanka North AST Containment

Job ID: 880-65516-1

**Job ID: 880-65516-1****Eurofins Midland****Job Narrative  
880-65516-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**

The sample was received on 12/1/2025 2:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (0-0.5') (880-65516-1), (LCS 880-125260/2-A), (LCSD 880-125260/3-A), (880-65473-A-21-A), (880-65473-A-21-B MS) and (880-65473-A-21-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-125260/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

## Client Sample ID: CS-1 (0-0.5')

Lab Sample ID: 880-65516-1

Matrix: Solid

Date Collected: 12/01/25 00:00  
 Date Received: 12/01/25 14:28

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/01/25 11:00	12/02/25 18:42	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	112			70 - 130			12/01/25 11:00	12/02/25 18:42	1
1,4-Difluorobenzene (Surr)	99			70 - 130			12/01/25 11:00	12/02/25 18:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/02/25 18:42	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			12/03/25 04:37	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		12/01/25 09:31	12/03/25 04:37	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		12/01/25 09:31	12/03/25 04:37	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		12/01/25 09:31	12/03/25 04:37	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane (Surr)	164	S1+	70 - 130				12/01/25 09:31	12/03/25 04:37	1
o-Terphenyl (Surr)	143	S1+	70 - 130				12/01/25 09:31	12/03/25 04:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.0		9.92		mg/Kg			12/03/25 12:07	1

Eurofins Midland

## Surrogate Summary

Client: Carmona Resources

Job ID: 880-65516-1

Project/Site: Tatanka North AST Containment

SDG: Lea County New Mexico

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-64724-A-21-C MB	Method Blank	108	96
880-65472-A-1-B MS	Matrix Spike	105	97
880-65472-A-1-C MSD	Matrix Spike Duplicate	107	107
880-65516-1	CS-1 (0-0.5')	112	99
LCS 880-125282/1-A	Lab Control Sample	108	105
LCSD 880-125282/2-A	Lab Control Sample Dup	103	99
MB 880-125282/5-A	Method Blank	106	91

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)  
DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-65473-A-21-B MS	Matrix Spike	180 S1+	144 S1+
880-65473-A-21-C MSD	Matrix Spike Duplicate	180 S1+	144 S1+
880-65516-1	CS-1 (0-0.5')	164 S1+	143 S1+
LCS 880-125260/2-A	Lab Control Sample	176 S1+	137 S1+
LCSD 880-125260/3-A	Lab Control Sample Dup	175 S1+	138 S1+
MB 880-125260/1-A	Method Blank	157 S1+	140 S1+

**Surrogate Legend**

1CO = 1-Chlorooctane (Surr)  
OTPH = o-Terphenyl (Surr)

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-64724-A-21-C MB

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 125282

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/25 11:00	12/02/25 16:19	1
Surrogate	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	108		70 - 130				12/01/25 11:00	12/02/25 16:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/01/25 11:00	12/02/25 16:19	1

Lab Sample ID: MB 880-125282/5-A

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 125282

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/25 11:00	12/02/25 11:20	1
Surrogate	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	106		70 - 130				12/01/25 11:00	12/02/25 11:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/01/25 11:00	12/02/25 11:20	1

Lab Sample ID: LCS 880-125282/1-A

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 125282

Analyte	Spike		Result	LCS	LCS	Unit	D	%Rec	Limits
	Added								
Benzene		0.100	0.1110		mg/Kg		111	70 - 130	
Toluene		0.100	0.1058		mg/Kg		106	70 - 130	
Ethylbenzene		0.100	0.1081		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene		0.200	0.2117		mg/Kg		106	70 - 130	
o-Xylene		0.100	0.1043		mg/Kg		104	70 - 130	
Surrogate	LCS		Result	LCS	LCS	Unit	D	%Rec	Limits
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: LCSD 880-125282/2-A

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 125282

Analyte	Spike		Result	LCSD	LCSD	Unit	D	%Rec	Limits	RPD
	Added									
Benzene		0.100	0.1032		mg/Kg		103	70 - 130	7	35

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-125282/2-A

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 125282

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	3	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	4	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-65472-A-1-B MS

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 125282

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00200	U	0.100	0.07832		mg/Kg		78	70 - 130	
Toluene	<0.00200	U	0.100	0.07280		mg/Kg		73	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.07588		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1453		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.100	0.07442		mg/Kg		74	70 - 130	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-65472-A-1-C MSD

Matrix: Solid

Analysis Batch: 125341

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 125282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00200	U	0.100	0.1050		mg/Kg		105	70 - 130	29
Toluene	<0.00200	U	0.100	0.09823		mg/Kg		98	70 - 130	30
Ethylbenzene	<0.00200	U	0.100	0.09861		mg/Kg		99	70 - 130	26
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1827		mg/Kg		91	70 - 130	23
o-Xylene	<0.00200	U	0.100	0.08985		mg/Kg		90	70 - 130	19

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-125260/1-A

Matrix: Solid

Analysis Batch: 125366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 125260

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/01/25 09:31	12/03/25 00:22	1

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-125260/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 125366

Prep Batch: 125260

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/25 09:31	12/03/25 00:22	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/25 09:31	12/03/25 00:22	1	
<b>MB MB</b>										
Surrogate	%Recovery		Qualifier		Limits		Prepared		Dil Fac	
	157	S1+	70 - 130				12/01/25 09:31	12/03/25 00:22	1	
o-Terphenyl (Surr)	140	S1+	70 - 130				12/01/25 09:31	12/03/25 00:22	1	

Lab Sample ID: LCS 880-125260/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 125366

Prep Batch: 125260

Analyte	Spike		LCS	LCS	Unit	D	%Rec	
	Added	Result	Qualifier	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	932.1		93	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1091		109	70 - 130			
<b>LCS LCS</b>								
Surrogate	%Recovery		Qualifier		Limits			
	176	S1+	70 - 130					
o-Terphenyl (Surr)	137	S1+	70 - 130					

Lab Sample ID: LCSD 880-125260/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 125366

Prep Batch: 125260

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec		RPD
	Added	Result	Qualifier	%Rec	Limits				
Gasoline Range Organics (GRO)-C6-C10	1000	933.6		93	70 - 130			0	20
Diesel Range Organics (Over C10-C28)	1000	1095		109	70 - 130			0	20
<b>LCSD LCSD</b>									
Surrogate	%Recovery		Qualifier		Limits				
	175	S1+	70 - 130						
o-Terphenyl (Surr)	138	S1+	70 - 130						

Lab Sample ID: 880-65473-A-21-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 125366

Prep Batch: 125260

Analyte	Sample		Spike	MS	MS	Unit	D	%Rec	
	Result	Qualifier		Result	Qualifier			%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	754.9		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	899.1		mg/Kg		90	70 - 130
<b>MS MS</b>									
Surrogate	%Recovery		Qualifier		Limits				
	180	S1+	70 - 130						
o-Terphenyl (Surr)	144	S1+	70 - 130						

Eurofins Midland

## QC Sample Results

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-65473-A-21-C MSD

Matrix: Solid

Analysis Batch: 125366

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 125260

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	765.2		mg/Kg		74	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	923.9		mg/Kg		92	70 - 130	3	20
<b>Surrogate</b>											
<b>MSD MSD</b>											
<b>%Recovery Qualifier Limits</b>											
1-Chlorooctane (Surr)	180	S1+		70 - 130							
o-Terphenyl (Surr)	144	S1+		70 - 130							

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-125372/1-A

Matrix: Solid

Analysis Batch: 125516

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U		10.0	mg/Kg			12/03/25 11:00	1

Lab Sample ID: LCS 880-125372/2-A

Matrix: Solid

Analysis Batch: 125516

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	250	228.1		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-125372/3-A

Matrix: Solid

Analysis Batch: 125516

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloride	250	229.5		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-65498-A-2-C MS

Matrix: Solid

Analysis Batch: 125516

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	51.9		250	282.5		mg/Kg		92	90 - 110

Lab Sample ID: 880-65498-A-2-D MSD

Matrix: Solid

Analysis Batch: 125516

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD Limit	
Chloride	51.9		250	282.5		mg/Kg		92	90 - 110	0	20

Eurofins Midland

**QC Association Summary**

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

**GC VOA****Prep Batch: 125282**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	5035	
880-64724-A-21-C MB	Method Blank	Total/NA	Solid	5035	
MB 880-125282/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-125282/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-125282/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-65472-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-65472-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

**Analysis Batch: 125341**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	8021B	125282
880-64724-A-21-C MB	Method Blank	Total/NA	Solid	8021B	125282
MB 880-125282/5-A	Method Blank	Total/NA	Solid	8021B	125282
LCS 880-125282/1-A	Lab Control Sample	Total/NA	Solid	8021B	125282
LCSD 880-125282/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	125282
880-65472-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	125282
880-65472-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	125282

**Analysis Batch: 125599**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	Total BTEX	

**GC Semi VOA****Prep Batch: 125260**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-125260/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-125260/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-125260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-65473-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-65473-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 125366**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	8015B NM	125260
MB 880-125260/1-A	Method Blank	Total/NA	Solid	8015B NM	125260
LCS 880-125260/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	125260
LCSD 880-125260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	125260
880-65473-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	125260
880-65473-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	125260

**Analysis Batch: 125583**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 125372**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-125372/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

**QC Association Summary**

Client: Carmona Resources

Job ID: 880-65516-1

Project/Site: Tatanka North AST Containment

SDG: Lea County New Mexico

**HPLC/IC (Continued)****Leach Batch: 125372 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-125372/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-125372/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-65498-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-65498-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

**Analysis Batch: 125516**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-65516-1	CS-1 (0-0.5')	Soluble	Solid	300.0	125372
MB 880-125372/1-A	Method Blank	Soluble	Solid	300.0	125372
LCS 880-125372/2-A	Lab Control Sample	Soluble	Solid	300.0	125372
LCSD 880-125372/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	125372
880-65498-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	125372
880-65498-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	125372

Eurofins Midland

**Lab Chronicle**

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

**Client Sample ID: CS-1 (0-0.5')****Lab Sample ID: 880-65516-1**

Matrix: Solid

Date Collected: 12/01/25 00:00  
 Date Received: 12/01/25 14:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	125282	12/01/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	125341	12/02/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125599	12/02/25 18:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			125583	12/03/25 04:37	SA	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10.00 mL	125260	12/01/25 09:31	JN	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	125366	12/03/25 04:37	FC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	125372	12/02/25 10:28	SA	EET MID
Soluble	Analysis	300.0		1			125516	12/03/25 12:07	CS	EET MID

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Eurofins Midland

## Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-65516-1

Project/Site: Tatanka North AST Containment

SDG: Lea County New Mexico

### **Laboratory: Eurofins Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Eurofins Midland

## Method Summary

Client: Carmona Resources  
 Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1  
 SDG: Lea County New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

## Sample Summary

Client: Carmona Resources

Project/Site: Tatanka North AST Containment

Job ID: 880-65516-1

SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-65516-1	CS-1 (0-0.5')	Solid	12/01/25 00:00	12/01/25 14:28	Texas

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Eurofins Midland

## Chain of Custody

880-65516 Chain of Cities



Project Manager:	Ashton Thielke	
Company Name:	Carmona Resources	Bill to. (if different)
Address:	310 W Wall St Ste 500	Company Name:
City, State ZIP:	Midland, TX 79701	Address:
Phone:	432-813-8988	City, State ZIP:
		Midland, TX 79701
		Email: <a href="mailto:laci.lung@colterra.com">laci.lung@colterra.com</a> & <a href="mailto:ThielkeA@carmonaresources.com">ThielkeA@carmonaresources.com</a>

<b>Work Order Comments</b>	
<b>Program:</b> USIPST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> IRC <input type="checkbox"/> perfund <input type="checkbox"/>	<b>State of Project:</b>
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/STU <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-65516-1  
SDG Number: Lea County New Mexico**Login Number: 65516****List Source: Eurofins Midland****List Number: 1****Creator: Neeld, Linsey**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

## Venegas, Victoria, EMNRD

---

**From:** Venegas, Victoria, EMNRD  
**Sent:** Wednesday, January 14, 2026 2:31 PM  
**To:** jennifer.schnur@coterra.com  
**Subject:** 1RF-502 - TATANKA NORTH AST CONTAINMENT FACILITY [fVV2302436608]  
**Attachments:** C-147 1RF-502 - TATANKA NORTH AST CONTAINMENT FACILITY ID [fVV2302436608]  
01.14.2026.pdf

### **1RF-502 - TATANKA NORTH AST CONTAINMENT FACILITY [fVV2302436608]**

Good afternoon Ms. Schnur.

NMOCD has reviewed the recycling containment closure request and related documents, submitted by [215099] Coterra Energy Operating Co on 01/13/2026 Application ID **542654**, for 1RF-502 - TATANKA NORTH AST CONTAINMENT FACILITY [fVV2302436608] in N-35-25S-35E, Lea County, New Mexico. The closure request has been approved.

- Please note that according to NMAC 19.15.34.14.E: Once the operator has closed the recycling containment, the operator shall 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.
- The operator shall substantially restore the impacted surface area to the condition that existed prior to the construction of the recycling containment.
- NMAC 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health, and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.

Please let me know if you have any additional questions.

Regards,

**Victoria Venegas** • Senior Environmental Scientist  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. Artesia, NM 88210  
575.909.0269 | [Victoria.Venegas@emnrd.nm.gov](mailto:Victoria.Venegas@emnrd.nm.gov)

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 542654

**CONDITIONS**

Operator:  Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 542654
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	NMOCD has reviewed the recycling containment closure request and related documents, submitted by [215099] Coterra Energy Operating Co on 01/13/2026 Application ID 542654, for 1RF-502 - TATANKA NORTH AST CONTAINMENT FACILITY [fVV2302436608] in N-35-25S-35E, Lea County, New Mexico. The closure request has been approved.	1/14/2026