

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	ncs1929540332
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	LOGOS Operating, LLC	OGRID	289408
Contact Name	Marie E. Florez	Contact Telephone	505-419-8420
Contact email	mflorez@logosresourcesllc.com	Incident # (assigned by OCD)	ncs1929540332
Contact mailing address	2010 Afton Place, Farmington, NM 87401		

### Location of Release Source

Latitude 36.8674126 Longitude -107.2684555  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Rosa Unit 312	Site Type	Well
Date Release Discovered	9/6/2019	API# (if applicable)	30-039-25058

Unit Letter	Section	Township	Range	County
L	28	31N	4W	Rio Arriba

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) >5bbls	Volume Recovered (bbls) <1bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

OCD inspector found signs of recent produced water release through corrosion damage on western production tank, approximately 12ft above base. Standing fluids in containment, based off crusting up berms, estimate release volume greater than 5bbls, current volume in containment less than 1bbl.

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Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

**Initial Response**

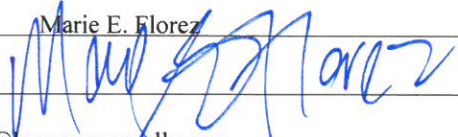
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Marie E. Florez Title: Regulatory Specialist  
 Signature:  Date: 07/07/2020  
 email: mflorez@logosresourcesllc.com Telephone: 505-419-8420

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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Oil Conservation Division

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## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	179 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



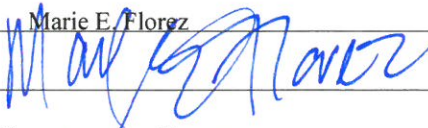
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Oil Conservation Division

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Printed Name: Marie E. Florez Title: Regulatory Specialist  
Signature:  Date: 7/7/2020  
email: mflorez@logosresourcesllc.com Telephone: 505-419-8420

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



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Oil Conservation Division

Incident ID	ncs1929540332
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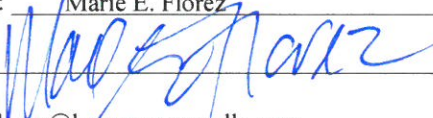
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Marie E. Florez Title: Regulatory Specialist  
Signature:  Date: 7/7/2020  
email: mflorez@logosresourcesllc.com Telephone: 505-419-8420

**OCD Only**

Received by: OCD Date: 7/8/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/4/2021

Printed Name: Cory Smith Title: Environmental Specialist



July 7, 2020

Cory Smith  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Incident # nCS1929540332

**RE: Signs of recent produced water release through corrosion damage on western production tank, approximately 12ft above base. Standing fluids in containment, based off crusting up berms, estimate release volume greater than 5bbls, current volume in containment less than 1bbl at the Rosa Unit 312 well site. Located in Section 28, Township 31 North, Range 4 West, Rio Arriba, New Mexico.**

Dear Mr. Smith,

On October 19, 2019, LOGOS Operating, LLC plugged and patched the corrosion holes on the production tank, pulled all remainder of rain water, spread nitrogen and spread (2) 40lbs of gypsum over the gravel. The entire area was raked in.

A confirmation sample was scheduled and taken on November 1, 2019. This application was rejected by NMOCD due to closure / delineation samples did not meet the requirements.

On March 3, 2020, (2) bags of 40lbs of gypsum was added and spread throughout the entire affected area due to the results over the sample limit from November 1, 2019.

LOGOS requested for an extension due to the COVID -19 shut down.

Notification for final sampling was requested to be performed on June 17, 2020, the results from this sample was rejected by Envirotech. The operator had delivered the samples in plastic Ziploc bags contradicting the results. A second notification for final sampling was scheduled for June 22, 2020.

LOGOS arrived at the site on June 24, 2020 to conduct site delineation activities for historical produced water release that occurred at the Rosa Unit 312 well site (30-039-25058). The operator utilized a hand auger four (4) soil borings, SB-1 through SB-4, were advanced into the subsurface within the earthen berm containment. Delineation activities are documented in the enclosed Aerial Site map, and Figure 1 – Site pictures.



Soil samples were collected at 1 foot intervals in each boring.

SB-1@1'	SB-2@1'	SB-3@1'	SB-4@1'
SB-1@2'	SB-2@2'	SB-3@2'	SB-4@2'
SB-1@3'	SB-2@3'	SB-3@3'	SB-4@3'
SB-1@4'	SB-2@4'	SB-3@4'	SB-4@4'

The samples were placed into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH as gasoline diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

Final Sample Results								
Sample Description	Date	Sample Depth	EPA Method 8015		EPA Method 8021		EPA Method 300.0	
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.15.29.13 (D) NMAC			100 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg					10,000 mg/kg
			2500 mg/kg					
SB-1 @ 1'	6/24/2020	1 foot	ND	ND	ND	ND	ND	ND
SB-1 @ 2'	6/24/2020	2 foot	ND	ND	ND	ND	ND	ND
SB-1 @ 3'	6/24/2020	3 foot	ND	ND	ND	ND	ND	ND
SB-1 @ 4'	6/24/2020	4 feet	ND	ND	ND	ND	ND	34.1
SB-2 @ 1'	6/24/2020	1 foot	ND	ND	ND	ND	ND	ND
SB-2 @ 2'	6/24/2020	2 foot	ND	ND	ND	ND	ND	ND
SB-2 @ 3'	6/24/2020	3 foot	ND	ND	ND	ND	ND	ND
SB-2 @ 4'	6/24/2020	4 feet	ND	ND	ND	ND	ND	22.6
SB-3 @ 1'	6/24/2020	1 foot	ND	ND	ND	ND	ND	221
SB-3 @ 2'	6/24/2020	2 foot	ND	ND	ND	ND	ND	204
SB-3 @ 3'	6/24/2020	3 foot	ND	ND	ND	ND	ND	233
SB-3 @ 4'	6/24/2020	4 feet	ND	ND	ND	ND	ND	183
SB-4 @ 1'	6/24/2020	1 foot	ND	ND	ND	ND	ND	157
SB-4 @ 2'	6/24/2020	2 foot	ND	ND	ND	ND	ND	270
SB-4 @ 3'	6/24/2020	3 foot	ND	ND	ND	ND	ND	259
SB-4 @ 4'	6/24/2020	4 feet	ND	ND	ND	ND	ND	461



The release was contained in the secondary containment of an active well site, depth to groundwater was assessed as being 100 feet. The groundwater data is documented in the enclosed TOPO Site Criteria. The New Mexico Office of the State Engineer has identified a GW @ 80' under the SJ 00049 with an elevation of 6682' and an elevation for the Rosa Unit 312 is at 6702' with an estimated GW @ 100'.

Therefore, based on the site delineation activities and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required. LOGOS request a release and remediation/reclamation closure approval from NMOCD.

Sincerely,



Marie E. Florez

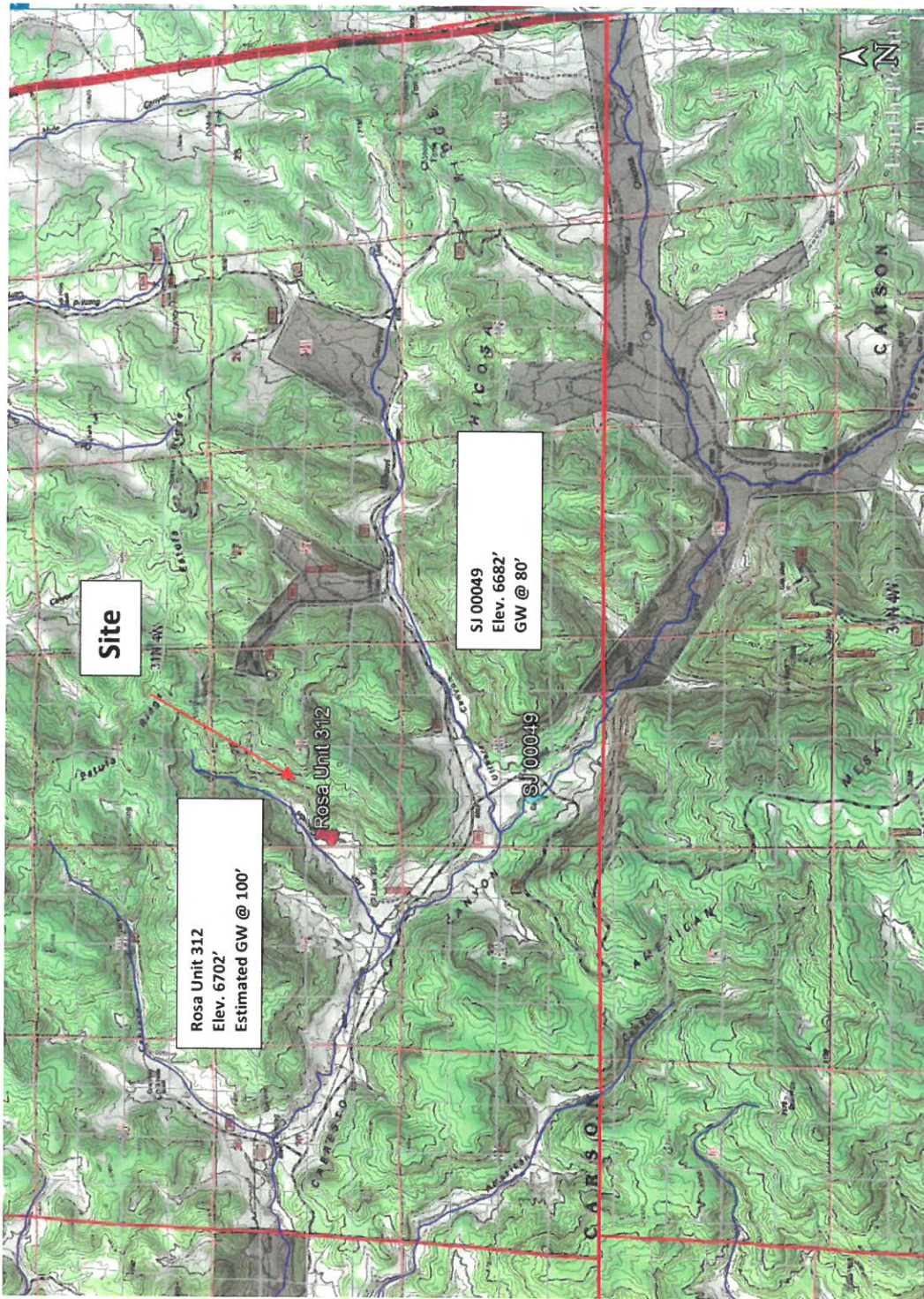
Regulatory Specialist

Cell: 505-419-8420

Office: 505-787-2218

[mflorez@logosresourcesllc.com](mailto:mflorez@logosresourcesllc.com)





Well Name: Rosa Unit 312

API: 30-039-25058

Section: 28 Township: 31N Range: 4W Unit: L

Lat: 36.8674126 Long: -107.2684555 NAD 83

Scale



TOPO Site Map  
07/07/2020





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">SJ 02886</a>	SJ	SJ		4	2	2	28	31N	04W	299249	4083393*	1670	150		
<a href="#">SJ 00049</a>	SJ	RA				3	33	31N	04W	298080	4080910*	1680	112	80	32
<a href="#">SJ 02384</a>	SJ	RA		3	1	3	07	30N	04W	294736	4077762*	5696	185	95	90
<a href="#">SJ 04039 POD1</a>	SJ	SJ		2	3	2	14	30N	05W	292702	4076834	7668	275		
<a href="#">SJ 00042</a>	SJ	RA				1	28	30N	04W	297901	4073566*	9001	62		

Average Depth to Water: **87 feet**

Minimum Depth: **80 feet**

Maximum Depth: **95 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 297796.86

Northing (Y): 4082566.5

Radius: 10000

\*UTM location was derived from PLSS - see Help

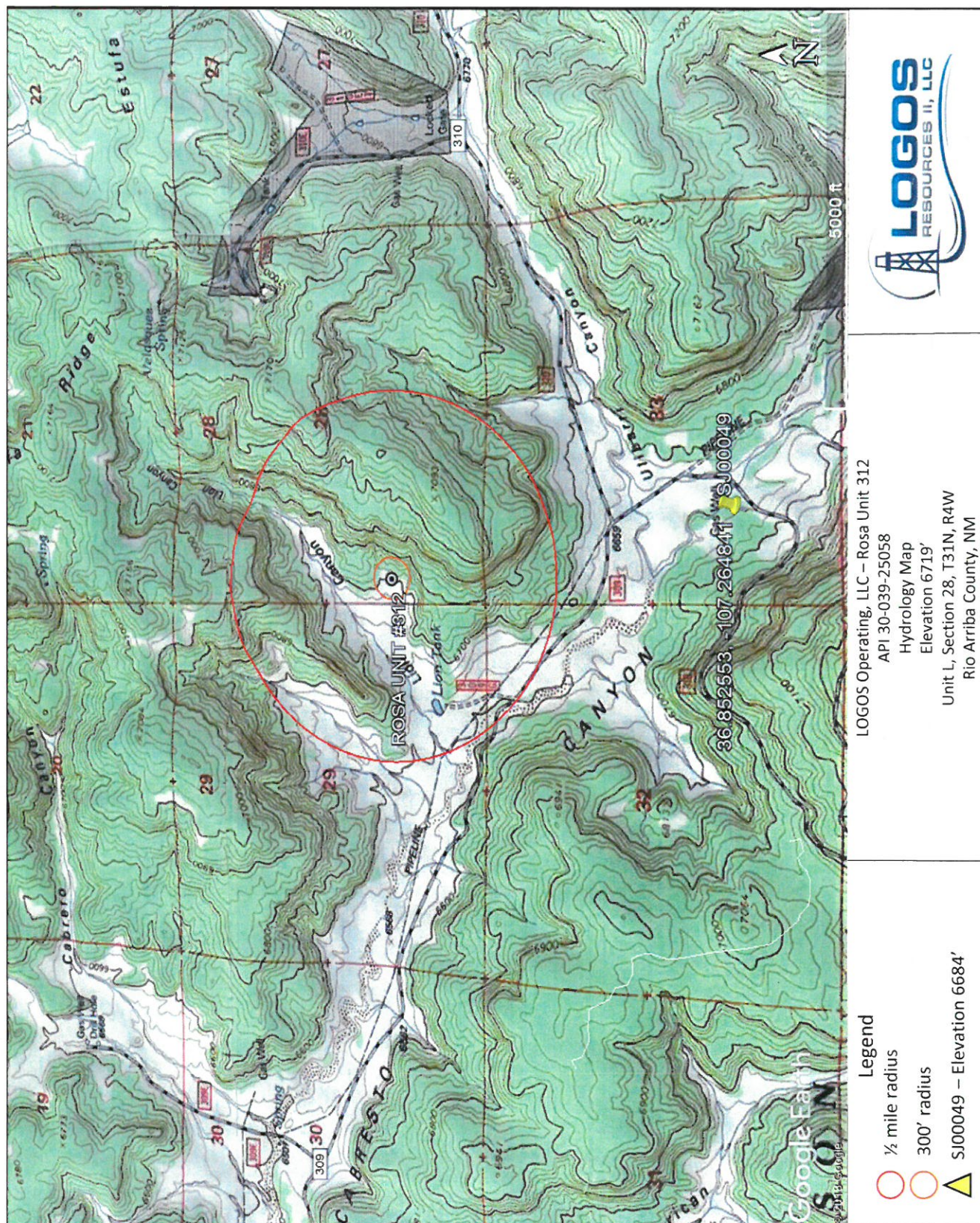
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/7/20 12:34 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER









**LOGOS**  
RESOURCES II, LLC

Well Name: Rosa Unit 312  
API: 30-039-25058

Section: 23 Township: 31N Range: 5W Unit: E  
Lat: 36.8868675 Long: -107.3385239 NAD 83

Aerial Site Map  
07/01/2020

Secondary Containment

Soil Boring



Scale



Signs of recent produced water release through corrosion damage on western production tank, approximately 12ft above base. Standing fluids in containment, based off crusting up berms, estimate release volume greater than 5bbls, current volume in containment less than 1bbl.

Rosa Unit 312  
Well Head

SB-2

SB-3

SB-1

SB-4



## Field Notes for Spill Closure

Well Name: Rosa Unit 312

Date of Arrival: 6/24/2020

### Observe Area

Removed contaminated soils ☐ Yes ☐ No

What chemical was used to clean-up contaminated area:

gypsum, and nitrogen No need to remove soil just applied chemical

Take Picture: ☒ Before ☒ After

Entire Spill Containment: ☒ Dry ☐ Wet

If wet:  
Rain, Moist, etc...

Was moist in March from rain water. Pulled remainder of rain water.

### Site Delineation

#### Sample 1:

☐ Composite (Grab Sample) ☐ Yes ☐ No

Was (2) five-point sample taken: ☐ Yes ☐ No

#### Sample 2:

☒ Delineation (Hand Auger) ☒ Yes ☐ No

Depths **SB - 1** ☒ 1' ☒ 2' ☒ 3' ☒ 4'

**SB - 2** ☒ 1' ☒ 2' ☒ 3' ☒ 4'

**SB - 3** ☒ 1' ☒ 2' ☒ 3' ☒ 4'

**SB - 4** ☒ 1' ☒ 2' ☒ 3' ☒ 4'

Soil Did soil have odor: ☐ Yes ☒ No

If so, what kind of odor:

no bad odor

Was soil discolored: ☒ Yes ☐ No

If so, what color:

Staining brown

Was the soil sandy: ☐ Yes ☒ No



**Marie Florez**

---

**From:** Tamra Sessions  
**Sent:** Friday, June 19, 2020 10:26 AM  
**To:** Smith, Cory, EMNRD; Powell, Brandon, EMNRD  
**Cc:** Robert Jordan; Marie Florez  
**Subject:** RE: Rosa Unit 312 - Notification for final sampling

Cory, the samples pulled on 6/17/20 are being rejected by Envirotech as they were delivered in plastic Ziploc bags, contradicting the results. We are re-sampling this coming Monday and using jars to transport the samples.

**Date:** June 22, 2020 (Monday)  
**Time:** 07:00am

Tamra

**From:** Tamra Sessions  
**Sent:** Friday, June 12, 2020 7:21 AM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>  
**Cc:** Robert Jordan <rjordan@logosresourcesllc.com>; Marie Florez <mflorez@logosresourcesllc.com>  
**Subject:** RE: Rosa Unit 312 - Notification for final sampling

LOGOS has a conflict for next Tuesday and is rescheduling for the following day.

**Date:** June 17, 2020 (Wednesday)  
**Time:** 07:00am

Incident # ncs1929540332

API: 30-039-25058  
Well Name: Rosa Unit 312  
Section: 28  
Township: 31N  
Range: 4W  
Unit Letter: L

Tamra Sessions

Regulatory Specialist  
Office 505-324-4145  
[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)



**From:** Marie Florez  
**Sent:** Thursday, June 11, 2020 2:19 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Powell, Brandon, EMNRD <[Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)>  
**Cc:** Tamra Sessions <[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)>; Robert Jordan <[rjordan@logosresourcesllc.com](mailto:rjordan@logosresourcesllc.com)>  
**Subject:** Rosa Unit 312 - Notification for final sampling

LOGOS is notifying OCD two business days prior to conducting final sampling on the following well.

Date: June 16, 2020 (Tuesday)  
Time: 07:00am

Incident # ncs1929540332

API: 30-039-25058  
Well Name: Rosa Unit 312  
Section: 28  
Township: 31N  
Range: 4W  
Unit Letter: L

Thanks,

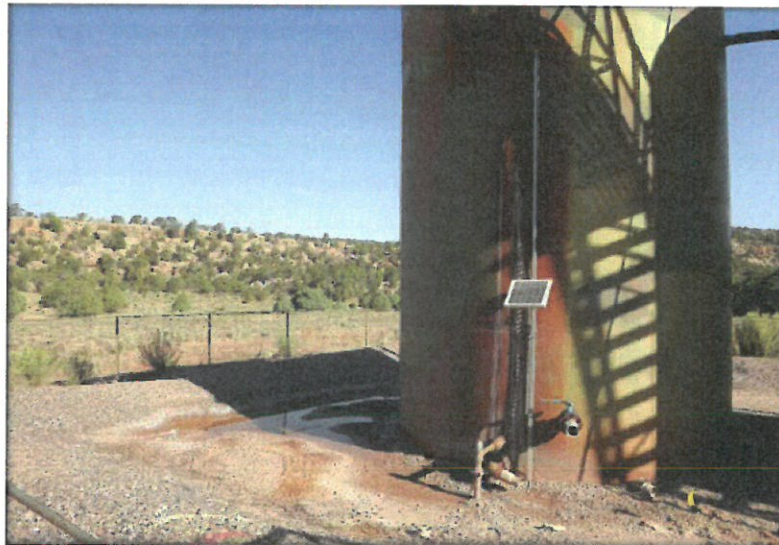
*Marie E. Florez*  
Regulatory Specialist  
Cell: 505-419-8420  
Office: 505-787-2218  
[mflorez@logosresourcesllc.com](mailto:mflorez@logosresourcesllc.com)



**LOGOS Operating, LLC  
Site Pictures  
Rosa Unit 312  
Figure: 1**



**Well Sign**

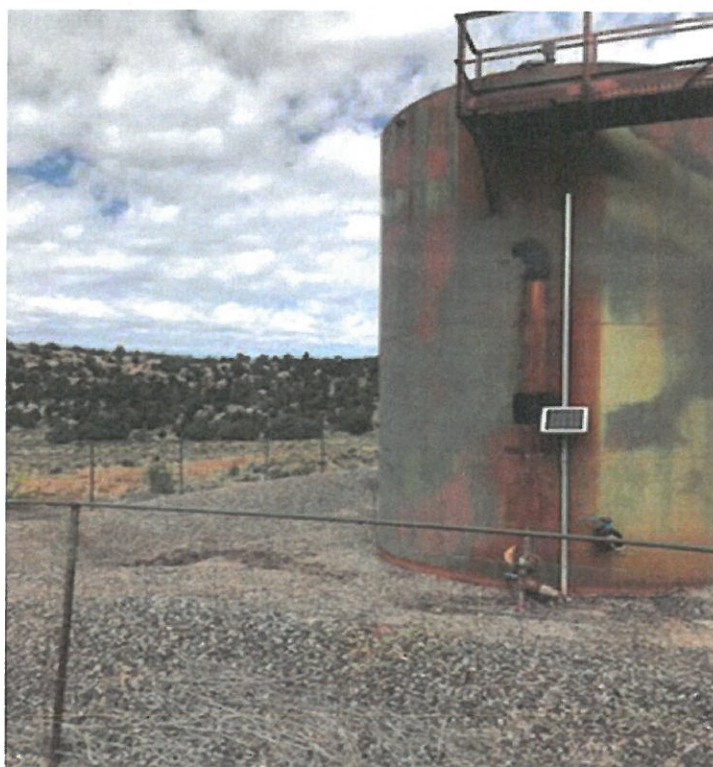


**Impacted Area**





Impacted Area



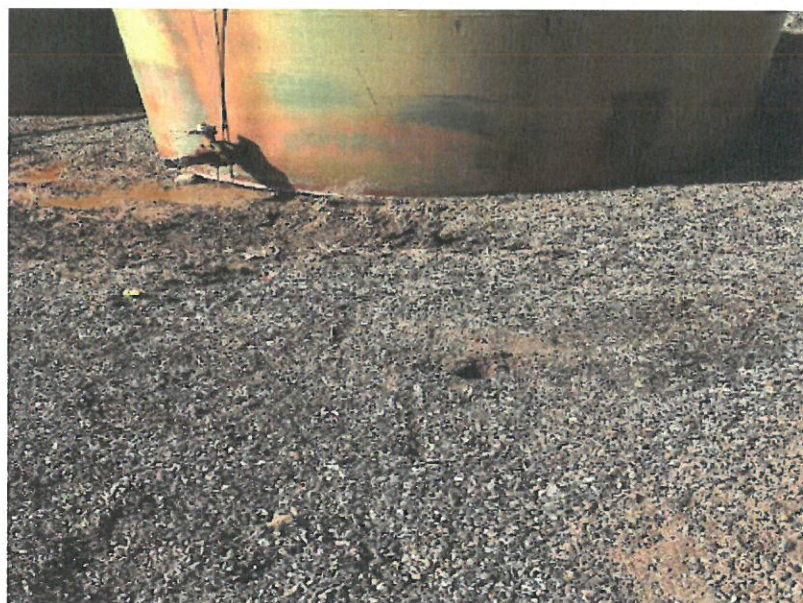
Cleaned up Staining







SB-1



SB-2



SB-3



SB-4





## Analytical Report

### Report Summary

Client: Logos Resources

Samples Received: 6/24/2020

Job Number: 12035-0114

Work Order: P006082

Project Name/Location: Rosa Unit 312

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 6/30/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Logos Resources	Project Name:	Rosa Unit 312	
2010 Afton Place	Project Number:	12035-0114	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Robert Jordan	06/30/20 10:07

### Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB-1 at 1'	P006082-01A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-1 at 2'	P006082-02A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-1 at 3'	P006082-03A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-1 at 4'	P006082-04A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-2 at 1'	P006082-05A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-2 at 2'	P006082-06A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-2 at 3'	P006082-07A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-2 at 4'	P006082-08A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-3 at 1'	P006082-09A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-3 at 2'	P006082-10A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-3 at 3'	P006082-11A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-3 at 4'	P006082-12A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-4 at 1'	P006082-13A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-4 at 2'	P006082-14A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-4 at 3'	P006082-15A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.
SB-4 at 4'	P006082-16A	Soil	06/24/20	06/24/20	Glass Jar, 4 oz.

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-1 at 1'**  
**P006082-01 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	101 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane	90.5 %	50-200		06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.7 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	Reported: 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-1 at 2'**  
**P006082-02 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
<i>Surrogate: n-Nonane</i>		79.0 %	50-200	06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.7 %	50-150	06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2026020
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	
2010 Afton Place	Project Number:	12035-0114	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Robert Jordan	06/30/20 10:07

**SB-1 at 3'**  
**P006082-03 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
	mg/kg	mg/kg				
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-150	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
	mg/kg	mg/kg				
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane		81.8 %	50-200	06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
	mg/kg	mg/kg				
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	50-150	06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
	mg/kg	mg/kg				
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-1 at 4'**  
**P006082-04 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane	81.6 %	50-200		06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.9 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	34.1	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-2 at 1'**  
**P006082-05 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane	85.9 %	50-200		06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-2 at 2'**  
**P006082-06 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
<i>Surrogate: n-Nonane</i>		92.0 %	50-200	06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.1 %	50-150	06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2026020
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	Reported: 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-2 at 3'**  
**P006082-07 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane	90.1 %	50-200		06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.2 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	ND	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-2 at 4'**  
**P006082-08 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg				Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg				Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/25/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/25/20	
Surrogate: n-Nonane	74.1 %	50-200		06/25/20	06/25/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg				Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.0 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg				Batch: 2026020
Chloride	22.6	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-3 at 1'**  
**P006082-09 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	50-150	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
<i>Surrogate: n-Nonane</i>		96.6 %	50-200	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %	50-150	06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2026020
Chloride	221	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-3 at 2'**  
**P006082-10 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/26/20	
Toluene	ND	0.0250	1	06/25/20	06/26/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/26/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/26/20	
o-Xylene	ND	0.0250	1	06/25/20	06/26/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/26/20	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
Surrogate: n-Nonane	98.3 %	50-200		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/26/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	50-150		06/25/20	06/26/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	204	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-3 at 3'**  
**P006082-11 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		06/25/20	06/27/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
Surrogate: n-Nonane	79.9 %	50-200		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.8 %	50-150		06/25/20	06/27/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	233	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-3 at 4'**  
**P006082-12 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	50-150	06/25/20	06/27/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
<i>Surrogate: n-Nonane</i>						
		91.6 %	50-200	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.2 %	50-150	06/25/20	06/27/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	183	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-4 at 1'**  
**P006082-13 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg			Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	50-150	06/25/20	06/27/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg			Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
<i>Surrogate: n-Nonane</i>		93.0 %	50-200	06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg			Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.2 %	50-150	06/25/20	06/27/20	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg			Batch: 2026020
Chloride	157	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-4 at 2'**  
**P006082-14 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		06/25/20	06/27/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
Surrogate: n-Nonane	95.6 %	50-200		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	50-150		06/25/20	06/27/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	270	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	Reported: 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-4 at 3'**  
**P006082-15 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
Surrogate: 4-Bromochlorobenzene-PID						103 % 50-150 06/25/20 06/27/20
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
Surrogate: n-Nonane						93.2 % 50-200 06/25/20 06/26/20
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID						86.1 % 50-150 06/25/20 06/27/20
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	259	20.0	1	06/25/20	06/25/20	

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Logos Resources	Project Name:	Rosa Unit 312	Reported: 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**SB-4 at 4'**  
**P006082-16 (Solid)**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						Batch: 2026022
Benzene	ND	0.0250	1	06/25/20	06/27/20	
Toluene	ND	0.0250	1	06/25/20	06/27/20	
Ethylbenzene	ND	0.0250	1	06/25/20	06/27/20	
p,m-Xylene	ND	0.0500	1	06/25/20	06/27/20	
o-Xylene	ND	0.0250	1	06/25/20	06/27/20	
Total Xylenes	ND	0.0250	1	06/25/20	06/27/20	
Surrogate: 4-Bromochlorobenzene-PID	103 %	50-150		06/25/20	06/27/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						Batch: 2026023
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/20	06/26/20	
Oil Range Organics (C28-C40)	ND	50.0	1	06/25/20	06/26/20	
Surrogate: n-Nonane	95.8 %	50-200		06/25/20	06/26/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						Batch: 2026022
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/20	06/27/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	50-150		06/25/20	06/27/20	
<b>Anions by EPA 300.0/9056A</b>						Batch: 2026020
Chloride	461	20.0	1	06/25/20	06/26/20	

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Logos Resources	Project Name:	Rosa Unit 312	Reported: 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

## Volatile Organics by EPA 8021B - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Blank (2026022-BLK1)

Prepared: 06/25/20 1 Analyzed: 06/26/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	50-150			

## LCS (2026022-BS1)

Prepared: 06/25/20 1 Analyzed: 06/26/20 1

Benzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	50-150			

## Matrix Spike (2026022-MS1)

Source: P006082-01

Prepared: 06/25/20 1 Analyzed: 06/26/20 1

Benzene	5.21	0.0250	5.00	ND	104	54.3-133			
Toluene	5.36	0.0250	5.00	ND	107	61.4-130			
Ethylbenzene	5.28	0.0250	5.00	ND	106	61.4-133			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63.3-131			
o-Xylene	5.22	0.0250	5.00	ND	104	63.3-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	50-150			

## Matrix Spike Dup (2026022-MSD1)

Source: P006082-01

Prepared: 06/25/20 1 Analyzed: 06/26/20 1

Benzene	5.27	0.0250	5.00	ND	105	54.3-133	1.30	20	
Toluene	5.39	0.0250	5.00	ND	108	61.4-130	0.580	20	
Ethylbenzene	5.35	0.0250	5.00	ND	107	61.4-133	1.31	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63.3-131	1.28	20	
o-Xylene	5.33	0.0250	5.00	ND	107	63.3-131	2.08	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	0-200	1.55	200	
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		104	50-150			

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Logos Resources	Project Name:	Rosa Unit 312	
2010 Afton Place	Project Number:	12035-0114	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Robert Jordan	06/30/20 10:07

### Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Blank (2026023-BLK1)

Prepared &amp; Analyzed: 06/25/20 1

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			

#### LCS (2026023-BS1)

Prepared &amp; Analyzed: 06/25/20 1

Diesel Range Organics (C10-C28)	469	25.0	500		93.8	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

#### Matrix Spike (2026023-MS1)

Source: P006072-03

Prepared &amp; Analyzed: 06/25/20 1

Diesel Range Organics (C10-C28)	510	25.0	500	ND	102	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

#### Matrix Spike Dup (2026023-MSD1)

Source: P006072-03

Prepared &amp; Analyzed: 06/25/20 1

Diesel Range Organics (C10-C28)	489	25.0	500	ND	97.8	38-132	4.09	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

### Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (2026022-BLK1)</b>					Prepared: 06/25/20 1 Analyzed: 06/26/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.6	50-150		
<b>LCS (2026022-BS2)</b>					Prepared: 06/25/20 1 Analyzed: 06/26/20 1			
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	50-150		
<b>Matrix Spike (2026022-MS2)</b>					Source: P006082-01 Prepared: 06/25/20 1 Analyzed: 06/26/20 1			
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	50-150		
<b>Matrix Spike Dup (2026022-MSD2)</b>					Source: P006082-01 Prepared: 06/25/20 1 Analyzed: 06/26/20 1			
Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	0.911	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	50-150		

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Logos Resources	Project Name:	Rosa Unit 312	<b>Reported:</b> 06/30/20 10:07
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	

**Anions by EPA 300.0/9056A - Quality Control**

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level	Source Result mg/kg	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (2026020-BLK1)</b>						Prepared & Analyzed: 06/25/20 1			
Chloride	ND	20.0							
<b>LCS (2026020-BS1)</b>						Prepared & Analyzed: 06/25/20 1			
Chloride	249	20.0	250		99.6	90-110			
<b>Matrix Spike (2026020-MS1)</b>						<b>Source: P006082-01</b>	Prepared & Analyzed: 06/25/20 1		
Chloride	250	20.0	250	ND	100	80-120			
<b>Matrix Spike Dup (2026020-MSD1)</b>						<b>Source: P006082-01</b>	Prepared & Analyzed: 06/25/20 1		
Chloride	251	20.0	250	ND	100	80-120	0.136	20	

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Logos Resources	Project Name:	Rosa Unit 312	
2010 Afton Place	Project Number:	12035-0114	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Robert Jordan	06/30/20 10:07

#### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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## Project Information

## Chain of Custody

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Client: LOGOS Resources II, LLC				Bill To				Lab Use Only				TAT				EPA Program			
Project: Rosa Unit 312				Attention: Robert Jordan				Lab WO#				1D 3D				RCRA CWA SDWA			
Project Manager: Robert Jordan				Address:				Job Number											
Address: 2010 Afton Place				City, State, Zip				Analysis and Method								State			
City, State, Zip Farmington, NM 87401				Phone: 505-324-4145				DRO/DRO by 8015								NM CO UT AZ			
Phone: 505-320-1395				Email:				BTEX by 8021								TX OK			
Email: rjordan@logosresourcesllc.com				tsessions@logosresourcesllc.com				GRO/DRO by 8015											
Report due by:				mflorcz@logosresourcesllc.com															
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks													
9:15	6/24	S	1-4oz jar	SB-1 at 1'	1														
9:15	6/24	S	1-4oz jar	SB-1 at 2'	2														
9:20	6/24	S	1-4oz jar	SB-1 at 3'	3														
9:25	6/24	S	1-4oz jar	SB-1 at 4'	4														
9:30	6/24	S	1-4oz jar	SB-2 at 1'	5														
9:40	6/24	S	1-4oz jar	SB-2 at 2'	6														
9:45	6/24	S	1-4oz jar	SB-2 at 3'	7														
9:50	6/24	S	1-4oz jar	SB-2 at 4'	8														
9:55	6/24	S	1-4oz jar	SB-3 at 1'	9														
10:00	6/24	S	1-4oz jar	SB-3 at 2'	10														

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Robert Jordan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	6/24	4:50	<u>[Signature]</u>	6/24	16:53
<u>[Signature]</u>	6/24	4:50	<u>[Signature]</u>		
<u>[Signature]</u>			<u>[Signature]</u>		

Received on ice: Y / N

T1      T2      T3     

AVG Temp °C 4

Lab Use Only

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, sd - Solid, sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Ex (505) 632-1865

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 labadmin@envirotech-inc.com



## Chain of Custody

## Project Information

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Project Information				Bill To				Lab Use Only				TAT		EPA Program			
Client: LOGOS Resources II, LLC				Attention: Robert Jordan				Lab WO# 12035-0114				1D 3D		CWA SDWA			
Project: Rosa Unit 312				Address:				Job Number 12035-0114									
Project Manager: Robert Jordan				City, State, Zip				Analysis and Method						State			
Address: 2010 Afton Place				Phone: 505-324-4145				DRO/DRO by 8015						NM CO UT AZ			
City, State, Zip Farmington, NM 87401				Email: tflores@logosresourcesllc.com				BTEX by 8021						TX OK			
Phone: 505-320-1395				mflores@logosresourcesllc.com				VOC by 8260						Remarks			
Email: rjordan@logosresourcesllc.com				Lab Number				GRD/DRO by 8015									
Report due by:				Sample ID				DRO/DRO by 8015									
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number												
10:05	6/24	S	1-4oz jar	SB-3 at 3'	11	Chloride 300.0											
10:10	6/24	S	1-4oz jar	SB-3 at 4'	12	Metals 6010											
10:15	6/24	S	1-4oz jar	SB-4 at 1'	13												
10:20	6/24	S	1-4oz jar	SB-4 at 2'	14												
10:25	6/24	S	1-4oz jar	SB-4 at 3'	15												
20:30	6/24	S	1-4oz jar	SB-4 at 4'	16												
Additional Instructions:																	

Note: Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Received on ice: Y N

Lab Use Only

Received on ice: Y N

T1 T2 T3

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5798 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Ex (505) 632-1885

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

CONDITIONS  
  
Action 9108

**CONDITIONS OF APPROVAL**

Operator:	LOGOS OPERATING, LLC	2010 Afton Place	Farmington, NM87401	OGRID:	289408	Action Number:	9108	Action Type:	C-141
OCD Reviewer	Condition								
csmith	None								