

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

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party LOGOS Operating, LLC	OGRID: 320608
Contact Name: Larissa Farrell	Contact Telephone: 505-787-2027
Contact email: lfarrell@logosresourcesllc.com	Incident # (assigned by OCD) NVF1908430075
Contact mailing address: 2010 Afton Place Farmington NM 87401	

Location of Release Source

Latitude 36.9264641 _____ Longitude -107.41082 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rosa Unit 240A	Site Type: Gas Well
Date Release Discovered: 3/11/19	API# (if applicable) 30-039-30110

Unit Letter	Section	Township	Range	County
J	01	31N	06W	Rio Arriba

MMOCD
JUN 04 2019
DISTRICT 100

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) 180 bbls	Volume Recovered (bbls) 180 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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)

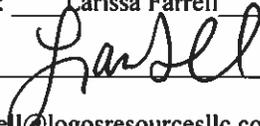
Cause of Release: The capstone was not working properly which caused the transfer pump to not work as it should therefore the tank overflowed releasing 180 bbls of produced water.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of release exceeds 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Larissa spoke with Vanessa Fields at approximately 11:00 am on 3/12/19. Larissa also spoke with Emanuel with BLM at approximately 11:10am. Follow up email was sent to Emanuel at 1:12 pm on 3/12/19.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>Larissa Farrell</u> Title: <u>Reg/Env Technician</u> Signature:  Date: <u>3/22/19</u> email: <u>lfarrell@logosresourcesllc.com</u> Telephone: <u>505-787-2027</u>
OCD Only Received by: _____ Date: _____

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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?	<u>300</u> (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 not 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 1/2-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

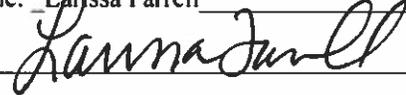
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

State of New Mexico
Oil Conservation Division

Incident ID	
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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: Larissa Farrell Title: Environmental/Regulatory Technician

Signature:  Date: _____

email: lfarrell@logosresourcesllc.com Telephone: (505) 787-2027

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

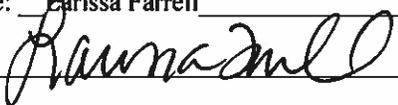
Closure

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: Carissa Farrell Title: Environmental/Regulatory Technician
 Signature:  Date: _____
 email: lfarrell@logosresourcesllc.com Telephone: (505) 787-2027

OCD Only

Received by: Cory Via Email Date: 6/4/19

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: 7/23/19
 Printed Name: Cory Title: Environmental Specialist



2010 Afton Place
Farmington, NM 87401
Phone: (505) 324-4145
Fax: (505) 326-6112

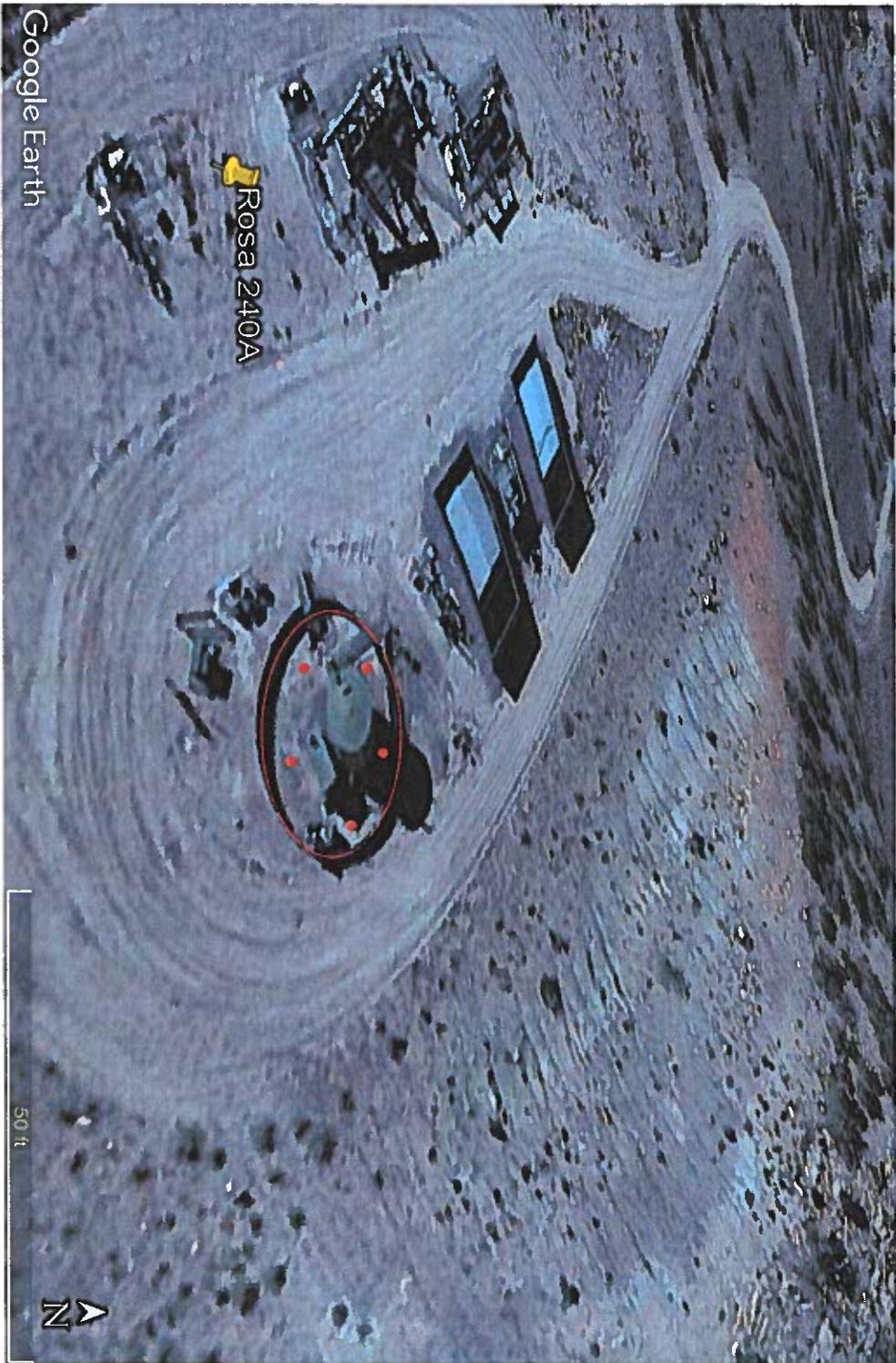
May 28, 2019

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410
RE: Rosa Unit 240A Release (NVF1908430075)

The release at the Rosa Unit 240A was discovered on March 12, 2019. LOGOS Operating (LOGOS) shut in the well and dispatched a water truck to pull the fluid from the secondary containment immediately. The water truck responded within an hour of being dispatched. The temperature had been below freezing and there was snow covering the ground. The secondary containment was not lined but due to the ground being frozen, the produced water was unable to seep into the soil and remained on the surface. LOGOS was able to recover all fluids from the secondary containment. LOGOS sampled the area on April 15, 2019. The analytical results showed that all constituents were under the Table I thresholds and no further remediation was required. Please see attached analytical results

Sincerely,

Larissa Farrell
Environmental/Regulatory Technician

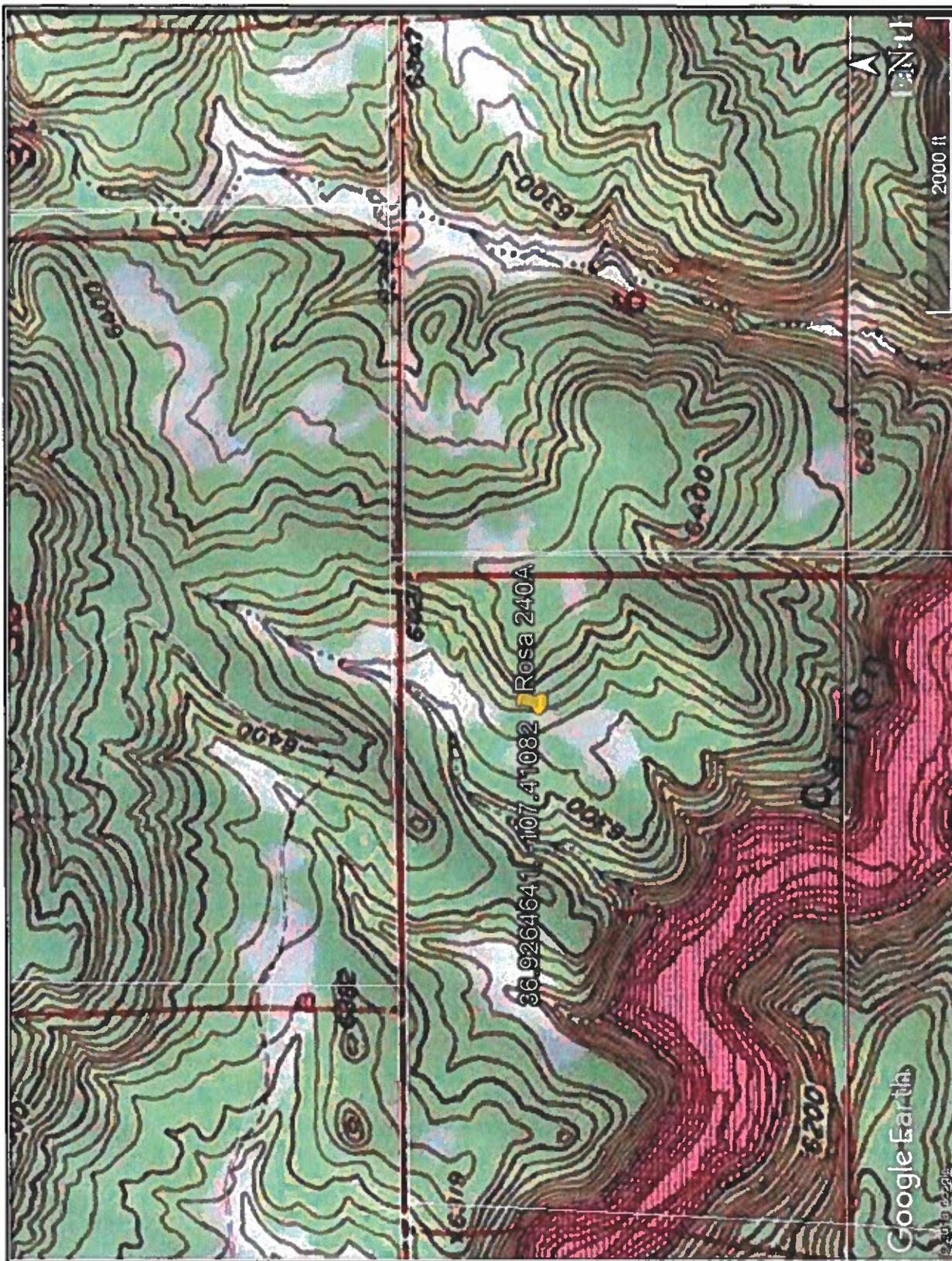


Google Earth

- Legend
- 5 pt. Composite Sample
 - Impacted Area

LOGOS Operating, LLC - Rosa Unit 240A
Scaled Site and Sampling Diagram
Unit J, Section 1, T31N, R6W
Rio Arriba County, NM





LOGOS Operating, LLC - Rosa Unit 240A

Topo Map

Unit J, Section 1, T31N, R6W

Rio Arriba County, NM



Google Earth

3758

30-039-25031

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Meridian Oil Co. Location: Unit J Sec. 01 Twp 31 Rng 06

Name of Well/Wells or Pipeline Serviced _____

ROSA UNIT #240

Elevation _____ Completion Date 6-6-93 Total Depth 440' Land Type F

Casing Strings, Sizes, Types & Depths 10/21 Set 59' of 8" PVC Casing.

NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.

If Casing Strings are cemented, show amounts & types used Cemented

WITH 13 SACKS. *INSTALLED 19' OF 12" PVC OUTER CASING IN LOOSE FILL.

If Cement or Bentonite Plugs have been placed, show depths & amounts used

None

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. Damp at 11' and 16.5'

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 440'

120' layer of Rubbery coke breeze.

Depths anodes placed: 420, 465, 395, 380, 365, 350, 335, 325, 315, 305, 295, 280, 270, 260, 245

Depths vent pipes placed: 440'

Vent pipe perforations: Pattern 300'

Remarks: _____

RECEIVED

JAN 31 1994

OIL CON. DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

DUCTION
WATER







Analytical Report

Report Summary

Client: Logos Operating, LLC

Samples Received: 4/15/2019

Job Number: 12035-0114

Work Order: P904056

Project Name/Location: Rosa 240A

Report Reviewed By:

Date: 4/19/19

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. currently holds the appropriate and available Utah TNi certification NM009792018-1 for the data reported.



Logos Operating, LLC	Project Name:	Rosa 240A	
PO Box 18	Project Number:	12035-0114	Reported:
Flora Vista NM, 87415	Project Manager:	Larissa Farrell	04/19/19 08:37

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Rosa 240 A	P904056-01A	Soil	04/15/19	04/15/19	Glass Jar, 4 oz.
	P904056-01B	Soil	04/15/19	04/15/19	Glass Jar, 4 oz.

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Logos Operating, LLC	Project Name: Rosa 240A	
PO Box 18	Project Number: 12035-0114	Reported: 04/19/19 08:37
Flora Vista NM, 87415	Project Manager: Larissa Farrell	

**Rosa 240 A
P904056-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.0250	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1916011	04/16/19	04/17/19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1916011	04/16/19	04/17/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1916002	04/16/19	04/16/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %		50-150	1916011	04/16/19	04/17/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	1916002	04/16/19	04/16/19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	86.8	20.0	mg/kg	1	1916010	04/16/19	04/16/19	EPA 300.0/9056A	

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Rosa 240A Project Number: 12035-0114 Project Manager: Larissa Farrell	Reported: 04/19/19 08:37
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1916011 - Purge and Trap EPA 5030A

Blank (1916011-BLK1)		Prepared: 04/16/19 1 Analyzed: 04/17/19 1								
Benzene	ND	0.0250	mg/kg							
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	8.01		"	8.00		100	50-150			

LCS (1916011-BS1)		Prepared: 04/16/19 1 Analyzed: 04/17/19 1								
Benzene	4.78	0.0250	mg/kg	5.00		95.6	70-130			
Toluene	5.19	0.0250	"	5.00		104	70-130			
Ethylbenzene	5.18	0.0250	"	5.00		104	70-130			
p,m-Xylene	10.7	0.0500	"	10.0		107	70-130			
o-Xylene	5.18	0.0250	"	5.00		104	70-130			
Total Xylenes	15.9	0.0250	"	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		"	8.00		101	50-150			

Matrix Spike (1916011-MS1)		Source: P904056-01		Prepared: 04/16/19 1 Analyzed: 04/17/19 1						
Benzene	4.77	0.0250	mg/kg	5.00	ND	95.5	54.3-133			
Toluene	5.18	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.15	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.6	0.0500	"	10.0	ND	106	63.3-131			
o-Xylene	5.15	0.0250	"	5.00	ND	103	63.3-131			
Total Xylenes	15.8	0.0250	"	15.0	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.97		"	8.00		99.6	50-150			

Matrix Spike Dup (1916011-MSD1)		Source: P904056-01		Prepared: 04/16/19 1 Analyzed: 04/17/19 1						
Benzene	4.76	0.0250	mg/kg	5.00	ND	95.1	54.3-133	0.347	20	
Toluene	5.16	0.0250	"	5.00	ND	103	61.4-130	0.375	20	
Ethylbenzene	5.14	0.0250	"	5.00	ND	103	61.4-133	0.242	20	
p,m-Xylene	10.6	0.0500	"	10.0	ND	106	63.3-131	0.173	20	
o-Xylene	5.15	0.0250	"	5.00	ND	103	63.3-131	0.0204	20	
Total Xylenes	15.8	0.0250	"	15.0	ND	105	63.3-131	0.110	20	
Surrogate: 4-Bromochlorobenzene-PID	7.90		"	8.00		98.7	50-150			

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Logos Operating, LLC	Project Name:	Rosa 240A	
PO Box 18	Project Number:	12035-0114	Reported:
Flora Vista NM, 87415	Project Manager:	Larissa Farrell	04/19/19 08:37

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1916002 - DRO Extraction EPA 3570

Blank (1916002-BLK1)		Prepared & Analyzed: 04/16/19 0								
Diescl Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	51.1		"	50.0		102	50-200			
LCS (1916002-BS1)		Prepared: 04/16/19 0 Analyzed: 04/16/19 1								
Diescl Range Organics (C10-C28)	520	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	47.8		"	50.0		95.7	50-200			
Matrix Spike (1916002-MS1)		Source: P904055-01		Prepared: 04/16/19 0 Analyzed: 04/16/19 1						
Diescl Range Organics (C10-C28)	516	25.0	mg/kg	500	ND	103	38-132			
Surrogate: n-Nonane	43.0		"	50.0		86.1	50-200			
Matrix Spike Dup (1916002-MSD1)		Source: P904055-01		Prepared: 04/16/19 0 Analyzed: 04/16/19 1						
Diescl Range Organics (C10-C28)	517	25.0	mg/kg	500	ND	103	38-132	0.129	20	
Surrogate: n-Nonane	43.1		"	50.0		86.2	50-200			

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Rosa 240A Project Number: 12035-0114 Project Manager: Larissa Farrell	Reported: 04/19/19 08:37
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1916011 - Purge and Trap EPA 5030A

Blank (1916011-BLK1)		Prepared: 04/16/19 Analyzed: 04/17/19								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		"	8.00		93.5	50-150			
LCS (1916011-BS2)		Prepared: 04/16/19 Analyzed: 04/17/19								
Gasoline Range Organics (C6-C10)	51.1	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		"	8.00		95.0	50-150			
Matrix Spike (1916011-MS2)		Source: P904056-01		Prepared: 04/16/19 Analyzed: 04/17/19						
Gasoline Range Organics (C6-C10)	51.9	20.0	mg/kg	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			
Matrix Spike Dup (1916011-MSD2)		Source: P904056-01		Prepared: 04/16/19 Analyzed: 04/17/19						
Gasoline Range Organics (C6-C10)	53.8	20.0	mg/kg	50.0	ND	108	70-130	3.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		"	8.00		96.2	50-150			

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Rosa 240A Project Number: 12035-0114 Project Manager: Larissa Farrell	Reported: 04/19/19 08:37
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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1916010 - Anion Extraction EPA 300.0/9056A

Blank (1916010-BLK1)		Prepared & Analyzed: 04/16/19 1								
Chloride	ND	20.0	mg/kg							
LCS (1916010-BS1)		Prepared & Analyzed: 04/16/19 1								
Chloride	254	20.0	mg/kg	250		101	90-110			
Matrix Spike (1916010-MS1)		Source: P904056-01		Prepared & Analyzed: 04/16/19 1						
Chloride	354	20.0	mg/kg	250	86.8	107	80-120			
Matrix Spike Dup (1916010-MSD1)		Source: P904056-01		Prepared & Analyzed: 04/16/19 1						
Chloride	341	20.0	mg/kg	250	86.8	102	80-120	3.77	20	

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Logos Operating, LLC	Project Name:	Rosa 240A	
PO Box 18	Project Number:	12035-0114	Reported:
Flora Vista NM, 87415	Project Manager:	Larissa Farrell	04/19/19 08:37

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

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