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

Revised June 6, 2013

Form C-144

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

☐ Modification to an existing pe	ernative method tank, or proposed alternative method
Instructions: Please submit one application (Form C-1-	44) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liab environment. Nor does approval relieve the operator of its responsibility to comp	bility should operations result in pollution of surface water, ground water or the ly with any other applicable governmental authority's rules, regulations or ordinances.
Degrator: Logos Operating, LLC.	OGRID #: 289408
Address: 4001 North Butler Ave, Building 7101, Farmington, NM 87401	
Facility or well name: Roadrunner 2X	
	OCD Permit Number:
U/L or Qtr/Qtr H Section 02 Township 24N	
Center of Proposed Design: Latitude <u>36.343611°N</u>	Longitude107.646111°W NAD: ☐ 1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian A	llotment
□ Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: □ Drilling □ Workover □ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid □ Lined □ Unlined Liner type: Thickness mil □ LLDPE □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other	
3.	RCVD JAN 6'14
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC	TT
Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal	DIST. 3
Secondary containment with leak detection Visible sidewalls, liner	. 6-inch lift and automatic overflow chut-off
✓ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thicknessmil	
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted.	ed to the Santa Fe Environmental Bureau office for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, a Chain link, six feet in height, two strands of barbed wire at top (Required institution or church) Four foot height, four strands of barbed wire evenly spaced between one	d if located within 1000 feet of a permanent residence, school, hospital,
Alternate. Please specify: 4' hog wire with one strand of barbed wire of	on top

,	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
5. Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.16.8 NMAC	
8.	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; Data obtained from nearby wells	Yes No
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No

1	
Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 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 private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit N	NMAC 15.17.9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.	documents are
 ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 	
 □ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC □ Quality Control/Quality Assurance Construction and Installation Plan □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan 	
 □ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan 	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial	
Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
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
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believe	ef.
Name (Print): Tamra Sessions Title: Operations Technician	
Signature: 12/3/1/3	
e-mail address: tsessions@logosresourcesllc.com Telephone: 505-330-9333	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)	
OCD Representative Signature: Approval Date:	14
Title: Compliance Volte OCD Permit Number:	
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	the closure report. complete this
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please inc	licate, by a check
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	
☐ Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: ☐1927	

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure republief. I also certify that the closure complies with all applicable closure requireme	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Logos Operating, LLC San Juan Basin Variance Explanation

C-144 Item #5 Fencing

Per 19.15.17.11 D (3) The operator shall fence any other pit or below-grade tank to exclude livestock with a 'four foot fence that has at least four strands of barbed wire' evenly spaced in the interval between one foot and four feet above ground level.

Logos Operating has requested a variance on the fencing material and plans to use 4' hog wire with one strand of barbed wire on top.



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

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

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD			,					·				
	Sub-	-	Q			_						•	Water
POD Number	Code basin County	64	16	4	Sec	Tws	Rng	X		Distance			Column
SJ 03275	SJ	4	2	2	25	25N	W80	264502	4028868* 🚱	3968	57	18	39
SJ 00681 39	RA	4	2	2	18	24N	07W	265824	4022392* 🎧	4431	1825	500	1325
SJ 01131	RA		1	4	19	24N	07W	265313	4020131* 👸	5941	1700	400	1300
SJ 00681 37	RA	2	1	1	15	24N	07W	269408	4022501*	7427	190		
SJ 01335	RA			1	31	24N	07W	264672	4017581* 🗐	8097	185		
SJ 00870	SJ		2	3	36	24N	W80	263248	4017010* 🕣	8418	250		
SJ 00960 S	SJ	3	1	3	36	24N	W80	262744	4016920* 🕣	8482			
SJ 00960 S-2	SJ	3	2	3	36	24N	W80	263147	4016909*	8511			
SJ 00960 S-3	SJ	2	4	3	36	24N	W80	263336	4016707*	8727			
RG 26087	TA							269459	4019931	8795	440		
SJ 00960	SJ	3	3	3	36	24N	W80	262730	4016518*	8884			
SJ 02686	SJ	3	4	2	32	24N	W80	257502	4017472*	9410	690	690	0
SJ 01304	SJ						W80	263823	4015987*	9497	100		
SJ 01334	SJ			2	01	23N	W80	263823	4015987* 😭	9497	90	40	50

Average Depth to Water:

329 feet

Minimum Depth:

18 feet

Maximum Depth:

690 feet

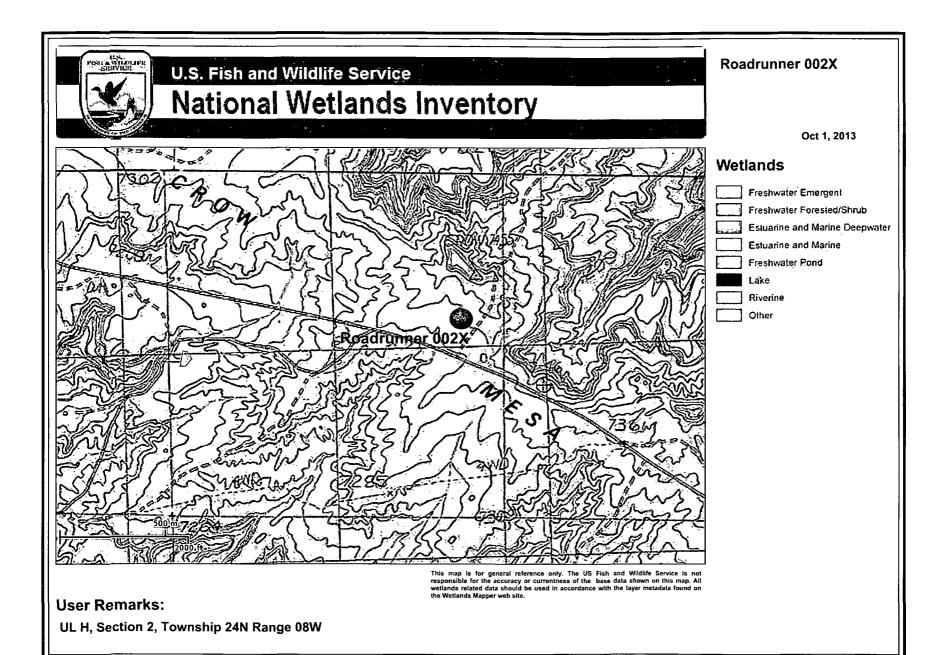
Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 262570

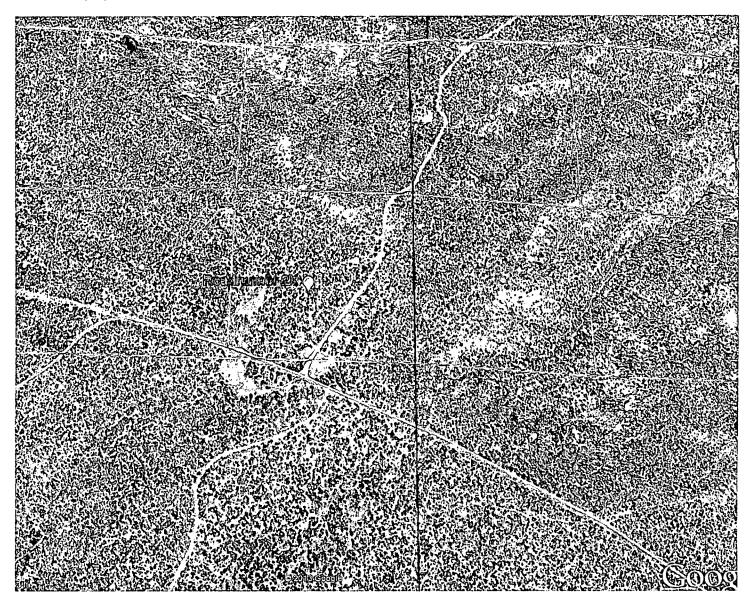
Northing (Y): 4025401

Radius: 10000

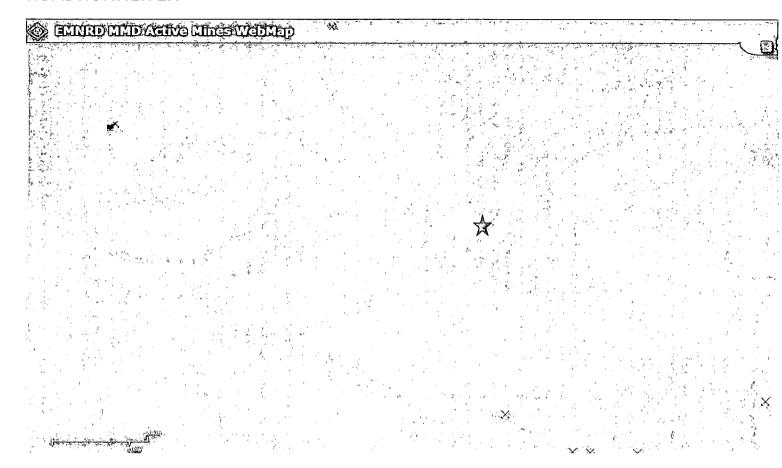


ROADRUNNER 2X – AERIAL MAP 10/1/2013

H SEC 2 T24N R08W



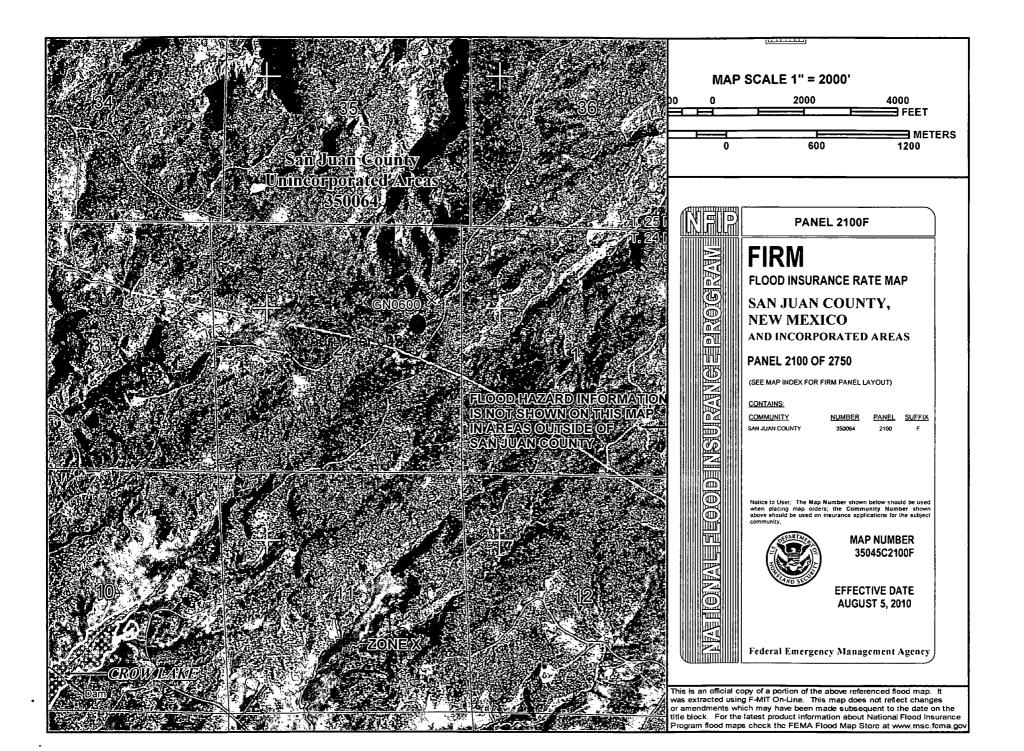
MINES, MILLS, AND QUARRIES MAP ROADRUNNER 2X



Roadrunner 002X - Latitude 36.343814N / Longitude 107.644539W (NAD83)

There are no mines, mills, or quarries within any close distance.

Data source: New Mexico Active Mines Map



Hydro geological report for Roadrunner 002X

Regional Hydro geological context:

The Roadrunner 002X is located on state land in San Juan County, New Mexico. The well location is in the SE/NE quarter of Section 2 in Township 24N, Range 08W. The well is located atop Crow Mesa in the Chaco Canyon region. The regional terrain is comprised of a series of canyons. The area contains drainage basins in the flat valley regions of the canyon. The well is not near any floodplains or protected wetlands.

A records search of the New Mexico Office of the State Engineer iWaters database indicates that the closest known water well is 3968 meters away in the NE/NE quarter of Section 25, Township 25N Range 08W. The depth of the well is 57 feet and depth to ground water is 18 feet. It should be noted that this well is on the valley floor of the canyon, near a water source. On the contrary, the proposed well is on the flat top of the canyon. The next water-bearing well is 4431 meters away in Section 18 of T25N R07W. The depth of the well is 1825 feet and depth to ground water is 500 feet. The average depth to water is 329 feet and the minimum depth is 18 feet (see attached iWaters data).

Geologic maps of the area indicate that the surface is comprised of the Cuba Mesa Member and Regina Member of the San Jose Formation. The canyon walls are composed of the Cuba Mesa Member, which is a coarse-grained conglomerate sandstone. The thickness can be up to 245 meters. The tops of the canyons are composed of the Regina Member. It is composed of shale, siltstone, mudstone, and silty sandstone. It can be up to 490 meters thick.

Logos Operating, LLC Roadrunner 002X Below Grade Tank Registration Siting Criteria RCVD JAN 8'14 OIL CONS. DIV. DIST. 3

- 1. A records search of the New Mexico Office of the State Engineer iWaters database indicates that the closest known water well is 3968 meters away in the NE/NE quarter of Section 25, Township 25N Range 08W. The depth of the well is 57 feet and depth to ground water is 18 feet. It should be noted that this well is on the valley floor of the canyon, near a water source. On the contrary, the proposed well is on the flat top of the canyon. The next water-bearing well is 4431 meters away in Section 18 of T25N R07W. The depth of the well is 1825 feet and depth to ground water is 500 feet. The average depth to water is 329 feet and the minimum depth is 18 feet (see attached iWaters data).
- 2. The elevation of the subject well is 7368' and the elevation of the closest water well (SJ 03275) is approximately 6600', ground water depth for the subject well will be approximately 786'. The elevation of the next closest water well (SJ 00681039) is approximately 7200', ground water depth for the subject well will be approximately 668'. Ground water depth for the subject well is greater than 100' from the bottom of the below grade tank.
- 3. As shown on the attached topographic map and aerial photos, there are no continuously flowing watercourses within 100' of the well, or any significant watercourses, lakebeds, sinkholes, or playa lakes within 200' of the well.
- 4. There are no permanent residences, schools, hospitals, institutions, or churches within 300' of the well.
- 5. There are no domestic water wells or springs within 200' of the well. See iWaters database printout.
- 6. The well is not located within any municipal boundaries.
- 7. The well is not within 100' of any wetlands. See attached topographic map and aerial photos.
- 8. There are no subsurface mines in Section 2, T24N R08W. See attached map from the NM EMNRD Mining and Mineral Division.
- 9. The Roadrunner 002X is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location will not be within 100' of a continuously flowing watercourse or 200' from any other watercourse.
- 10. The FEMA map for the subject well indicates that the well is not on a 100-year floodplain. See attached
- 11. In the event that the composite pit sample that is mixed 3:1 with native soils does not meet the requirements for onsite burial, the pit contents will be removed and disposed of at the Envirotech Land Farm #2 (NMOCD Permit #11)

DISTRICT I
1825 M. French Dr., Hobbs, N.M. 88240
Phone: (576) 393-6161 Fax: (576) 393-0720
DISTRICT II
611 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (576) 748-9720
DISTRICT III
1000 Ro Brance Rd., Axteo, N.M. 87410
Phone: (505) 534-6176 Fax: (506) 534-6170
DISTRICT IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

¹ API	Number	······································	ل بلايانات	Pool Code	N AND AC	J 1 N 1 D P	TOU DUDI	UM I	Pool Nam					
30 045		494	11	1850	7		DUF	ERS	POINT GA					
Property C	ode				*Property		_ /				t A.	all Number		
40163					DAD RUNNER ROadrunner 2X									
OGRID NO					•	erator Name Bevation						7368'		
289408	5				OGOS OPERA			 				7300		
10 \-1		1	·		¹⁰ Surface			W4	A.m. the	East/West	11-0	T 6		
UL or lot no.	Section 2	Township 24-N	Range 8-W	Lot Idn	Feet from the 2340					713 EAS			SAN JUAN	
		1		om Hole		It Di	fferent Fro	m (, Lawrence,		
UL or lot no.	Section	Township	Range	Lot ldn	Foet from the		rth/South line		from the	East/West	lline	County		
		,												
Dedicated Acre	:5	·	13 Joint or	Infill	14 Consolidation	Code		"Ord	order No.					
16	8.6	\mathcal{O}												
NO ALLOW			SSIGNE	O TO THI	S COMPLET	ION	UNTIL ALL	INTF	RESTS F	HAVE BE	EN CO	NSOLIDATEI		
a					JNIT HAS B									
1-25-				N89	15214"W -		.56'(M)			- 	appm	IPICATION		
T-24-1	٧		FND GLO	FND GLO-			FND GLO "1947" BC	1 _	1			IFICATION on contained herein		
		N89*44	'52"w /				1377 56	1/3	is true and		the best o	f my knowledge and		
	į	102.6			i t			26.0	a working	bulerest or un	leased mis	neral interast in the hole location or is location pursuant		
LOT 4	1			LOT	7 2		LOT 1	731	to a contra	ct with an ou	unar of ma	oh a mineral or		
	. !	LOT.	3		!			-27	or a compu division.	interest, or to leary pooling	a volunto arder here	ery pooling agreement stafors entered by the		
			1		!	2340		8			1	1 , 1		
								9,28			1	10/10/1		
	ì		1					60.008			7./			
	!		۰		1			S	Elgnatur	/ 	/Da	to		
			·;		1		STATE	0.8.)		ns him.	AL	C (S)		
	1							8.0	Printed !	Name (a)	oce	resources 11		
	1		. 1				-O 713'		B-mail A		203,	וי נכי		
	į			\	i	390,	·	1						
•	<u>j</u>				·		FND GLO	(18 SUI	RVEYOR	CERT	IFICATION		
	l ·			LATIT	UDE: 36'20.61	179' N	*1947" BO					ion shown on this p wai surveys made by		
			ļ		TUDE: 107 38	3.7098	' W		me or unde	my impervio	nion, and t	that the same to tru		
.				NAD2	i/				and correct	to the best of	unh oetre	7.		
-09°3	32° E				UDE: 36.3436		W		Date of S	ER 9, 20	71.3 xxx	N. R. V.S.		
NO				NADS	STUDE: 107.64	+3112	П			•	EN	A MESSAN CON		
#-E	 							4	menteres a	and Soal of	4. A.	LAS 18		
	i 1				i					Ħ.	_: `/.	15703) E		
٥	,	ASIS OF BE			İ						CENSES O			
MAGNETIC	! Q	UARTER CORN	VER OF SEC	TION 2, TOWN	IORTHEAST CORN SHIP 24 NORTH.					Ŋ	NO DE	FESSION ALESSA		
英麗멸	l N	M.P.M. SAN	JUAN COUN'	IT, NEW MEXI	CO.			1 1			You MO	FECCIONAL		
Ε I	!		1		E OF 2731.56 FE				Jan 1 55 3. 1 1. 1	V. RUSS	- decorati	Timmuna Strategy		



Logos Operating Below Grade Tank Design and Construction Plan

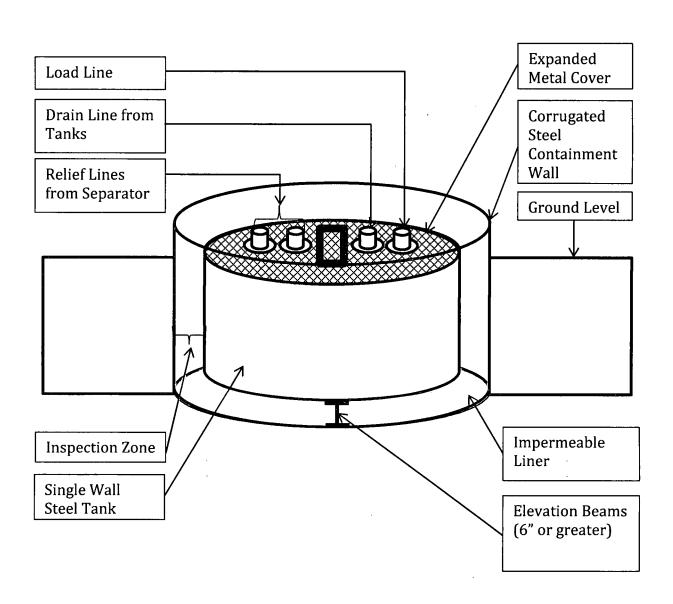
In accordance with NMAC 19.15.17, the following information describes the design and construction plan for below grade tanks (BGT) for Logos Operating, LLC (Logos). This is a standard design and construction plan for Logos.

General Plan in Accordance with 19.15.17.11

- 1. Logos will design and construct a BGT to contain liquids and solids that is designed to prevent contamination of fresh water and protect public health and the environment.
- 2. The location of the BGT will be at a battery or well location which contains proper upright signs (in compliance with 19.15.16.8 NMCA).
- 3. The BGT will be contained within the operating berm and will be protected with fencing to deter unauthorized access. The BGT will have an expanded metal cover.
- 4. The BGT will be constructed out of steel which is resistant to the particular contents and resistant to damage from sunlight. The pit will be painted to minimize rust and corrosion.
- 5. The foundation will be level, free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks, indentations of the liner or tank bottom.
- 6. The BGT will be designed and constructed to prevent surface water run-on from entering the tank. The corrugated steel wall surrounding the pit will be above grade and will prevent water from running into the BGT.
- 7. The BGT will have a single wall that is capable of being inspected. The BGT will have a corrugated steel wall barrier that prevents the ground from collapsing around the BGT and allows for the BGT to be thoroughly inspected by providing a direct sight line to the BGT bottom and to the BGT impermeable liner.
- 8. The BGT will be set on beams, six inches or greater, on the liner in way that will protect the bottom of the BGT from sharp objects.
- 9. The BGT will only be used under manual conditions to drain tank bottoms or to relieve pressure off of separators. Fluid will not be continuously pumped into this tank, therefore, this design is based on 19.15.17.11.I.4.c. The BGT's are located at batteries that have primary water tanks so that the BGT is not used as a primary water pit, it is only used as a drain pit.
- 10. An impermeable liner will be installed below the BGT so that any leak in the BGT will flow to a visible point on top of the impermeable liner.



Logos Operating Below Grade Tank Design





Logos Operating Below Grade Tank Operation and Maintenance Plan

In accordance with NMAC 19.15.17, the following information describes the operation and maintenance plan for below grade tanks (BGT) for Logos Operating, LLC (Logos). This is a standard procedure for Logos.

General Plan in Accordance with 19.15.17.12

- 1. Logos will operate and maintain the BGT to contain liquids and solids while maintaining the integrity of the liner, BGT, and corrugated steel wall. The operation and maintenance are plan are designed to prevent contamination of fresh water and protect public health and safety.
- 2. Logos will not store or discharge hazardous waste into the BGT.
- 3. If the BGT develops a leak, Logos will remove all of the fluids from the BGT within 48 hours and notify the appropriate division office pursuant to 19.15.29 NMAC. Logos will immediately take the BGT out of service until it is properly repaired or replaced.
- 4. The BGT will be operated and designed to prevent the collection of surface water run-on.
- 5. The BGT will be bounded by a corrugated steel wall which will contain an unanticipated release. The BGT and corrugated steel wall are also located inside of the berm which will act as a secondary containment barrier in the event of an unanticipated release.
- 6. Logos will not allow the BGT to overflow or collect surface water run on.
- 7. Logos will remove any measurable layer of oil from the BGT.
- 8. The BGT will be inspected at least monthly and the integrity will be documented annually with records maintained for at least 5 years.
- 9. The BGT will be operated with adequate freeboard to prevent overtopping of the BGT.



Logos Operating Below Grade Tank Closure Plan

In accordance with NMAC 19.15.17.13, the following information describes the closure plan for below grade tanks (BGT) for Logos Operating, LLC (Logos).

General Plan in Accordance with 19.15.17.13

- 1. Logos will obtain approval of a closure plan prior to commencing closure operations.
- 2. Logos will close the BGT by first removing all contents and liners and disposing the contents at an approved facility as necessary.
- 3. The soils beneath the BGT will be tested as follows:
 - a. A five point composite sample including any obvious staining shall be taken under BGT and will be analyzed for constituents listed in Table I of 19.15.17.13 NMAC.
 - b. Based on the results of the soil test, Logos will obtain approval prior to completing any necessary additional delineation for closure. If the soil tests are at or below the standards of closure, Logos will proceed with closure.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8015M	10
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	1000
Chlorides	EPA 300.0	20,000

- 4. Logos will notify the surface owner by certified mail, return receipt requested, of plans to close the BGT with at least 72 hour notice, but no more than 1 week, prior to any closure operation. The notice will include the well name, API number, and location.
- 5. Logos will notify the appropriate district office verbally and in writing with at least 72 hours of notice but no more than 1 week. The notice will include well name and API number as well as the location containing unit letter, section, township, and range.
- 6. Logos will submit a closure report on form C-144 within 60 days of closure completion. The closure report will contain back filling details, capping and covering where applicable, all necessary attachments, certification that all information contained in the report is correct and that the operator has complied with all applicable closure requirements to the best of its knowledge.

- 7. Logos will remove liquids and sludge from the BGT within 60 days of cessation of operations and dispose of those at a division approved facility.
- 8. Within 6 months of cessation of operations, Logos will remove the BGT and all associated equipment associated with only the BGT. Equipment that is required for other purposes will remain in place.
- 9. Upon closing of the BGT, Logos will reclaim the unused BGT location to a safe and stable condition that blends with the surrounding undisturbed area as provided in Paragraph 2 of subsection H of 19.15.17.13 as well as recontouring the area in accordance with paragraph 5 in subsection H of 19.15.17.13 NMAC. The soil cover will be constructed to prevent ponding of water and erosion of the cover material.
- 10. Areas needed for production operations will be compacted, stabilized, and maintained to minimize dust and erosion as much as practicable.
- 11. The reclamation of the BGT area will contain a uniform vegetative cover that reflects a life-form ratio of plus or minus fifty (50%) of pre-disturbance levels and a total percent plant cover of at least seventy (70%) of pre-disturbance levels, excluding noxious weeds. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies that manage the lands will supersede these provisions and govern the obligations.
- 12. Logos will notify the division when reclamation and re-vegetation is complete.