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-144 Revised June 6, 2013

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.

PCUD SEP 30 '14

<u>Pit, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: LOGOS OPERATING, LLC OGRID #: 289408
Address: 4001 NORTH BUTLER AVENUE, BUILDING 7101 FARMINGTON NM 87401
Facility or well name: LOGOS 12
API Number: 30-043-21160 OCD Permit Number: 11409
U/L or Qtr/Qtr J Section6 Township22N Range5W County: SANDOVAL
Center of Proposed Design: Latitude36.16568° NLongitude107.40033° W NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
☑ Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☑ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☑ Lined ☐ Unlined Liner type: Thickness20mil ☑ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory ☐ Other Volume: 8,000 bbl Dimensions: L 130 x W 60 x D 10
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-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 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, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify 4' HOG WIRE WITH ONE STRAND OF BARBED WIRE 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)	
7.	
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	
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 acceptate 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; USGS; Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. 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).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
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 application.	☐ Yes ☐ No
- 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

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								
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								
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site								
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC							
Instructions: 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 19.15.17.12 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 Number:								
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 doc attached. 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	15.17.9 NMAC							
Previously Approved Design (attach copy of design) API Number: or Permit Number:								

Form C-144 Oil Conservation Division Page 3 of 6

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	e 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 Alternative 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	Fluid Management Pit
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attacked to the
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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
is. 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 or ovided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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
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
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 ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Vithin 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
Vithin 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence to the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Vritten confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Vithin 300 feet of a wetland. IS Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

 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	an. Please indicate,
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. 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 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	15.17.11 NMAC
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 believes the complete to the best of my knowledge.	of.
Name (Print): Title:	
Signature: Date:	
e-mail address:Telephone:	
e-mail address:	,
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number: OCD Permit Number: 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 at the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete the completion of the closure activities.	1he closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number: 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 at the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 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 at the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 04/11/14 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loc	the closure report. complete this

Oil Conservation Division

n'	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements a	
Name (Print): Jamie Goodwin Signature: Goodwin	Title: Regulatory Tech. Date: 9/29//4
e-mail address/JGoodwin@logosoperating.com	Telephone: 505-330-9333

Logos Operating, LLC San Juan Basin Closure Report

Lease Name: LOGOS 12 API NO: 30-043-21160

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Logos Operating, LLC (Logos) locations. This is Logos' standard procedure for all temporary pits. A Separate plan will be submitted for any temporary pit that does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of the pit closure. Closure report will be filed on C-144 and incorporated the following:

- Detail on Capping and Covering, where applicable (See report)
- Plot Plan (Pit diagram) (Included as an attachment)
- Inspection reports (Included as an attachment)
- Sampling Results (Included as an attachment)
- C-105 (Included as an attachment)
- Copy of Deed Notice will be filed with County Clerk (Not required on Federal, State or Tribal land as stated by FAQ dated October 30, 2008)

General Plan

1 All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.

All recovered liquids were disposed of at Basin Disposal (permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B.

The preferred method of closure for all temporary pits will be on-site burial, assuming that all criteria listed in sub-section (D) of 19.15.17.13 are met.

The pit was closed using onsite burial.

The surface owner shall be notified of Logos proposed closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested.

The closure process notification to the landowner was sent via certified mail. (See attached)

4 Within 6 months of the Rig Off status occurring Logos will ensure that temporary pits are closed, recontoured, and reseeded.

The closure plan requirements were met due to rig move off date as noted on C-105. (See attached).

- 5 Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally, The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API Number

Notification is attached.

6 Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.

Logos mixed the pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of not more than 3 parts clean soil to 1 part pit contents. Excess fill was hauled from Logos 12 pit to Logos 601H pit: ~561yds.

7 A five point composite sample will be taken of the pit using sampling tools and all samples tested per 19.15.17.13(D)(5). In the event that the criteria are not met, all contents will be handled per 9.15.17.13(D)(7) i.e., Dig and haul.

A five point composite sample was taken of the pit using sampling tools and all samples tested per 19.15.17.13(D)(5). (Sample results attached).

Components	Tests Method	Limit (mg/Kg)	Results (ppm)
Benzene	EPA SW-846 8021B or 8015M	10	SEE
BTEX	EPA SW-846 8021B or 8260B	50	ATTACHED
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	1000	
Chlorides	EPA 300.0	80000	

Upon completion of solidification and testing, Logos will fold the outer edges of the trench liner to overlap the waste material in the pit area, then install a geomembrane cover over the waste material in the pit to prevent collections of infiltration water after the soil cover is in place; geomembrane a 20-mil, string reinforced, LLDPE liner, or equivalent complying with EPA SW-846 method 9090A requirements.

The pit material passed solidification and testing standards. Logos folded the outer edges of the trench liner to overlap the waste material in the pit area, then installed a geomembrane cover over the waste material and folded liner as per 19.15.17.13(8)(a)(b).

9 The pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The pit area was then backfilled with compacted, non-waste containing, earthen material. More than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

10 Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The pit area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Reshaping included drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final re-contour has a uniform appearance with smooth surface, fitting the natural landscape.

11 Notification will be sent to OCD when the reclaimed area is seeded.

Provision 11 was accomplished in accordance with NMOCD 19.15.17.13(5)(d) Notification will be sent to the OCD when re-vegetation is established.

Logos shall seed the distributed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixed will be used on federal lands. Vegetative cover will be established that will reflect a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and will equal seventy (70%) of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover thorough twp successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 12 was accomplished in accordance with NMOCD 19.15.17.13(5)(d) Notification will be sent to the OCD when re-vegetation is established.

13 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker will be flush with the ground to allow

access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name. Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

Provision 13 was accomplished by installing a steel marker in the temporary pit, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker is flush with the ground to allow access of the active well pad and for safety concerns. The top of the marker contains a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate contains the following: Operator's name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the following operator's information at the time of all wells on the pad are abandoned. The riser will also indicate that the marker is for an onsite burial location.

Operator Name: LOGOS

Lease Name & Well Number: Logos 12

Unit Letter: J Section: 6 Township: T22N Range: R5W API#: 30-043-21160

OBL

14 Logos inspected and documented daily and weekly reports on the above Temporary Pit. Logos inspected any liner breeches, fluid seeps or spills, HC's on top of temporary pit, free of miscellaneous solid waste or debris, discharge line integrity, fence integrity, any dead wildlife or livestock and inspection of the freeboard. Logos will provide maintained documentation of inspections upon request.

Inspection Start Date: 11/13/13 Inspection End Date: 4/21/14

NOTE: During start and end dates of temporary pit inspections no issues found.



4001 N. Butler Ave Farmington, NM 87401 Phone: (505) 436-2627 Fax: (505) 832-3095

Date: July 29, 2013

To: Jicarilla Apache Nation

Re: Surface Owner Notification for On-Site Burial

Ms. Merldine Oka Jicarilla Apache Nation Oil and Gas Administration #6 Dulce Rock Road Dulce, NM 87528

Re: Logos #7, Logos #8, Logos #9, Logos #10, Logos #11, and Logos #12

Dear Ms. Oka,

According to NMOCD rules, Logos Operating, LLC is notifying you that there will be temporary pits on the subject wells and that they intend to bury the drill cuttings in the reserve pit, assuming that they qualify as per Subsection D of 19.15.17.13 NMAC. No action is required on your part. If you have any questions, please do not hesitate to call me.

Regards,

Tamra Sessions

Tamra Sessions Operations Technician District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
8811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1. 2011

Submit one copy to Appropriate District Office

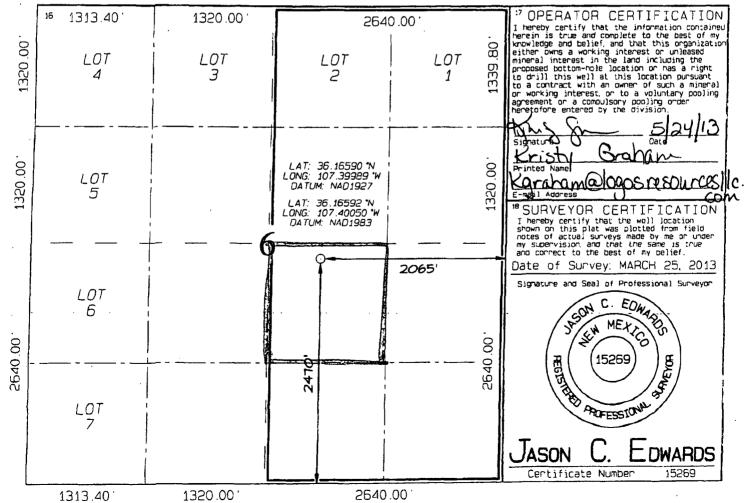
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe. NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

,	API Numbe	er .		'Pool Co	POOL Name WILDCAT DAKOTA							
Property					*Propert	•		* 1	lell Number 12			
311963 LOGOS 12 'OGRID No. 'Operator Name *Elevation 289408 LOGOS RESOURCES, LLC 6924*								Elevation				
					¹⁰ Surface	Location						
. U. or lot no.	Section	Township	Range	Lot Ian	Feet from the	North/South line	Feet from the	East/West line	County			
J	6	22N	5W		2470	SOUTH	2065	EAST	SANDOVAL			
¹¹ Bottom Hole Location If Different From Surface							 					
Ut or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
12 Dedicated Acres	40	acres NW	//4 SE/4		Subject or Infill	M Consolidation Code	¹⁵ Order No.	!				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



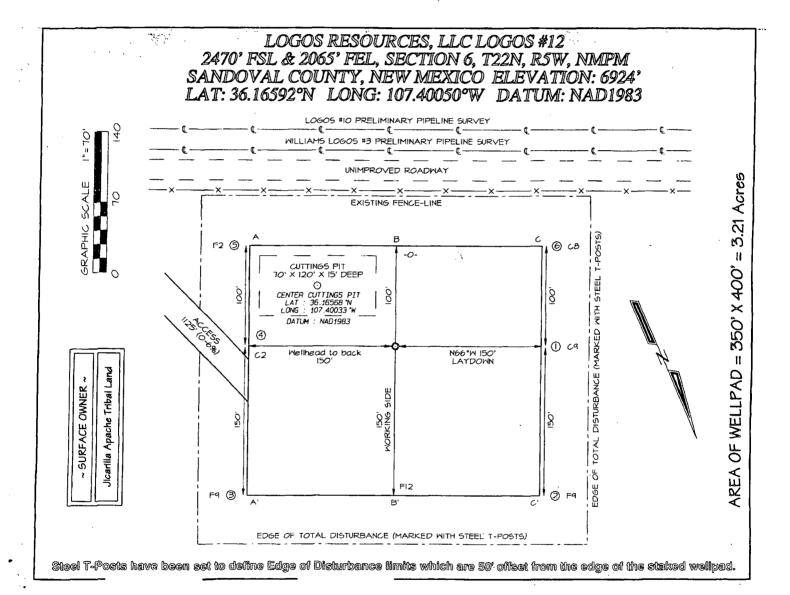


Table 1, Summary of Analytical Results Logos Operating, LLC Logos #12

Drill Pit Closure and Backfill Material Sampling Report Sandoval County, New Mexico Project Number 12035-0042

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	Chlorides USEPA Method 300.0 (ppm)
NMOCD/RCRA Standards	NA	NA	2500	1000	10	50	80000
Drill Pit Composite	1	1/17/2014	554	90.2	ND	0.28	896
NMOCD/RCRA Standards	NA	NA NA	NA	NA NA	NA	NA	600
Backfill Material Composite	2	1/23/2014	NS	NS	NS	NS	45.8

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

^{*} Values in **BOLD** above regulatory standards



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 16526

Samples Received: 1/17/2014 4:30:00PM

Job Number: 12035-0042

Work Order: P401049

Project Name/Location: Logos #12

Entire Report Reviewed By:

.....

Date:

1/23/14

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Tim Cain, Laboratory Manager





Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

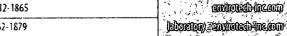
Reported: 23-Jan-14 10:37

Flora Vista NM, 87415 Project Manager:

Tiffany McIntosh

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Composite	P401049-01A	Sludge	01/17/14	01/17/14	Glass Jar, 4 oz.





Flora Vista NM, 87415

Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

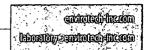
Reported: 23-Jan-14 10:37

Project Manager:

Tiffany McIntosh

Drill Pit Composite P401049-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021							·		
Benzene	ND	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
Toluene	0.10	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
p,m-Xylene	0.18	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
Total Xylenes	0.18	0.05	mg/kg	i	1404001	01/20/14	01/22/14	EPA 8021B	
Total BTEX	0.28	0.05	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %	80	1-120	1404001	01/20/14	01/22/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		103 %	80	120	1404001	01/20/14	01/22/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	12.2	5.00	mg/kg	1	1404001	01/20/14	01/22/14	EPA 8015D	-
Diesel Range Organics (C10-C28)	78.0	30.0	mg/kg	1	1404002	01/20/14	01/20/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	554	19.9	mg/kg	1	1404003	01/20/14	01/20/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	896	9.99	mg/kg	1	1404016	01/22/14	01/22/14	EPA 300.0	





Flora Vista NM, 87415

Project Name:

Logos #12

PO Box 18

Project Number:

Reporting

12035-0042

Project Manager:

Tiffany McIntosh

Spike

Source

%REC

Reported: 23-Jan-14 10:37

RPD

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
		2,	Çü		********	70100	2			
Batch 1404001 - Purge and Trap EPA 5030	<u>A</u>						· ···			
Blank (1404001-BLK1)				Prepared: 2	0-Jan-14 A	Analyzed: 2	1-Jan-14			
Benzene	ND	0.05	mg/kg						-	
Toluene	ND	0.05	**							
Ethylbenzene	ND	0.05	*							
p.m-Xylene	ND	0.05	11							
p-Xylene	ND	0.05	11							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	45.7		ug/L	50.0		91.5	80-120			
Surrogate: Bromochlorobenzene	46.7		n	50.0		93.5	80-120			
Duplicate (1404001-DUP1)	Source	e: P401044-	01	Prepared &	Analyzed:	20-Jan-14				
Benzene	ND	0.05	mg/kg		ND				30	
[oluene	ND	0.05	n		ND				30	
Ethylbenzene	ND	0.05	*		ND				30	
.m-Xylene	ND	0.05	n		ND				30	
-Xylene	ND	0.05	u		ND				30	
urrogate: 1,3-Dichlorobenzene	46.6		ug/L	50.0		93.3	80-120			
urrogate: Bramochlorobenzene	47.8		n	50.0		95.6	80-120			
Satrix Spike (1404001-MS1)	Source	e: P401044-0								
enzene	50.3		ug/L	50.0	ND	101	39-150			
oluene	50.1		w	50.0	ND	100	46-148			
thylbenzene	50.3		п	50.0	ND	101	32-160			
m-Xylene	100		**	100	ND	100	46-148			
Xylene	49.7			50.0	ND	99.3	46-148			
urrogate: 1,3-Dichlorobenzene	50.8		"	50.0		102	80-120			
irrogate: Bromochlorobenzene	50.1		"	50.0		100	80-120			

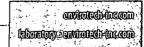
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Ph (970) 259-0615 Fr (800) 362-1879





Flora Vista NM, 87415

Project Name:

Logos #12

PO Box 18

Project Number:

Reporting

12035-0042

Project Manager:

Tiffany McIntosh

Spike

Source

Reported: 23-Jan-14 10:37

RPD

%REC

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404001 - Purge and Trap EPA 5030A	*****									
Blank (1404001-BLK1)				Prepared: 2	0-Jan-14 A	nalyzed: 2	1-Jan-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1404001-DUP1)	Source	e: P401044- ()1	Prepared &	Analyzed:	20-Jan-14				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1404001-MS1)	Source	e: P401044-0)1	Prepared &	Analyzed:	20-Jan-14				
Gasoline Range Organics (C6-C10)	0.49		mg/L	0.450	0.02	106	75-125			





Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

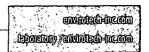
Flora Vista NM, 87415 Project Manager: Tiffany McIntosh

Reported: 23-Jan-14 10:37

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
Batch 1404002 - DRO Extraction EPA 3550C										
Blank (1404002-BLK1)		•		Prepared &	Analyzed:	20-Jan-14				
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1404002-DUP1)	Sour	ce: P401044-	01	Prepared &	: Analyzed:	20-Jan-14				
Diesel Range Organics (C10-C28)	126	29.9	mg/kg		202			46.2	30	DI
Matrix Spike (1404002-MS1)	Sour	ce: P401044-	01	Prepared &	Analyzed:	20-Jan-14				
Diesel Range Organics (C10-C28)	370	31.6	mg/kg	263	202	63.7	75-125			SPK1





Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

Reported:

Flora Vista NM, 87415

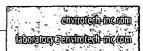
Project Manager: Tiffany McIntosh

23-Jan-14 10:37

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404003 - 418 Freon Extraction										
Blank (1404003-BLK1)				Prepared &	Analyzed:	20-Jan-14				
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1404003-DUP1)	Sour	ce: P401044-	01	Prepared &	Analyzed:	20-Jan-14				
Total Petroleum Hydrocarbons	84.0	20.0	mg/kg		99.7			17.1	30	
Matrix Spike (1404003-MS1)	Sour	ce: P401044-	01	Prepared &	Analyzed:	20-Jan-14				
Total Petroleum Hydrocarbons	627	··	mg/L	500	25.0	120	80-120			





Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

Reported:

23-Jan-14 10:37

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1404016 - Anion Extraction EPA 300.0										
Blank (1404016-BLK1)				Prepared &	Analyzed:	22-Jan-14				
Chloride	ND	9.92	mg/kg				***************************************			
LCS (1404016-BS1)				Prepared &	: Analyzed:	22-Jan-14				
Chloride	529	9.97	mg/kg	499		106	90-110			
Matrix Spike (1404016-MS1)	Soui	ce: P401058-	01	Prepared &	: Analyzed:	22-Jan-14				
Chloride	503	9.98	mg/kg	499	12.2	98.4	80-120			-
Matrix Spike Dup (1404016-MSD1)	Sour	ce: P401058-	01	Prepared &	Analyzed:	22-Jan-14				
Chloride	501	9.89	mg/kg	495	12.2	98.8	80-120	0.506	20	

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mosai-destatenes (notaodel



Project Name:

Logos #12

PO Box 18

Project Number:

12035-0042

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

Reported:

23-Jan-14 10:37

Notes and Definitions

SPK1

The spike recovery for this QC sample is outside of control limits.

DI

Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

CHAIN OF CUSTODY RECORD

16526

Client: Logos Oper	ating	Pi	Project Name / Location: LOCOS # 1 a Sampler Name:										ſΑ	VALY	SIS /	PAF	AME	TER	S			
Email results to: T. MCINTOSh Client Phone No.: 505-330-9			ampler-Name: T, McI lient No.: 12035	intos V 0045	? ?				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Anion		ith H/P	CO Table 910-1	18.1)	IDE			log	Intact
Sample No./ Identification	Sample Date	Sample Time		No./Vo	lume	Pro	eservat HCI	ive cool	TPH (M	BTEX (1	VOC (N	RCRA 8	Cation / Anion	RCI	TCLP with H/P	CO Tab	TPH (418.1)	CHLORIDE			Cample Cool	Sample Intact
Drill Pit Composite	1/17/14	1400	P401049-01	1-4-0	zjar			X	X	X							X	X				1
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Sample Matrix Soil Solid Sludge	Aqueous [] Other	O																			
☐ Sample(s) dropped off after	hours to se	cure drop	o off area.	∌ €	en V And	ir	O I	e abo	C	ry		13.	19									



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 16557

Samples Received: 1/23/2014 3:10:00PM

Job Number: 12035-0042

Work Order: P401070

Project Name/Location: Logos #12

Entire Report Reviewed By:

Date:

1/27/14

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Tim Cain, Laboratory Manager



Page 1 of 6



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #12

Project Number:

12035-0042

Project Manager:

Tiffany McIntosh

Reported:

27-Jan-14 08:40

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill Material Composite	P401070-01A	Soil	01/23/14	01/23/14	Glass Jar, 4 oz.





PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #12

Project Number: Project Manager: 12035-0042 Tiffany McIntosh

Reported: 27-Jan-14 08:40

Backfill Material Composite P401070-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	45.8	9.96	mg/kg	1	1404028	01/24/14	01/24/14	EPA 300.0	





Flora Vista NM, 87415

Project Name:

Logos #12

PO Box 18

Project Number: Project Manager: 12035-0042 Tiffany McIntosh

Reported:

r roject manage

sh 27-Jan-14 08:40

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404028 - Anion Extraction EPA 300.0										
Blank (1404028-BLK1)				Prepared &	Analyzed	24-Jan-14				
Chloride	ND	9.94	mg/kg							
LCS (1404028-BS1)				Prepared &	Analyzed:	24-Jan-14				
Chloride	498	9.97	mg/kg	499		99.9	90-110			
Matrix Spike (1404028-MS1)	Sour	ce: P401067-	01	Prepared &	Analyzed:	24-Jan-14				
Chloride	545	9.95	mg/kg	498	ND	110	80-120			
Matrix Spike Dup (1404028-MSD1)	Sour	ce: P401067-	01	Prepared &	Analyzed:	24-Jan-14				
Chloride	553	9.96	mg/kg	498	ND	111	80-120	1.48	20	





Flora Vista NM, 87415

Project Name:

Logos #12

PO Box 18

Project Number: Project Manager: 12035-0042 Tiffany McIntosh Reported:

27-Jan-14 08:40

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN OF CUSTODY RECORD

16557

Client:	·cation	Pro	ject Name / Location									Α	NALY	'SIS	/ PAF	RAME	ETER	S					
Logos Ope	Yallv	9 1 1	_090s #	lø!							 ,	r		 1								— _I r -	4
Email results to: T. McIntos			npler Name: T. McIn	tash					3015)	3TEX (Method 8021)	8260)	တ				-							
Client Phone No.:		Clie	ent No.:					-	po	thod	poq	letal	ioic		Ŧ	910-	=	ш			-	g	tag tag
505- 320-28	57		2035-OC	142					Met	(Me	Met	8	₹		with	ple	418.	8		1		ا (5 <u>ق</u> ا	힐
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Vo of Cont		Pro HNO ₃	eservat HCI	ive cool	TPH (Method 8015)	втех	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
backfill material composite	1/23/14	1022	P401070-01	1-402	jar			X										X			\	()	Y
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Sample Matrix																				-		-	\dashv
Soll Solid Sludge	Aqueous [] Other [Other																				
☐ Sample(s) dropped off afte	r hours to se	ecure drop o	off area.) e	n V Ana	ir Iytic	o t	apo e	C l	h ry		G	1,9										
5795 US Highway	64 • Farming	ton, NM 874	01 • 505-632-0615 •									ngo,	0 CO	1301	• lab	orato	xy@e	enviro	tech-i	n q	Page	6.6	vf 6

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District II 811 S. First St., Ar District III 1000 Rio Brazos R District IV	tesia, NM	88210		,		il Conserva 220 South S	St. F	rancis	s D			30-043-21 2. Type of Lo	160 ease TE	☐ FEI		FED/INI	DIAN
1220 S. St. Francis		·		DEC	OMDI	Santa Fe, ETION RE				VI 00		3 State Oil & JICARILLA	APAC	CHE LEA	SE #242		
4. Reason for fil COMPLET C-144 CLOS #33; attach this a	ing: ION RE SURE A	PORT (Fill in boxes	s#1 thro	ugh #31	for State and Fe	ee wel	ls only)	sed a	and #32 and	d/or	5. Lease Nam LOGOS 6. Well Numb	e or l	Jnit Agre			
7. Type of Comp	oletion:				-	PLUGBAC					VOIR	C ☐ OTHER			,		
8. Name of Opera	TING LI	.c										9. OGRID 289408					The state of the s
10. Address of O 4001 North Butle		e, Buildi	ng 7101 Far	mington	, NM 87	7401						11. Pool name	or W	ildcat			
12.Location Surface:	Unit Lt	Se	ection	Town	ship	Range	Lot			Feet from	the	N/S Line	Feet	from the	E/W	Line	County
BH:				<u> </u>			+										
13. Date Spudded			. Reached		Date Rig 24/13	g Released	<u></u>		16.	Date Comp	leted	(Ready to Prod	uce)		7. Eleva T, GR, 6		F and RKB,
18. Total Measure	ed Depth	of Well		19.	Plug Ba	ck Measured De	pth		20.	Was Direct	tiona	l Survey Made?		21. Ty	pe Electr	ric and O	ther Logs Run
22. Producing Into	erval(s),	of this co	ompletion -	Тор, Во	ttom, N	ame						T.					··
23.					CAS	ING REC	OR	_ `	_		ring						
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								DLI	11 11	VIERVAL		AMOUNTA	ND K	IND MA	ILNIAL	OSED	
28. Date First Product	ion		Product	ion Metl	nod <i>(Flo</i>	owing. gas lift, pi		ODU(g - Size d			· 1	Well Status	(Prod	or Shut-	in)		
Date of Test	Hours	Tested	Cho	ke Size		Prod'n For Test Period	···	Oil - B	bl	[Gas	Gas - MCF Water - Bbl. Gas - Oil R					
Flow Tubing Press.	Casin	g Pressui		culated 2 ir Rate	24-	Oil - Bbl.		Ga	ıs - l	MCF .	 	Vater - Bbl.		Oil Gra	vity - AP	l - (Cori	·)
29. Disposition of	Gas (Sol	d, used f	for fuel, vent	ed, etc.)]	30. Te	est Witne	ssed By		
31. List Attachmer	nts											<u> </u>					
32. If a temporary	pit was u	sed at th	ne well, attac	h a plat	with the	location of the	tempo	rary pit.	SI	EE ATTAC	HED)					
33. If an on-site bu			-							1	de '	07 4002233	N1 4 F	. 1027	0027		
I hereby certify	that th	e info	mation sh	own o	n both	sides of this	form	is true	ar	Longitu id comple	ete t			,			
Signature /	\mathcal{M}	ele	acodû	Name	e Jamie س	e Goodwin		Titl	e R	egulator	у Те	ech. D	ate	9/8	19/1	4	
E-mail Address	mail Address JGoodwin@logosoperating.com																



Pit Closure Form:
Date: 4-11-14
Well Name: LOGOS 12
Footages: <u>2470' FSL & 2065' FEL</u> Unit Letter: <u>J</u>
Section: <u>6</u> , T- <u>22N</u> , R- <u>5W</u> , County: <u>SAN JUAN</u> State: <u>NM</u>
Contractor Closing Pit: 10 Ritter
Construction Inspector:
Inspector Signature: Dannelto
U Date: <u>ל־ו</u> ו-וּץ

Tamra Sessions

From: Tamra Sessions

Sent: Thursday, February 20, 2014 8:06 AM

To: Jonathan Kelly (jonathan.kelly@state.nm.us)
Cc: brandon.powell@state.nm.us; Wayne Ritter

Subject: Logos 12_Jicarilla Pit Closure 72hr notice

LOGOS #12 Jicarilla Lease 424 API #30-043-21160 UL J, Section 06, T22N, R05W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Monday, February 24, 2014. Bureau of Indian Affairs Jicarilla Agency is being notified via certified mail.

Tamra Sessions Logos Resources, LLC Operations Technician tsessions@logosresourcesllc.com 505-330-9333



4001 N. Butler Ave Farmington, NM 87401 Phone: (505) 436-2627

Fax: (505) 832-3095

Date: February 19, 2014

To: Bureau of Indian Affairs Jicarilla Agency

Re: Surface Owner Notification for Temporary Pit Closure

Bureau of Indian Affairs Jicarilla Agency P.O. Box 167 Dulce, NM 87528

Re:

Logos #12

API #30-043-21160

UL J, Section 06, T22N, R05W

Dear Mr. Kurt Sandoval,

According to NMOCD rules, Logos Operating, LLC is notifying you that temporary pit closure operations will begin on February 24, 2014 on the Logos #12. Drill cuttings will be buried in the reserve pit, as they qualify as per Subsection D of 19.15.17.13 NMAC. No action is required on your part. If you have any questions, please do not hesitate to contact me.

Regards,

Tamra Sessions

Operations Technician

tsessions@logosresourcesllc.com

505-330-9333

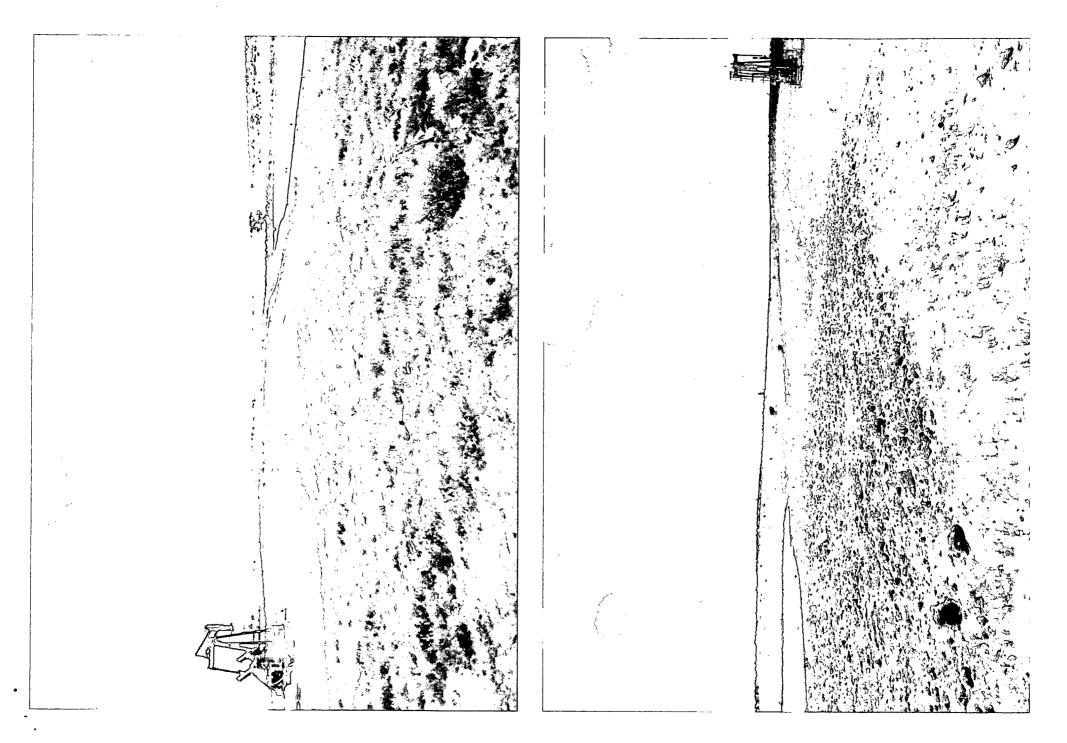
U.S. Posei Saviem Gernialed WAIL: Receipt Commismony Columns (2007) 5248 For delivery information visit our website at www.usps.com DUÇCE 114 87528 2785 \$0.49 Postage Certified Fee \$3.30 0001 Return Receipt Fee (Endorsement Required) \$2.70 Restricted Delivery Fee (Endorsement Required) \$0.00 2250 \$6.49 Total Postage & Fees | \$ 7073 Sent To Street, Apt. No.; or PO Box No. City, State, ZIP+4 Sactionisal/telesacraftes **PSC 1000** 1000, August 2003



Reclamation Form:
Date: 4-15-14
Well Name: LOGOS 12
Footages: <u>2470' FSL & 2065' FEL</u> Unit Letter: <u>J</u>
Section: <u>6</u> , T- <u>22N</u> , R- <u>5W</u> County: <u>SANDAVAL</u> State: <u>NM</u>
Reclamation Contractor: <u>ID</u> Ritter
Reclamation Start Date: 2-24-14
Reclamation Complete Date: 4-15-14
Road Completion Date: 4-15-14
Seeding Date: Fall 2014
PIT MARKER STATUS
(When Required) Picture of Marker set needed
Date Marker Placed: 8-7-14
Latitude: 36 , 165 68
Longitude: 107. 40033
Date Pit Manifold Removed: <u>N/A</u>
Construction Inspector Signature: Way Mo
Date Inspected: 4-15-14







		Temporary Pit Weekly Inspection Form									
WELL NAME:	LOGOD 12		API NO: 30-043-21160								
LEGALS:	Section:	6	Township:	22N	Range:	5W	7				
Drilling RD Date:	11/24/2013										

	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey	Ramsey
Inspector's Name		l i	ł							Hatalie		Hatalie
WEEK #	natalle 1	2	3	natalle 4	riatalle 5	natalle 6	natane 7	natalle 8				12
DATE												03/24/14
Well sign on location	12/02/13	12/09/13	12/16/13	12/23/13	12/30/13	01/06/14	01/07/14	01/14/14	01/25/14	02/15/14	03/03/14	03/24/14
(Y/N)	V	l _v	l,	v	V	v	Υ	_Y	Y	Y	l _v	l _v
Any liner breeches	1	'	T			T	1			1	<u> </u>	1
(Y/N)],,))				. .) ,	Ì.,	l],	l <u>.</u> .
(17/N) Any fluid seeps/spills	N	N	N	N	N	N	N	N	N	N	N	N
(Y/N)	N	N	N	N	N	N	N	N	N	N	N	l N
HC's on top of temp.		11	14	14			IN .					
pit (Y/N)	N	l _N	N	lγ	Υ	N	N	N	l _N	l _N	N	N
Temp pit free of misc.												
Solid												
Waste/Debris(Y/N)	Y	Y	lγ	l _Y	ĺγ	Y	Y	l _Y	Y	l _Y	ly	ĺγ
Discharge Line	<u> </u>					<u> </u>	<u> </u>	<u> </u>		·	 	<u> </u>
Integrity Good (Y/N)	Y	Y	Y	Y	Y	Υ	N	γ	Y	N	N	N
Fence Integrity Good									1			
(Y/N)	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Any Dead Wildlife/												
Stock (Y/N) Freeboard to be 2' or	N	N	N	N	N	N	N	N	N	N	N	N
> Est. (ft)	Y (5')	Y (4')	Y (5')	Y (4')	Y (5')	V (4.01)	V (421)	V (101)	V (10)	Y (8')	Y (10')	Y (8')
Was the OCD	1 (3)	1 (4)	1 (3)	1 (4)	1 (5)	Y (10')	Y (12')	Y (10')	Y (10')	1 (8)	1 (10)	1 (0)
contacted (Y/N)	N	N	N N	N	N	N	N .	N	N	N	N	N
contacted (1711)	 	 		 	 				 '`		 '``	
Pictures taken (Y/N)	lγ	Υ	Y	lγ	Y	lγ	Υ	lγ	Y	Υ	Y	Y
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	1											
				41								
Comments:	1			4'	5'			1		1		1
	1				CLEARANCE/L							
	1			ROM	ITTLE FROM	1						
	5'	4'	2,	BLOWDOWN	1	10'	12'	10'	10'	8,	10'	8,
	CLEARANCE	CLEARANCE	CLEARANCE	TANK TO PIT	BACK TANK	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCI

		:	Tempor	ary Pit Wee	kly Inspecti	on Form						
WELL NAME:	LOGOS 12			API NO:		30-043-51160						
LEGALS:	Section: 6		Township:	22N	Range: 5W							
Drilling RD Date:	11/24/201	3										
	,	-							•			
	Ramsey	Ramsey	Ramsey					_				
Inspector's Name	Hatalie	Hatalie	Hatalie]			'		}	
WEEK#	13			16	17	18	19	20	21	22	23	24
DATE	04/05/14											
Well sign on location	3,755,21	 	3 .,,									
(Y/N)	Υ	Υ	Υ									
Any liner breeches												
(Y/N)	N	N	N]				
Any fluid seeps/spills												
(Y/N)	N	N	N					·				
HC's on top of temp.												
pit (Y/N)	N	N	N									
Temp pit free of misc	s.	1	Ì		1						<u>'</u>	
Solid									ĺ			
Waste/Debris(Y/N)	N	N	N			L						
Discharge Line		1										
Integrity Good (Y/N) Fence Integrity Good	N	N	N						,			
(Y/N)	N	N	N	·								
Any Dead Wildlife/	- IN	- IN								 		
Stock (Y/N)	N	N	N									
Freeboard to be 2' or	r i		, ,							<u> </u>		
> Est. (ft)	N	N	N									
Was the OCD												-
contacted (Y/N)	N	N	N	<u> </u>				<u> </u>	<u></u>		<u> </u>	
Pictures taken (Y/N)	Y	Y	Y		ļ	ļ <u> </u>	ļ	 -		ļ		
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Comments:	CREW @	COMPLETION	Ų.									
Comments.	LOCATION	CREW										
	WORKING	FINISHED		ļ.			1	ļ		1		
	ON BACK FILL	BACK FILLING	i									
	ING THE PIT	PIT	COMPLETION									



4001 N. Butler Ave Farmington, NM 87401 Phone: (505) 436-2627 Fax: (505) 832-3095

Date: September 30, 2014

To: NMOCD

Re: Pit Closure Filings for WPX

Dear NMOCD,

Logos Operating, LLC (289408) is filing this pit closure report on behalf of the new operator, WPX Energy Production, LLC (120782), as part of a transition service agreement between Logos and WPX.

Regards,

Jamie Goodwin

Regulatory Technician