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.

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.

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

| Type of action: Below grade tank registration Permit of a pit or proposed alternative method OIL CONS. DIV. |
|---|
| Address: 4001 NORTH BUTLER AVENUE, BUILDING 7101 FARMINGTON NM 87401 Facility or well name: LOGOS 11 API Number: 30-043-21159 OCD Permit Number: 11365 U/L or Qtr/QtrK Section6 Township22N Range5W County: SANDOVAL Center of Proposed Design: Latitude36.16500° N Longitude107.40575° 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: Thickness _ 20mil ☐ 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 |
| 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. |
| 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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below.</i> 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). - 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 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 | ☐ 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 | | | | | | | | |
| 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 Number: | 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: | | | | | | | | |
| | | | | | | | | |

| 12. 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 | 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 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 | |
| 13. 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 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 | luid Management Pit |
| 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 | |
| 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 sou 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 |
| 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 ☐ NA |
| 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 | |
| Within 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 | |
| Within a 100-year floodplain FEMA map | Yes No |
| 16. | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure 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. □ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 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 cases a 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 | 17.11 NMAC 19.15.17.11 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 leading to the complete to the compl | pelief. |
| Name (Print): Title: | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: D Title: OCD Permit Number: | 6/2014 |
| 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 submitt. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 05/07/14 | |
| 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed If different from approved plan, please explain. | -loop systems only) |
| 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please 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 | indicate, by a check |

| 22. | |
|--|-------------------------|
| Operator Closure Certification: | |
| I hereby certify that the information and attachments submitted with this closure repo belief. I also certify that the closure complies with all applicable closure requirement | |
| Name (Print): Jamie Goodwin | Title: Regulatory Tech. |
| Signature: (2000) | Date: 9/29//4 |
| e-mail address : Goodwin@logosoperating.com | Telephone: 505-330-9333 |

Logos Operating, LLC San Juan Basin Closure Report

Lease Name: LOGOS 11 API NO: 30-043-21159

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

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.

2 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.

3 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:
 - 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.

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 | |

8 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).

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 11

Unit Letter: K Section: 6 Township: 22N Range: 05W

API#: 30-043-21159

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: 11/4/13 Inspection End Date: 5/13/14

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

Tamra Sessions

From: Tamra Sessions

Sent: Monday, July 29, 2013 12:09 PM

To: Merldine Oka (merldineoka@jicarillaoga.com)

Cc: Isaac Julian (iajulian@yahoo.com); Kurt Sandoval (kurt.sandoval@bia.gov)

Subject: SURFACE OWNER NOTIFICATION 07/29/13 - Temporary Pit

Attachments: Jicarilla Pit Noitce.docx

Please see our attached notice for temporary pits on the following new drill locations:

Logos 7

Logos 8

Logos 9

Logos 10

Logos 11

Logos 12

Tamra Sessions Logos Resources, LLC Operations Technician 505-330-9333



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 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rjo Brazos Road, Aztec, NM 87410 Phone: (505) 334-5178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1313.40

1320.001

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 |
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|----------------|

| | | | WELL LO | CATI | ON AND AC | REAGE DEDIC | CATION PLA | ΛT | | |
|--|-----------|------------|--|---|-------------------------------|----------------------------------|-------------------------|--|--|--|
| 1, | API Numbe | r | | Pool Co | de | | 'Pool Nam WILDCAT D | • | | |
| Property Code | | | Property Name Well Number LOGOS 11 | | | | | | | |
| '0GRID 1 28940 | | | *Operator Name *Elevation LOGOS RESOURCES, LLC 5962 | | | | | | | |
| | | | | | ¹⁰ Surface | Location | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| K | 6 | 22N | 5W | 2075 SOUTH 1730 WEST SANDOVA | | | | | | |
| : :- | | 1 | ¹ Bottom | Hole | Location I | f Different I | From Surfac | е | | |
| " UL or lot no. | Section | Township | Range | Lot Idn Feet from the North/South line Feet from the East/West line | | | | | County | |
| ¹² Dedicated Acres | | L | | | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | · | | |
| | | 40 acres N | IE/4 SW/4 | l . | | | | | | |
| 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 | | | | | | | | | | |
| ¹⁶ 1313.4 | 10 | 132 | 1320.00' 2640.00' 17 OPERATOR CERTIFICATION I hereby certify that the information contain herein is true and complete to the best of | | | | | | ormation contained the best of my | |
| LOT | Ī | |) <i>T</i> | | LOT 2 | LOT | mineral inte | nd belief, and that a working interest erest in the land thom-hole location | t or unleased including the or has a right | |

proposed bottom-nois location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order neretofore entered by the division 2 8 8 LOT rahamlelogosresources 16,00 5 E-mail Address LAT: 36.16490 N LONG: 107.40482 W DATUM: NAD1927 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. LAT: 36.16491 N LONG: 107.40543 W DATUM: NAD1983 Date of Survey: MARCH 1, 2013 1730 Signature and Seal of Professional Surveyor ST CH MEXICO MEXICO LOT NEW 6 2640.00 A POFESSION SAN EYOR 2640. 2015 LOT DWARDS 15269 Certificate Number

2640.00

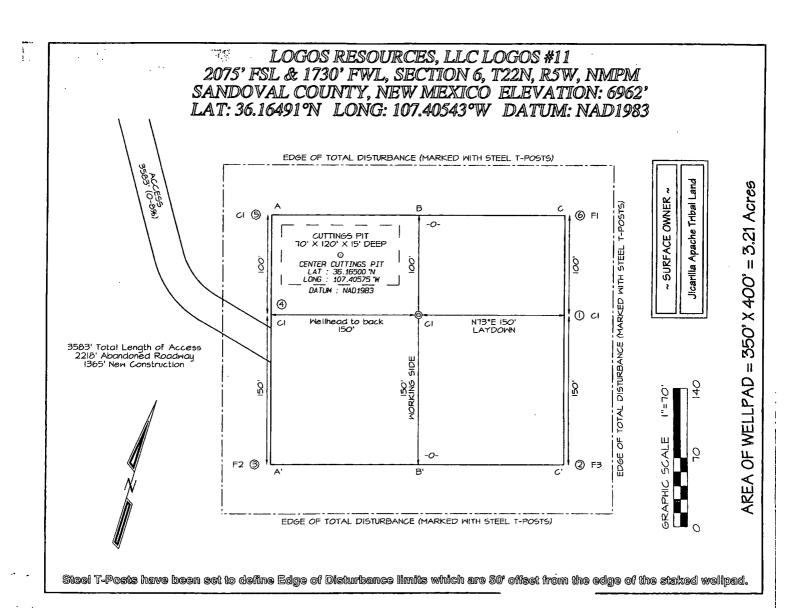


Table 1, Summary of Analytical Results Logos Operating, LLC Logos #11

Drill Pit Closure and Backfill Material Sampling Report Sandoval County, New Mexico

Project Number 12035-0041

| 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 | 387 | 104.28 | ND | ND | 298 |
| Backfill Material Composite | 2 | 1/23/2014 | NS | NS | NS | NS | ND |

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: 16525

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

Job Number: 12035-0041 Work Order: P401048

Project Name/Location: Logos #11

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

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301



Project Name:

Logos #11

PO Box 18

Project Number:

12035-0041

Reported: 23-Jan-14 10:36

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 | P401048-01A | Sludge | 01/17/14 | 01/17/14 | Glass Jar, 4 oz. |





Flora Vista NM, 87415

Project Name:

Logos #11

PO Box 18

Project Number: Project Manager: 12035-0041

Tiffany McIntosh

Reported: 23-Jan-14 10:36

Drill Pit Composite P401048-01 (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 | ND | 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 | ND | 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 | ND | 0.05 | mg/kg | 1 | 1404001 | 01/20/14 | 01/22/14 | EPA 8021B | |
| Total BTEX | ND | 0.05 | mg/kg | 1 | 1404001 | 01/20/14 | 01/22/14 | EPA 8021B | |
| Surrogate: Bromochlorohenzene | | 99.7 % | 80- | -120 | 1404001 | 01/20/14 | 01/22/14 | EPA 8021B | |
| Surrogate: 1,3-Dichlorobenzene | | 98.6 % | 80- | -120 | 1404001 | 01/20/14 | 01/22/14 | EPA 8021B | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | 6.78 | 4.98 | mg/kg | I | 1404001 | 01/20/14 | 01/22/14 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 97.5 | 29.9 | mg/kg | 1 | 1404002 | 01/20/14 | 01/20/14 | EPA 8015D | |
| Total Petroleum Hydrocarbons by 418.1 | | | | | | | | | |
| Total Petroleum Hydrocarbons | 387 | 19.9 | mg/kg | 1 | 1404003 | 01/20/14 | 01/20/14 | EPA 418.1 | |
| Cation/Anion Analysis | | | | | | | | | |
| Chloride | 298 | 9.90 | mg/kg | 1 | 1404016 | 01/22/14 | 01/22/14 | EPA 300.0 | |





Flora Vista NM, 87415

Project Name:

Logos #11

PO Box 18

Project Number:

Reporting

12035-0041

Project Manager:

Tiffany McIntosh

Spike

Source

Reported: 23-Jan-14 10:36

RPD

%REC

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

| | | Keporting | | Spike | Source | | 70KEC | | KID | |
|---|--------|---------------|-------|--|--------------------|-------------|----------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 1404001 - Purge and Trap EPA 5030 |)A | | | ······································ | | | | | | |
| Blank (1404001-BLK1) | | | | Prepared: 2 | 20-Jan-14 <i>A</i> | Analyzed: 2 | 1-Jan-14 | | | |
| Benzene | ND | 0.05 | mg/kg | | | | | | | |
| Toluene | ND | 0.05 | ** | | | | | | | |
| Ethylbenzene | ND | 0.05 | n | | | | | | | |
| p,m-Xylene | ND | 0.05 | • | | | | | | | |
| o-Xylene | ND | 0.05 | н | | | | | | | |
| Total Xylenes | ND | 0.05 | • | | | | | | | |
| Total BTEX | ND | 0.05 | n | | | | | | | |
| Surrogate: 1,3-Dichlorobenzene | 45.7 | | ug/L | 50.0 | | 91.5 | 80-120 | | | |
| Surrogate: Bromochlorobenzene | 46.7 | | " | 50.0 | | 93.5 | 80-120 | | | |
| Duplicate (1404001-DUP1) | Sou | rce: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Benzene | ND | 0.05 | mg/kg | | ND | | | | 30 | |
| Toluene | ND | 0.05 | " | | ND | | | | 30 | |
| Ethylbenzene | ND | 0.05 | " | | ND | | | | 30 | |
| p.m-Xylene | ND | 0.05 | " | | ND | | | | 30 | |
| o-Xylene | ND | 0.05 | " | | ND | | | | 30 | |
| Surrogate: 1,3-Dichlorobenzene | 46.6 | | ug/L | 50.0 | | 93.3 | 80-120 | | | |
| Surrogate: Bromochlorobenzene | 47.8 | | " | 50.0 | | 95.6 | 80-120 | | | |
| Matrix Spike (1404001-MS1) | Sou | rce: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Benzene | 50.3 | | ug/L | 50.0 | ND | 101 | 39-150 | | | |
| Toluene | 50.1 | | n | 50.0 | ND | 100 | 46-148 | | | |
| Ethylbenzene | 50.3 | | " | 50.0 | ND | 101 | 32-160 | | | |
| ,m-Xylene | 100 | | *1 | 100 | ND | 100 | 46-148 | | | |
| -Xylene | 49.7 | | # | 50.0 | ND | 99.3 | 46-148 | | | |
| Surrogate: 1,3-Dichlorobenzene | 50.8 | | " | 50.0 | | 102 | 80-120 | | | |
| Surrogate: Bromochlorobenzene | 50.1 | | " | 50.0 | | 100 | 80-120 | | | |

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

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





Flora Vista NM, 87415

Project Name:

Logos #11

PO Box 18

Project Number:

Reporting

12035-0041

Spike

Source

%REC

Project Manager: Tiffany McIntosh

Reported: 23-Jan-14 10:36

RPD

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 | Analyzed: 2 | 1-Jan-14 | | | |
| Gasoline Range Organics (C6-C10) | ND | 4.99 | mg/kg | | | | | | | |
| Duplicate (1404001-DUP1) | Source | e: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Gasoline Range Organics (C6-C10) | ND | 5.00 | mg/kg | | ND | | | | 30 | |
| Matrix Spike (1404001-MS1) | Source | e: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Gasoline Range Organics (C6-C10) | 0.49 | | mg/L | 0.450 | 0.02 | 106 | 75-125 | | | |





Flora Vista NM, 87415

PO Box 18

Project Name:

Logos #11

Project Number: Project Manager:

Reporting

12035-0041

Tiffany McIntosh

Spike

Source

%REC

Reported:

23-Jan-14 10:36

RPD

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | 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) | Sourc | e: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Diesel Range Organics (C10-C28) | 126 | 29.9 | mg/kg | | 202 | | | 46.2 | 30 | D1 |
| Matrix Spike (1404002-MS1) | Sourc | e: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| Diesel Range Organics (C10-C28) | 370 | 31.6 | mg/kg | 263 | 202 | 63.7 | 75-125 | | | SPK1 |

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PO Box 18

Logos #11

Project Name: Project Number:

12035-0041

Flora Vista NM, 87415 Project Manager:

Tiffany McIntosh

Reported: 23-Jan-14 10:36

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

| | Reporting | | Spike | Source | | %REC | | RPD | |
|--------|-----------------------|--|---|--|--|---|--|---|--|
| Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| | | | | | | | | | |
| | | | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| ND | 20.0 | mg/kg | | | | | | | |
| Sour | ce: P401044- | 01 | Prepared & | : Analyzed: | 20-Jan-14 | | | | |
| 84.0 | 20.0 | mg/kg | | 99.7 | | | 17.1 | 30 | |
| Sour | ce: P401044- | 01 | Prepared & | Analyzed: | 20-Jan-14 | | | | |
| 627 | | mg/L | 500 | 25.0 | 120 | 80-120 | | | |
| | ND Source 84.0 Source | Result Limit ND 20.0 Source: P401044- 84.0 20.0 Source: P401044- 84.0 20.0 | ND 20.0 mg/kg Source: P401044-01 84.0 20.0 mg/kg Source: P401044-01 | Prepared & ND 20.0 mg/kg Source: P401044-01 Prepared & 84.0 20.0 mg/kg Source: P401044-01 Prepared & | Result Limit Units Level Result Prepared & Analyzed: ND 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: 84.0 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: | Result Limit Units Level Result %REC Prepared & Analyzed: 20-Jan-14 ND 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: 20-Jan-14 84.0 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: 20-Jan-14 | Result Limit Units Level Result %REC Limits Prepared & Analyzed: 20-Jan-14 ND 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: 20-Jan-14 84.0 20.0 mg/kg Source: P401044-01 Prepared & Analyzed: 20-Jan-14 | Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 20-Jan-14 ND 20.0 mg/kg Prepared & Analyzed: 20-Jan-14 84.0 20.0 mg/kg 99.7 17.1 Source: P401044-01 Prepared & Analyzed: 20-Jan-14 | Result Limit Units Level Result %REC Limits RPD Limit Prepared & Analyzed: 20-Jan-14 ND 20.0 mg/kg Prepared & Analyzed: 20-Jan-14 30 Source: P401044-01 Prepared & Analyzed: 20-Jan-14 17.1 30 Source: P401044-01 Prepared & Analyzed: 20-Jan-14 20-Jan-14 20-Jan-14 |





Flora Vista NM, 87415

Project Name:

Logos #11

PO Box 18

Project Number:

12035-0041

Reported:

Project Manager:

Reporting

Tiffany McIntosh

Spike

Source

%REC

23-Jan-14 10:36

RPD

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | 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) | Sour | 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 | |





Project Name:

Logos #11

PO Box 18

Project Number:

12035-0041

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

Reported: 23-Jan-14 10:36

Notes and Definitions

SPK1

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

Dì

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

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envioled/hecon

CHAIN OF CUSTODY RECORD

| Client: Logos Opera | | | | | | | Α | NALY | /SIS | / PAF | RAMI | ETEF | RS | | | | | | | | |
|--|-----------------------------|---|---------------------------|-----------------------------|------------------------|----------------|--------|-------------------|--------------------|-------------------|---------------|----------------|-------|---------------|----------------|-------------|----------|---------|-------------|-------------|---------------|
| Logos Operar Email results to: T. Mc Intos | h | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Logos ampler Name: Tr McI | | | | | 8015) | BTEX (Method 8021) | 1 8260) | sle | ر | | ٥. | Ξ | | | | | | |
| Client Phone No.: 505 - 330 - 9 | 333 | CI | ient No.: 2035 - (| 0041 | | | | TPH (Method 8015) | (Metho | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | | TCLP with H/P | CO Table 910-1 | TPH (418.1) | RIDE | | | Sample Cool | Sample Intact |
| Sample No./ Identification | Sample Date | Sample Time | Lab No. | No./Volume of Containers | Pr HNO ₃ | eservat HCI | Cool | TPH (| втех | Voc (| RCRA | Cation | RCI | TCLP | со Та | TPH (| CHLORIDE | | | Samp | Samp |
| Drill Pit Composite | 1/17/14 | 1415 | P401048-01 | 1-40zjar | | | X | X | Х | | | | | | | X | X | | | Y | У |
| ' | | | | | | | | | | | | | | | | | | | | | |
| | , | | 1, | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| : | | | | | | | | | | | | ١ | | | | | | | | | |
| Relinquished by: (Signature) | Mu | lato | The V | Date Time 17/14 1630 | Rece | l ived b | by: (S | <u>I</u> ignat | urę) | | | . (| 7 | | | <u> </u> | | 1 | Date | | ime (* 30) |
| Relinquished by (Signature) | Relinquished by Gignature J | | | | | | oy: (S | ignat | ure) | | | | ` | | | | | | | | 70 |
| Sample Matrix Soil ☐ Solid ☐ Sludge ☑ | Aqueous 🗌 | Other [|] | | | | | | | | | | | - | | | | | | | |
| Sample(s) dropped off after | nours to sec | cure drop o | off area. | 3 env | ire | o t | e | cł | 1 | | 17 | 2.9 | ٥٢ | | | | | | | | |
| 5795 US Highway 64 | Farminate | on, NM 874 | 01 • 505-632-0615 • 1 | | | | | | | uran | 30. C | O 813 | 301 • | labo | rator | v@en | virote | ech-ind | | | |



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 16558

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

Job Number: 12035-0041 Work Order: P401071

Project Name/Location: Logos #11

| Entire Report Reviewed By: | Date: | 1/27/14 |
|----------------------------|-----------|---------|

Tim Cain, Laboratory Manager

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.



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #11

Project Number:

12035-0041

Project Manager:

Tiffany McIntosh

Reported: 27-Jan-14 08:42

Analyical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|-----------------------------|---------------|--------|----------|----------|------------------|
| Backfill Material Composite | P401071-01A | Soil | 01/23/14 | 01/23/14 | Glass Jar, 4 oz. |





PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #11

Project Number:

12035-0041

Project Manager: Tiffany McIntosh

Reported:

27-Jan-14 08:42

Backfill Material Composite P401071-01 (Solid)

| | | Reporting | | | | | | | |
|-----------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| Cation/Anion Analysis | | | | | | | | | |
| Chloride | ND | 9.83 | mg/kg | 1 | 1404028 | 01/24/14 | 01/24/14 | EPA 300.0 | |





Project Name:

Logos #11

PO Box 18

Project Number: Flora Vista NM, 87415 Project Manager:

12035-0041 Tiffany McIntosh

Reported:

27-Jan-14 08:42

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 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) | Sou | rce: P401067- | 01 | Prepared & | . Analyzed: | 24-Jan-14 | | | | |
| Chloride | 545 | 9.95 | mg/kg | 498 | ND | 110 | 80-120 | | | |
| Matrix Spike Dup (1404028-MSD1) | Sou | rce: 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:

Project Manager:

Logos #11

PO Box 18

Project Number: 12

12035-0041 Tiffany McIntosh Reported:

27-Jan-14 08:42

Notes and Definitions

DET Ana

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

16558

| Client: Logos Oper | ratina | ject Name / Locatio _0905 単し | | | | | | | | | | A | NALY | 'SIS | / PAF | RAME | ETER | s | | | | |
|-----------------------------------|---------------------------------|---------------------------------|------------------------|------------------|---------------------------------------|------------------------|----------------|---------|-------------------|--------------------|-------------------|---------------|----------------|------|---------------|----------------|-------------|-------------|-------------|------------|--|---------------|
| Email results to: T. McIntosh | | Sar | npler Name: T. McIn | | | | | | 8015) | 18021) | 8260) | s | | | • | -1 | | | | | | |
| Client Phone No.: 12035 - 0041 | | Clie | I 12035 - | 0041 | | | | | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | | TCLP with H/P | CO Table 910-1 | TPH (418.1) | RIDE | | ! | Sample Cool | Sample Intact |
| Sample No./ Identification | Sample Date | Sample Time | Lab No. | No./Vo of Con | | Pr HNO ₃ | eservat HCI | cool | TPH (I | втех | voc (| RCRA | Cation | RCI | тог | CO Ta | TPH (| CHLORIDE | | | Samp | Samp |
| backfill material composite | 1/23/14 | 1044 | P401071-01 | 1-402 | zjar | - | | X | | | | | | | | | | X | | | 4 | У |
| | | | <u> </u> | | | | | | | | <u> </u> | | | | | | | | | | _ | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | | | _ | H |
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| | | | | | | | | | | | | <u> </u> | | | | | | | | - | | |
| | | | | | | - | | | | | | | - | | | | | | | - | | |
| Relinquished by: (Signature) | iduti | th | • | Date 1/23/14 | Time 1510 | Rece | ived I | by: (S | ignat | ture) | | | - | 7 | | | 1. | | | Date 1/23/ | - 1 | Time 1516 |
| Relinquished by: (%gnature) | Relinquished by: (Signature) 1 | | | | | Rece | ived I | by: (S | Signat | (ure) | | | - | | | | | | | | 1 | 1.0 |
| Sample Matrix Soil V Solid Sludge | Aqueous [|] Other [|] | | | | • | | | · - | | - ** * | | | | | | | • | | | |
| ☐ Sample(s) dropped off after | r hours to se | cure drop o | ff area. | 多 e | en v And | ir | 0 † | e de | C | 1 | | 8 | 14 | | | | | | | | | |
| . 5795 US Highway & | 64 • Farmingt | ton, NM 8740 | 01 • 505-632-0615 • | Three Sprir | ngs • 65 . | Merco | do St | reet, : | Suite | 115, [| oran | go, (| 0 81 | 301 | labo | orato | ry@e: | nvirot | ech-inc | Da | | - of 6 |

| Submit To Approp Two Copies | riate Distr | ict Offic | ce | | Г | | State of Ne | | | | | | | | | | | orm C-105 |
|---|--|------------------|-------------------|--------------------|---------------------|--------------------|---------------------------------------|--|---------------|-------------|-----------------------|-------------|--------------------------|-------------|-------------|---------------|-----------------------------|---------------|
| District I 1625 N. French Dr | , Hobbs, 1 | VM 882 | 240 | | Ene | ergy, | Minerals and | d Nat | ura | ı Ke | sources | | 1. WELL | API : | NO. | | Revised A | ugust 1, 2011 |
| District II 811 S. First St., An District III | esia, NM | 88210 | , | | | Oi | l Conservat | tion] | Div | isic | n | | 30-043-211 | | | | | |
| 1000 Rio Brazos R District IV | d., Aztec, | NM 87 | 410 | | | 12 | 20 South S | t. Fra | anci | is D | r. | | 2. Type of Le | | ☐ FE | Έ | ☑ FED/IND | IAN |
| 1220 S. St. Francis | Dr., Santa | Fe, NI | M 87505 | | | | Santa Fe, N | MV 8 | 375 | 05 | | | 3. State Oil & JICARILLA | | | No. | | |
| | | LET | ION (| OR F | RECC | MPL | ETION RE | POR | TA | ١NE | LOG | | | | | | | |
| 4. Reason for fil | ing: | | | | | | | | | | | | 5. Lease Nam LOGOS | e or l | Jnit Agr | eeme | ent Name | |
| ☐ COMPLET | ION REI | PORT | (Fill in l | ooxes # | ‡1 throu | gh #31 | for State and Fee | e wells | only |) | | | 6. Well Numb | per: 1 | 1 | | | |
| C-144 CLOS #33; attach this a | nd the pla | TTAC at to th | HMENT ne C-144 | Γ (Fill closure | in boxe e report | s#1 thr in acco | ough #9, #15 Dardance with 19.1 | ate Rig 5.17.1 | Rele 3.K N | ased VMA | and #32 and C) | /or | | | | | | · |
| | WELL [| □ wc | ORKOVE | R 🔲 | DEEPE | NING | □PLUGBACI | Κ 🗆 [| DIFFI | EREI | NT RESERV | OIF | R OTHER | | | | | |
| 8. Name of Opera LOGOS OPERA | | .C | | | | | | | | | | | 9. OGRID 289408 | | | | | |
| 10. Address of O 4001 North Butle | perator | | ding 710 | 1 Earm | ington | NIN 1 07 | 401 | | | | | | 11. Pool name | or W | ildcat | | | |
| | _ | | | 1 Talli | | | | | | | | | | | | | | |
| 12.Location Surface: | | | | | | | | | | | | he | N/S Line | Fee | t from th | ne E | E/W Line | County |
| BH: | | | | | | | | | | | | | | | | + | | |
| 13. Date Spudded | 1 14. D | ate T. | D. Reach | ned | 15. E | | Released | <u>. </u> | | 16. | Date Compl | eted | (Ready to Prod | uce) | | | Elevations (DF GR, etc.) | and RKB, |
| 18. Total Measur | Total Measured Depth of Well 19. Plug Back Measured Depth 20. Was Direct | | | | | | | | | | | iona | I Survey Made? | | 21. T | ype E | Electric and Ot | her Logs Run |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name | | | | | | | | | | | | | | | <u> </u> | _ | | |
| 23. CASING RECORD (Report all stri | | | | | | | | | | | ring | gs set in w | ell) | | | | | |
| CASING SI | ZE | V | VEIGHT | LB./F | Т. | | DEPTH SET | | | НО | LE SIZE | | CEMENTIN | G RE | CORD | <u> </u> | AMOUNT | PULLED |
| | | | | | | | | | • | | | | | | | - | * | |
| | | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | ├ | | |
| 24. | | L | | | | LIN | ER RECORD | | | | I | 25. | . <u>T</u> | | NG RE | | RD | |
| SIZE | TOP | | | BOT | TOM_ | | SACKS CEM | ENT | SCF | REEN | 1 | SIZ | ZE | D) | EPTH S | ET_ | PACKI | ER SET |
| | | | | | | | | | | | | | | | | | | |
| 26. Perforation | record (i | nterva | l, size, aı | ıd num | iber) | | | | | | ID, SHOT, INTERVAL | FR. | ACTURE, CE AMOUNT A | | | | | |
| | | | | | | | | ŀ | DLI | 111 | INTERVAL | | AMOUNTA | INDI | CIND W | AIL | KIAL USED | |
| | | | | | | | | [| | - | | | | | | | | |
| 28. | _ | | | | | | · · · · · · · · · · · · · · · · · · · | PRO | DI | IC | ΓΙΟΝ | | <u> </u> | | | | | |
| Date First Produc | tion | | Pr | oducti | on Meth | od (Fla | owing, gas lift, pi | | | | | • | Well Status | (Pro | d. or Shi | ut-in) | | |
| Date of Test | Hour | s Teste | ed | Cho | ke Size | | Prod'n For Test Period | | Oil · | - Bbl | | Gas | s - MCF | w | ater - B | bl. | Gas - C | Dil Ratio |
| Flow Tubing Press. | Casir | g Pres | ssure | | ulated 2 r Rate | 4- | Oil - Bbl. | | | Gas - | - MCF | 1 | Water - Bbl. | | Oil G | ravity | y - API <i>- (Cor</i> | r.) |
| 29. Disposition o | f Gas (So | ld, use | ed for fue | l, vente | ed, etc.) | | <u> </u> | | | | | [_ | | 30. 1 | Test Wit | nesse | d By | |
| 31. List Attachme | ents | | | | | | | | - | ··· | · | | | | | | | |
| 32. If a temporary | pit was | used a | t the wel | l, attac | h a plat | with th | e location of the | tempoi | rary p | oit. S | SEE ATTAC | HE | D | | | | | |
| 33. If an on-site b | urial was | used | at the we | II, repo | ort the e | xact loc | ation of the on-s | ite bur | ial: | | | | | | | | | |
| I hereby certif | S) that t | he in | formati | ion sh | lown o | n hotl | Latitude 3 | 6.1650 form | 001N is # | านค (| and compl | Long | gitude 107.4053 | 75W f mv | NA knowl | D 192 edoa | 27 1983X 2 and beliet | <u> </u> |
| Signature O | | رس س | Go | αl | _ P | rinted | lamie Goodw | | | | e Regulato | | | | | | 9/14 | |
| E-mail Addres | | dwin | @logo | soper | | | | | | | | | | | | | | |



| Pit Closure Form: |
|---|
| Date: 5/1/14 |
| Well Name: LOGOS 11 |
| Footages: <u>2075' FSL & 1730' FWL</u> Unit Letter: <u>K</u> |
| Section: <u>6</u> , T- <u>22N</u> , R- <u>5W</u> , County: <u>SANDOVAL</u> State: <u>NM</u> |
| Contractor Closing Pit: |
| |
| |
| Construction Inspector: Wayne RiHer |
| Inspector Signature: |
| Date: 5-7-14 |

Tamra Sessions

From: Tamra Sessions

Sent: Friday, February 14, 2014 7:50 AM

To: Jonathan Kelly (jonathan.kelly@state.nm.us)
Cc: brandon.powell@state.nm.us; Wayne Ritter
Subject: Logos 11_ Jicarilla Pit Closure 72hr Notice

LOGOS #11 Jicarilla Lease 424 API #30-043-21159 UL K, Section 06, T22N, R05W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Thursday, February 20, 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 14, 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 #11

API #30-043-21159

UL K, 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 20, 2014 on the Logos #11. 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

| SENDER COMPLETE THE PROPERTY OF THE PROPERTY O | COMPLEASE STREET ON ON OF THE PRESENT OF THE PRESEN |
|--|--|
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. | A. Signature X |
| 1. Article Addressed to: Bureau of Indian Affairs Jicarilla Agany | D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No |
| Po Box 167 Dulce, NM 87528 | 3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes |
| 2. Article Number (Transfer from service label) 7013 225 | 0 0001 2785 5194 |
| PS Form 3811, February 2004 Domestic Retu | urn Receipt 102595-02-M-1540 |

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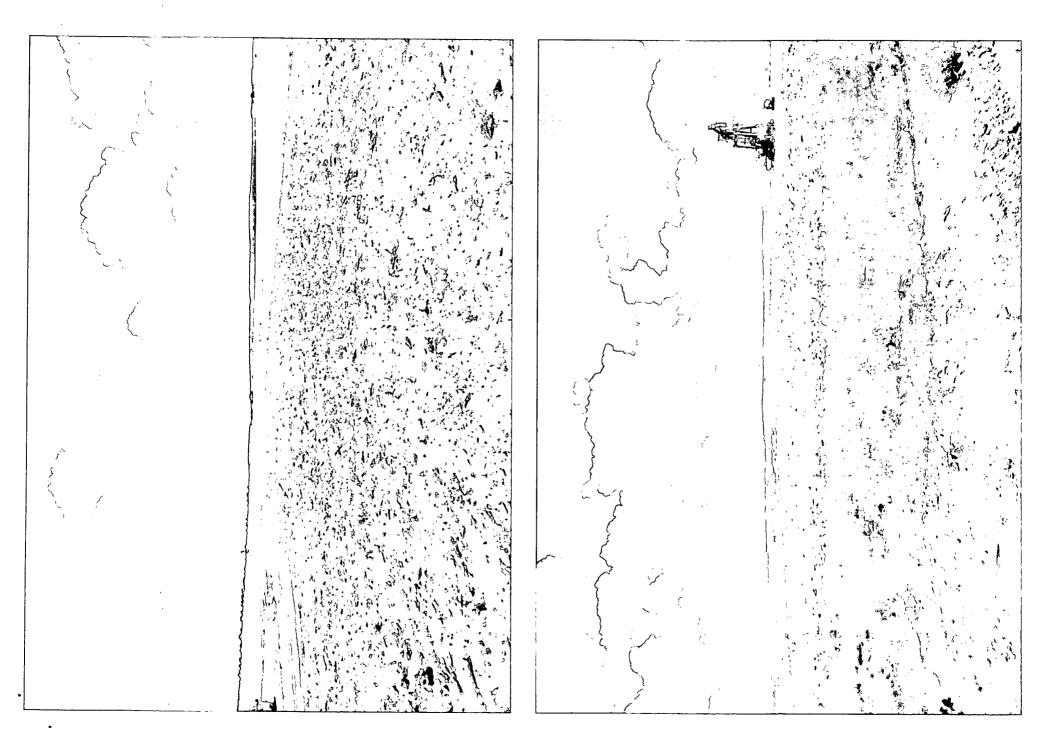
| | U.S. Postal Sarvice | | | | | | | | | |
|--------|---|------------|-----------------------|---------|--|--|--|--|--|--|
| | CERTIFIE | MAIL REC | CEIPT | 1 | | | | | | |
| 46 | (Poinceth Mellouty Notine union @overego Provided) | | | | | | | | | |
| 57 | Fordeliverylinformation visitour website at www.usps.come | | | | | | | | | |
| 5 | DUCCE NA 875 | CIAL | JUSE | | | | | | | |
| 40 | | | | | | | | | | |
| 7 | Postage | \$ \$0.49 | 0401 | | | | | | | |
| - | Certified Fee | \$3.30 | Postmark 1 | | | | | | | |
| 1000 | Return Receipt Fee (Endorsement Required) | \$2.70 | | 00/ | | | | | | |
| | Restricted Delivery Fee | 72.70 | | 74 | | | | | | |
| 50 | (Endorsement Required) | \$0.00 | 2014 | ō/ | | | | | | |
| L L | Total Postage & Fees | \$ \$6.49 | 02/19/2014 | 7 | | | | | | |
| т | Sent To D. A. T. | 2.4 | USPS | | | | | | | |
| 1 | Street, Apt. No.; | anlla Agen | raj | • | | | | | | |
| 707 | or PO Box No. | Box 167 | | 11 × | | | | | | |
| | City, State, ZIP+4 | (e, xIM 8) | 7528 | y bc. | | | | | | |
| | CS Company August CA | 1006 | See Reverse for limit | enolone | | | | | | |



| Reclamation Form: |
|---|
| Date: <u>5-8-14</u> |
| Well Name: LOGOS 11 |
| Footages: 2075' FSL & 1730' FWL Unit Letter: K |
| Section: <u>6</u> , T- <u>22N</u> , R- <u>5W</u> , County: <u>SANDOVAL</u> State: <u>NM</u> |
| Reclamation Contractor: |
| Reclamation Start Date: ひーかー1 リ |
| Reclamation Complete Date: 5-8-14 |
| Road Completion Date: 5-8-14 |
| Seeding Date: Fall 2014 |
| PIT MARKER STATUS |
| (When Required) Picture of Marker set needed |
| Date Marker Placed: 8 15 14 |
| Latitude: 36.16500 N. |
| Longitude: 107, 40575 W. |
| Date Pit Manifold Removed: N/A |
| Construction Inspector Signature: warme Rt |
| Date Inspected: 5-8-14 |



LOGOS OPERATING, LLC.
LOGOS #11-JIC. LEASE #424
API #30-043-21159
2075' FSL 1730' FWL
K-SEC. 6-T22N-R5W
SANDOVAL COUNTY, NM
OFFICE # 505-436-2627
AFTER HRS #866-598-6220



| | | | Temporary Pit Weekly Inspection Form | | | | | | | |
|-------------------|------------|---|--------------------------------------|---------|--------------|---|--|--|--|--|
| WELL NAME: | LOGOD 11 | _ | | API NO: | 30-043-21159 | | | | | |
| LEGALS: | Section: | 6 | Township: | 22N | Range: 51 | w | | | | |
| Drilling RD Date: | 11/13/2013 | | 4 | | | | | | | |

| | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey |
|--|--|----------------|-------------|----------------|-----------|---------------|----------------|------------|-----------|-----------|--|----------------|
| Inspector's Name | Hatalie | Hatalie | Hatalie | | Hatalie | Hatalie | Hatalie | | | · · | • | Hatalie |
| WEEK# | 1 | | | 4 | 5 | 6 | | 8 | | | | 12 |
| DATE | 11/28/13 | | | 12/09/13 | 12/16/13 | 12/23/13 | 12/30/13 | | 01/14/14 | 01/25/14 | 02/07/14 | 02/14/14 |
| Well sign on location | | | | | 11,10,10 | 12, 23, 13 | 22,00,10 | 02,00,00 | | | | , , , , |
| (Y/N) | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ |
| Any liner breeches | | | | | | 1 | | | | | | |
| (Y/N) | N | N | N | N | N | N | N | N | N | N | N | N |
| Any fluid seeps/spills | | | | | | | | | | | | |
| (Y/N) | N | N | N | N | N | N | N | N | N | N | N | N |
| HC's on top of temp. | | - | | | | . | _ | | | | | |
| pit (Y/N) | N | N | N | N | N | N | N | N | N | N | N | N |
| Temp pit free of misc. | | | | | | | | | | | | |
| Solid | | | | | | | | | | | | , |
| Waste/Debris(Y/N) | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ |
| Discharge Line | . . | l _v | | ĺ., | | | | l., | | | ĺ., | . |
| Integrity Good (Y/N) Fence Integrity Good | N | Y | Υ | Υ | <u>Y</u> | Υ | Υ | Υ | Υ | N | N | N |
| (Y/N) | Y | · | v | l _v | l, | Y | v | v | v | γ . | v | l, |
| Any Dead Wildlife/ | | <u> </u> | | 1 | T | 1 | T | 1 | | | <u> </u> | |
| Stock (Y/N) | N | N | N | N | N | N | N | N | N | N | N | l _N |
| Freeboard to be 2' or | | | | | | | | | | | <u></u> | |
| > Est. (ft) | Y (2 1/2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (2') | Y (3') | Y (2') |
| Was the OCD | | | | | | | | | | | | |
| contacted (Y/N) | N | N | N | N | N | N | N | N | N | N | N | N |
| | | | | | | | | | ! | | | v |
| Pictures taken (Y/N) | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Υ | Y |
| | | ļ | | | | | | | | | | |
| | | | | | | | | | | | | |
| | <u> </u> | | | | | | | | | | - | |
| | ļ | | | | | | | | | | | |
| | | | _ | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | İ | | | | | | | | | |
| | | | | | | | | 2' | | | | |
| Comments: | | | | | | | 2' | CLEARNACE | | | | |
| Comments. | | | | | | | CLEARANCE | ICE ON TOP | | | | |
| | | | | | ĺ | | HAS ABOUT | UNDERNEAT | | | | |
| | 2 1/2 | 2' | 2' | 2' | 2' | 2' | 3" IR 4" ICE & | H WAS | 2' | 2' | 3' | 2' |
| | CLEARANCE | CLEARANCE | CLEARANCE | CLEARANCE | CLEARANCE | CLEARANCE | SNOW | SUCKED | CLEARANCE | CLEARANCE | CLEARANCE | CLEARANCE |

| | | | Tempoi | ary Pit Wee | kly Inspecti | on Form | · · · · · · · · · · · · · · · · · · · | | | | | |
|--|-----------------|----------------|-------------|----------------|--------------|----------------|---------------------------------------|----|--|----|----|--------------|
| WELL NAME: | LOGOS 11 | | | API NO: | 30-043-51159 | | | | | | | |
| LEGALS: | Section | : 6 | Township: | 22N | Range: | 5W | | | | | | |
| Drilling RD Date: | 11/13/2013 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | Ramsey | | | | | <u> </u> |
| Inspector's Name | Hatali <u>e</u> | Hatalie | Hatalie | Hatalie | Hatalie | Hatalie | Hatalie | | | | | _ |
| WEEK# | 13 | | | | 17 | | | 20 | 21 | 22 | 23 | 24 |
| DATE | 03/03/14 | 03/24/14 | 04/05/14 | 04/12/14 | 04/22/14 | 04/28/14 | 05/13/14 | | | | | |
| Well sign on location | | <u> </u> | ,, | | l., | l., | <u> </u> | | | | | |
| (Y/N) | Υ | Y | Υ | Y | Υ | Υ | Υ | | | | | |
| Any liner breeches | | | | , , | . | l | . | | | | | |
| (Y/N) Any fluid seeps/spill: | N | N | N | N | N | N | N | | | | | _ |
| (Y/N) | N | N | N | N | N | N | l _N | | | | | |
| HC's on top of temp. | | | - | | | | | | | | | |
| pit (Y/N) | N | N | N | N | N | N | N | | | | | |
| Temp pit free of mis | c. | | | | | | | | | | |] |
| Solid | | | | | | : | | | | Ì | |] |
| Waste/Debris(Y/N) | Υ | Υ | Υ | Υ | Υ | Υ | N | | | | | |
| Discharge Line | N. | _N | N | l _N | . | 1., | . | | | | | |
| Integrity Good (Y/N) Fence Integrity Good | N | N | N | N | N | N | N | | | | | - |
| (Y/N) | Y | Ι _Υ | Υ | Y | Y | l _Y | N | | | : | | |
| Any Dead Wildlife/ | | | | | | | | | | | | |
| Stock (Y/N) | N | N | N | N_ | N | N | N | | | | | |
| Freeboard to be 2' o | | | | | | | | | | | | |
| > Est. (ft) Was the OCD | Y (2') | N (1') | N (1') | Y (3') | Y (3 1/2') | Y (4') | N | | | | | |
| contacted (Y/N) | N | N | N | N | N | N | N | | | | | |
| | | | | - | | - | | | | | | |
| Pictures taken (Y/N) | Y | Υ | Υ | Υ | Υ | Υ | Υ | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | , <u>. </u> | | | |
| | | | | | | _ | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | 3' | - | | | | | | | |
| | | | 1' | CLEARANCE/ | | | | | | | | |
| | | 1 | CLEARANCE | CREW THERE | | | | | | | | |
| Comments: | | 1' | CREW | REPORTED | | | COMPLETION | 1 | | | | |
| | | CLEARANCE/ | WORKING | LIQIUD FROM | | | , CREW | | | | | |
| | 31 | DIRT WAS | ON BACK | SAND. | 24/21 | | FINISHED | | | | 1 | |
| | 2' | ADDEED TO | FILLING THE | | 1 | ALC: FARMES | BACK FILLING | 1 | | | | |
| | CLEARANCE | PIT | PIT | PIT | LCLEARANCE | 4' CLEARNCE | EARTH PIT | | | 1 | | <u> </u> |



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,

Jarnie Goodwin

Regulatory Technician