

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 August 1, 2011

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

12247

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

RCVD OCT 1 11 14
OIL CONS. DIV.

DIST. 3

- Type of action:
- Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
 - Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
 - Modification to an existing permit
 - Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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.

1.
Operator: Logos Operating, LLC OGRID #: 289408
Address: 4001 North Butler Avenue, Building 7101 Farmington, NM 87401
Facility or well name: LOGOS 6
API Number: 30-045-35422 OCD Permit Number: 11372
U/L or Qtr/Qtr G Section 8 Township 23N Range 8W County: SAN JUAN
Center of Proposed Design: Latitude 36.24430 ° N Longitude 107.70231 ° W NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
 Permanent Emergency Cavitation P&A
 Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other _____
 String-Reinforced
Liner Seams: Welded Factory Other _____ Volume: 8,000 bbl Dimensions: L 130 x W 60 x D 10

3.
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
 Drying Pad Above Ground Steel Tanks Haul-off Bins Other _____
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
Liner Seams: Welded Factory Other _____

4.
 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: Thickness _____ mil HDPE PVC Other _____

5.
 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.
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 _____

7.
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)

8.
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

9.
Administrative Approvals 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:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.
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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 attached.

- 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 NMAC
- 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment 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 attached.

- Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: _____
- Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

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 attached.

- 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

14.

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 Closed-loop System
 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached 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 F 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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

Yes (If yes, please provide the information below) No

Required for impacted areas which will not be used for future service and operations:

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 I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

- Ground water is less than 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 between 50 and 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
- 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 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.
 - Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes No
- Within 500 feet of a wetland.
 - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, 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 F of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- 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 F of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 be achieved)
- 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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

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 belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20.

OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Approval Date: 10/20/2014

Title: Compliance Officer OCD Permit Number: _____

21.

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. 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 this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: 8/14/13

22.

Closure Method:

Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
 If different from approved plan, please explain.

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below) No

Required for impacted areas which will not be used for future service and operations:

- Site Reclamation (Photo Documentation)
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique

24.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.24430°N Longitude 107.70231°W NAD: 1927 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Tamra Sessions Title: Operations Technician

Signature: Tam Sessions Date: 9-30-14

e-mail address: tsessions@logosresourcesllc.com Telephone: 505-330-9333

**Logos Operating, LLC
San Juan Basin
Closure Report**

**Lease Name: LOGOS 6
API NO: 30-045-35422**

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).

- 2 The preferred method of closure for all temporary pits will be on-site burial, assuming that all criteria listed in sub-section (B) 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 email 72 hours prior to closure operations. Notification is included with the 72 hour notice to OCD.
(Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD).**

***Variance Explanation: Rule 19.15.17.13 E. If the surface owner is a public entity (BLM/State/Tribal) then an email notification will be sent, of plans to close the temporary pit at least 72 hours, but no more than 1 week, prior to any closure operation. The notice will include the well name, API number, and location.**

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

**The closure plan requirements were met due to rig move off date as noted on C-105.
Pit closure extension to 9/1/13 was requested of the BLM per sundry dated 7/29/13 and approved.**

- 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 Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken or

remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.

Liner of temporary pit was removed above "mud level" after stabilization. Removal of the liner consisted of manually cutting liner at mud level and removing all remaining liner. Care was taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner was disposed of at a licensed disposal facility. (San Juan County Landfill).

- 7 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 approximately 3 parts clean soil to 1 part pit contents.

- 8 A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul

A five composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). (Sample results attached).

Components	Tests Method	Limit (mg/Kg)	Results (ppm)
Benzene	EPA SW-846 8021B or 8260B	0.2	.06
BTEX	EPA SW-846 8021B or 8260B	50	11.7
TPH	EPA SW-846 418.1	2500	120
GRO/DRO	EPA SW-846 8015M	500	37.7
Chlorides	EPA 300.1	1000	146

- 9 Upon completion of solidification and testing, 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 material passed solidification and testing standards. 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.

- 12 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 mix will be used on federal lands. Vegetative cover will equal 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 through two 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 upon the abandonment of all the wells on the pad. 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 and Well Number, Unit Letter, 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: LOGO
Lease Name & Well Number: LOGOS 6
Unit Letter: G
Section: 8
Township: T23N
Range: R08W
API #: 30-045-35422
OBL**

- 14 Logos inspected the temporary pit but no physical logs were kept. Logos directed their people to inspect, but no logs were filled out. Logos monitored and closed the pit in coordination and under the supervision of the BLM. In the future Logos will maintain logs in accordance with OCD ruling 19.15.17.12(B)(3).

DISTRICT I
1688 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 596-6161 Fax: (575) 596-0720

DISTRICT II
411 N. First St., Artesia, N.M. 88210
Phone: (575) 746-1883 Fax: (575) 746-9780

DISTRICT III
1000 Rio Brazos Ed., Artesia, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3468

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 Dr.
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code		*Pool Name BASIN DAKOTA-NAGEEZI GALLUP	
*Property Code	*Property Name LOGOS			*Well Number 6	
*GRID No.	*Operator Name LOGOS OPERATING, LLC			*Elevation 6893'	

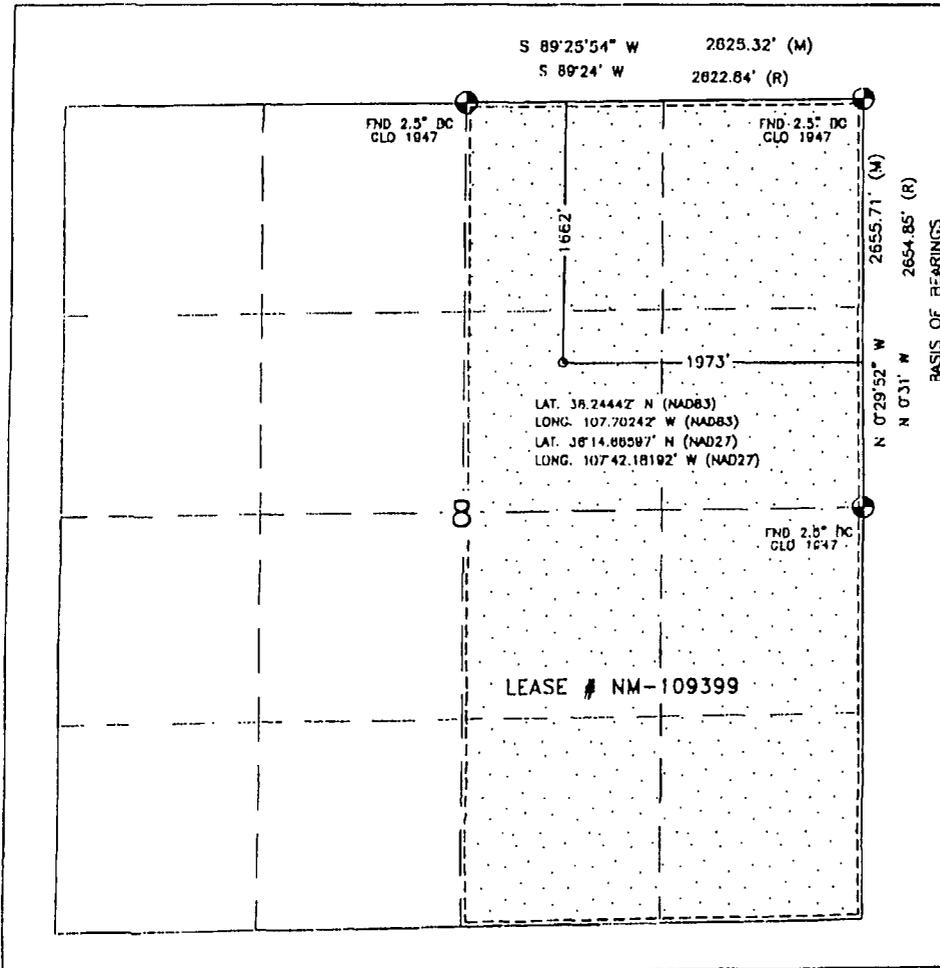
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	8	23N	8W		1662'	NORTH	1973'	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

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 E/2 SEC. 8 - 320.0 Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole 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 heretofore entered by the division.

Signature: *John C. Thompson*
Date: _____
Printed Name: John C. Thompson
E-mail Address: john@welshay.net

18 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.

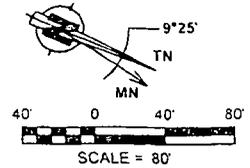
Date of Survey: OCTOBER 19, 2012
Signature and Seal of Professional Surveyor: *David R. Russell*
REGISTERED PROFESSIONAL LAND SURVEYOR
NEW MEXICO
10201

DAVID RUSSELL
Certificate Number: 10201

WELL FLAG
 LATITUDE: 36.24442° N
 LONGITUDE: 107.70242° W
CENTER OF PIT
 LATITUDE: 36.24430° N
 LONGITUDE: 107.70231° W
 ELEVATION: 6381.1'
 DATUM: NAD83 & NAVD86

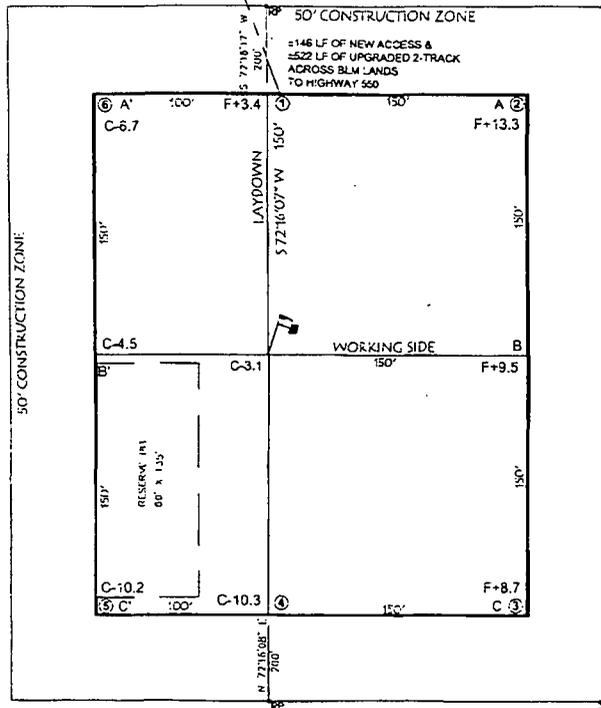
LOGOS OPERATING, LLC
 LOGOS #C
 1652' FNL & 1973' FEL
 LOCATED IN THE SW/4 NE/4 OF SECTION 8,
 T23N, R8W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 6896', NAVD 88
 FINISHED PAD ELEVATION: 6893.1', NAVD 88

PLAT #2



NOTES

- 1.) BASIS OF BEARING BETWEEN FOUND MONUMENTS AT THE NORTH-EAST CORNER AND THE EAST QUARTER CORNER OF SECTION 8, TOWNSHIP 23 NORTH, RANGE 8 WEST, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO.
 LINE BEARS: N 07°52' W A DISTANCE OF 1655.7' FEET AS MEASURED BY C.P.S.
- 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON NAD83 CORRS. 1) PHASE CENTER.
 DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A NODATA ELLIPSOID, CONVERTED TO NAD83.
 NAPOSE ELEVATIONS AS PREDICTED BY REFLECT.
- 3.) LOCATION OF UNDERGROUND UTILITIES INDICATED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITY AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



SCOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

TOTAL PERMITTED AREA
 350' x 400' = 3.21 ACRES
 SCALE: 1" = 80'
 JOB No.: LGS009
 DATE: 10/19/12
 DRAWN BY: GRR

NOTE:
 Scorpion Survey & Consulting, L.L.C., INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



Scorpion Survey & Consulting, L.L.C.
 55 County Road 3312
 Aztec, New Mexico 87410
 (505) 333-2945

Table 1, Summary of Analytical Results
 Logos Operating, LLC
 Logos #6
 Site Assessment Report
 San Juan County, New Mexico
 Project Number 12035-0019

Sample Description	Sample Number	Date	TPH 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	Chlorides USEPA Method 4500 (ppm)	Field Chloride Strip (ppm)
NMOC/RCRA Standards	NA	NA	2500	500	0.2	50	1000	1000
Drill Pit Composite	1	6/10/2013	4030	37.7	0.26	11.6	2180	NS
Drill Pit Composite	1	8/5/2013	5550	NS	0.06	11.7	1220	NS
Drill Pit Composite	1	8/14/2013	120	NS	NS	NS	146	175

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: 15530
Samples Received: 6/11/2013 1:40:00PM
Job Number: 12035-0019
Work Order: P306049
Project Name/Location: Logos #6 Drill Pit
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Date: 6/19/13

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.



Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 19-Jun-13 10:21
--	--	------------------------------

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Composite	P306049-01A	Sludge	06/10/13	06/11/13	Glass Jar, 4 oz.

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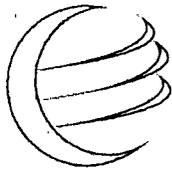
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envirotech-inc.com
laboratory@envirotech-inc.com



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Analytical Laboratory

Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 19-Jun-13 10:21
--	--	------------------------------

Drill Pit Composite
P306049-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	0.26	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Toluene	2.32	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Ethylbenzene	0.97	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
p,m-Xylene	6.32	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
o-Xylene	1.73	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Total Xylenes	8.06	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Total BTEX	11.6	0.05		mg/kg	1	1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		112 %		80-120		1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.5 %		80-120		1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		95.9 %		80-120		1324037	14-Jun-13	19-Jun-13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	5.83	4.99		mg/kg	1	1324031	14-Jun-13	18-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	31.8	4.99		mg/kg	1	1324031	14-Jun-13	18-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	37.7	4.99		mg/kg	1	1324031	14-Jun-13	18-Jun-13	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	4030	40.0		mg/kg	2	1324038	14-Jun-13	14-Jun-13	EPA 418.1	
Cation/Anion Analysis										
Chloride	2180	9.99		mg/kg	1	1324026	12-Jun-13	12-Jun-13	EPA 300.0	

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 19-Jun-13 10:21
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1324037 - Purge and Trap EPA 5030A

Blank (1324037-BLK1)		Prepared: 14-Jun-13 Analyzed: 18-Jun-13								
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
<i>Surrogate: Bromochlorobenzene</i>	47.1		ug/L	50.0		94.2	80-120			
<i>Surrogate: 1,4-Difluorobenzene</i>	50.2		"	50.0		100	80-120			
<i>Surrogate: Fluorobenzene</i>	49.3		"	50.0		98.5	80-120			

Duplicate (1324037-DUP1)		Source: P306042-01		Prepared: 14-Jun-13 Analyzed: 18-Jun-13						
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
<i>Surrogate: Bromochlorobenzene</i>	48.6		ug/L	50.0		97.3	80-120			
<i>Surrogate: 1,4-Difluorobenzene</i>	49.7		"	50.0		99.4	80-120			
<i>Surrogate: Fluorobenzene</i>	49.2		"	50.0		98.4	80-120			

Matrix Spike (1324037-MS1)		Source: P306042-01		Prepared: 14-Jun-13 Analyzed: 18-Jun-13						
Benzene	50.2		ug/L	50.0	0.32	99.7	39-150			
Toluene	50.1		"	50.0	0.68	98.9	46-148			
Ethylbenzene	49.7		"	50.0	0.31	98.8	32-160			
p,m-Xylene	99.2		"	100	0.57	98.7	46-148			
o-Xylene	49.6		"	50.0	0.55	98.1	46-148			
<i>Surrogate: Bromochlorobenzene</i>	48.3		"	50.0		96.5	80-120			
<i>Surrogate: 1,4-Difluorobenzene</i>	49.5		"	50.0		98.9	80-120			
<i>Surrogate: Fluorobenzene</i>	49.3		"	50.0		98.6	80-120			

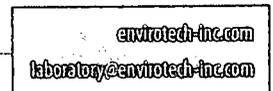
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Analytical Laboratory

Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 19-Jun-13 10:21
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1324031 - GRO/DRO Extraction EPA 3550C

Blank (1324031-BLK1)

Prepared & Analyzed: 13-Jun-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.00	"							
GRO and DRO Combined Fractions	ND	5.00	"							

Duplicate (1324031-DUP1)

Source: P306061-01

Prepared & Analyzed: 13-Jun-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	ND	5.00	"		ND				30	

Matrix Spike (1324031-MS1)

Source: P306061-01

Prepared & Analyzed: 13-Jun-13

Gasoline Range Organics (C6-C10)	303	5.26	mg/kg	263	ND	115	75-125			
Diesel Range Organics (C10-C28)	286	5.26	"	263	ND	109	75-125			

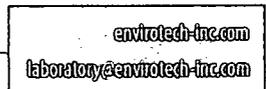
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Analytical Laboratory

Logos Operating, LLC	Project Name:	Logos #6 Drill Pit Sampling	Reported: 19-Jun-13 10:21
PO Box 18	Project Number:	12035-0019	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1324038 - 418 Freon Extraction

Blank (1324038-BLK1)				Prepared & Analyzed: 14-Jun-13						
Total Petroleum Hydrocarbons	ND	19.9	mg/kg							
Duplicate (1324038-DUP1)				Source: P306040-01 Prepared & Analyzed: 14-Jun-13						
Total Petroleum Hydrocarbons	17000	160	mg/kg		17100			0.543	30	
Matrix Spike (1324038-MS1)				Source: P306040-01 Prepared & Analyzed: 14-Jun-13						
Total Petroleum Hydrocarbons	19400	160	mg/kg	2000	17100	115	80-120			

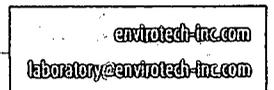
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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 19-Jun-13 10:21
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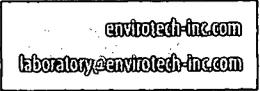
Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1324026 - Anion Extraction EPA 300.0

Blank (1324026-BLK1)				Prepared & Analyzed: 12-Jun-13						
Chloride	ND	9.99	mg/kg							
Duplicate (1324026-DUP1)				Source: P306047-01 Prepared & Analyzed: 12-Jun-13						
Chloride	1280	9.99	mg/kg		1540			18.7	30	

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Logos Operating, LLC	Project Name:	Logos #6 Drill Pit Sampling	Reported: 19-Jun-13 10:21
PO Box 18	Project Number:	12035-0019	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

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

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CHAIN OF CUSTODY RECORD

15530

Client: Logos Operating	Project Name / Location: Logos #6 Drill Pit Sampling	ANALYSIS / PARAMETERS											
Email results to: T. McIntosh	Sampler Name: T. McIntosh	TPH (Method 8015)	BTEX (Method 8021)	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
Client Phone No.:	Client No.: 12035-0019												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	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	
					HNO ₃	HCl	Cool													
Drill Pit Composite	6/10/13	1603	P306049-01	1-4 oz jar			X	X	X							X	X		✓	✓

Relinquished by: (Signature) <i>Tiffany McIntosh</i>	Date	Time	Received by: (Signature) <i>[Signature]</i>	Date	Time
	6/11/13	1340		6/11/13	1340

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix
 Soil Solid Sludge Aqueous Other

Sample(s) dropped off after hours to secure drop off area.





Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 15926

Samples Received: 8/5/2013 3:30:00PM

Job Number: 12035-0019

Work Order: P308015

Project Name/Location: Conf. Sampling- Logos #6
Pit Closure

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Date: 8/12/13

Tim Cain, Laboratory Manager

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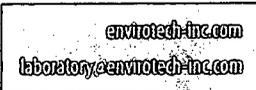


Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Conf. Sampling- Logos #6 Pit Closure Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 12-Aug-13 12:02
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
6	P308015-01A	Sludge	08/05/13	08/05/13	Glass Jar, 4 oz.

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Conf. Sampling- Logos #6 Pit Closure Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 12-Aug-13 12:02
--	---	------------------------------

6

P308015-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.06	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Toluene	1.06	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Ethylbenzene	1.10	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
p,m-Xylene	7.40	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
o-Xylene	2.12	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Total Xylenes	9.52	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Total BTEX	11.7	0.05	mg/kg	1	1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80-120		1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Surrogate: Fluorobenzene		105 %	80-120		1332006	06-Aug-13	08-Aug-13	EPA 8021B	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	5550	200	mg/kg	10	1332010	06-Aug-13	06-Aug-13	EPA 418.1	
Cation/Anion Analysis									
Chloride	1220	9.99	mg/kg	1	1332008	06-Aug-13	06-Aug-13	EPA 300.0	

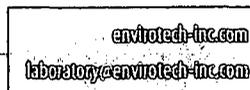
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Analytical Laboratory

Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Conf. Sampling- Logos #6 Pit Closure Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 12-Aug-13 12:02
--	---	------------------------------

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1332006 - Purge and Trap EPA 5030A

Blank (1332006-BLK1)			Prepared: 06-Aug-13 Analyzed: 08-Aug-13							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	41.0		ug/L	50.0		82.1	80-120			
Surrogate: 1,4-Difluorobenzene	50.2		"	50.0		100	80-120			
Surrogate: Fluorobenzene	49.3		"	50.0		98.6	80-120			

Duplicate (1332006-DUP1)			Source: P308013-01		Prepared: 06-Aug-13 Analyzed: 08-Aug-13					
Benzene	ND	0.05	mg/kg		ND					30
Toluene	0.07	0.05	"		0.07			9.08		30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	0.12	0.05	"		0.10			15.3		30
o-Xylene	0.05	0.05	"		0.05			6.20		30
Surrogate: Bromochlorobenzene	46.6		ug/L	50.0		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	52.2		"	50.0		104	80-120			
Surrogate: Fluorobenzene	53.3		"	50.0		107	80-120			

Matrix Spike (1332006-MS1)			Source: P308013-01		Prepared: 06-Aug-13 Analyzed: 08-Aug-13					
Benzene	48.8		ug/L	50.0	0.73	96.1	39-150			
Toluene	49.4		"	50.0	1.37	96.0	46-148			
Ethylbenzene	48.9		"	50.0	0.63	96.6	32-160			
p,m-Xylene	98.6		"	100	2.02	96.6	46-148			
o-Xylene	47.8		"	50.0	1.03	93.5	46-148			
Surrogate: Bromochlorobenzene	47.0		"	50.0		94.1	80-120			
Surrogate: 1,4-Difluorobenzene	52.9		"	50.0		106	80-120			
Surrogate: Fluorobenzene	53.1		"	50.0		106	80-120			

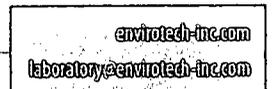
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5796 US Highway 64, Farmington, NM 87401

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

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

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





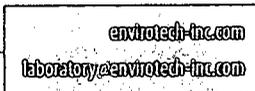
Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Conf. Sampling- Logos #6 Pit Closure Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 12-Aug-13 12:02
--	---	------------------------------

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1332010 - 418 Freon Extraction										
Blank (1332010-BLK1) Prepared & Analyzed: 06-Aug-13										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1332010-DUP1) Source: P308013-01 Prepared & Analyzed: 06-Aug-13										
Total Petroleum Hydrocarbons	152	20.0	mg/kg		156			2.43	30	
Matrix Spike (1332010-MS1) Source: P308013-01 Prepared & Analyzed: 06-Aug-13										
Total Petroleum Hydrocarbons	1900	19.9	mg/kg	1990	156	87.6	80-120			

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Conf. Sampling- Logos #6 Pit Closure Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 12-Aug-13 12:02
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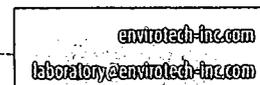
Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1332008 - Anion Extraction EPA 300.0

Blank (1332008-BLK1)				Prepared & Analyzed: 06-Aug-13						
Chloride	ND	9.99	mg/kg							
Duplicate (1332008-DUP1)				Source: P308013-01 Prepared & Analyzed: 06-Aug-13						
Chloride	128	9.99	mg/kg		120			6.02	30	

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Logos Operating, LLC	Project Name:	Conf. Sampling- Logos #6 Pit Closure	Reported: 12-Aug-13 12:02
PO Box 18	Project Number:	12035-0019	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

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

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CHAIN OF CUSTODY RECORD

15926

Client: <i>Logo Operating</i>	Project Name / Location: <i>Logos # Cent. Sampling - Pit Closure 6</i>	ANALYSIS / PARAMETERS											
Email results to: <i>T. Henry / Isaac</i>	Sampler Name: <i>Isaac</i>	TPH (Method 8015)	BTEX (Method 8021)	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
Client Phone No.:	Client No.:												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	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
					HNO ₃	HCl	cool												
<i>6</i>	<i>8/5</i>	<i>11:30</i> <i>7:30</i>	<i>P308015-01</i>	<i>1-4cc</i>			<i>X</i>	<i>X</i>								<i>X</i>	<i>X</i>	<i>✓</i>	<i>✓</i>

Relinquished by: (Signature) <i>[Signature]</i>	Date <i>8/5</i>	Time <i>3:30</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>8/5/13</i>	Time <i>15:30</i>
Relinquished by: (Signature)			Received by: (Signature)		
Sample Matrix Soil <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>					



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-0019
Sample No.:	1	Date Reported:	11/4/2013
Sample ID:	Drill Pit Composite	Date Sampled:	8/14/2013
Sample Matrix:	Soil	Date Analyzed:	8/14/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	120	5.0
-------------------------------------	------------	------------

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Logos #6**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

 Analyst

Toni McKnight

 Review

Tiffany McIntosh

 Printed

Toni McKnight, EIT

 Printed



**CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Cal. Date: 14-Aug-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	199
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Tiffany McIntosh
Analyst

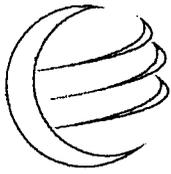
11/4/2013
Date

Tiffany McIntosh
Print Name

Toni McKnight
Review

11/4/2013
Date

Toni McKnight, EIT
Print Name



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 15974

Samples Received: 8/14/2013 4:35:00PM

Job Number: 12035-0019

Work Order: P308039

Project Name/Location: Logos #6 Drill Pit
Sampling

Entire Report Reviewed By:

Date: 8/15/13

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.



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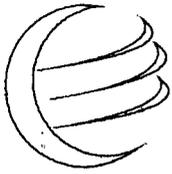
Analytical Laboratory

Logos Operating, LLC	Project Name:	Logos #6 Drill Pit Sampling	
PO Box 18	Project Number:	12035-0019	Reported:
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	15-Aug-13 13:54

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Composite	P308039-01A	Soil	08/14/13	08/14/13	Plastic Baggie

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Analytical Laboratory

Logos Operating, LLC	Project Name:	Logos #6 Drill Pit Sampling	Reported: 15-Aug-13 13:54
PO Box 18	Project Number:	12035-0019	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

Drill Pit Composite
P308039-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	146	10.0	mg/kg	1	1333022	15-Aug-13	15-Aug-13	EPA 300.0	

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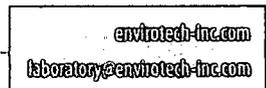


Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #6 Drill Pit Sampling Project Number: 12035-0019 Project Manager: Tiffany McIntosh	Reported: 15-Aug-13 13:54
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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1333022 - Anion Extraction EPA 300.0										
Blank (1333022-BLK1)										
Chloride	ND	9.99	mg/kg							Prepared & Analyzed: 15-Aug-13
Duplicate (1333022-DUP1)										
Chloride	190	9.99	mg/kg		146			26.0	30	Source: P308039-01 Prepared & Analyzed: 15-Aug-13

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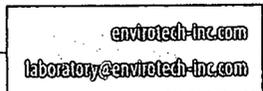
Analytical Laboratory

Logos Operating, LLC	Project Name:	Logos #6 Drill Pit Sampling	Reported: 15-Aug-13 13:54
PO Box 18	Project Number:	12035-0019	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

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

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CHAIN OF CUSTODY RECORD

15974

Client: Logos Operating	Project Name / Location: Logos #6 Drill Pit Sampling	ANALYSIS / PARAMETERS			
Email results to: T. McIntosh	Sampler Name: T. McIntosh	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals
Client Phone No.:	Client No.:				
	12035-0019	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool
		Sample Intact			

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	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		
					HNO ₃	HCl	Cool														
Drill Pit Composite	8/14/13	1455	P308039-01	ziplock bag			X										X		Y	Y	

Relinquished by: (Signature) <i>Tiffany McIntosh</i>	Date 8/14/13	Time 1635	Received by: (Signature) <i>[Signature]</i>	Date 8/14/13	Time 1635
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
 Soil Solid Sludge Aqueous Other

Sample(s) dropped off after hours to secure drop off area.

RUSH per Tiffany
8/12/13 TC



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Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised August 1, 2011

1. WELL API NO.
30-045-35422

2. Type of Lease
 STATE FEE FED/INDIAN

3. State Oil & Gas Lease No.
NM109399

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:
 COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)
 C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
LOGOS

6. Well Number: 6

7. Type of Completion:
 NEW WELL WORKOVER DEEPENING PLUGBACK DIFFERENT RESERVOIR OTHER

8. Name of Operator
LOGOS OPERATING LLC

9. OGRID
289408

10. Address of Operator
4001 North Butler Avenue, Building 7101 Farmington, NM 87401

11. Pool name or Wildcat

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released 3/4/13	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run	

22. Producing Interval(s), of this completion - Top, Bottom, Name

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production	Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)	Well Status (<i>Prod. or Shut-in</i>)					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)	

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)

30. Test Witnessed By

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit. SEE ATTACHED

33. If an on-site burial was used at the well, report the exact location of the on-site burial:
Latitude 36.24430 °N Longitude 107.70231°W NAD 1927 1983X

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature:  Printed Name Tamra Sessions Title Operations Technician Date 9/26/14

E-mail Address tsessions@logosresourcesllc.com



Pit Closure Form:

Date: 8-14-13

Well Name: LOGOS #6

Footages: 1662' FNL & 1973 FEL Unit Letter: G

Section: 08, T-23N, R-08W, County: SAN JUAN State: NM

Contractor Closing Pit: JO Ritter

Construction Inspector: _____

Inspector Signature: Wayne

Date: 8-14-13

Tamra Sessions

From: Kristina Graham
Sent: Monday, August 25, 2014 2:08 PM
To: Tamra Sessions
Subject: FW: FW: Logos #6 - Reserve Pit Closure Notification

Kristy Graham
Production Engineer
505-436-2627 Office
505-402-6361 Cell
kgraham@logosresourcesllc.com



From: Switzer, Robert [<mailto:rswitzer@blm.gov>]
Sent: Monday, August 12, 2013 7:13 AM
To: Kristina Graham
Subject: Re: FW: Logos #6 - Reserve Pit Closure Notification

Kristy,

Thanks for the notification. In the future, would you please send all notices for all reclamation activities to Mark Kelly. This would help get the notices to the appropriate individuals. Mike Flaniken is responsible for the Notice of Stakings and subsequent APD Processing and not the reclamation activities.

Thanks
Bob

On Fri, Aug 9, 2013 at 2:00 PM, Kristina Graham <kgraham@logosresourcesllc.com> wrote:

Bob,

Please see the message below. I apologize, for not copying you on the request earlier this week.

Thank you,

Kristy Graham

Production Engineer

505-436-2627 Office

505-402-6361 Cell

kgraham@logosresourcesllc.com

From: Kristina Graham

Sent: Wednesday, August 07, 2013 12:10 PM

To: Jonathan.Kelly@state.nm.us; 'mflanike@blm.gov'

Cc: Tamra Sessions; writter@logosresourcesllc.com; david mcwilliams (davemacado@yahoo.com)

Subject: Logos #6 - Reserve Pit Closure Notification

Importance: High

This is our 48 hour notification to begin closure on the reserve pit on the Logos #6 in section 8, T23N, R8W in San Juan County, NM. We would like to begin closure operations on Friday, August 9, 2013. Please let me know if you have any questions.

Thank you,

Kristy Graham

Production Engineer

505-436-2627 Office

505-402-6361 Cell

kgraham@logosresourcesllc.com

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Reclamation Form:

Date: 8/19/13

Well Name: LOGOS #6

Footages: 1662' FNL & 1973' FEL Unit Letter: G

Section: 08, T-23N, R-08W, County: SAN JUAN State: NM

Reclamation Contractor: JD Ritter

Reclamation Start Date: 8/9/13

Reclamation Complete Date: 8/19/13

Road Completion Date: 8/19/13

Seeding Date: 8/24/13

PIT MARKER STATUS

(When Required) Picture of Marker set needed

Date Marker Placed: 11-26-13

Latitude: 36.24430

Longitude: 107.70831

Date Pit Manifold Removed: N/A

Construction Inspector Signature: Wayne [Signature]

Date Inspected: 8-19-13

LOGOS OPERATING, LLC.

LOGOS #6

API #30-045-35422

1662' FNL 1973' FEL

G-SEC. 8-T23N-R8W

SAN JUAN COUNTY, NM

OFFICE # 505-436-2627

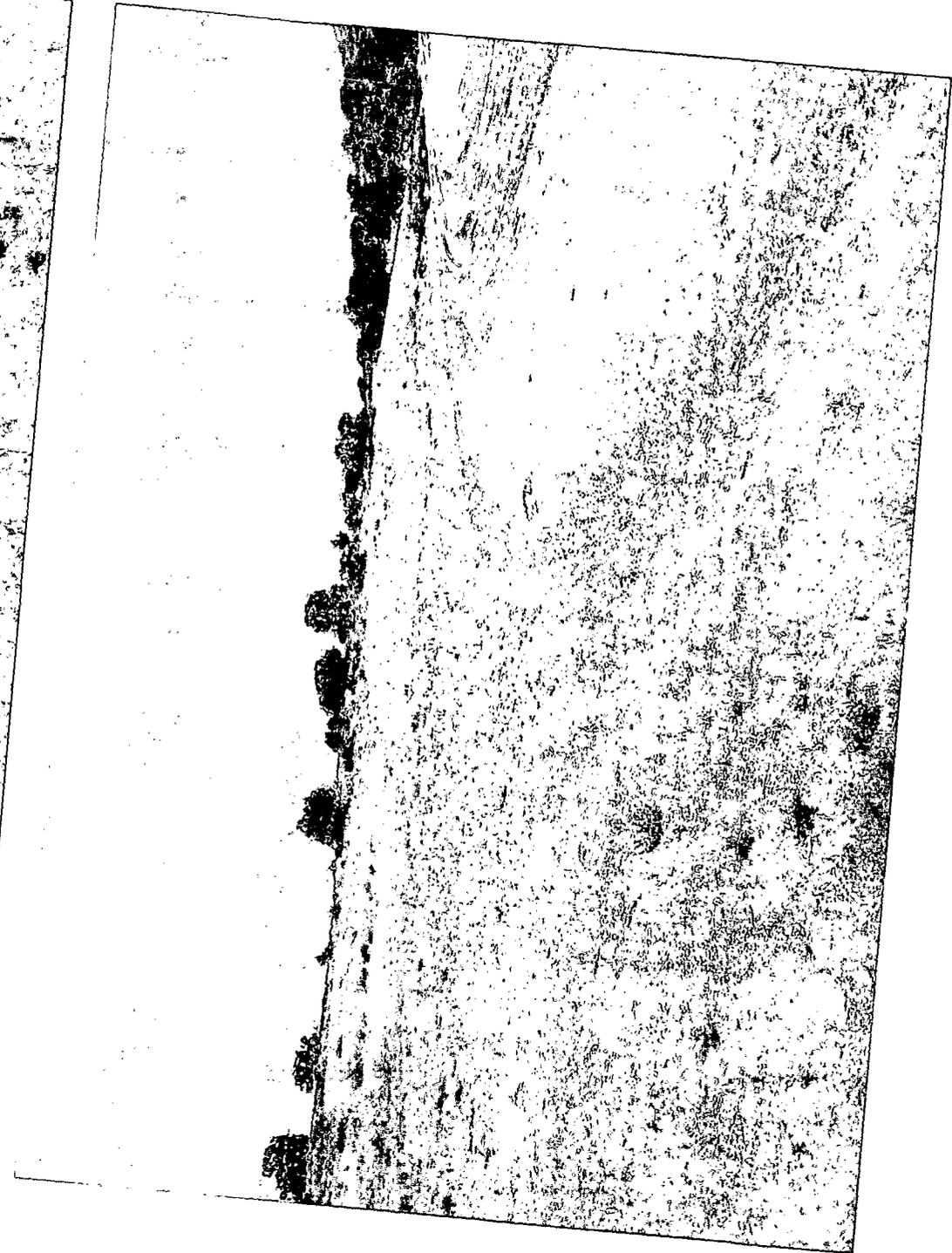
AFTER HRS #866-598-6220

LOGOS-OPER

LOGOS #6

G, SEC. 8, T23N,

R8W, OBL.





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