

District I
 15 N. French Dr., Hobbs, NM 88240
 District II
 871 S. First St., Artesia, NM 88210
 District III
 1000 Rio Brazos Road, Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy Minerals and Natural Resources
 Department
 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-144
 Revised June 6, 2013

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

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

RCOD SEP 30 '14
 OIL CONS. DIV.
 DIST. 3

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

12229
 43-21155

Amended

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
 Operator: LOGOS OPERATING, LLC OGRID #: 289408
 Address: 4001 NORTH BUTLER AVENUE, BUILDING 7101 FARMINGTON NM 87401
 Facility or well name: LOGOS 7
 API Number: 30-043-21155 OCD Permit Number:
 U/L or Qtr/Qtr E Section 5 Township 22N Range 5W County: SANDOVAL
 Center of Proposed Design: Latitude 36.16927 ° N Longitude 107.39284 ° 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 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.
 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 _____

4.
 Alternative Method:
 Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
 Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
 Four foot height, four strands of barbed wire evenly spaced between one and four feet
 Alternate. Please specify

6.

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

8.

Variations and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

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
 NA

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
 NA

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.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Yes No

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

Yes No

10.

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: _____

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 documents are attached.

- Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- A List of wells with approved application for permit to drill associated with the pit.
- Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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 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

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 Fluid Management Pit
 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

14.

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 C of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 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 incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<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

16.
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 E of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 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 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot 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 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.
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: _____

18.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Approval Date: 10/30/2014

Title: Compliance Officer OCD Permit Number: _____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. 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: 4/22/14

20.
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.

21.
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 for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on-site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re-vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.36.16927° N Longitude 107.39284° W NAD: 1927 1983

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): Jamie Goodwin

Title: Regulatory Tech.

Signature: Jamie Goodwin

Date: 9/29/14

e-mail address: JGoodwin@logosoperating.com

Telephone: 505-330-9333

Logos Operating, LLC
San Juan Basin
Closure Report

Lease Name: LOGOS 7
API NO: 30-043-21155

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 (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, re-contoured, and reseeded.

The closure plan requirements were met due to rig move off date as noted on C-105. (See attached). Pit closure extension to 4/22/14 was requested of the BIA per letter dated 1/13/14 and approved. Pit closure extension to 5/22/14 was requested of the BIA per letter dated 4/11/14 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 Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.

Logos mixed the pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to

a consistency that is deemed as safe and stable. The mixing ratio consisted of not more than 3 parts clean soil to 1 part pit contents. Excess fill was hauled from Logos 8 pit to Logos 7 pit: ~260yds.

- 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	40000	

- 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).

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

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

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

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

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

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

- 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 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 7
Unit Letter: E
Section: 5
Township: 22N
Range: 05W
API#: 30-043-21155
OBL**

- 14 Logos inspected and documented daily and weekly reports on the above Temporary Pit. Logos inspected any liner breaches, 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: 9/25/13

Inspection End Date: 4/22/14

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 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code		*Pool Name WILDCAT DAKOTA	
*Property Code		*Property Name LOGOS			*Well Number 7
*GRID No. 289408		*Operator Name LOGOS RESOURCES, LLC			*Elevation 6880'

¹⁰ Surface Location

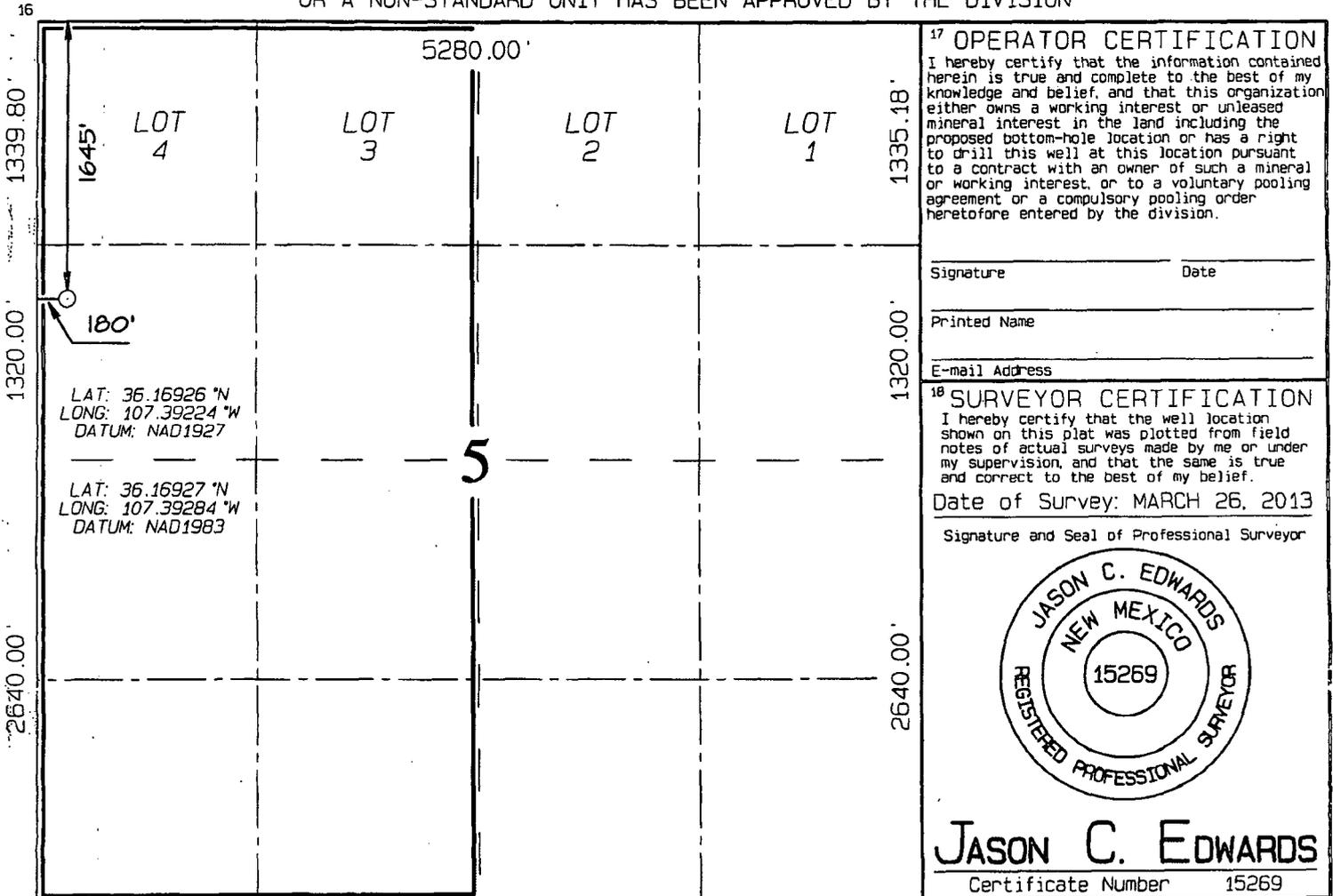
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	22N	5W		1645	NORTH	180	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

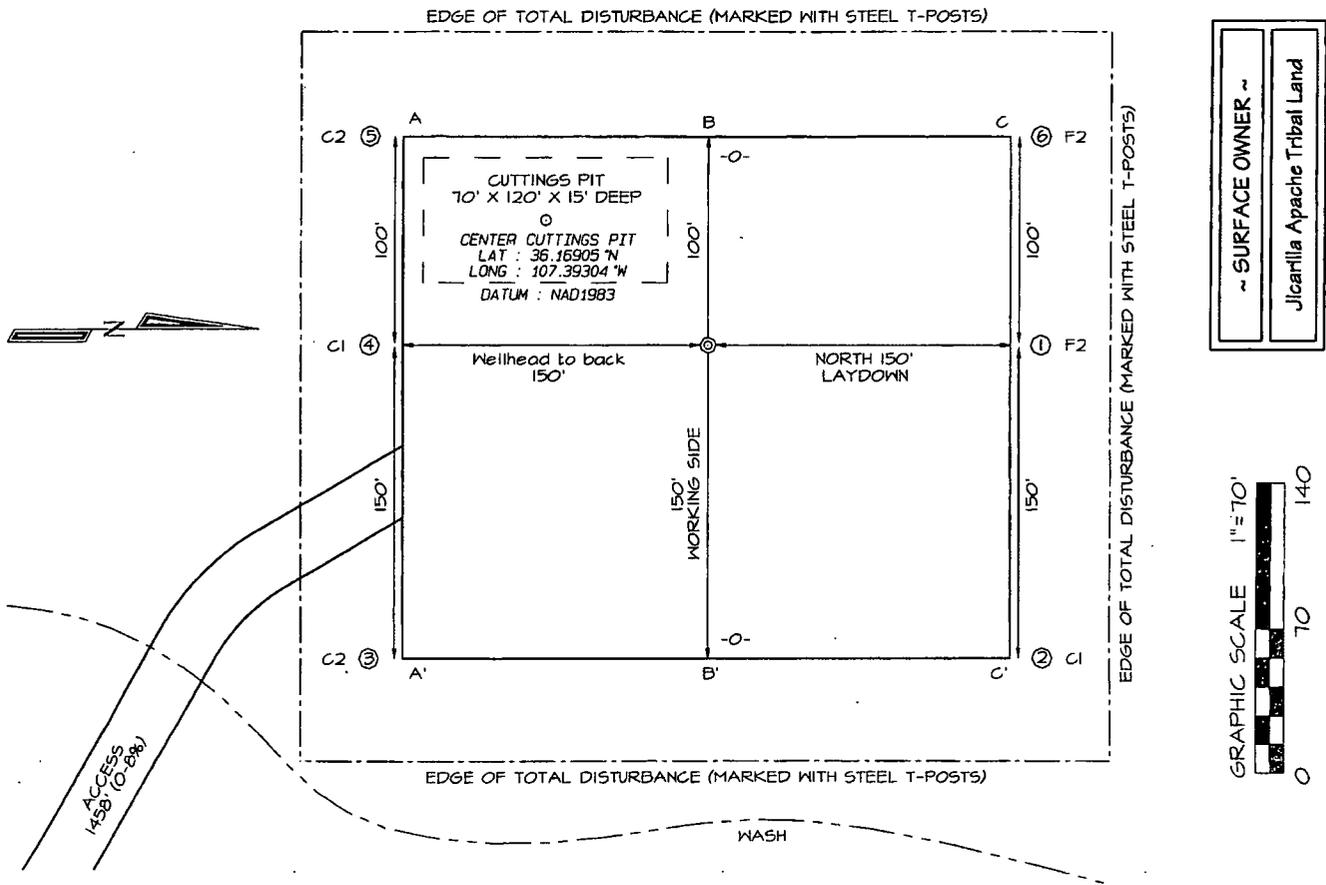
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 321.13 Acres - (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



LOGOS RESOURCES, LLC LOGOS #7
1645' FNL & 180' FWL, SECTION 5, T22N, R5W, NMPM
SANDOVAL COUNTY, NEW MEXICO ELEVATION: 6880'
LAT: 36.16927°N LONG: 107.39284°W DATUM: NAD1983



Steel T-Posts have been set to define Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.

AREA OF WELLPAD = 350' X 400' = 3.21 Acres

Summary of Analytical Results
 Logos Operating, LLC
 Logos #7
 Drill Pit Closure and Backfill Material Sampling Report
 Sandoval County, New Mexico
 Project Number 12035-0037

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	40000
Drill Pit Composite	1	1/17/2014	99.7	202	ND	ND	343
NMOCD/RCRA Standards	NA	NA	NA	NA	NA	NA	600
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: 16521
Samples Received: 1/17/2014 4:30:00PM
Job Number: 12035-0037
Work Order: P401044
Project Name/Location: Logos #7

Entire Report Reviewed By:



Date: 1/23/14

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.

Logos Operating, LLC	Project Name: Logos #7	
PO Box 18	Project Number: 12035-0037	Reported:
Flora Vista NM, 87415	Project Manager: Tiffany McIntosh	23-Jan-14 09:51

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Composite	P401044-01A	Sludge	01/17/14	01/17/14	Glass Jar, 4 oz.

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
--	---	------------------------------

**Drill Pit Composite
P401044-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		97.0 %		80-120	1404001	01/20/14	01/20/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		95.2 %		80-120	1404001	01/20/14	01/20/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1404001	01/20/14	01/20/14	EPA 8015D	
Diesel Range Organics (C10-C28)	202	30.0	mg/kg	1	1404002	01/20/14	01/20/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	99.7	19.9	mg/kg	1	1404003	01/20/14	01/20/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	343	9.83	mg/kg	1	1404016	01/22/14	01/22/14	EPA 300.0	

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
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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 1404001 - Purge and Trap EPA 5030A

Blank (1404001-BLK1)		Prepared: 20-Jan-14 Analyzed: 21-Jan-14								
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: 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)		Source: 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)		Source: P401044-01			Prepared & Analyzed: 20-Jan-14					
Benzene	50.3		ug/L	50.0	ND	101	39-150			
Toluene	50.1		"	50.0	ND	100	46-148			
Ethylbenzene	50.3		"	50.0	ND	101	32-160			
p,m-Xylene	100		"	100	ND	100	46-148			
o-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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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
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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
Batch 1404001 - Purge and Trap EPA 5030A										
Blank (1404001-BLK1)										
Prepared: 20-Jan-14 Analyzed: 21-Jan-14										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1404001-DUP1)										
Source: P401044-01 Prepared & Analyzed: 20-Jan-14										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1404001-MS1)										
Source: P401044-01 Prepared & Analyzed: 20-Jan-14										
Gasoline Range Organics (C6-C10)	0.49		mg/L	0.450	0.02	106	75-125			

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
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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
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) Source: 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) Source: 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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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
--	---	------------------------------

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 1404003 - 418 Freon Extraction

Blank (1404003-BLK1)

Prepared & Analyzed: 20-Jan-14

Total Petroleum Hydrocarbons ND 20.0 mg/kg

Duplicate (1404003-DUP1)

Source: P401044-01

Prepared & Analyzed: 20-Jan-14

Total Petroleum Hydrocarbons 84.0 20.0 mg/kg 99.7 17.1 30

Matrix Spike (1404003-MS1)

Source: P401044-01

Prepared & Analyzed: 20-Jan-14

Total Petroleum Hydrocarbons 627 mg/L 500 25.0 120 80-120

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 23-Jan-14 09:51
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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 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) Source: 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) Source: P401058-01 Prepared & Analyzed: 22-Jan-14										
Chloride	501	9.89	mg/kg	495	12.2	98.8	80-120	0.506	20	

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Logos Operating, LLC
PO Box 18
Flora Vista NM, 87415

Project Name: Logos #7
Project Number: 12035-0037
Project Manager: Tiffany McIntosh

Reported:
23-Jan-14 09:51

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

D1 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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CHAIN OF CUSTODY RECORD

16521

Client: Logos Operating	Project Name / Location: Logos # 7	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.: 505-330-9333	Client No.: 12035-0037												

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	CO ₂												
Drill pit composite	1/17/14	10:55	P401044-a	1-4oz jar			X	X	X							X	X	Y	Y

Relinquished by: (Signature) <i>Tiffany McIntosh</i>	Date 1/17/14	Time 1630	Received by: (Signature) <i>[Signature]</i>	Date 1/17/14	Time 1630
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"/>					

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

14.5°C

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



Analytical Report

Report Summary

Client: Logos Operating, LLC
Chain Of Custody Number: 16554
Samples Received: 1/23/2014 3:10:00PM
Job Number: 12035-0037
Work Order: P401067
Project Name/Location: Logos #7

Entire Report Reviewed By:

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

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.



Logos Operating, LLC	Project Name:	Logos #7	Reported: 27-Jan-14 08:22
PO Box 18	Project Number:	12035-0037	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill Material Composite	P401067-01A	Soil	01/23/14	01/23/14	Glass Jar, 4 oz.

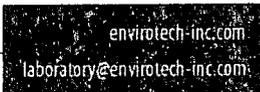
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5796 US Highway 64, Farmington, NM 87401

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	Project Name:	Logos #7	
PO Box 18	Project Number:	12035-0037	Reported:
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	27-Jan-14 08:22

Backfill Material Composite
P401067-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cation/Anion Analysis										
Chloride	ND	9.94	mg/kg	1	1404028	01/24/14	01/24/14	EPA 300.0		

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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #7 Project Number: 12035-0037 Project Manager: Tiffany McIntosh	Reported: 27-Jan-14 08:22
--	---	------------------------------

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)				Source: P401067-01		Prepared & Analyzed: 24-Jan-14				
Chloride	545	9.95	mg/kg	498	ND	110	80-120			
Matrix Spike Dup (1404028-MSD1)				Source: P401067-01		Prepared & Analyzed: 24-Jan-14				
Chloride	553	9.96	mg/kg	498	ND	111	80-120	1.48	20	

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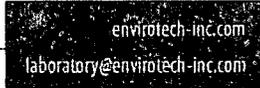


Logos Operating, LLC	Project Name:	Logos #7	Reported: 27-Jan-14 08:22
PO Box 18	Project Number:	12035-0037	
Flora Vista NM, 87415	Project Manager:	Tiffany McIntosh	

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

16554

30

Client: Logos Operating		Project Name / Location: Logos #7			ANALYSIS / PARAMETERS																	
Email results to: T. McIntosh		Sampler Name: T. McIntosh			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact				
Client Phone No.: 505-320-2857		Client No.: 12035-0037																				
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
					HNO ₃	HCl	cool															
backfill material ^{composite} _{posite}	1/23/14	9:27	P461067-01	1-4oz jar			X										X				X	X
Relinquished by: (Signature) <i>Tiffany McIntosh</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time											
Relinquished by: (Signature)				1/23/14	1510	Received by: (Signature)				1/23/14	1510											
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																						
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.								11.3°C														

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.
30-043-21155

2. Type of Lease
 STATE FEE FED/INDIAN

3. State Oil & Gas Lease No.
JICARILLA APACHE LEASE #424

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: 7

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
15. Date Rig Released
10/10/13

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 (*Flowing, gas lift, pumping - Size and type pump*) Well Status (*Prod. or Shut-in*)

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 - (*Corr.*)

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 3636.16927N Longitude 107.39284W 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 *Jamie Goodwin* Printed Name Jamie Goodwin Title Regulatory Tech. Date *9/29/14*

E-mail Address JGoodwin@logosoperating.com



Pit Closure Form:

Date: 4/22/14

Well Name: LOGOS 7

Footages: 1645' FNL & 180' FWL Unit Letter: E

Section: 5, T-22N, R- 05W, County: SANDOVAL State: NM

Contractor Closing Pit: WSS

Construction Inspector: Wayne Ritter

Inspector Signature: Wayne Ritter

Date: 4-22-14

Tamra Sessions

From: Tamra Sessions
Sent: Monday, January 13, 2014 4:26 PM
To: Kurt Sandoval (kurt.sandoval@bia.gov)
Cc: Mike, Deedra; Marlena Reval (marlena.reval@bia.gov); Wayne Ritter
Subject: Jicarilla Pit Closure Extension_Logos 7_01-13-14
Attachments: Jicarilla Pit closure ext letter scan.pdf

Please see attached letter, with location and date information, requesting pit closure extension for the Logos 7.

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



4001 N. Butler Blvd. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2626
Fax: (505) 832-3095

January 13, 2014

BIA Jicarilla Agency
P.O. Box 167
Dulce, NM 87528

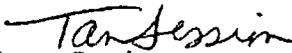
**RE: Pit Closure Extension - Logos #7 well - Jicarilla Lease 424
UL E, Section 5, T22N, R05W; API 30-043-21155**

Dear Mr. Kurt Sandoval,

Logos Operating is requesting a pit closure extension of 90 days. Due to unusual seasonal rains/snow and now due to freezing conditions and ice in the pit, we will not meet the original timeline and would like to request an extension.

The completion date was 10/24/13 and the required 90 day closure date is 01/22/14. The 90 day pit closure extension will end on 4/22/14.

Very truly yours,


Tamra Sessions
Operations Technician
Logos Resources, LLC



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
JICARILLA AGENCY
P.O. BOX 167
DULCE, NEW MEXICO 87528



IN REPLY REFER TO:
Energy & Minerals Management

JAN 21 2014

Ms. Tamra Sessions
Logos Resources, LLC
4001 North Butler Boulevard, Building 7101
Farmington, New Mexico 87401

Dear Ms. Sessions:

This is in response to your request, dated **January 13, 2014**, for permission to perform work on the following location, which is on Tribal Surface:

Lease No. 424, Logos #7:

Located in Section 5, Township 22 North, Range 5 West, N.M.P.M. Sandoval County, New Mexico (API No. 30-043-21155).

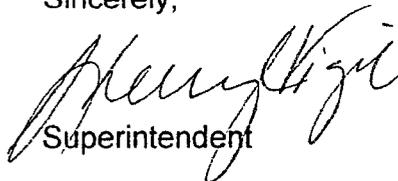
Scope of Work:

Pit closure extension of 90-days (ending on April 22, 2014), due to inclement weather conditions.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grant Logos Resources, LLC and its contractor's permission to perform work of the above indicated location. Please submit an affidavit of completion and/or final report when completed.

If you should have any questions or concerns, please contact Mr. Kurt Sandoval, Acting Realty Officer, at (575) 759-3936.

Sincerely,


Superintendent

cc: Jicarilla Oil and Gas Administration

Tamra Sessions

From: Tamra Sessions
Sent: Thursday, March 27, 2014 8:10 AM
To: Jonathan Kelly (jonathan.kelly@state.nm.us)
Cc: brandon.powell@state.nm.us
Subject: Logos 7_Jicarilla Pit Closure 72hr notice

LOGOS #7
Jicarilla Lease 424
API #30-043-21155
UL E, Section 05, T22N, R05W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Monday, March 31, 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: March 27, 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 #7
API #30-043-21155
UL E, Section 05, T22N, R05W

Dear Mr. Kurt Sandoval,

According to NMOCD rules, Logos Operating, LLC is notifying you that temporary pit closure operations will begin on March 31, 2014 on the Logos #7. 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,

A handwritten signature in black ink that reads "Tamra Sessions". The signature is fluid and cursive.

Tamra Sessions
Operations Technician
tsessions@logosresourcesllc.com
505-330-9333

SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<input type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <i>Kenny Harrison</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>Kenny Harrison</i> C. Date of Delivery <i>3-28-14</i>
1. Article Addressed to: <i>BIA Jicarilla Agency</i> <i>P.O. Box 167</i> <i>Dulce, NM 87528</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No L#7 P.t.
2. Article Number (Transfer from service lab)	3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes 7013 2250 0001 2785 5378 <i>Tumra</i>

9725 5927 1000 0522 E102

7013 2250 0001 2785 5378

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 0.49	0401 MAR 27 2014 USPS
Certified Fee	\$3.30	
Return Receipt Fee (Endorsement Required)	\$2.70	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 6.49	

Sent To *BIA Jicarilla Agency* L#7 P.t.
 Street, Apt. No. or PO Box No. *P.O. Box 167*
 City, State, ZIP+4 *Dulce, NM 87528*

PS Form 3800, August 2005 See Reverse for Instructions

Tamra Sessions

From: Tamra Sessions
Sent: Friday, April 11, 2014 1:24 PM
To: Kurt Sandoval (kurt.sandoval@bia.gov)
Cc: Mike, Deedra; Marlana Reval (marlena.reval@bia.gov); Wayne Ritter
Subject: Jicarilla Pit Closure Extension 2nd_Logos 7_04/11/14
Attachments: Jicarilla Pit closure ext letter 2nd scan.pdf

Please see attached letter, with location and date information, requesting a 2nd pit closure extension for the Logos 7.

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



4001 N. Butler Blvd. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2626
Fax: (505) 832-3095

April 11, 2014

BIA Jicarilla Agency
P.O. Box 167
Dulce, NM 87528

**RE: Pit Closure Extension - Logos #7 well - Jicarilla Lease 424
UL E, Section 5, T22N, R05W; API 30-043-21155**

Dear Mr. Kurt Sandoval,

Logos Operating is requesting a second pit closure extension of an additional 30 days. Logos has been working diligently to close all pits on the Lease 424, but due to prior unusual seasonal rains/snow, freezing conditions and ice in the pit, it has taken longer than expected to close the pits.

The completion date was 10/24/13 and the required 90 day closure date is 01/22/14. The BLM 90 day pit closure extension will end on 4/22/14 and the 2nd extension date is 5/22/14.

Regards,

A handwritten signature in black ink that reads "Tamra Sessions". The signature is written in a cursive, flowing style.

Tamra Sessions
Operations Technician
Logos Resources, LLC



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
JICARILLA AGENCY
P.O. BOX 167
DULCE, NEW MEXICO 87528



IN REPLY REFER TO:
Energy & Minerals Management

APR 14 2014

Ms. Tamra Sessions
Logos Resources, LLC
4001 North Butler Boulevard, Building 7101
Farmington, New Mexico 87401

Dear Ms. Sessions:

This is in response to your request, dated **April 11, 2014**, for permission to perform work on the following location, which is on Tribal Surface:

Lease No. 424, Logos #7:

Located in Section 5, Township 22 North, Range 5 West, N.M.P.M. Sandoval County, New Mexico (API No. 30-043-21155).

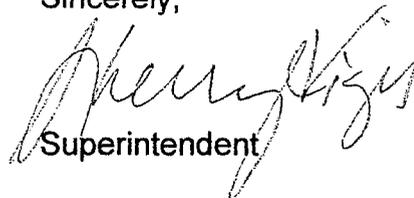
Scope of Work:

Additional (2nd) 30-day extension of pit closure operations, ending on May 22, 2014, due to inclement weather conditions.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grant Logos Resources, LLC and its contractor's permission to perform work of the above indicated location. Please submit an affidavit of completion and/or final report when completed.

If you should have any questions or concerns, please contact Mr. Kurt Sandoval, Acting Realty Officer, at (575) 759-3936.

Sincerely,


Superintendent

cc: Jicarilla Oil and Gas Administration



Reclamation Form:

Date: 8/28/14

Well Name: LOGOS 7

Footages: 1645' FNL & 180' FWL Unit Letter: E

Section: 5, T-22N, R-5W, County: SANDOVAL State: NM

Reclamation Contractor: ACE

Reclamation Start Date: 5/6/14

Reclamation Complete Date: 7/10/14

Road Completion Date: 7/10/14

Seeding Date: Fall 2014

PIT MARKER STATUS

(When Required) Picture of Marker set needed

Date Marker Placed: 8/7/2014

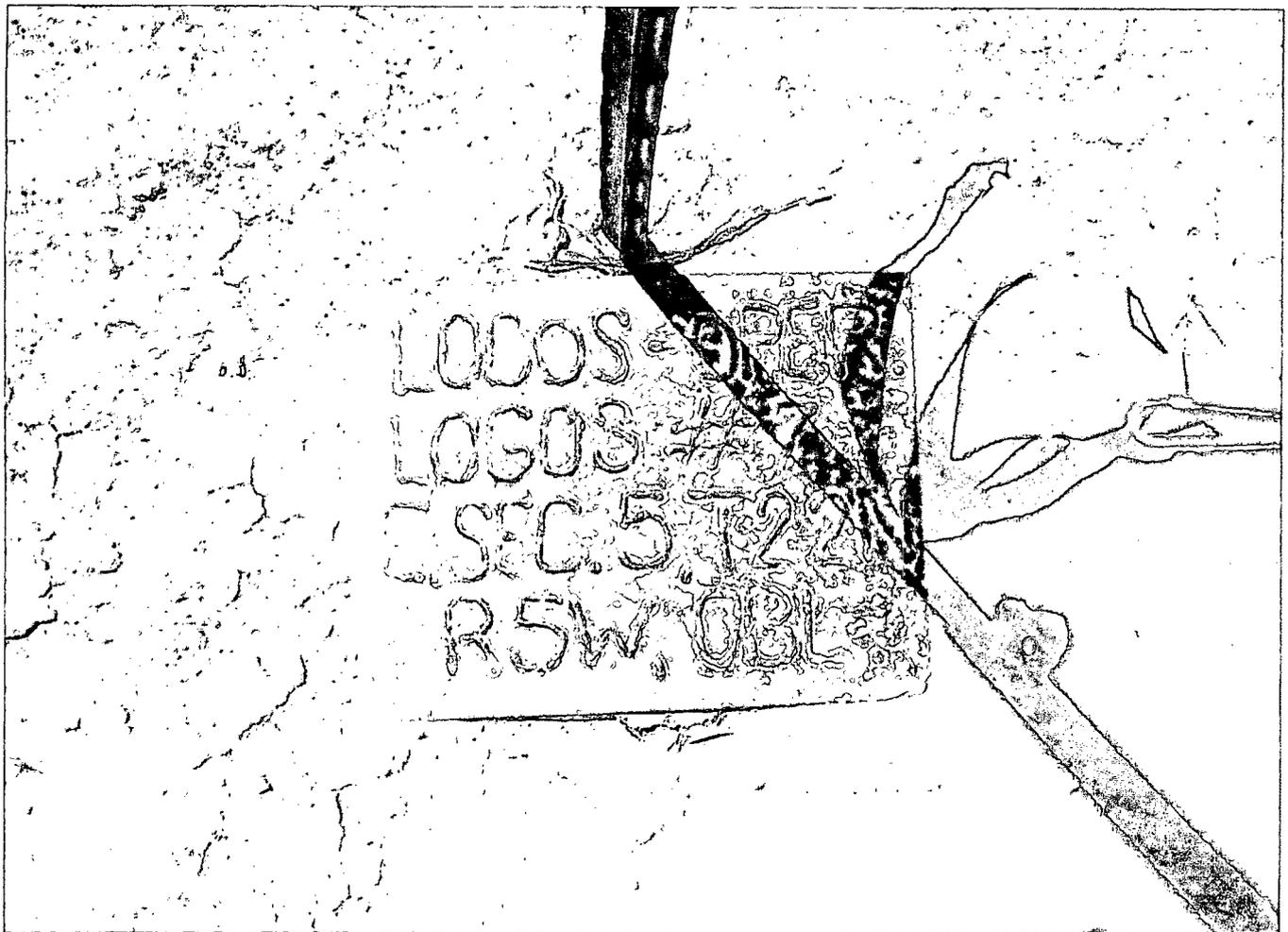
Latitude: 36.16905N

Longitude: 107.39304W

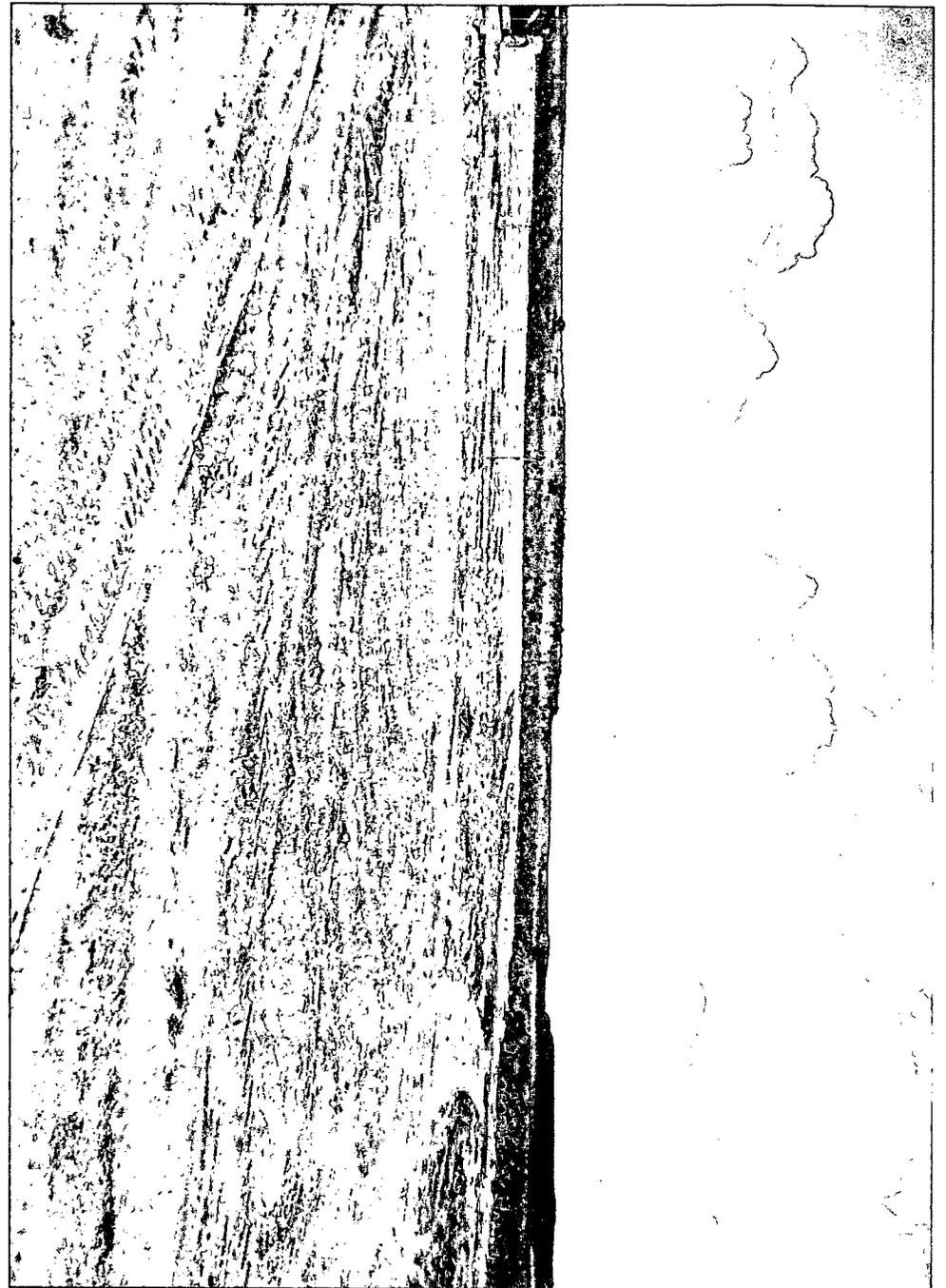
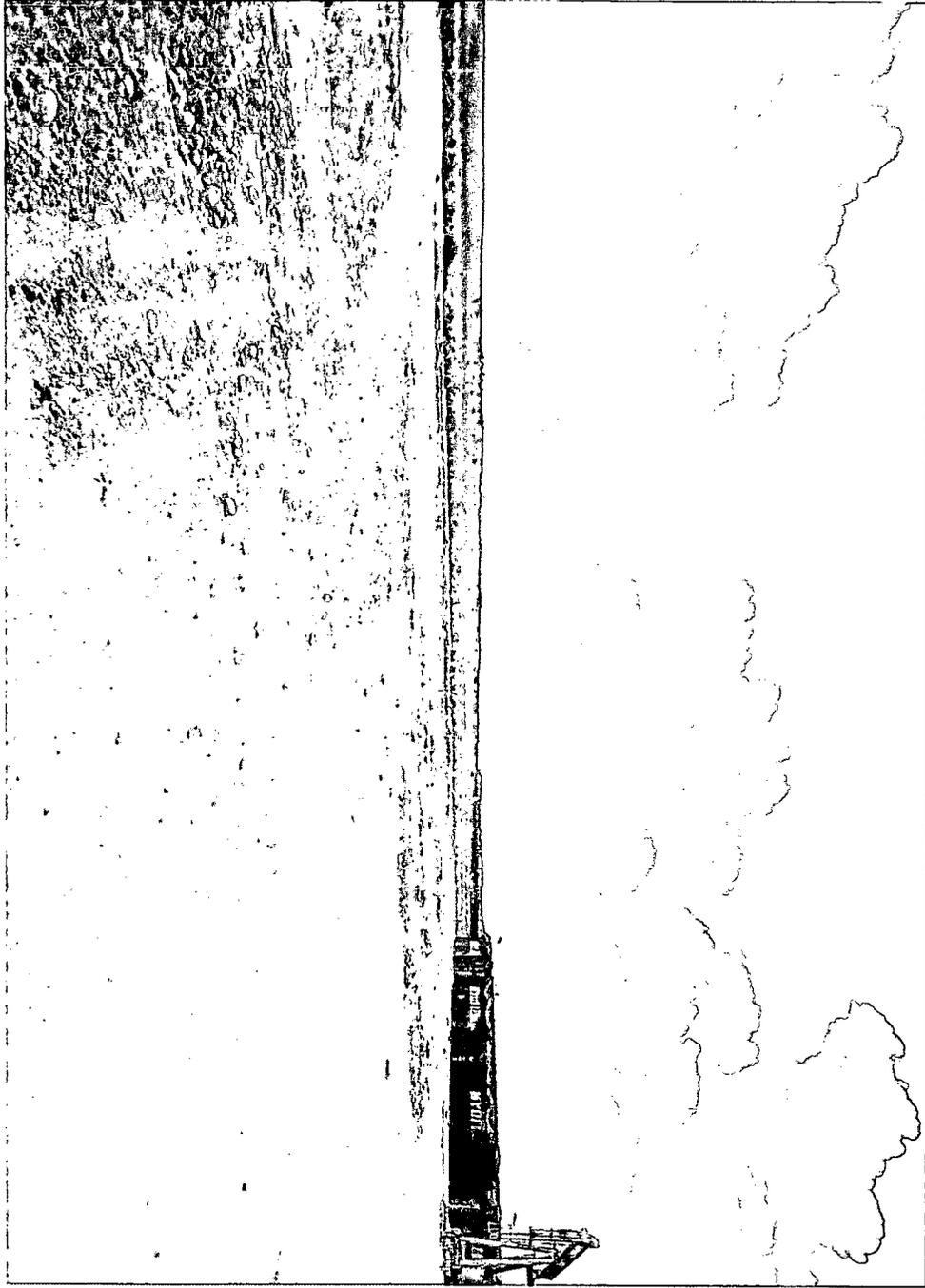
Date Pit Manifold Removed: N/A

Construction Inspector Signature: Wagner

Date Inspected: 9-28-14



LOGOS OPERATING, LLC.
LOGOS #7—JIC. LEASE #424
API #30—043—21155
1645' FNL 180' FWL
E—SEC. 5—T22N, R5W
SANDOVAL COUNTY, NM
OFFICE # 505—436—2627
AFTER HRS # 866—598—6220



Temporary Pit Weekly Inspection Form

WELL NAME:	LOGOS 7		API NO:	30-043-21155	
LEGAL:	Section:	5	Township:	22N	Range: 5W
Drilling RD Date:	10/10/2013				

Inspector's Name	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie	Ramsey Hatalie
WEEK #	1	2	3	4	5	6	7	8	9	10	11	12
DATE	10/14/13	10/21/13	10/28/13	11/04/13	11/11/13	11/18/13	11/28/13	12/02/13	12/09/13	12/16/13	12/23/13	12/30/13
Well sign on location (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Any liner breaches (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Any fluid seeps/spills (Y/N)	Y	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)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Discharge Line Integrity Good (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Fence Integrity Good (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Any Dead Wildlife/ Stock (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Freeboard to be 2' or > Est. (ft)	N	N	N	N	Y (8')	Y (5')	Y (6')	Y (8')	Y (8')	Y (8')	Y (8')	Y (6')
Was the OCD contacted (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Pictures taken (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Comments:	Empty out from casing - fluid/mud	N/A	Back flush from the well in the pit	Fluid in pit from back flush from well head	6" Fluid in Pit/8' Clearance/ Southside Where blow down tank has stain dirt around edge of liner.	5' Clearance	6' Clearance	8' Clearance	8' Clearance	8' Clearance	8' Clearance	6' Clearance

Temporary Pit Weekly Inspection Form

WELL NAME:	LOGOS 7	API NO:	30-039-21155
LEGAL:	Section: 5	Township: 22N	Range: 5W
Drilling RD Date:	10/10/2013		

Inspector's Name	Ramsey Hatalie											
WEEK #	13	14	15	16	17	18	19	20	21	22	23	24
DATE	01/07/14	01/06/14	01/14/14	01/25/14	02/15/14	03/03/14	03/24/14	04/05/14	04/12/14	04/22/14		
Well sign on location (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
Any liner breeches (Y/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		
HC's on top of temp. pit (Y/N)	N	N	N	N	N	N	N	N	N	N		
Temp pit free of misc. Solid Waste/Debris(Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	N	N		
Discharge Line Integrity Good (Y/N)	Y	Y	Y	Y	N	N	N	N	N	N		
Fence Integrity Good (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	N		
Any Dead Wildlife/ Stock (Y/N)	N	N	N	N	N	N	N	N	N	N		
Freeboard to be 2' or > Est. (ft)	Y (11')	Y (9')	Y (9')	Y (9')	Y (11')	Y (11')	Y (12')	Y (10')	N	N		
Was the OCD contacted (Y/N)	N	N	N	N	N	N	N	N	N	N		
Pictures taken (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		

Comments:												
	11' Clearance	9' Clearance	9' Clearance	9' Clearance	11' Clearance	11' Clearance	12' Clearance	10' Clearance/Crew @ location backfilling pit	Crew in process of backfilling pit	Completion crew backfilled earth pit		



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



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

Date: October 21, 2014

To: NMOCD

Re: Closure Permit #12229
Logos 7
API 30-043-21155

OIL CONS. DIV DIST. 3

OCT 23 2014

Dear NMOCD,

Logos Operating, LLC (289408) has reviewed their information regarding your email request dated 10/20/14 for general issues encountered on our submitted closure report.

- No copy of Pit Closure Extension was sent to the NMOCD for approval.
 - Please find attached updated closure report with explanation.
 - Please find attached Notification to BIA.

Regards,

A handwritten signature in cursive script that reads "Jamie Goodwin".

Jamie Goodwin
Regulatory Technician

OCT 23 2014

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

**Lease Name: LOGOS 7
API NO: 30-043-21155**

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 (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, re-contoured, and reseeded.

The closure plan requirements were not met due to rig move off date as noted on C-105. Due to confusion at the time Logos only contacted the BIA and Navajo Nation with a pit closure extension request. (See attached).

**Pit closure extension to 4/22/14 was requested of the BIA dated 1/13/14 and approved.
Pit closure extension to 5/22/14 was requested of the BIA \ dated 4/11/14 and approved.
In the future Logos will comply with OCD Ruling 19.15.17.13 (E)(2).**

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

Notification is attached.

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

Logos mixed the pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of not more than 3 parts clean soil to 1 part pit contents. Excess fill was hauled from Logos 8 pit to Logos 7 pit: ~260yds.

- 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	40000	

- 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).

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

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

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

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

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

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

- 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 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 7
Unit Letter: E
Section: 5
Township: 22N
Range: 05W
API#: 30-043-21155
OBL**

- 14 Logos inspected and documented daily and weekly reports on the above Temporary Pit. Logos inspected any liner breaches, 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: 9/25/13

Inspection End Date: 4/22/14

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



4001 N. Butler Blvd. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2626
Fax: (505) 832-3095

January 13, 2014

BIA Jicarilla Agency
P.O. Box 167
Dulce, NM 87528

**RE: Pit Closure Extension - Logos #7 well - Jicarilla Lease 424
UL E, Section 5, T22N, R05W; API 30-043-21155**

OIL CONS. DIV DIST. 3

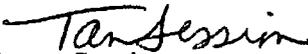
OCT 23 2014

Dear Mr. Kurt Sandoval,

Logos Operating is requesting a pit closure extension of 90 days. Due to unusual seasonal rains/snow and now due to freezing conditions and ice in the pit, we will not meet the original timeline and would like to request an extension.

The completion date was 10/24/13 and the required 90 day closure date is 01/22/14. The 90 day pit closure extension will end on 4/22/14.

Very truly yours,


Tamra Sessions
Operations Technician
Logos Resources, LLC



4001 N. Butler Blvd. Bldg 7101
Farmington, NM 87401
Phone: (505) 436-2626
Fax: (505) 832-3095

April 11, 2014

BIA Jicarilla Agency
P.O. Box 167
Dulce, NM 87528

**RE: Pit Closure Extension - Logos #7 well - Jicarilla Lease 424
UL E, Section 5, T22N, R05W; API 30-043-21155**

OIL CONS. DIV DIST. 3

OCT 23 2014

Dear Mr. Kurt Sandoval,

Logos Operating is requesting a second pit closure extension of an additional 30 days. Logos has been working diligently to close all pits on the Lease 424, but due to prior unusual seasonal rains/snow, freezing conditions and ice in the pit, it has taken longer than expected to close the pits.

The completion date was 10/24/13 and the required 90 day closure date is 01/22/14. The BLM 90 day pit closure extension will end on 4/22/14 and the 2nd extension date is 5/22/14.

Regards,

A handwritten signature in black ink that reads "Tamra Sessions".

Tamra Sessions
Operations Technician
Logos Resources, LLC