District 1 1625 N. French Dr., Hobbs, NM 88240 District II.
§11 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
12224 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration
Permit of a pit or proposed alternative method OIL CONS. DIV.
Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: LOGOS OPERATING, LLC OGRID #: 289408
Address: 4001 NORTH BUTLER AVENUE, BUILDING 7101 FARMINGTON NM 87401
Facility or well name: LOGOS 601H
API Number: 30-043-21182 OCD Permit Number: 11593
U/L or Qtr/QtrDSection5Township22NRange5WCounty: SANDOVAL
Center of Proposed Design: Latitude36.172969° N Longitude107.391116° W NAD: □1927 ☒ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
☑ <u>Pit</u> : Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☑ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness20mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory □ Other □ Volume: 8,000 bbl Dimensions: L 150 x W 100 x D 15
3.
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate. Please specify 4' HOG WIRE WITH ONE STRAND OF BARBED WIRE ON TOP.

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

Within 100 feet of a wetland.	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: _	NMAC 15.17.9 NMAC
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 do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached	documents are
### Author Complete C	
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan	
☐ Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	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	
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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.	·
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain.	☐ Yes ☐ No
- FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believes	ef.
Name (Print): Title:	
raine (Finit).	
Signature: Date:	
e-mail address:Telephone:	
OCD Approval: Permit Application (including closure plan) Cosure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number:	2014
Closure Papert (required within 60 days of closure completion): 10 15 17 13 NMAC	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting	
The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	complete this
☐ Closure Completion Date: 06/30/14	
20.	
20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loc ☐ If different from approved plan, please explain.	op systems only)

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is a belief. I also certify that the closure complies with all applicable closure requirements and	
Name (Print): Jamie Goodwin Signature: e-mail address JGoodwin@logosoperating.com Title: Regulatory Tech. Title: Regulatory Tech. Title: Regulatory Tech.	Date: 9/29/14

Logos Operating, LLC San Juan Basin Closure Report

Lease Name: LOGOS 601H API NO: 30-043-21182

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, recontoured, and reseeded.

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

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

Notification is attached.

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

Logos mixed the pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of not more than 3 parts

clean soil to 1 part pit contents. Excess fill was hauled from Logos 12 pit to Logos 601H pit: ~561yds; Logos 10 pit to Logos 601H pit ~937yds; Logos 8 pit to Logos 601H pit ~80yds. Total:1578yds.

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).

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. (Logos Operating, LLC (289408) is filling this closure report on behalf of the new operator. Due to a possibility of further activity on well pad WPX will continue closure process).

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

Provision 11 was accomplished in accordance with NMOCD 19.15.17.13(5)(d) Notification will be sent to the OCD when re-vegetation is established. . (Logos Operating, LLC (289408) is filling this closure report on behalf of the new operator. Due to a possibility of further activity on well pad WPX will continue closure process).

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. . (Logos Operating, LLC (289408) is filling this closure report on behalf of the new operator. Due to a possibility of further activity on well pad WPX will continue closure process).

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 601H

Unit Letter: D Section: 5 Township: T22N Range: R5W

API#: 30-043-21182

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

Inspection Start Date: 1/11/14 Inspection End Date: 6/11/14

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

Jamie Goodwin

From:

Tamra Sessions

Sent:

Thursday, December 26, 2013 12:10 PM

To:

Merldine Oka (merldineoka@jicarillaoga.com)

Cc:

Isaac Julian (iajulian@yahoo.com); Kurt Sandoval (kurt.sandoval@bia.gov); Mike, Deedra

Subject:

SURFACE OWNER NOTIFICATION 12/26/13 - Temporary Pit

Attachments:

Jicarilla Pit Noitce.docx

Please see our attached notice that we intend to have a temporary pit on our upcoming new drill, Logos 601H. Logos 601H, UL D Section 5, T22N, R05W

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: December 26, 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 601H, UL D Section 5, T22N, R05W

Dear Ms. Oka,

According to NMOCD rules, Logos Operating, LLC is notifying you that there will be a temporary pit on the subject well 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,

Tampa Sessions

Tamra Sessions Operations Technician DISTRICT I
1625 M. French Dr., Hobbe, K.M. 88240
Phone: (676) 889-disi Fax: (675) 893-0720
DISTRICT II
201 S. Frat St., Artesia, R.M. 88210
Phone: (676) 746-1289 Fax: (675) 748-9720
DISTRICT III
1000 Ho Brance Bd., Astes, R.M. 87410
Phone: (806) 834-6179 Fax: (806) 834-6170

1520 S. St. Fremois Dr., Senta Fe, RM 87505 Phone: (505) 476-3460 Fee: (505) 476-3462

DISTRICT IV

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C 102

Revised August 1, 2011

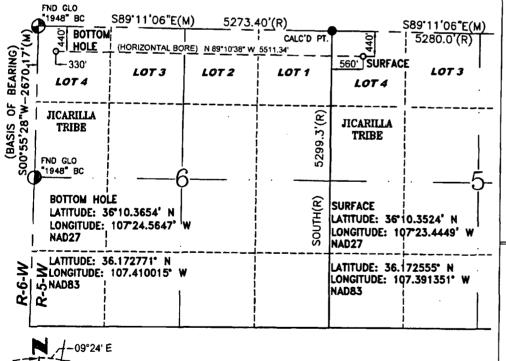
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API	Number		⁸ Pool Code ⁸ Pool Name								
*Property C	lode	Property Name							*Property Name * Well		Well Number
					LOGOS				601H		
OGRED N	ъ.		Operator Name								
28940	в	LOGOS OPERATING, LLC						6891			
	_				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		
D	5	22-N	5-W	,	440	NORTH	560	WEST	SANDOVAL		
			11 Bott	om Hole	Location I	f Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
D	6	22-N	5-W		440	NORTH	330	WEST	SANDOVAL		
Dedicated Acre	18		¹⁵ Joint or	Infill	4 Consolidation C	ode	18 Order No.				

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



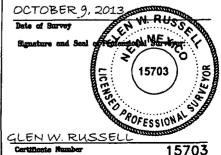
17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein to true and complete to the best of my knowledge and belief, and that this organization either owns a working twierest 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 a contract with an owner of such a mineral or a compalionry pooling order heretafore entered by the division.

Signature	Date
Printed Name	
E-mail Address	

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this pla was plotted from field notes of actual surveys made by me or under my supervision, and that the same to true and correct to the best of my belief.



BASIS OF BEARING:

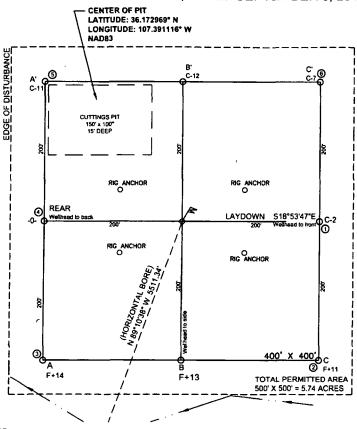
BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST OUARTER CORNER OF SECTION 6, TOWNSHIP 22 NORTH, RANGE 5 WEST, N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS: S 00'55'28" W A DISTANCE OF 2670.17 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

LOGOS OPERATING, LLC

LOGOS #601H, 440' FNL & 560' FWL SECTION 5, T-22-N, R-5-W, NMPM, SANDOVAL COUNTY, NM

GROUND ELEVATION: 6891', DATE: SEPTEMBER 6, 2013

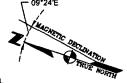


LATITUDE: 36°10.3524' N LONGITUDE: 107°23.4449' W

NAD27

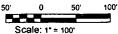
LATITUDE: 36.172555° N LONGITUDE: 107.391351° W

NAD83



NOTES:

2. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).



VECTOR SURVEYS 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Summary of Analytical Results
Logos Operating, LLC
Logos #601H
Drill Pit Closure Sampling Report
Rio Arriba County, New Mexico
Project Number 12035-0048

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Method 8021	BTEX USEPA Method 8021 (ppm)	Organic Vapor (ppm)	Chlorides USEPA Method 300.0 (ppm)
NMOCD/RCRA Standards	NA	NA .	2500	1000	10	50	100	40000
Drill Pit	1	4/7/2014	180	164	ND	ND	0.7	172

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: 16826

Samples Received: 4/7/2014 5:00:00PM

Job Number: 12035-0048 Work Order: P404017

Project Name/Location: Logos #601 H

Entire Report Reviewed By:

Date: 4/15/14

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.



Project Name:

Logos #601 H

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0048

Sheena Leon

Reported:

15-Apr-14 14:28

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit	P404017-01A	Solid	04/07/14	04/07/14	Glass Jar, 4 oz.





Flora Vista NM, 87415

Project Name:

Logos #601 H

PO Box 18

Project Number:

12035-0048

Project Manager:

Sheena Leon

Reported:

15-Apr-14 14:28

Drill Pit P404017-01 (Solid)

		Reporting			•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8021B	
Surrogate: Bromochlorohenzene		104 %	80-	120	1415009	04/08/14	04/10/14	EPA 8021B	
Surrogate: 1,3-Dichlorohenzene		103 %	80-	120	1415009	04/08/14	04/10/14	EPA 8021B	
Nonhalogenated Organics by 8015	. ^								
Gasoline Range Organics (C6-C10)	W _{ND}	4.99	mg/kg	1	1415009	04/08/14	04/10/14	EPA 8015D	
Diesel Range Organics (C10-C28)	164	30.0	mg/kg	1	1415010	04/08/14	04/10/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	172	9.98	mg/kg	i	1415022	04/09/14	04/09/14	EPA 300.0	





Project Name:

Logos #601 H

PO Box 18

Project Number:

12035-0048

Reported:

Flora Vista NM, 87415

Project Manager:

Reporting

Sheena Leon

Spike

Source

%REC

15-Apr-14 14:28

RPD

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

1				- pe						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1415009 - Purge and Trap EPA	X 5030A									
Blank (1415009-BLK1)				Prepared: ()8-Арт-14	Analyzed:	10-Арт-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	н							
o-Xylene	ND	0.05	**							
Total Xylenes	ND	0.05	•							
Total BTEX	ND	0.05	**							
Surrogate: 1,3-Dichlorobenzene	49.1		ug/L	50.0		98.3	80-120			
Surrogate: Bromochlorobenzene	51.9		**	50.0		104	80-120			
Duplicate (1415009-DUP1)	Sourc	e: P404020-	01	Prepared: 0						
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	0.40	0.05	**		0.18			77.7	30	Dl
Ethylbenzene	0.60	0.05	**		0.42			35.4	30	Di
p.m-Xylene	1.67	0.05	**		1.03			48.0	30	Dì
o-Xylene	0.60	0.05	н		0.33			57.8	30	Dì
Surrogate: 1,3-Dichlorobenzene	67.7		ug/L	50.0		135	80-120			Surr
Surrogate: Bromochlorobenzene	76. <i>1</i>		"	50.0		152	80-120			Surr
Matrix Spike (1415009-MS1)	Sourc	e: P404020-(D1	Prepared: 0	8-Apr-14 A	Analyzed: 1	10-Apr-14			
Benzene	46.0		ug/L	50.0	ND	91.9	39-150			
Toluene	55.9		•	50.0	3.56	105	46-148			
Ethylbenzene	62.3		•	50.0	8.34	108	32-160			
p.m-Xylene	126		**	100	20.5	105	46-148			
o-Xylene	1.06		н	50.0	6.66	107	46-148			
Surrogate: 1,3-Dichlorohenzene	60.1		п	50.0		120	80-120			
Surrogate: Bromochlorobenzene	71.2			50.0		142	80-120			Surr



Project Name:

Logos #601 H

PO Box 18

Project Number:

12035-0048

Reported:

RPD

Flora Vista NM, 87415

Project Manager:

Reporting

Sheena Leon

Spike

Source

%REC

15-Apr-14 14:28

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1415009 - Purge and Trap EPA 5030A										
Blank (1415009-BLK1)				Prepared: 0	8-Apr-14	Analyzed: 1	10-Apr-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1415009-DUP1)	Sourc	e: P404020-	D1	Prepared: 0	8-Apr-14	Analyzed: 1	0-Apr-14			
Gasoline Range Organics (C6-C10)	48.1	5.00	mg/kg		34.8			32.2	30	DI
Matrix Spike (1415009-MS1)	Sourc	e: P404020-	D1	Prepared: 0	8-Apr-14	Analyzed: 1	0-Apr-14			
Gasoline Range Organics (C6-C10)	1.32		mg/L	0.450	0.70	138	75-125			SPK1

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

and the con



Flora Vista NM, 87415

Project Name:

Logos #601 H

PO Box 18

Project Number:

12035-0048

Project Manager:

Reporting

Sheena Leon

Spike

Source

Reported: 15-Apr-14 14:28

RPD

%REC

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1415010 - DRO Extraction EPA 3550C										
Blank (1415010-BLK1)				Prepared: 0	8-Apr-14	Analyzed: 1	0-Apr-14			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1415010-DUP1)	Source	e: P404020 -	01	Prepared: 0	8-Apr-14	Analyzed: 1	0-Apr-14			
Diesel Range Organics (C10-C28)	2040	30.0	mg/kg		2060			1.12	30	
Matrix Spike (1415010-MS1)	Source	e: P404020-	D1	Prepared: 0	8-Apr-14	Analyzed: I	0-Apr-14			
Diesel Range Organics (C10-C28)	2000	31.5	mg/kg	263	2060	NR	75-125			SPK1





Flora Vista NM, 87415

PO Box 18

Project Name:

Logos #601 H

Project Number: Project Manager: 12035-0048

15-Apr-14 14:28 Sheena Leon

Reported:

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

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

mg/kg

Batch 1415022 - Anion Extraction EPA 300.0

Blank (1415022-BLK1) Prepared & Analyzed: 09-Apr-14 9.94

Chloride ND

Prepared & Analyzed: 09-Apr-14

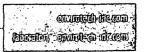
LCS (1415022-BS1) Chloride

486 9.96 97.5 90-110 mg/kg

Matrix Spike (1415022-MS1) Source: P404017-01 Prepared & Analyzed: 09-Apr-14 Chloride 498 172 98.3

662 9.97 80-120 mg/kg

Matrix Spike Dup (1415022-MSD1) Source: P404017-01 Prepared & Analyzed: 09-Apr-14 Chloride 666 497 172 99.3 80-120 0.539 20 mg/kg





Project Name:

Logos #601 H

PO Box 18

Project Number:

12035-0048

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

15-Apr-14 14:28

Notes and Definitions

Surr1

Surrogate recovery was above acceptable limits.

SPK1

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

DI

Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds control limits.

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Logos Operating

12035-0048

Sample No.:

1

Date Reported:

Project #:

5/12/2014

Sample ID:

Drill Pit

Date Sampled:

4/7/2014

Sample Matrix:

Soil

Date Analyzed:

4/7/2014 4/7/2014

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	180	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 #601H

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

Analyst

Review

Sheena Leon

Toni McKnight, EIT

Printed

Printed

CHAIN OF CUSTODY RECORD

16826

Client: Logos Oper	ating-	Pı	oject Name / Location	LCACS =	#(α) 	t	ANALYSIS / PARAMETERS												
Email results to:		Sa	Sampler Name: S. LUDN					8015)	1 8021)	8260)	S			0	-					
Client Phone No.:		C	ient No.: 1203	5-004	1048			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE		Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	н	Preserv	T	TPH (I	ВТЕХ	voc (RCRA	Cation	Ž.	TCLP	CO Ta	ТРН (CHLORIDE		Sampl	Sampl
Daupit	4/7/14	川次	P404017-01	1-Llorgia	SS .		X	Χ	X								$\overline{\lambda}$			
						 	-													H
•																				
						-	<u> </u>													
																				H
Relinquished by: (Signature)				Date Time	Re	ceived	bv: (S	iona	ture)									Date	Ti	ime
Sheena	flox)		417/4 17:0	c 🎸	Dev	<u>u</u> {) 2	48	zi								47/1	1-	7:01
Relinquished by: (Signature)が (He	ceived	by: (S	igra	ure)											
Sample Matrix Soil Solid Sludge	Aqueous 🗌	Other []																	
☐ Sample(s) dropped off after	hours to sec	cure drop o	ff area.	3 en	V Î [O I	ebor	C	Î Y	11.7	1								•	
5795 US Highway 64	• Farmingto	on, NM 874	01 • 505-632-0615 • T	hree Springs • 6	5 Merc	ado S	reet, S	uite	115, D	urang	go, C	0 813	• 10	labor	atory	@en	virote	 Pag-		

Two Copies	riate Distri	ict Office	·			State of Ne	ew l	Mexico)						Fo	orm C-105		
District I 1625 N. French Dr	Hobbs N	JN 8834	,	En	ergy,	Minerals and	d Na	atural F	Resources					Re	vised A	ugust 1, 2011		
District II •			1								1. WELL		NO.					
811 S. First St., An District III	tesia, NM	88210			Oi	l Conserva	tion	Divis:	ion		30-043-21182 2. Type of Lease							
1000 Rio Brazos R	d., Aztec,	NM 8741	.0	1220 South St. Francis Dr.							2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN							
District IV 1220 S. St. Francis	Dr., Santa	Fe, NM	87505	Santa Fe, NM 87505							3. State Oil & Gas Lease No.							
\A/\(\tau\)	20110		ON O.D.			<u> </u>					JICARILLA .					4.2 - 4.73 7.45 - 4.1		
4. Reason for fili		LEII	ON OR	RECC	NIPL	ETION RE	PO	RIAN	D LOG									
4. Reason for fin	ing.										5. Lease Nam LOGOS	ie or i	Unit Agre	ement N	ame			
COMPLETE	ION REI	PORT (Fill in boxes	#1 throu	ıgh #31	for State and Fee	e wel	ls only)			6. Well Numb	ber: 6	601H					
C-144 CLOS #33; attach this at	nd the pla	TTACH at to the	MENT (Fi C-144 closu	ll in box re report	es #1 thi	rough #9, #15 Da rdance with 19.1	ate Ri 5.17.	g Release 13.K NM	d and #32 and AC)	d/or								
7. Type of Comp		T W∩R	KOVER E] DEED	ENING	□PLUGBAC	₂	DIEEEDI	ENIT DECED	VOII	р Потивр							
8. Name of Opera	ator		CROVER _	DEEL	ining.		<u>` </u>	DITTER	LIVI KESEK	VOII	9. OGRID							
LOGOS OPERA		LC									289408							
10. Address of O		, Buildi	ng 7101 Far	mington	NM 87	401					11. Pool name	or W	/ildcat					
12.Location	Unit Ltr	Se	ection	Towns	hip	Range	Lot		Feet from	the	N/S Line	Fee	t from the	e E/W	Line	County		
Surface:		İ																
BH:				ľ														
13. Date Spudded	1 14. D	ate T.D.	Reached	01/2	9/14	Released		10	6. Date Comp	oletec	(Ready to Prod	luce)		7. Elevar		and RKB,		
18. Total Measure	ed Depth	of Well		19. I	Plug Bac	k Measured Dep	oth	20). Was Direc	tiona	al Survey Made?	,	21. Ty	pe Electr	ic and O	ther Logs Run		
22. Producing Int	erval(s),	of this c	ompletion -	Top, Bo	tom, Na	ame							<u> </u>					
23.					CAS	ING REC	OR	D (Rer	ort all st	rin	gs set in w	ell)			 			
CASING SIZ	ZE	WI	EIGHT LB./	FT.		DEPTH SET			OLE SIZE		CEMENTIN		CORD	Al	MOUNT	PULLED		

]				1.15.11	DD DDCCDD				T		LIDI	NO DEC	2000				
24. SIZE	ТОР		I RO	ТТОМ	LIN	ER RECORD SACKS CEMI	ENIT	SCREE	:NI	25. SIZ			NG REC		DACK	ER SET		
SIZE	101	-	150	110111		SACKS CEIVI	<u> </u>	BEREE	41	512	JD	1	El III SE	<u></u>	IACK	LICOLI		
										<u> </u>		+						
26. Perforation	record (ii	nterval,	size, and nu	mber)				27. AC	CID, SHOT,	FR.	ACTURE, CE	MEN	NT, SQL	JEEZE,	ETC.			
								DEPTH	I INTERVAL	,	AMOUNT A	ND I	KIND MA	ATERIAI	L USED			
						,	DD		TION									
28. Date First Produc	tion		Droduot	ion Mat	and (EL	owing, gas lift, pi			TION	.)	Well Status	(Dro	d on Chu	e imi				
Date I list I fodde	tion		Troduct	ion wee	100 (1 10	nring, gus iiji, pi	шри	ig - 512e u	на туре ритр	,	Wen Status	(170	a. or snai	1-111)				
Date of Test	Hours	Tested	Che	oke Size		Prod'n For		Oil - Bl	ol	Gas	s - MCF	W	ater - Bb	l.	Gas - C	Oil Ratio		
						Test Period												
Flow Tubing	Casin	g Pressu	ire Cal	culated 2	24-	Oil - Bbl.		Gas	- MCF	<u> </u>	Water - Bbl.		Oil Gr	avity - Al	PI <i>- (Cor</i>	r.)		
Press.			Ho	ur Rate		:							ŧ					
29. Disposition of	Gas (Soi	d, used	for fuel, ven	ted, etc.)								30. 1	Test Witn	essed By				
31. List Attachme	nts																	
22.16		٠٠- اـــــــــــــــــــــــــــــــــــ	ho mall	ob a state	,,,;4L 4	a location - Cal	to	orom: - 4	(Xippra critter	1								
32. If a temporary	•			-					(ATTACHE	υ) ———								
33. If an on-site b	urial was	used at	tne well, rep	ort the e	xact loc	ation of the on-s Latitude 30			Langitu	de I	07.391116W	,	NAD 192	7 J983Y				
I hereby certify	y that th	he info	rmation s	hown c		sides of this	forn	n is true	and comp	lete	to the best of					•		
Signature	m	u	200di	vi		Printed Name Jamie (Good	dwin	Title Re	gula	ntory Tech		Date	9/2	9/14			
E-mail Addres	s JGoo	dwin@	logosope	rating.	com	<u> </u>												



Pit Closure Form:
Date: <u>6/30/14</u>
Well Name: <u>LOGOS 601H</u>
Footages: <u>440' FNL & 560' FWL</u> Unit Letter: <u>D</u>
Section: <u>5</u> , T- <u>22</u> N, R- <u>5</u> W, County: <u>SANDAVOL</u> State: <u>NM</u>
Contractor Closing Pit: <u>ACE</u>
Construction Inspector: Wayne Ro
Inspector Signature:
Date: 6-30-14

Jamie Goodwin

From:

Tamra Sessions

Sent:

Thursday, June 19, 2014 8:31 AM

To:

Mike, Deedra; Marlena Reval (marlena.reval@bia.gov); Kurt Sandoval

(kurt.sandoval@bia.gov)

Subject:

FW: Logos 601H_Jicarilla Pit Closure 72hr notice

Attachments:

Jicarilla Pit Closure 72hr Noitce scan.pdf

Please see attached copy of pit closure notice.

From: Tamra Sessions

Sent: Thursday, June 19, 2014 8:20 AM

To: Jonathan Kelly (jonathan.kelly@state.nm.us)

Cc: brandon.powell@state.nm.us; Wayne Ritter (writter@logosresourcesllc.com); CascindraWillie@jicarillaoga.com;

Bryce Hammond (brycehammond@jicarillaoga.com) **Subject:** Logos 601H_Jicarilla Pit Closure 72hr notice

LOGOS #601H Jicarilla Lease 424 API #30-043-21182 UL D, Section 05, T22N, R05W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Monday, June 23, 2014. Bureau of Indian Affairs Jicarilla Agency is being notified via certified mail.

Tamra Sessions
Logos Resources, LLC
Operations Technician
tsessions@logosresourcesllc.com

(o) 505-436-3790

(c) 505-330-9333



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

Date: June 19, 2014

To: Bureau of Indian Affairs Jicarilla Agency

Re: Surface Owner Notification for Temporary Pit Closure

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

Re:

Logos #601H

API #30-043-21182

UL D, 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 June 23, 2014 on the Logos #601H. Drill cuttings will be buried in the reserve pit, as they qualify as per Subsection D of 19.15.17.13 NMAC. No action is required on your part. If you have any questions, please do not hesitate to contact me.

Regards,

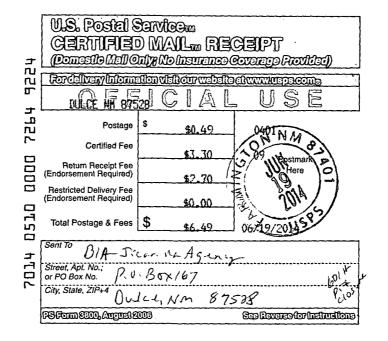
Tamra Sessions

Operations Technician

tsessions@logosresourcesllc.com

505-330-9333

(Nojikses sithe eightings steidikes	CONTRACTOR ON ON OTHER STREET,
© Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. □ Print your name and address on the reverse so that we can return the card to you. □ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: □ BIA - J. Car Cafency P. U. Biy 167	A. Signature X
Dulce, NM 87401 601H Pitusum 2. Article Number (Transfer from service label) 7014 05	3. Service Type X Certified Mail® ☐ Priority Mail Express™ ☐ Registered X Return Receipt for Merchandlse ☐ Insured Mail ☐ Collect on Delivery 4. Restricted Delivery? (Extra Fee) ☐ Yes
PS Form 3811, July 2013 Domestic Re	turn Receipt





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

JUN 2 4 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 **June 19, 2014,** for Permission to Perform Work (PTPW) on the following location, which is on Tribal Surface:

Lease No. 424, Logos #601H:

Located in Section 5, Township 22 North, Range 5 West, N.M.P.M. Sandoval County, New Mexico (API No. 30-043-21182).

Scope of Work:

Notice of temporary pit closure operations beginning June 23, 2014. Drill cuttings will be buried in the reserve pit.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grant Logos Resources, LLC and its contractors' permission to perform work on 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, Realty Officer, at (575) 759-3936.

Sincerely,

Superintendent

Jicarilla Oil and Gas Administration

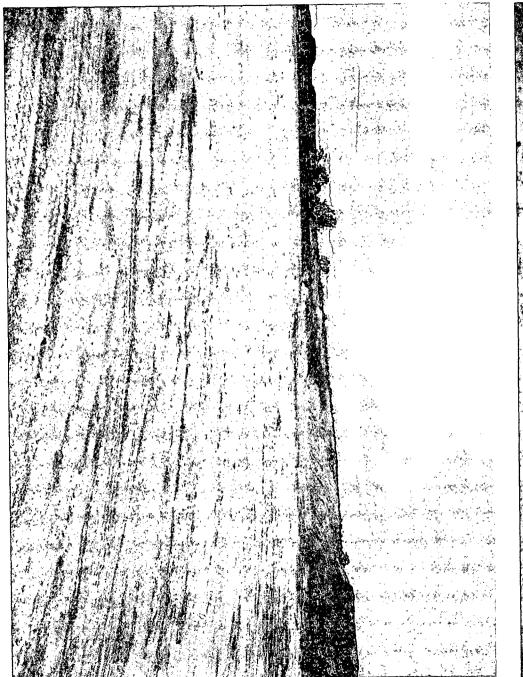
CC:

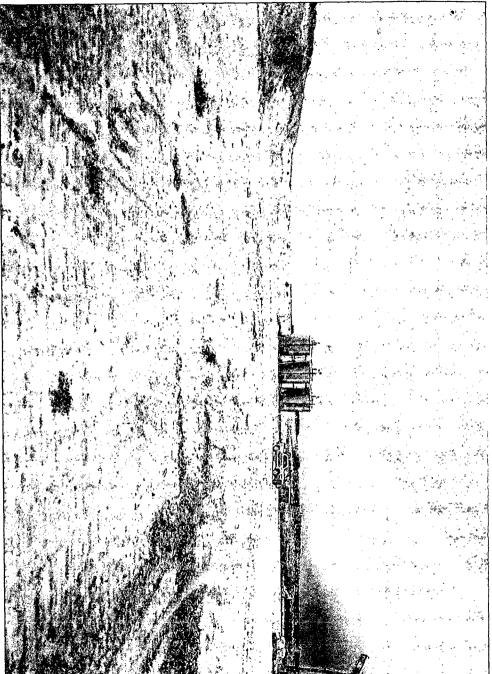


Reclamation Form:
Date: 8 19 14
Well Name: LOGOS 601H
Footages: 440' FNL & 560' FWL Unit Letter: D
Section: <u>5</u> , T- <u>22N</u> , R- <u>5W</u> , County: <u>SANDAVOL</u> State: NM
Reclamation Contractor: Kitter
Reclamation Start Date:
Reclamation Complete Date: $\frac{7/15/14}{}$
Road Completion Date: $\frac{7/15/14}{}$
Seeding Date: 8 19 14
PIT MARKER STATUS
(When Required) Picture of Marker set needed
Date Marker Placed: 8/25/14
Latitude: 36.172969 N
Longitude: <u>107, 391114 W</u>
Date Pit Manifold Removed: <u>N/A</u>
Construction Inspector Signature: Way A
Date Inspected: 8-19-14









Temporary Pit Weekly Inspection Form WELL NAME: LOGOS 601H API NO: 30-043-21182 LEGALS: Section: 5 Township: 22N Range: 5W Drilling RD Date: 1-29-14

Well sign on location	
WEEK # 1 2 3 4 5 6 7 8 9 10 DATE 01/07/14 02/25/14 03/03/14 03/24/14 04/05/14 04/12/14 04/22/14 04/28/14 05/13/14 05/19/14 0 Well sign on location (Y/N) Y <td< th=""><th></th></td<>	
DATE 01/07/14 02/25/14 03/03/14 03/24/14 04/05/14 04/12/14 04/22/14 04/28/14 05/13/14 05/19/14 0 Well sign on location (Y/N) Y <td>11 1</td>	11 1
Well sign on location (Y/N) Y<	
(Y/N) Y <td>/11/14</td>	/11/14
Any liner breeches (Y/N) N N N N N N N N N N N N N N N N N N	
(Y/N) N <td></td>	
Any fluid seeps/spills (Y/N)	į.
(Y/N) N <td></td>	
HC's on top of temp. pit (Y/N) N N N N N N N N N N N N N N N N N N	
pit (Y/N) N	
Temp pit free of misc. Solid Waste/Debris(Y/N) Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	
Solid	
Waste/Debris(Y/N) Y	
Discharge Line	
Integrity Good (Y/N)	
Fence Integrity Good	
(Y/N) $ Y$	
Any Dead Wildlife/	
Stock (Y/N) N N N N N N N N N	
Freeboard to be 2' or	
> Est. (ft) Y (16') Y (18') Y (15') Y (10') Y (12') Y (15') Y (15') Y (15') Y (15') Y (15') Y (13') Y (18') Y	
contacted (Y/N) N	
Pictures taken (Y/N) Y Y Y Y Y Y Y Y Y	
NO FI	JILD IN
PIT/	BEING
BACK	ILLED/
11'	2" TO
15' CLEARANCE/ MU	D ON
CLEARANCE/ CREW SOUT	ISIDE/1
Comments:	FROM
	ACE TO
	D ON
	SIDE/N
	SIDE
16' 18' 15' ON THE NW ADDED ON ANOTHER READY FOR ALONG SIDE 15' 13' LI	
CLEARANCE CLEARANCE SIDE OF PIT THE NW SIDE LOCATION BACK FILL OF PIT CLEARANCE CLEARANCE CON	NEK I



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,

(Jazhie Goodwin

Regulatory Technician