

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144
Revised June 6, 2013

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

Pit, Below-Grade Tank, or

12470 Proposed Alternative Method Permit or Closure Plan Application

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

DEC 17 2014

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 701H & LOGOS 702H
API Number: 30-043-21202 & 30-043-21219 OCD Permit Number: 11851
U/L or Qtr/Qtr _____ D _____ Section 8 _____ Township 22N _____ Range 5W _____ County: SANDOVAL
Center of Proposed Design: Latitude 36.157945° N Longitude 107.391328° 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 135 x W 75 x D 12

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 4' HOG WIRE WITH ONE STRAND OF BARBED WIRE ON TOP.

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

<p>• Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><u>Temporary Pit Non-low chloride drilling fluid</u></p>	
<p>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).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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;</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><u>Permanent Pit or Multi-Well Fluid Management Pit</u></p>	
<p>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).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> 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: *Josette D. Kelly* Approval Date: *12/23/2014*

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: *8/26/2014*

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 *36.157945° N* Longitude *107.391328° 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): Tamra Sessions Title: Oeprations Technician

Signature:  Date: 12-17-14

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

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

**Lease Name: LOGOS 701H & LOGOS 702H
API NO: 30-043-21202 & 30-043-21219**

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. **(Due to confusion with the new operator the closure report was not filed within the 60 days after 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 email. See attached "permissions to perform work" letter confirming notice to BIA. (See attached)

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

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

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

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

Notification is attached.

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

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

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

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

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

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

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

- 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. (Logos Operating, LLC (289408) is filing 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 filing 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 mix 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 through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 12 was accomplished in accordance with NMOCD 19.15.17.13(5)(d) Notification will be sent to the OCD when re-vegetation is established. (Logos Operating, LLC (289408) is filing 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 701H & LOGOS 702H
Unit Letter: D
Section: 8
Township: 22N
Range: 5W
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: 4/25/14

Inspection End Date: 8/18/14

NOTE: During start and end dates of temporary pit inspections debris in pit was noted and cleaned out during the weekly inspections. OCD notified Logos the cuttings were piling up and getting above the freeboard level of 2'. Logos took care to push/spread the cuttings out, as to not damage the liner. Operation personnel were also notified to make sure the cuttings do not pile up. In the future Logos will maintain logs in accordance with OCD ruling 19.15.17.12(B)(3).

Tamra Sessions

From: Tamra Sessions
Sent: Tuesday, April 1, 2014 4:30 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 04/01/14 - Temporary Pit
Attachments: Jicarilla Pit Noitce.docx

Please see our attached notice that we intend to have one temporary pit on our upcoming new drills, Logos 701H & Logos 702H.

Logos 701H & Logos 702H, UL D Section 8, 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: April 1, 2014

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 701H & Logos 702H, UL D Section 8, 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,

Tamra Sessions

Tamra Sessions
Operations Technician

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3468

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

API Number 30-043-21202		Pool Code	Pool Name WILDCAT GALLUP
Property Code	Property Name LOGOS		Well Number 701H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC		Elevation 6961'

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	8	22-N	5-W		450	NORTH	510	WEST	SANDOVAL

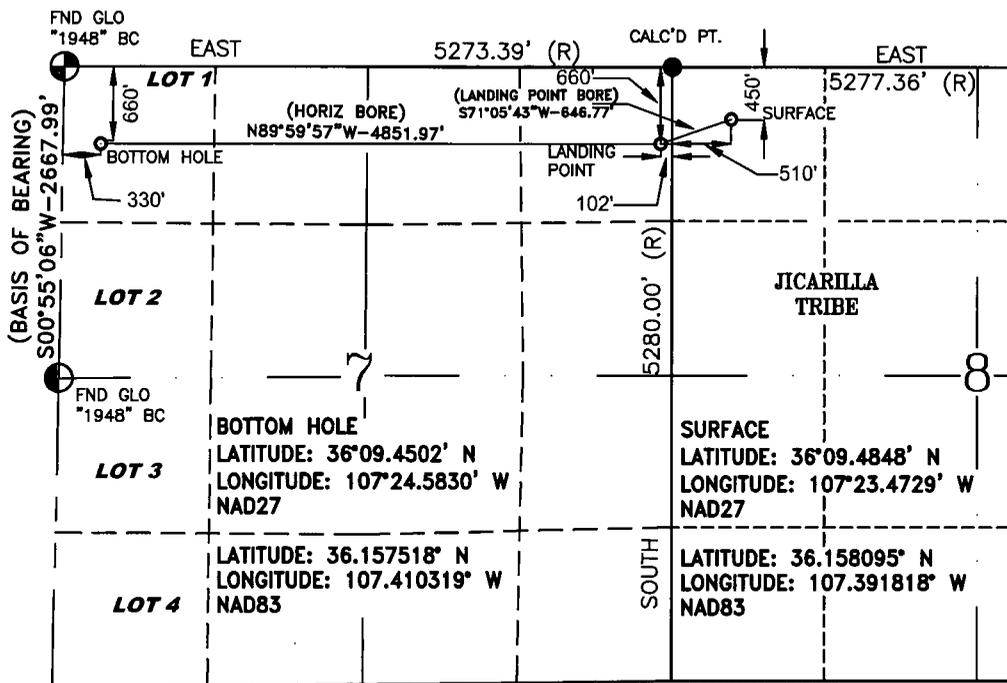
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	7	22-N	5-W		660	NORTH	330	WEST	SANDOVAL

Dedicated Acres	Joint or Infill	Consolidation Code	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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Signature _____ Date _____

Printed Name _____

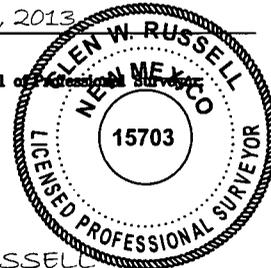
E-mail Address _____

18 SURVEYOR CERTIFICATION

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

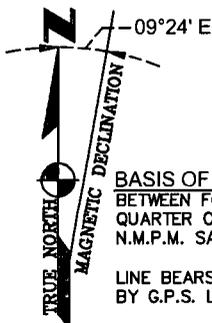
MARCH 13, 2013
Date of Survey

Signature and Seal of _____



GLEN W. RUSSELL

Certificate Number 15703



BASIS OF BEARING:
BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST, N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS: S 00°55'06" W A DISTANCE OF 2667.99 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

LANDING POINT
LATITUDE: 36°09.4503' N
LONGITUDE: 107°23.5972' W
NAD27

LATITUDE: 36.157519° N
LONGITUDE: 107.393890° W
NAD83

DISTRICT I
1685 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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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 30-043-21219		² Pool Code	³ Pool Name WILDCAT GALLUP
⁴ Property Code	⁵ Property Name LOGOS		⁶ Well Number 702H
⁷ OGRID No. 289408	⁸ Operator Name LOGOS OPERATING, LLC		⁹ Elevation 6961'

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	8	22-N	5-W		440	NORTH	561	WEST	SANDOVAL

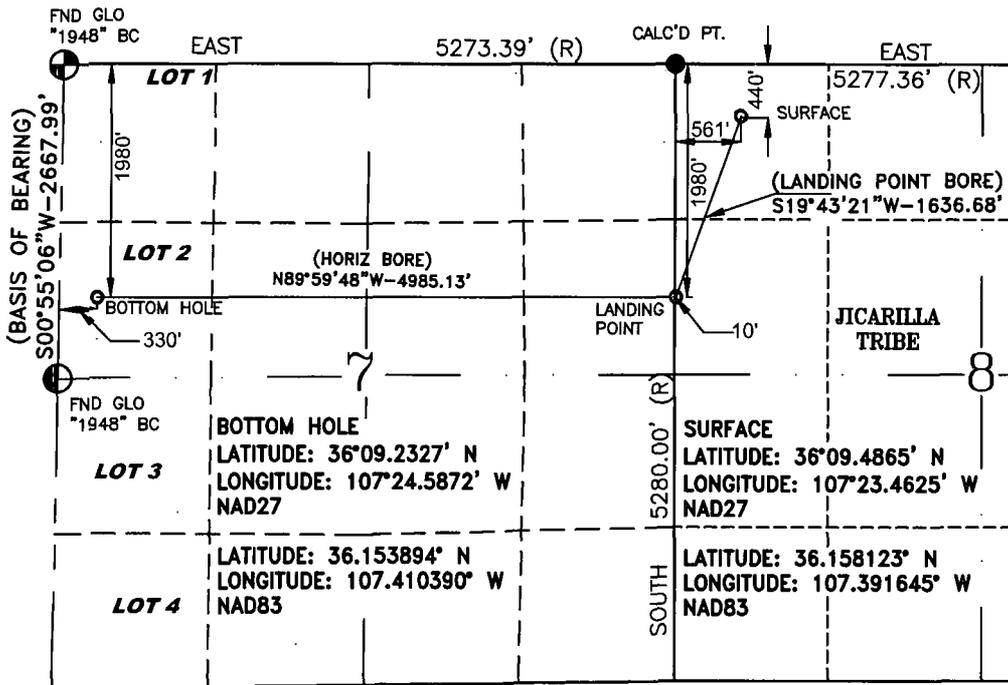
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	7	22-N	5-W		1980	NORTH	330	WEST	SANDOVAL

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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

18



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

18 SURVEYOR CERTIFICATION

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

MAY 7, 2014

Date of Survey

Signature and Seal



GLEN W. RUSSELL

Certificate Number

15703

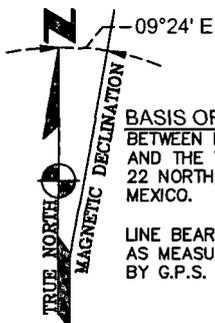
LANDING POINT
1980' FNL 10' FWL SEC. 8
LATITUDE: 36°09.2328' N
LONGITUDE: 107°23.5745' W
NAD27

LATITUDE: 36.153894° N
LONGITUDE: 107.393510° W
NAD83

BASIS OF BEARING:

BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 7, TOWNSHIP 22 NORTH, RANGE 5 WEST, N.M.P.M. SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS: S 00°55'06" W A DISTANCE OF 2667.99 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

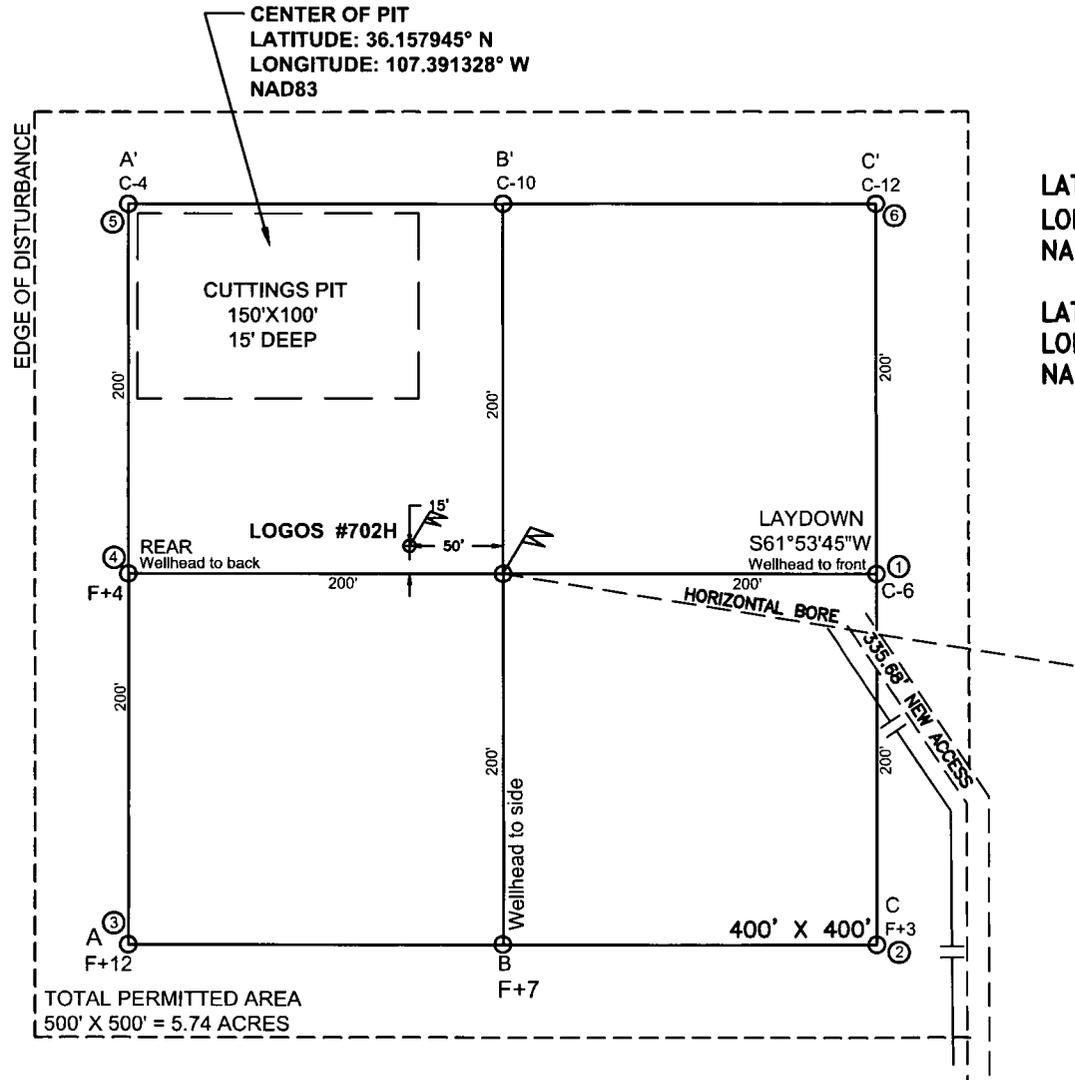


LOGOS OPERATING, LLC

LOGOS #701H, 450' FNL & 510' FWL

SECTION 8, T-22-N, R-5-W, NMPM, SANDOVAL COUNTY, NM

GROUND ELEVATION: 6961', DATE: OCTOBER 16, 2013/RVSD: MARCH 18, 2014

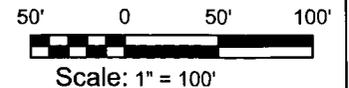
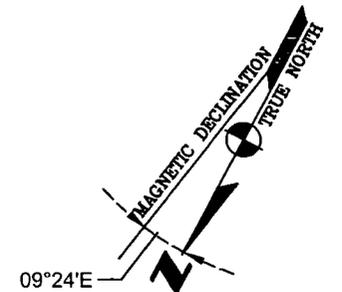


LATITUDE: 36°09.4848' N
 LONGITUDE: 107°23.4729' W
 NAD27

LATITUDE: 36.158095° N
 LONGITUDE: 107.391818° W
 NAD83

NOTES:

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





October 13, 2014

Project Number 12035-0065

Mr. Wayne Ritter
Logos Operating, LLC
4001 N. Butler Ave., Building 7101
Farmington, New Mexico 87401

Phone: (505) 330-9333

RE: DRILL PIT CLOSURE AND BACKFILL MATERIAL SAMPLING DOCUMENTATION FOR THE LOGOS #701H AND #702H WELL SITE, SANDOVAL COUNTY, NEW MEXICO

Dear Mr. Ritter:

Enclosed please find the analytical results for drill pit closure and backfill material sampling activities performed at the Logos #701H and #702H well site located in Section 8, Township 22 North, Range 5 West, Sandoval County, New Mexico. Activities included sample collection, documentation, and reporting.

Pursuant to this site's approved closure plan, the regulatory standards for this site were determined to be 10 parts per million (ppm) for benzene, 50 ppm for total BTEX, 2500 ppm for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, 1000 ppm for TPH using USEPA Method 8015, and 80000 ppm for chlorides using USEPA Method 300.0.

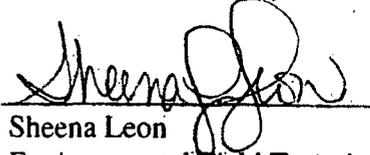
On August 21, 2014, Envirotech, Inc. personnel arrived on site to perform drill pit and backfill material sampling activities. One (1) five (5)-point composite sample, *Drill Pit*, was collected from the drill pit; see enclosed *Site Map* for sample location. The sample was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015, TPH using USEPA Method 418.1, benzene and total BTEX using USEPA Method 8021, and for chlorides using USEPA Method 300.0. The sample returned a result below the regulatory standards for all constituents analyzed; see enclosed *Summary of Analytical Results* and *Analytical Results*.

One (1) five (5)-point composite sample, *Top Soil*, was collected from the stockpile of backfill material; see enclosed *Site Map* for sample location. The sample was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 300.0. The sample returned a result above the regulatory standard for chlorides; see enclosed *Analytical Results* and *Summary of Analytical Results*.

Envirotech, Inc. recommends the drill pit contents can be closed in place. However, unless approval is granted by the NMOCD to allow the top soil material to be used as backfill material (despite being 1 ppm above the standard), Envirotech, Inc. recommends using alternate soil as backfill material.

We appreciate the opportunity to be of service. If you have questions or require additional information, please contact our office at (505) 632-0615.

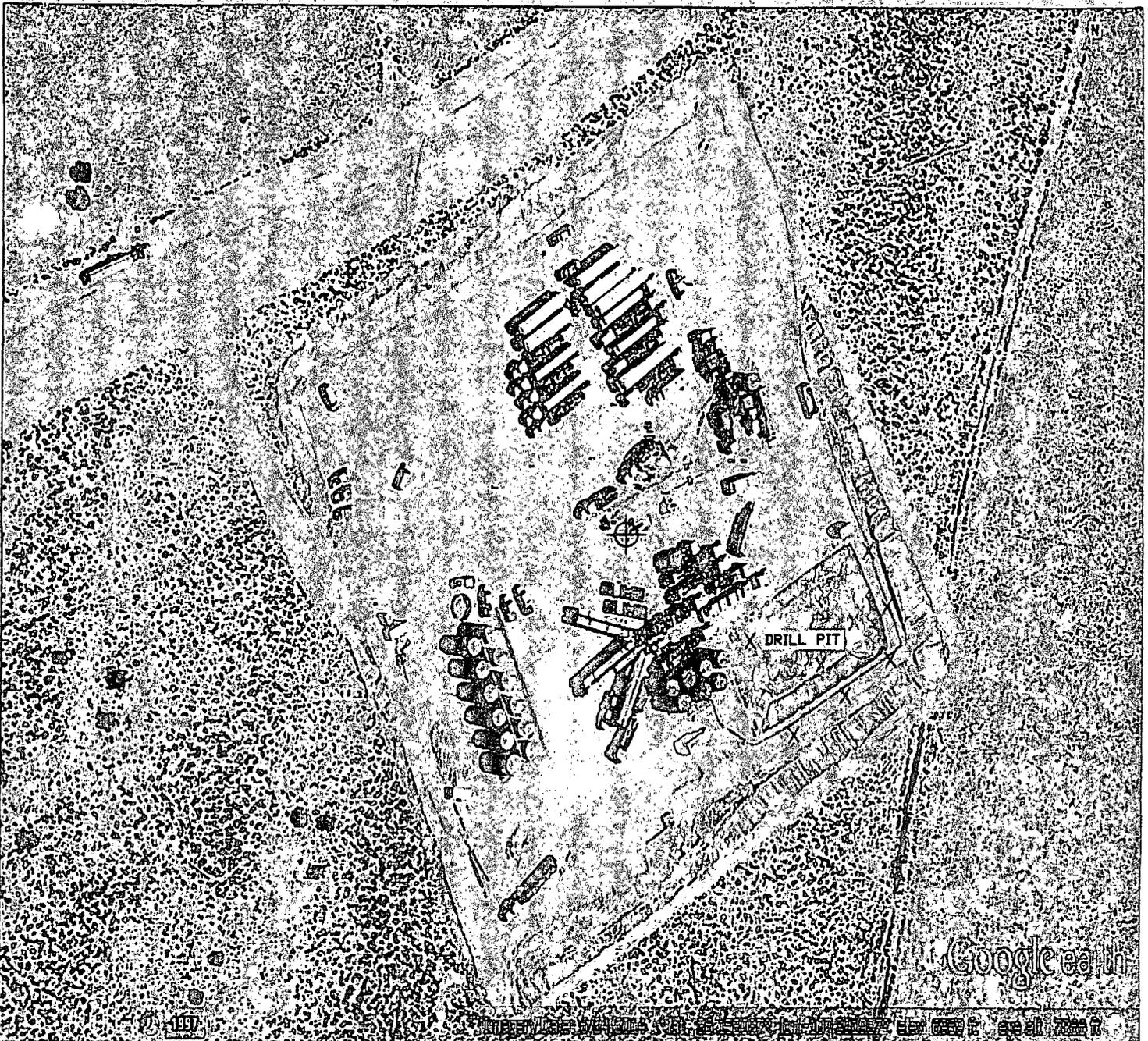
Respectfully Submitted,
ENVIROTECH, INC.



Sheena Leon
Environmental Field Technician
sleon@envirotech-inc.com

Enclosures: Site Map
Summary of Analytical Results
Analytical Results

Cc: Client File Number 12035



LEGEND

- ⊕ = WELL HEAD
- X = DRILL PIT SAMPLE
- X = TOP SOIL SAMPLE

SITE MAP
Logos Operating, LLC
 Logos #701H and #702H
 SECTION 8, TWP 22 NORTH, RANGE 5 WEST
 SANDOVAL COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 1	REV
PROJECT NO12035-0065		

REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	TLM	8/25/14	BASE DRWN TLM 2/25/13



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

Table 1, Summary of Analytical Results
 Logos Operating, LLC
 Logos #701H and #702H
 Drill Pit Closure and Backfill Material Sampling Report
 Sandoval County, New Mexico
 Project Number 12035-0065

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)
NMOCDC/RORA Standards	NA	NA	2500	1000	10	50	80000
Drill Pit	1	8/21/2014	722	782	ND	ND	151
NMOCDC/RORA Standards	NA	NA	NA	NA	NA	NA	600
Top Soil	2	8/21/2014	NS	NS	NS	NS	601

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: 17356

Samples Received: 8/22/2014 8:50:00AM

Job Number: 12035-0065

Work Order: P408093

Project Name/Location: Logos #701H & 702H

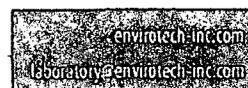
Entire Report Reviewed By:

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

Date: 8/26/14

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 PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit	P408093-01A	Soil	08/21/14	08/22/14	Glass Jar, 4 oz.
Top Soil	P408093-02A	Soil	08/21/14	08/22/14	Glass Jar, 4 oz.

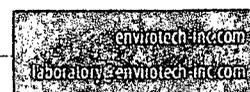
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5796 US Highway 64, Farmington, NM 87401

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 PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

**Drill Pit
P408093-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		115 %		50-150	1434038	08/22/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		107 %		50-150	1434038	08/22/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1434038	08/22/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	782	34.9	mg/kg	1	1434031	08/22/14	08/22/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		1.09 %		50-200	1434031	08/22/14	08/22/14	EPA 8015D	Surr2
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	722	34.9	mg/kg	1	1435005	08/25/14	08/25/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	151	9.89	mg/kg	1	1434037	08/22/14	08/22/14	EPA 300.0	

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

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





Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

Top Soil
P408093-02 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Cation/Anion Analysis										
Chloride	601	9.95	mg/kg	1	1434037	08/22/14	08/22/14	EPA 300.0		

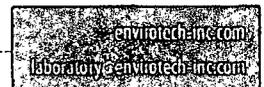
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Ph (970) 259-0615 Fr (800) 362-1879





Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

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

Batch 1434038 - Purge and Trap EPA 5030A

Blank (1434038-BLK1)		Prepared: 22-Aug-14 Analyzed: 25-Aug-14								
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	52.3		ug/L	50.0		105	50-150			
Surrogate: Bromochlorobenzene	53.2		"	50.0		106	50-150			

Duplicate (1434038-DUP1)		Source: P408093-01		Prepared: 22-Aug-14 Analyzed: 25-Aug-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	0.10	"		ND					30
o-Xylene	ND	0.05	"		ND					30
Surrogate: 1,3-Dichlorobenzene	49.9		ug/L	50.0		99.7	50-150			
Surrogate: Bromochlorobenzene	50.6		"	50.0		101	50-150			

Matrix Spike (1434038-MS1)		Source: P408093-01		Prepared: 22-Aug-14 Analyzed: 25-Aug-14						
Benzene	50.2		ug/L	50.0	ND	100	39-150			
Toluene	52.5		"	50.0	ND	105	46-148			
Ethylbenzene	50.2		"	50.0	ND	100	32-160			
p,m-Xylene	102		"	100	ND	102	46-148			
o-Xylene	52.0		"	50.0	ND	104	46-148			
Surrogate: 1,3-Dichlorobenzene	49.0		"	50.0		98.1	50-150			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	50-150			

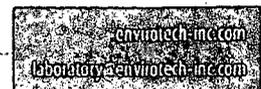
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5796 US Highway 64, Farmington, NM 87401

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

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

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





Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

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 1434031 - DRO Extraction EPA 3550M										
Blank (1434031-BLK1) Prepared: 21-Aug-14 Analyzed: 22-Aug-14										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	19.6		"	20.0		98.1	50-200			
LCS (1434031-BS1) Prepared: 21-Aug-14 Analyzed: 22-Aug-14										
Diesel Range Organics (C10-C28)	491	25.0	mg/kg	499	ND	98.3	38-132			
Surrogate: Benzo[a]pyrene	19.8		"	20.0		99.2	50-200			
Matrix Spike (1434031-MS1) Source: P408090-01 Prepared: 21-Aug-14 Analyzed: 22-Aug-14										
Diesel Range Organics (C10-C28)	606	30.0	mg/kg	500	ND	121	38-132			
Surrogate: Benzo[a]pyrene	23.9		"	20.0		120	50-200			
Matrix Spike Dup (1434031-MSD1) Source: P408090-01 Prepared: 21-Aug-14 Analyzed: 22-Aug-14										
Diesel Range Organics (C10-C28)	584	30.0	mg/kg	499	ND	117	38-132	3.81	20	
Surrogate: Benzo[a]pyrene	22.6		"	20.0		113	50-200			

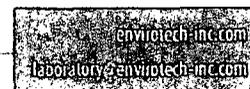
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5796 US Highway 64, Farmington, NM 87401

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

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

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





Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

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 1434038 - Purge and Trap EPA 5030A										
Blank (1434038-BLK1)					Prepared: 22-Aug-14 Analyzed: 25-Aug-14					
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1434038-DUP1)					Source: P408093-01 Prepared: 22-Aug-14 Analyzed: 25-Aug-14					
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1434038-MS1)					Source: P408093-01 Prepared: 22-Aug-14 Analyzed: 25-Aug-14					
Gasoline Range Organics (C6-C10)	0.50		mg/L	0.450	0.05	100	75-125			

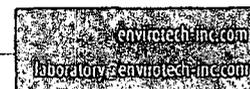
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Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

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 1435005 - 418 Freon Extraction										
Blank (1435005-BLK1) Prepared & Analyzed: 25-Aug-14										
Total Petroleum Hydrocarbons	ND	34.9	mg/kg							
Duplicate (1435005-DUP1) Source: P408099-01 Prepared & Analyzed: 25-Aug-14										
Total Petroleum Hydrocarbons	59.9	35.0	mg/kg		52.0			14.2	30	
Matrix Spike (1435005-MS1) Source: P408099-01 Prepared & Analyzed: 25-Aug-14										
Total Petroleum Hydrocarbons	1880	34.9	mg/kg	2020	52.0	90.3	80-120			

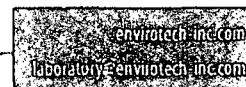
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Ph (970) 259-0615 Fr (800) 362-1879





Logos Operating, LLC PO Box 18 Flora Vista NM, 87415	Project Name: Logos #701H & 702H Project Number: 12035-0065 Project Manager: Sheena Leon	Reported: 26-Aug-14 11:54
--	--	------------------------------

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 1434037 - Anion Extraction EPA 300.0										
Blank (1434037-BLK1)										
Prepared & Analyzed: 22-Aug-14										
Chloride	ND	9.95	mg/kg							
LCS (1434037-BS1)										
Prepared & Analyzed: 22-Aug-14										
Chloride	483	9.97	mg/kg	498		97.0	90-110			
Matrix Spike (1434037-MS1)										
Source: P408090-01 Prepared & Analyzed: 22-Aug-14										
Chloride	489	9.93	mg/kg	497	ND	98.6	80-120			
Matrix Spike Dup (1434037-MSD1)										
Source: P408090-01 Prepared & Analyzed: 22-Aug-14										
Chloride	492	9.99	mg/kg	499	ND	98.4	80-120	0.418	20	

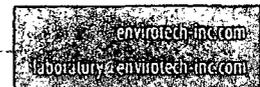
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Logos Operating, LLC	Project Name:	Logos #701H & 702H	Reported:
PO Box 18	Project Number:	12035-0065	26-Aug-14 11:54
Flora Vista NM, 87415	Project Manager:	Sheena Leon	

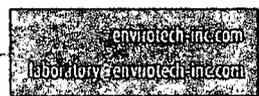
Notes and Definitions

- Surr2 Surrogate recovery was below acceptable 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

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



CHAIN OF CUSTODY RECORD

17356

Client: Logos Operations			Project Name / Location: Logos #101H ↓ #702H			ANALYSIS / PARAMETERS																
Email results to: S. Leon			Sampler Name: S. Leon			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact			
Client Phone No.:			Client No.: 12035-0065																			
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative			TPH	BTEX	VOC	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
					HNO ₃	HCl	(M)															
Drill Pit	8/21/14	14:30	P408093-01	1-4oz glass jar			X	X	X							X	X				✓	✓
Top Soil	8/21/14	14:20	-02	4oz glass jar			X										X				✓	✓
Relinquished by: (Signature) <i>Sheena Leon</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time											
Relinquished by: (Signature)						Received by: (Signature)																
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.																						
Rush								87 9.9 <u>8.8</u>														
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115. Durango, CO 81301 • laboratory@envirotech-inc.com																						

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised August 1, 2011

1. WELL API NO.
30-043-21202/30-043-21219

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 701H/LOGOS 702H

6. Well Number: 701H/702H

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

8. Name of Operator
LOGOS OPERATING LLC

9. OGRID
289408

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

11. Pool name or Wildcat

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

13. Date Spudded

14. Date T.D. Reached

15. Date Rig Released
5/14/14 on first well of twin pad

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.

33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude 36.157945N Longitude 107.391328W NAD 1927 1983X

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

Signature  Printed Name Tamra Sessions Title Operations Technician Date 12/17/2014

E-mail Address tsessions@logosresourcesllc.com



Pit Closure Form:

Date: 8-26-14

Well Name: LOGOS 701H & LOGOS 702H

Footages: 450' FNL & 510' FWL & 440' FNL & 561' FWL Unit Letter: D

Section: 8, T-22N, R-5W, County: SANDEVOL State: NM

Contractor Closing Pit: Ace

Construction Inspector: Wayne Ritter

Inspector Signature: Wayne Ritter

Date: 8-26-14

Tamra Sessions

From: Shelly Hamlin <SHamlin@logosoperating.com>
Sent: Thursday, August 21, 2014 9:12 AM
To: Tamra Sessions
Subject: FW: Temp pit closure Logos 701H and Logos 702H

Regards,

Shelly (Hamlin) Jaquez

From: Shelly Hamlin
Sent: Monday, August 11, 2014 4:12 PM
To: 'Kurt.Sandoval@bia.gov'
Subject: Temp pit closure Logos 701H and Logos 702H

Kurt,

Good afternoon. This is a 72 hour notice for temporary pit closure for LOGOS 701H and Logos 702H. You are welcome to come out if you need to.

Thank you and have a nice day!

Regards,

Shelly (Hamlin) Jaquez
LOGOS Resources, LLC
Office: 505-436-3790 ext 104
shamlin@logosoperating.com



Tamra Sessions

From: Shelly Hamlin <SHamlin@logosoperating.com>
Sent: Thursday, August 21, 2014 9:12 AM
To: Tamra Sessions
Subject: FW: Temp pit closure Logos 701H and Logos 702H

Regards,

Shelly (Hamlin) Jaquez

From: Shelly Hamlin
Sent: Monday, August 11, 2014 4:10 PM
To: 'jlovato@blm.gov'
Subject: Temp pit closure Logos 701H and Logos 702H

Good afternoon. This is a 72 hour notice for temporary pit closure for LOGOS 701H and Logos 702H.

Thank you and have a nice day!

Regards,

Shelly (Hamlin) Jaquez
LOGOS Resources, LLC
Office: 505-436-3790 ext 104
shamlin@logosoperating.com



Tamra Sessions

From: Shelly Hamlin <SHamlin@logosoperating.com>
Sent: Thursday, August 21, 2014 9:12 AM
To: Tamra Sessions
Subject: FW: Temp pit closure Logos 701H and Logos 702H

Regards,

Shelly (Hamlin) Jaquez

From: Shelly Hamlin
Sent: Monday, August 11, 2014 4:00 PM
To: 'cory.smith@state.nm.us'
Cc: Wayne Ritter
Subject: Temp pit closure Logos 701H and Logos 702H

Cory,

Good afternoon. This is a 72 hour notice for temporary pit closure for LOGOS 701H and Logos 702H.

Thank you and have a nice day!

Regards,

Shelly (Hamlin) Jaquez
LOGOS Resources, LLC
Office: 505-436-3790 ext 104
shamlin@logosoperating.com





IN REPLY REFER TO:
Energy & Minerals Management

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



AUG 15 2014

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

Dear Ms. Jaquez:

This is in response to your request, dated **August 12, 2014**, for Permission to Perform Work (PTPW) on the following location, which is on Tribal Surface:

Lease No. 424, Logos #701H and Logos #702H:

Located in Section 8, Township 22 North, Range 5 West, N.M.P.M. Sandoval County, New Mexico (API No. 30-043-21202 and 30-043-21219).

Scope of Work:

72 hour notice for temporary pit closure for the above indicated locations.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grants Logos Resources, LLC and its contractors' permission to perform work on the above indicated location. Please submit an affidavit of completion 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,

Acting Superintendent

cc: Jicarilla Oil and Gas Administration



Reclamation Form:

Date: 9-2-14

Well Name: LOGOS 701H & LOGOS 702H

Footages: 450' FNL & 510' FWL & 440' FNL & 561' FWL Unit Letter: D

Section: 8, T-22N, R-5W, County: SANDAVOL State: NM

Reclamation Contractor: ACE

Reclamation Start Date: 8-19-14

Reclamation Complete Date: 8-26-14

Road Completion Date: Road to be finalized by WPX at a later date

Seeding Date: to be seeded at a later date by WPX

PIT MARKER STATUS

(When Required) Picture of Marker set needed

Date Marker Placed: 9-2-14

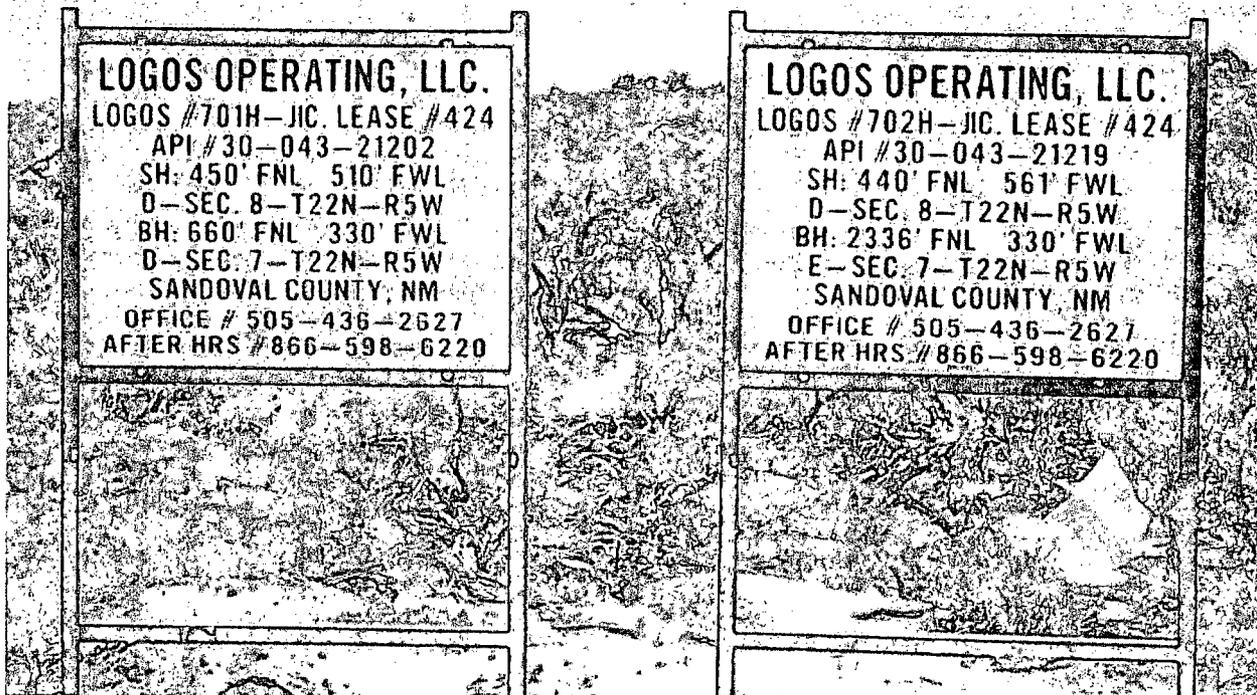
Latitude: 36.157945

Longitude: 107.391328

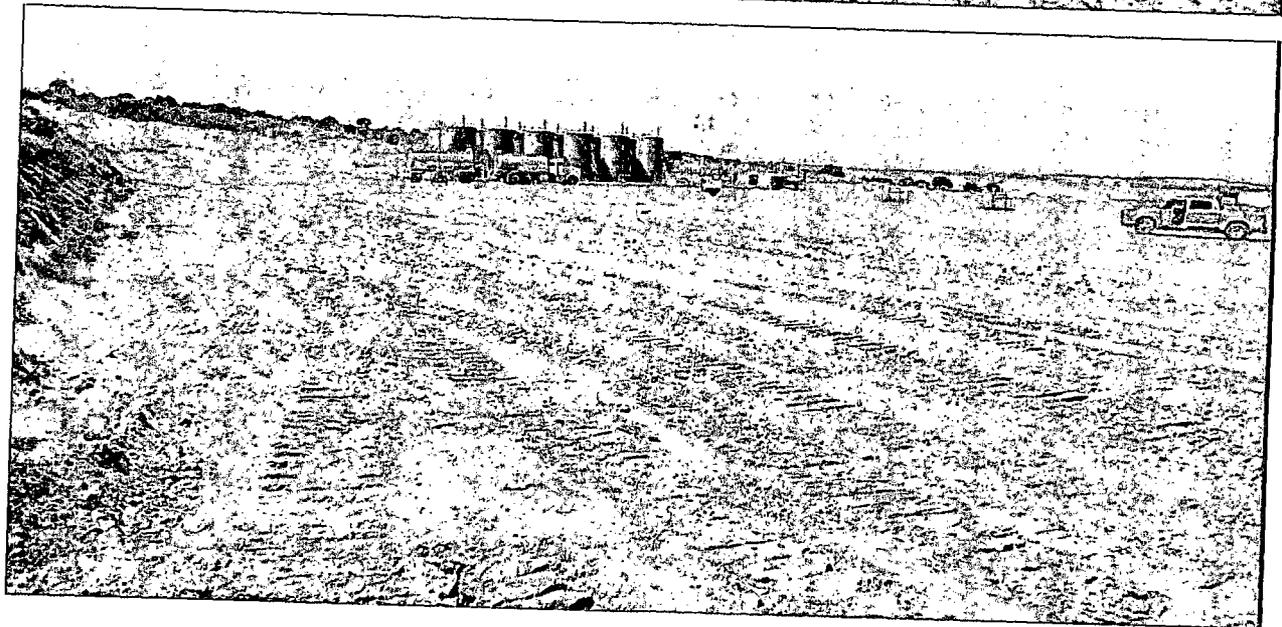
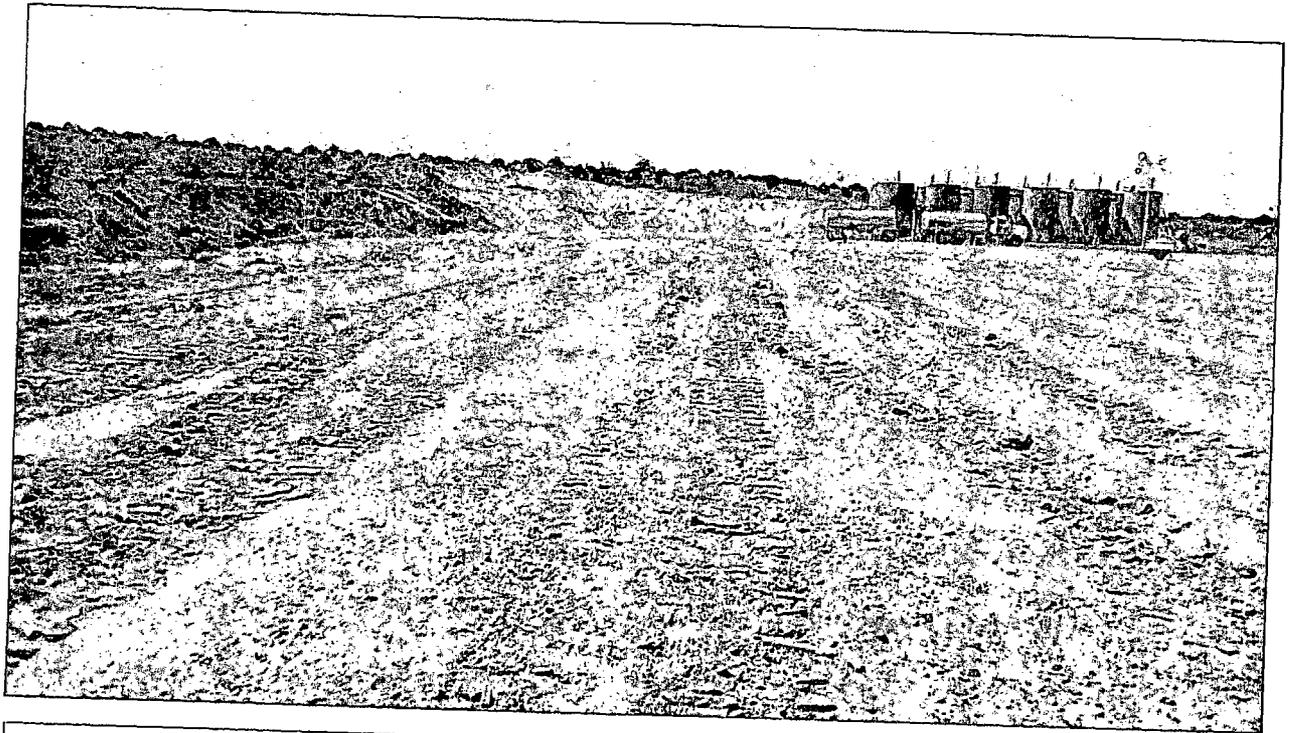
Date Pit Manifold Removed: NA

Construction Inspector Signature: Wagner

Date Inspected: 9-2-14



LOGOS 701H / 702H TEMPORARY PIT CLOSED



Temporary Pit Inspection Form

Well Name: Logos 701H

API No.: Rig Name #1: AWS 395 Start Date: End Date:

Inspector's Name	Inspection Date	Inspection Time	*Any liner breeches (Y/N)	**Any fluid seeps/spills (Y/N)	HC's on top of temp. pit (Y/N)	Temp pit free of misc. Solid Waste/Debris (Y/N)	Discharge Line Integrity (Y/N)	Fence Integrity (Y/N)	Any Dead Wildlife/ Stock (Y/N)	Freeboard Est. (ft)
Richard Behrendt	6/19/2014	7:00	N	N	N	Y	Y	Y	N	8
Richard Behrendt	6/20/2014	7:00	N	N	N	Y	Y	Y	N	10'
Richard Behrendt	6/21/2014	7:00	N	N	N	Y	Y	Y	N	12'
Richard Behrendt	6/22/2014	7:00	N	N	N	N	Y	Y	N	12'

Notes: *Provide Detail Description of any liner breach: _____

**Provide Detail Description and Location of any associate fluid seeps/discharges outside pit: _____

Misc.: Debris in pit: plastic bottle, can

Temporary Pit Inspection Form

Well Name: Logos 702H

API No.: Rig Name #1: AWS 395 Start Date: End Date:

Inspector's Name	Inspection Date	Inspection Time	*Any liner breaches (Y/N)	**Any fluid seeps/spills (Y/N)	HC's on top of temp. pit (Y/N)	Temp pit free of misc. Solid Waste/Debris (Y/N)	Discharge Line Integrity (Y/N)	Fence Integrity (Y/N)	Any Dead Wildlife/ Stock (Y/N)	Freeboard Est. (ft)
RICHARD BEHRENDT	6/21/2014	7:00	N	N	N	Y	Y	Y	N	12'
RICHARD BEHRENDT	6/22/2014	7:00	N	N	N	N	Y	Y	N	12'
RICHARD BEHRENDT	6/23/2014	7:00	N	N	N	N	Y	Y	N	12'
JD GRIFFITH	7/8/2014	7:00	N	N	N	Y	Y	Y	N	13'
JD GRIFFITH	7/9/2014	7:00	N	N	N	Y	Y	Y	N	13'
RICHARD BEHRENDT	7/10/2014	7:00	N	N	N	Y	Y	Y	N	13'
RANDY LYNDE	7/11/2014	7:00	N	N	N	Y	Y	Y	N	13'

Notes: *Provide Detail Description of any liner breach: _____

**Provide Detail Description and Location of any associate fluid seeps/discharges outside pit: _____

Misc.: Debris in pit: plastic bottle, can

Temporary Pit Inspection Form

Well Name: Logos 701H

API No.: Rig Name #1: AWS 395 Start Date: 7/11/2014 End Date:

Inspector's Name	Inspection Date	Inspection Time	*Any liner breeches (Y/N)	**Any fluid seeps/spills (Y/N)	HC's on top of temp. pit (Y/N)	Temp pit free of misc. Solid Waste/Debris (Y/N)	Discharge Line Integrity (Y/N)	Fence Integrity (Y/N)	Any Dead Wildlife/ Stock (Y/N)	Freeboard Est. (ft)
RANDY LYNDE	7/11/2014	7:00	N	N	N	Y	Y	Y	N	14'
RANDY LYNDE	7/12/2014	10:00	N	N	N	Y	Y	Y	N	14'
RANDY LYNDE	7/13/2014	8:00	N	N	N	Y	Y	Y	N	13'
RANDY LYNDE	7/14/2014	7:00	N	N	N	Y	Y	Y	N	13'
RANDY LYNDE	7/15/2014	7:00	N	N	N	Y	Y	Y	N	14'

Notes: *Provide Detail Description of any liner breach: _____

**Provide Detail Description and Location of any associate fluid seeps/discharges outside pit: _____

Misc.: _____



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

Date: December 17, 2014

To: NMOCD

Re: Pit Closure Filings for WPX

OIL CONS. DIV DIST. 3
DEC 17 2014

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,

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

Tamra Sessions
Operations Technician