District I 1625 N. French Dr., Hobbs, NM 88240 District II 817 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									
12237 Proposed Alternative Method Permit or Closure Plan Application									
Type of action: Below grade tank registration									
245 - 35506 ☐ 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 DIST. 3									
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.									
Operator: LOGOS OPERATING, LLC OGRID #: 289408									
Address: 4001 NORTH BUTLER AVENUE, BUILDING 7101 FARMINGTON NM 87401									
Facility or well name: WARNER-CALDWELL 3B									
API Number: 30-045-35506 OCD Permit Number: 11733									
U/L or Qtr/Qtr _B Section 8 Township23N Range 8W County: SAN JUAN									
Center of Proposed Design: Latitude _36.247876N									
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment									
2.									
Pit: Subsection F, G or J of 19.15.17.11 NMAC									
Temporary: 🛮 Drilling 🔲 Workover									
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no									
☐ Lined ☐ Unlined Liner type: Thickness _20mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other									
String-Reinforced									
Liner Seams: Welded Factory Other Volume: 8,000 bbl Dimensions: L 135 x W 60 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: 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

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 accommendation are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	eptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

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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									
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site									
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									
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									
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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 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 doc 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: 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
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	
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	luid Management Pit
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	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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 ☐ 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	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	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	☐ Yes ☐ No
Within a 100-year floodplain.	
- 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 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	II NMAC 5.17.11 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 believe	ef.
Name (Print):	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (enly) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number:	27/2014
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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 07/10/14	the closure report. complete this
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)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indimark in the box, that the documents are attached.	licate by a check

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):Tamra Sessions	Title:Operations Technician
Signature: Tamasessin	Date: 9-30-14
e-mail address:tsessions@logosresourcesllc.com	Telephone:505-330-9333

Form C-144 Oil Conservation Division Page 6 of 6

Logos Operating, LLC San Juan Basin Closure Report

Lease Name: Warner-Caldwell 3B

API NO: 30-045-35506

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.

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) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD).

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

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

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

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

Notification is attached.

ii.

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.

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

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

12 Logos shall seed the distributed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixed will be used on federal lands. Vegetative cover will be established that will reflect a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and will equal seventy (70%) of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover thorough twp successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 12 was accomplished in accordance with NMOCD 19.15.17.13(5)(d) Notification will be sent to the OCD when re-vegetation is established.

13 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name. Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

Provision 13 was accomplished by installing a steel marker in the temporary pit, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker is flush with the ground to allow access of the active well pad and for safety concerns. The top of the marker contains a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate contains the following: Operator's name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the following operator's information at the time of all wells on the pad are abandoned. The riser will also indicate that the marker is for an onsite burial location.

Operator Name: LOGOS

Lease Name & Well Number: Warner-Caldwell 3B

Unit Letter: B Section: 8 Township: 23N Range: 8W

API#: 30-045-35506

OBL

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

Inspection Start Date: 3/10/14 Inspection End Date: 6/11/14

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

Tamra Sessions

From:

Tamra Sessions

Sent:

Thursday, February 13, 2014 2:25 PM

To: Cc: Mark Kelly (mkelly@blm.gov) Kristina Graham; Wayne Ritter

Subject:

Warner-Caldwell 3B_Surface Owner Notification for Temporary Pit 02-13-14

Warner-Caldwell 3B B, Section 8, T23N, R08W San Juan County

According to NMOCD rules, Logos Operating, LLC is notifying you that there will be 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. Please let me know if I need to add anyone else to this notification.

Thank you,

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

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 Phones (675) 393-6161 Fee: (675) 393-0720 DISTRICT II 811 8. First St., Artesia, H.M. 88310 Phone: (875) 748-1283 Fax: (875) 748-8720 DISTRICT III 1000 Rio Brasos Bd., Astec, N.M. 87410 Phone: (806) 884-8178 Fax: (806) 884-8170 DISTRICT IV 1820 S. St. Francis Dr., Santa Pa, NM 67605 Phone: (505) 476-8460 Pag: (506) 476-8462

State of New Mexico Energy, Minerals & Natural Resources Department

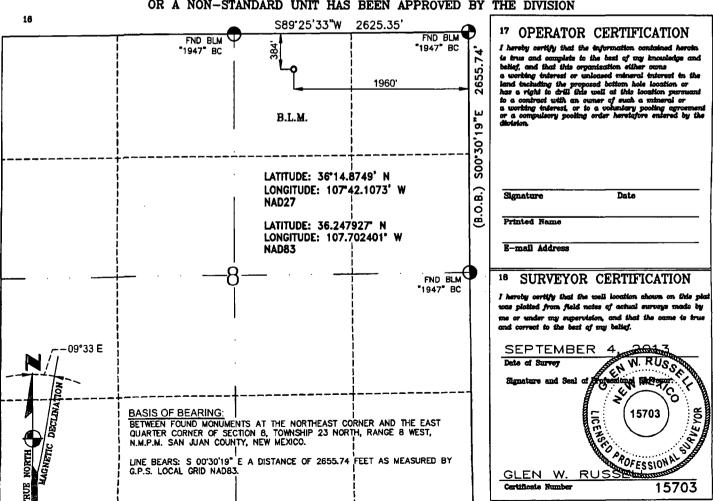
OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

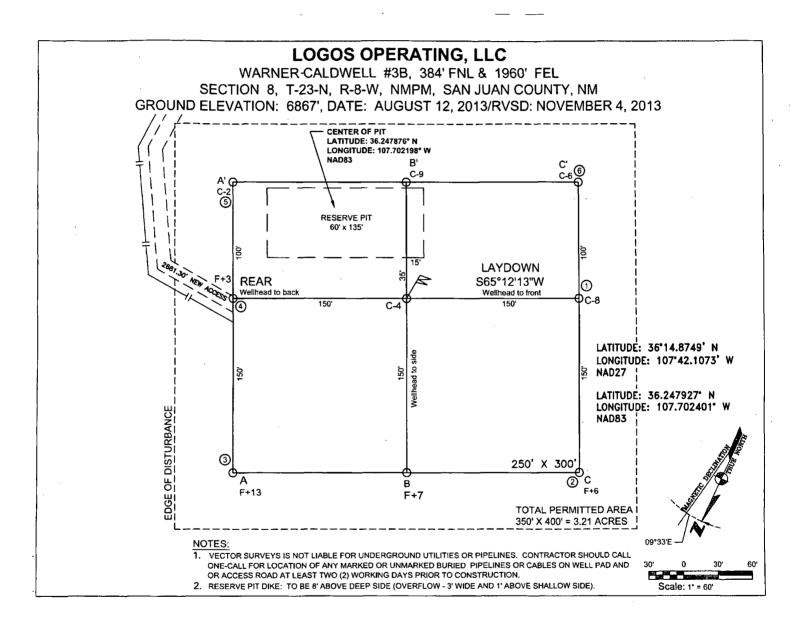
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API	Number	Pool Code Pool Name NAGEEZI GALLUP									
⁴ Property C	ode				*Property	Name			Well Number		
					WARNER -CALD	WELL			3B		
OGRID N	o .				*Operator	Name			• Elevation		
28940	8	LOGOS OPERATING, LLC 6867									
					10 Surface	Location					
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West lin	e County		
В	8	23-N	8-W		384	NORTH	1960	EAST	SAN JUAN		
			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 lin	e County		
Dedicated Acre	d Acres Doint or Infill Consolidation Code Dorder No.										
NO ALLOW	ABLE W	ILL BE A				ON UNTIL ALL EN APPROVED	INTERESTS I BY THE DIV		CONSOLIDATED		
16				1	125'33"W 262	25.35'	₽ 17 OPI	ERATOR CI	ERTIFICATION		
		F	ND BLM Y	:		FND BLM	Y	MAIOR CI	MILL TOWN		





Summary of Analytical Results Logos Operating, LLC Warner Caldwell #3B Drill Pit Closure Sampling Report San Juan County, New Mexico Project Number 12035-0052

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	Chlorides USEPA Method 300.0 (ppm)
NMOCD/RCRA Standards	NA	NA.	2500	1000	10	50	80000
Drill Pit Mud	1	5/15/2014	37600	NS	NS	NS	NS
Drill Pit Mud	2	6/20/2014	308	ND	ND	ND	2060
NMOCD/RCRA Standards	NA	NA	NA	NA	NA	NA	600
Backfill	3	7/8/2014	NS	NS	NS	NS_	22.7

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: 17117

Samples Received: 6/20/2014 4:30:00PM

Job Number: 12035-0052

Work Order: P406086

Project Name/Location: Warner Caldwell #3B

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

6/27/14

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager: Sheena Leon

27-Jun-14 11:43

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Mud	P406086-01A	Sludge	06/20/14	06/20/14	Glass Jar, 4 oz.





Project Name:

Warner Caldwell #3B

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0052 Sheena Leon Reported: 27-Jun-14 11:43

Drill Pit Mud P406086-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8021B	
Surrogate: Bromochlorobenzene		88.5 %	80-	120	1426001	06/23/14	06/26/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		90.6 %	80-	120	1426001	06/23714	06/26/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1426001	06/23/14	06/26/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1426002	06/23/14	06/24/14	EPA 8015D	





PO Box 18

Flora Vista NM, 87415

Project Name:

Warner Caldwell #3B

Project Number: Project Manager:

12035-0052

Sheena Leon

Reported:

27-Jun-14 11:43

Drill Pit Mud P406086-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis Chloride	2060	9.82	mg/kg	•	1426014	06/24/14	06/24/14	EPA 300.0	



Project Name:

Warner Caldwell #3B

Spike

Source

%REC

80-120

90,3

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager:

Reporting

45.1

44.2

12035-0052 Sheena Leon Reported: 27-Jun-14 11:43

RPD

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limis	Notes
Batch 1426001 - Purge and Trap EP.	A 5030A									
Biank (1426001-BLK1)				Prepared &	Analyzed:	23-Jun-14				
Benzene	ND	0,001	mg/kg							
Toluene	ND	0,001	•							
Ethylbenzene	ND	0.001	*							
p.m-Xylene	ND	0,001	Ħ							
o-Xylene	ND	0.001	n							
Total Xylenes	ND	0.001	*1							
Total BTEX	ND	0.001	*							
Surrogate: 1,3-Dichlorobenzene	44.5		ug/L	50.0		89.0	80-120	ha dha dha dha an dha a a dh'i a a a marainn a a adhail		
Surrogate: Bromochlorobenzene	43.8		•	50.0		87.5	80-120			
Duplicate (1426001-DUP1)	Sour	ce: P406082-	01	Prepared &	Analyzed:	23-Jun-14				
Benzene	ND	0.001	mg/kg		ND				30	
Tohiene	ND	0.001	Ħ		ND				30	
Ethylbenzene	ND	0.001	*		ND				30	
p,m-Xylene	ND	0.001			ND				30	
o-Xylene	ND	0.001	**		ND				30	
Surrogate; 1,3-Dichlorobenzene	46.2		ug/L	50.0		92,4	80-120			
Surrogate: Bromochlorobenzene	45.3		*	50.0		90.6	80-120			
Matrix Spike (1426001-MS1)	Sour									
Benzene	44,8		ug/L	50.0	ND .	89.5	39-150			
Toluene	44.9		7	50,0	ND	89.8	46-148			
Ethylbenzene	44,7		*	50,0	ND	89,3	32-160			
p,m-Xylene	88.4		•	100	ND	88,4	46-148			
o-Xylene	44,3		*	50.0	ND	88.6	46-148			

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5796 US Highway 64, Farmington, NM 87401

Surrogate, 1,3-Dichlorobenzene Surrogate: Bromochlorobenzene

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

50,0

5**0**.0

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

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





Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

27-Jun-14 11:43

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 1426001 - Purge and Trap EPA 5030A										
Blank (1426001-BLK1)				Prepared &	Analyzed:	23-Jun-14				
Gasoline Range Organics (C6-C10)	ND	0,10	mg/kg							
Duplicate (1426001-DUP1)	Sou	rce: P406082-	01	Prepared &	: Analyzed:	23-Jun-14				
Gasoline Range Organics (C6-C10)	ND	0,10	mg/kg		ΝD				30	
Matrix Spike (1426001-MS1)	Sou	rce: P406082-	01	Prepared &	: Analyzed:	23-Jun-14				
Gasoline Range Organics (C6-C10)	0.43		mg/L	0.450	ND	95.3	75-125		***************************************	



Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

27-Jun-14 11:43

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 1426002 - DRO Extraction EPA 3550C												
Blank (1426002-BLK1)				Prepared &	Analyzed:	23-Jun-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg									
Duplicate (1426002-DUP1)	Sour	ce: P406082-	01	Prepared &	Analyzed:	23-Jun-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		40.4				30	DI		
Matrix Spike (1426002-MS1)	Sour	ce: P406082-	01	Prepared: 23-Jun-14 Analyzed: 24-Jun-14								
Diesel Range Organics (C10-C28)	290		mg/L	250	38.4	100	75-125					

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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





Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

27-Jun-14 11:43

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	1413011	Cinii	Oints	- LC · Ci	103011	70020				
Batch 1426014 - Anion Extraction EPA 300.0	····									
Blank (1426014-BLK1)				Prepared &	: Analyzed:	24-Jun-14				
Chloride	ND	9.84	mg/kg							
LCS (1426014-BS1)				Prepared &	Analyzed:	24-Jun-14				
Chloride	496	9.82	mg/kg	491		101	90-110			
Matrix Spike (1426014-MS1)	Seu	rce: P406090-	OIREI	Prepared &	Analyzed:	24-Jun-14				
Chloride	500	9.89	mg/kg	494	46.7	91,8	80-120			
Matrix Spike Dup (1426014-MSD1)	Sou	rce: P406090-	OIREI	Prepared &	Analyzed	24-Jun-14				
Chloride	569	9,92	mg/kg	496	46.7	105	80-120	12.8	20	





Flora Vista NM, 87415

Project Name:

Warner Caldwell #3B

PO Box 18

Project Number: Project Manager: 12035-0052

Sheena Leon

Reported: 27-Jun-14 11:43

Notes and Definitions

D1 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

RPD

dry Sample results reported on a dry weight basis

Relative Percent Difference

17117

CHAIN OF CUSTODY RECORD

Client:	Hemo	Pro	ject Name / Location	on:	3		_				Αħ	IALY	'SIS	/ PAF	RAME	TER	s					
Email results to: S. L. L.	N		Sampler Name:									<u>s</u>				-						
Client Phone No.:		Clie	ont No.: 1202	35- (05	2	ı		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Vo of Cont		Pr HNO ₃	eserval HCI	ive Cool	тРН (BTEX	Voc (RCRA	Cation	<u></u>	TCLP	CO Ta	TPH (CHLORIDE			Samp	Ѕашр
DrillPitmud	4/06/1	13:30	P406086-01	1-4020	os jar			χ	X	X		-			_			X		_	Y	X
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Relinquished by: (Signature)	reena	Per)	Date VAIII		Recei	ived t	y: (S	ignat	ure)					7- M					Dar 6/20		Time (230)
Relinquished by: (Signature)	0	0			Received by: (Signature									i								
Sample Matrix Soil Solid Sludge	Aqueous [) Other □												_			-					
☐ Sample(s) dropped off after	hours to see	cure drop of	area.	スe	nv Anal	irc	o t	e	cr	1		7 <									-	
5795 US Highway 64	• Farminate	on, NM 8740	1 • 505-632-0615 • 1									,		iO1 •	iabo	raton	y@en	virote	ech-ine	n.	0.40	-6.40



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 17200

Samples Received: 7/8/2014 4:35:00PM

Job Number: 12035-0052 Work Order: P407035

Project Name/Location: Warner Caldwell #3B

Entire Report Reviewed By:		Date:	7/10/14
,	Tim Cain Labo	pratory Manager	

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PO Box 18

Flora Vista NM, 87415

Project Name:

Project Manager:

Warner Caldwell #3B

Project Number:

12035-0052 Sheena Leon

Reported: 10-Jul-14 10:44

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill	P407035-01A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.



PO Box 18

Flora Vista NM, 87415

Project Name:

Project Number: Project Manager: Warner Caldwell #3B

12035-0052

Sheena Leon

Reported: 10-Jul-14 10:44

Backfill

P407035-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	22.7	9.83	mg/kg	l	1428008	07/08/14	07/08/14	EPA 300.0	

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



Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

10-Jul-14 10:44

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	3 7-4
Аналус	Kezuit	Linn	Cints	Level	КСУШ	70KEC	Limits	KPD	Limit	Notes
Batch 1428008 - Anion Extraction EPA 300.0					,		 			
Blank (1428008-BLK1)				Prepared &	: Analyzed:	08-Jul-14				
Chloride	ND	9.97	mg/kg			The second second second				
LCS (1428008-BS1)				Prepared &	: Analyzed:	08-Jul-14				
Chloride	505	9,90	mg/kg	495		102	90-110			ensidede; overeren o
Matrix Spike (1428008-MS1)	Sour	ce: P407024-	01	Prepared &	Analyzed:	08-Jul-14				
Chloride	507	10.0	mg/kg	501	ND	101	80-120			
Matrix Spike Dup (1428008-MSD1)	Sou	rce: P407024-	01	Prepared &	: Analyzed;	08-Jul-14				
Chloride	504	9,91	mg/kg	496	ND	102	80-120	0.732	20	and the second of the second o





Project Name:

Warner Caldwell #3B

PO Box 18

Project Number:

12035-0052

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

10-Jul-14 10:44

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

17200

CHAIN OF CUSTODY RECORD

Client:	Din	Pr	oject Name / Locati	on: r Caldue	11#	ANALYSIS / PARAMETERS															
Email results to:	on		mpler Name:	Lion 5-0052		<i>υ</i> ι		TPH (Method 8015)	(Method 8021)	VOC (Method 8260)	Metals	Anion		th H/P	9 910-1	8.1)	DE			Cool	Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	_	eservat HCI	ive (go)	TPH (Me	BTEX (N	VOC (M	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Backfill	7/8/14	13:00	P47035-01	1-Mozglosjo	x		X										Χ			Y	Y
																				-	
						-														-	1
Relinquished by: (Signature)				Date Time	Base	ived b	(6												Da	le	Time
	leena	(14)	h)	7/8/14 16/30	nece	iveu t	.y. (3 Ll	N	روهانا	2									7/8	- 1	6:35
Relinquished by: (Signature)	2	1		Date Time Received by: (Signature) 7/8/14 1/0'30								 .	*								
Sample Matrix								tu						·							
Soil 🔯 Solid 🗌 Sludge 🗌	Aqueous [Other []																		·
Samplets) dropped off after			off area.) env							5.5		201 -	laba				1 1			5 of 6

Submit To Approp Two Copies <u>District 1</u> 1625 N. French Dr				En		State of Ne Minerals an				sources	Form 6 Revised August 1. WELL API NO.								
District II 811 S. First St., Ar District III 1000 Rio Brazos R District IV 1220 S. St. Francis	d., Aztec, 1	NM 8741			122	l Conserva 20 South S Santa Fe, 1	t. Fr	ancis	s D			30-045-355 2. Type of Le	ase	☐ F		⊠F	ED/IND	IAN	
WELL	COMP	LETI	ON OR	RECO	MPL	ETION RE	POF	RT A	ND	LOG		141107577		u de la		to the state of th		HE WY	
4. Reason for fil ☐ COMPLET ☐ C-144 CLO: #33; attach this a	ing: ION REF SURE AT nd the pla	PORT (Fill in boxe	s #1 throu	igh #31	for State and Fe	e wells	s only) g Relea	sed :	and #32 and	il/or	5. Lease Nam- WARNER-CA 6. Well Numb	LDW	/ELL	green	ment Na	ame	T. J. Sandare T. San S.	
7. Type of Comp		∃ wor	RKOVER I		ENING	□PLUGBACI	кП	DIFFF	RFN	JT RESERY	VOIF	R 🗆 OTHER			-				
8. Name of Oper	ator				2.1.1.10	Boosine	<u> </u>	<i>DII</i> 1 E	I C.	T RESER	, 011	9. OGRID					•		
LOGOS OPERA 10. Address of O	perator											289408 11. Pool name	or W	ildcat					
4001 North Butle	er Avenue	, Buildi	ing 7101 Fa	rmington,	, NM 87	401													
12.Location	Unit Ltr	Se	ection	Towns	ship	Range	Lot			Feet from	the	N/S Line	Feet from the E/W Line				ine	Count	у
Surface:				_															
BH:																			
13. Date Spudded	1 14. D	ate T.D.	Reached	15. I 3/21		Released			16.	Date Comp	letec	l (Ready to Prod	uce)			Elevat	ions (DF	and RI	ζB,
18. Total Measur	ed Depth	of Well	<u> </u>			k Measured Dep	pth		20.	Was Direc	tiona	Il Survey Made?		21.			ic and O	ther Log	s Run
22. Producing In	erval(s), o	of this c	completion	Top, Bo	ttom, Na	me								ı					
23.	ı				CAS	ING REC	ORI	D (Re	epo	ort all st	rin	gs set in we	ell)						
CASING SI	ZE	W	EIGHT LB	./FT.		DEPTH SET				LE SIZE		CEMENTIN		CORD)	AN	MOUNT	PULLE	:D
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SIZE	TOP		ВС	OTTOM	LINI	ER RECORD SACKS CEM	ENT	SCRI	EEN		25. SIZ			NG RI		JKD_	PACK	ER SET	
26. Perforation	record (ii	nterval	size and n	umber)				27 /	A C I	D SHOT	FŔ	ACTURE, CE	 MEN	JT SC	THE	FZF	FTC		
		,	,							NTERVAL		AMOUNT A							
28.							PRO	DDU	\mathbf{C}	TION					-				
Date First Produc	tion		Produ	ction Met	hod <i>(Flo</i>	owing, gas lift, p	umpin	g - Size	ano	l type pump)	Well Status	(Proc	d. or Si	hut-i	in)			
Date of Test	Hours	Tested	I C	hoke Size		Prod'n For Test Period		Oil -	ВЫ		Ga	s - MCF	W.	ater - E	3bl.		Gas - C	Oil Ratio)
Flow Tubing Press.	Casin	g Pressi		alculated our Rate	24-	Oil - Bbl.		' 	Gas -	MCF		Water - Bbl. Oil Gravity - API - (Corr.)						r.)	
29. Disposition o	f Gas (So	ld, used	for fuel, ve	nted, etc.,)						L		30. 7	est W	itnes	sed By			
31. List Attachmo	ents											I					·		
32. If a temporary	y pit was	used at	the well, at	ach a plat	with the	e location of the	tempo	orary pi	it. S	SEE ATTA	СНЕ	D							
33. If an on-site b	ourial was	used at	the well, re	port the	exact loc	ation of the on-s	site bu	rial:											
7 1 7	C .1	· · ·		1	, ,	Latitude 3	6.247	876N	Lon	gitude 107	.702	198W NAD					J h ~1:	<u> </u>	
I hereby certij	y that ti	ne info _{ }	ormation	snown (on both F	<i>i sides of this</i> Printed	jorn	ı is tri	ue c										
Signature	tare	Los	سلمع		1	Name Tamr	a Ses	ssions		Title	Op	erations Tecl	hnici	ian		Date	9/2	9/1	
E-mail Addre	ss tses	ر sions(@logosre	sources	llc.con	n											70	70	l



Pit Closure Form:
Date: 7 10/14
Well Name: WARNER-CALDWELL 3B
Footages: 384' FNL & 1960' FEL Unit Letter: B
Section: 8, T-23N, R-8W, County: SAN JUAN State: NM
Contractor Closing Pit:
Construction Inspector: Wayne Ritter
Inspector Signature: Wayneth
Date: 7-10-14

Tamra Sessions

From:

Tamra Sessions

Sent:

Thursday, June 26, 2014 2:25 PM

To:

Mark Kelly (mkelly@blm.gov)

Cc:

Jonathan Kelly (jonathan.kelly@state.nm.us); brandon.powell@state.nm.us; Wayne Ritter

(writter@logosresourcesllc.com)

Subject:

Warner-Caldwell 3B_Federal 72hr Pit Closure Notice

Please disregard previous email, I have added Wayne's phone number.

WARNER-CALDWELL 3B Federal Lease NM 109399 API #30-045-35506 UL B, Section 08, T23N, R08W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations and interim reclamation on Monday, June 30, 2014.

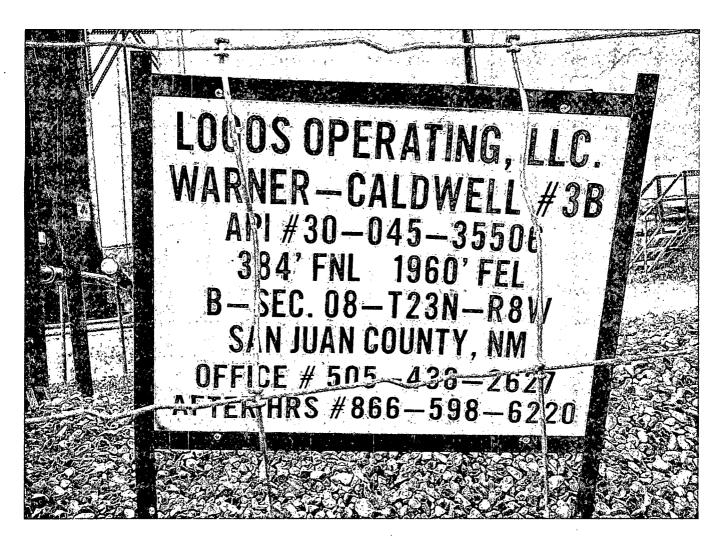
Please contact Wayne Ritter at 505-320-0436 to set up meeting prior to closure activities.

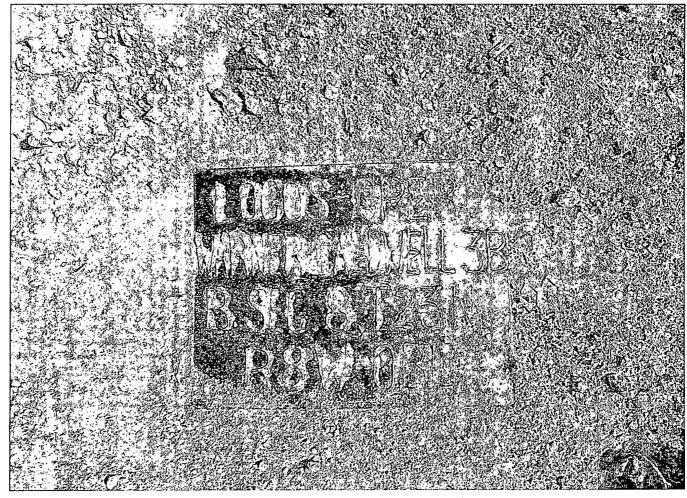
Tamra Sessions
Logos Resources, LLC
Operations Technician
tsessions@logosresourcesllc.com
(o) 505-436-3790

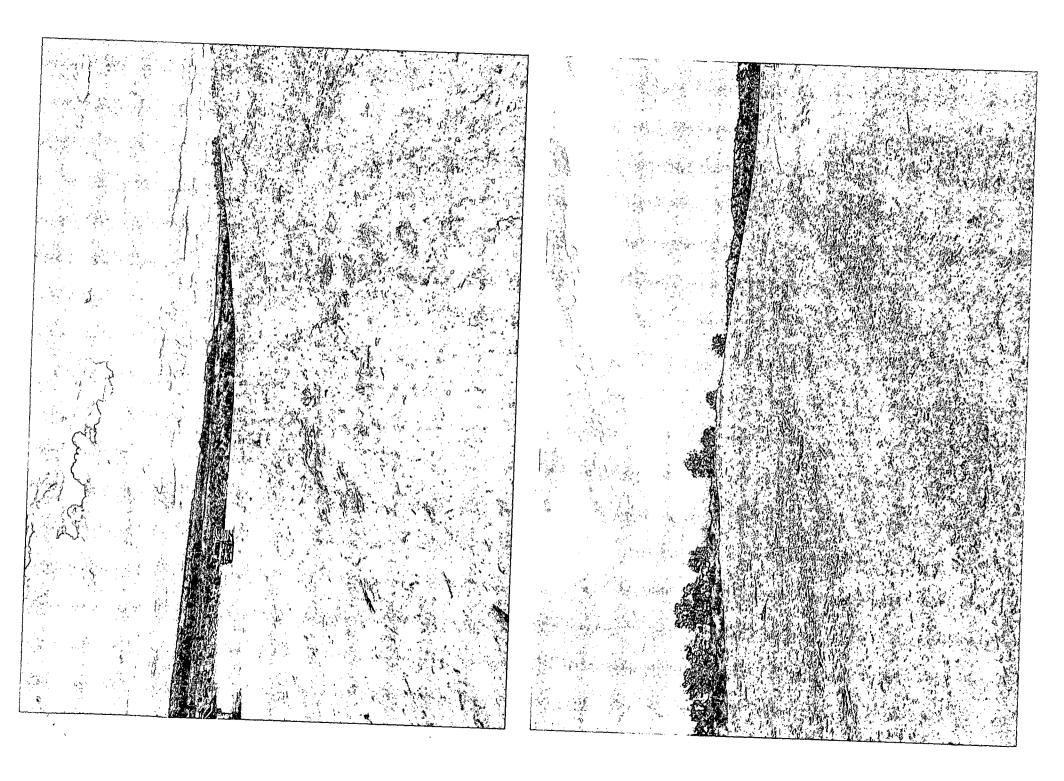
(c) 505-330-9333



Reclamation Form:					
Date:					
Well Name: <u>WARNER-CALDWELL 3B</u>					
Footages: <u>384' FNL & 1960' FEL</u> Unit Letter: <u>B</u>					
Section: <u>8</u> , T- <u>23N</u> , R- <u>8W</u> , County: <u>SAN JUAN</u> State: <u>NM</u>					
Reclamation Contractor: ACE,					
Reclamation Start Date: 6-30-14					
Reclamation Complete Date: 7-19-14					
Road Completion Date: 7-1.9-14					
Seeding Date: Fall 2014					
PIT MARKER STATUS					
(When Required) Picture of Marker set needed					
Date Marker Placed: $8-25-14$					
Latitude: 36.247876N.					
Longitude: 107.702198 W.					
Date Pit Manifold Removed: <u>N/A</u>					
Construction Inspector Signature: Wayelle					
Date Inspected: $\frac{\sqrt{ I /4}}{ I /4}$					







		······································	Tempor	ary Pit Wee	kly Inspecti	on Form						
WELL NAME:	WARNER-CALDW	ELL 3B		API NO:	30-045-35506							
LEGALS:	Section:		Township:		Range:							
Drilling RD Date:	3/21/2014											
	DANGEY	IDANACEV.	DANIES V	In a seesy	In a serv	leasey.						
Inspector's Name	1	1	RAMSEY			CASEY						
WEEK #	TATALIE 1	TATALIE 2	HATALIE 3	HATALIE 4	HATALIE 5	RUDGLEY 6	7	8		9 10	11	12
DATE	04/15/14	04/22/14			05/21/14			°	 	3 10	 	12
Well sign on location	04/13/14	04/22/14	04/28/14	03/13/14	03/21/14	00/11/14			-		 	
(Y/N)	Υ	Υ	Υ	Υ	Υ	Y						
Any liner breeches												
(Y/N)	N	N	N	N	N	N						
Any fluid seeps/spills												
(Y/N) HC's on top of temp.	N	N	N	N	N	N					<u> </u>	
pit (Y/N)	N	N	N	N	N	N	1					
Temp pit free of miso		110	14	14	IN	IN				 		
Solid	~											
Waste/Debris(Y/N)	Y	Y	V V	l _v	Y	l _v						
Discharge Line	,	-	,			<u>'</u>		1	 			
Integrity Good (Y/N)	N	N	N	N	N	Υ						
Fence Integrity Good	l											
(Y/N) Any Dead Wildlife/	Υ	Y	Y	Υ	Υ	Υ					ļ	
Stock (Y/N)	N	N	N	N	N	N						
Freeboard to be 2' or	- 11	-	14			14						
> Est. (ft) Was the OCD	Y (14')	Y (14')	Y (14')	Y (15')	Y (16')	Y	1		<u> </u>			
contacted (Y/N)	N	N	N	N	N	N	•		1			
								,				
Pictures taken (Y/N)	Υ	Υ	Y	Υ	Υ	Υ						
						-			 	-		
										-		
												1
Comments:						20' FROM						
						THE SURFACE						
						TO MUD.				-[
		1				MUD STILL				İ]
.		l		l		WET NOT		ļ		Į.		
	14'	14'	14'	15'	16'	READY TO						1
	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE	FILL						



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

Fax: (505) 832-3095

Date: September 30, 2014

To: NMOCD

Re: Pit Closure Filings for WPX

Dear NMOCD,

Logos Operating, LLC (289408) is filing this pit closure report on behalf of the new operator, WPX Energy Production, LLC (120782), as part of a transition service agreement between Logos and WPX.

Regards,

Jarnie Goodwin

Regulatory Technician



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

Fax: (505) 832-3095

Date: October 21, 2014

To: NMOCD

OIL CONS. DIV DIST. 3

OCT 2 2 2014

Re:

Closure Permit #12237 Warner Caldwell 3B API 30-045-35506

Dear NMOCD,

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

• No copy of Final 418.1 sample results included with permit.

o Please find attached the Final 418.1 sample results.

Regards,

Jamie Goodwin

Regulatory Technician

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Logos Operating

Drill Pit Mud

Project #:

12035-0052

Sample No.:

1

Date Reported:

7/22/2014

Sample ID: Sample Matrix:

Soil

Date Sampled:

6/20/2014

Preservative:

Cool

Date Analyzed: Analysis Needed: 6/20/2014 TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

308

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:

Warner Caldwell #3B

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

Analyst

Review

Sheena Leon

Printed

Toni McKnight, EIT

Printed

CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

Toni McKnight, EIT

Print Name

20-Jun-14

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	207	
	500		
	1000		

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

Moona Down	7/22/2014
Analyst	Date
Sheena Leon	
Print Name	
Jani Illian	7/22/2014
Řeview	Date