District 1
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.

	<u>Pit, Below-Grade Tank,</u>	<u>or</u>
2236	Proposed Alternative Method Permit or Clo	Sur

Proposed Alternative Method Permit or Closure Plan Applic	<u>ation</u>
Type of action: Below grade tank registration Permit of a pit or proposed alternative method	RCUD SEP 30 '14 DIL CONS. DIV.
2/5-35505	DIST. 3
Closure plan only submitted for an existing permitted or non-permitted or proposed alternative method	pit, below-grade tank,
	Manus adina magnasad
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or a	•
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of sur- environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authors.	ority'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 1A	
API Number: 30-045-35505 OCD Permit Number: 11732	
U/L or Qtr/Qtr _A Section8 Township _23N Range8W Cot	unty: SAN JUAN
Center of Proposed Design: Latitude36.247976NLongitude107.696682W	
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
2.	
☑ <u>Pit</u> : Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Dril	
☐ 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 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	<del></del>
Liner type: Thicknessmil  HDPE PVC Other	
4. Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	e 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 reinstitution or church)	esidence, school, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
□ Alternate Please specify	

Oil Conservation Division

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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC  Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - □ NM Office of the State Engineer - iWATERS database search; □ 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. ( <b>Does not apply to below grade tanks</b> )  - 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
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	☐ Yes ☐ No					
Temporary Pit Non-low chloride drilling fluid						
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No					
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Permanent Pit or Multi-Well Fluid Management Pit						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No					
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site						
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	☐ Yes ☐ No					
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NInstructions: 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   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.12 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: or Permit Number:	NMAC 15.17.9 NMAC					
II.						
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 docattached.  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	.15.17.9 NMAC					
Previously Approved Design (attach copy of design) API Number: or Permit Number:						

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	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 H <sub>2</sub> S, 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 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	Iluid Management Pit						
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 sou 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						
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						
ithin 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa ke (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site  Topographic map; Visual inspection (certification) of the proposed site							
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							

- 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
16.	
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.  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	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
Signature: Date:   e-mail address: Telephone:	
e-mail address:	7/gol <sup>U</sup> the closure report.
e-mail address:	T/QOIH  the closure report. complete this

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure repo- belief. I also certify that the closure complies with all applicable closure requiremen	
Name (Print): Jamie Goodwin	Title: Regulatory Tech.
Signature: Amie Goodwe	Date: 9/30/14
e-mail address JGoodwin@logosoperating.com	Telephone: 505-330-9333

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

Lease Name: Warner-Caldwell 1A

API NO: 30-045-35505

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Logos Operating, LLC (Logos) locations. This is Logos' standard procedure for all temporary pits. A Separate plan will be submitted for any temporary pit that does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of the pit closure. Closure report will be filed on C-144 and incorporated the following:

- Detail on Capping and Covering, where applicable (See report)
- Plot Plan (Pit diagram) (Included as an attachment)
- Inspection reports (Included as an attachment)
- Sampling Results (Included as an attachment)
- C-105 (Included as an attachment)
- Copy of Deed Notice will be filed with County Clerk (Not required on Federal, State or Tribal land as stated by FAQ dated October 30, 2008)

#### General Plan

1 All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.

All recovered liquids were disposed of at Basin Disposal (permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B.

2 The preferred method of closure for all temporary pits will be on-site burial, assuming that all criteria listed in sub-section (D) of 19.15.17.13 are met.

The pit was closed using onsite burial.

3 The surface owner shall be notified of Logos proposed closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested.

The closure process notification to the landowner was sent via 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:
  - 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.

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).

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 1A

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

API#: 30-045-35505

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: 3/19/14 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:

Mark Kelly (mkelly@blm.gov)

Cc:

Kristina Graham; Wayne Ritter

Subject:

Warner-Caldwell 1A\_Surface Owner Notification for Temporary Pit 02-13-14

Warner-Caldwell 1A A, 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 M. French Dr., Hobbs, NM. 68240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fex: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Asteo, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-8170 DISTRICT IV

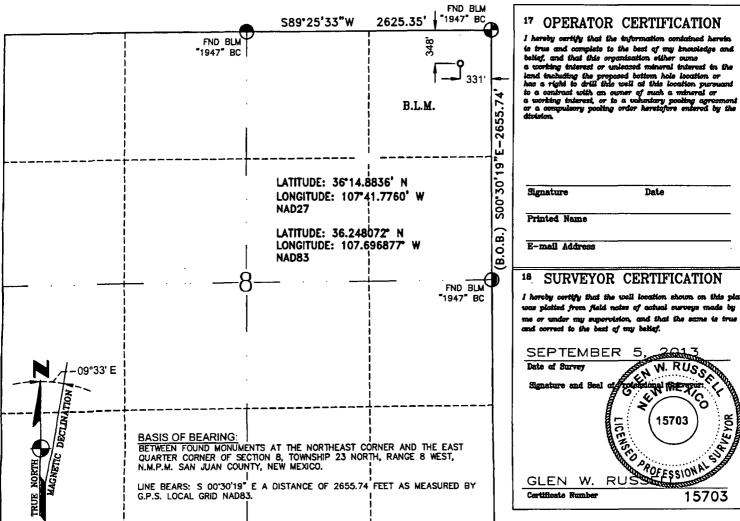
#### State of New Mexico Energy, Minerals & Natural Resources Department

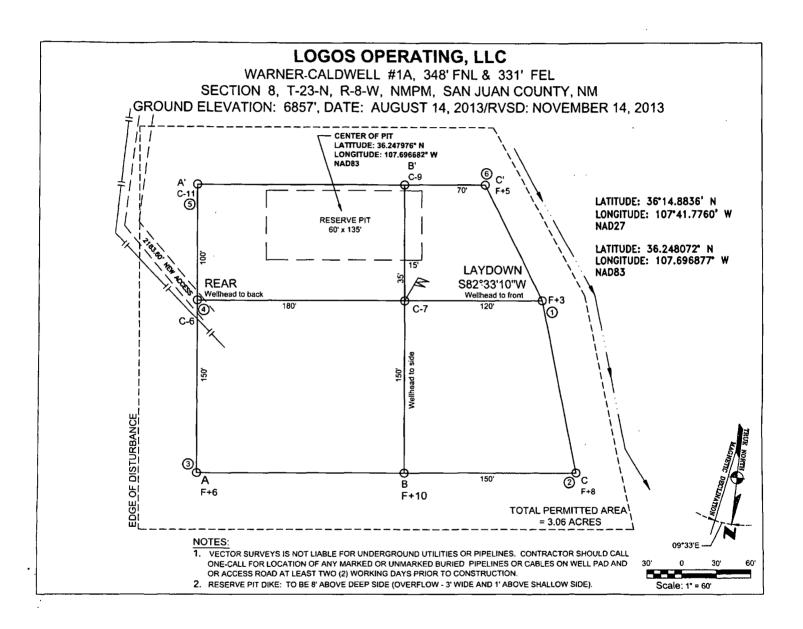
#### OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

15703

20 S. St. Francis D cons: (505) 476–346											AMEI	NDED REPOR
		W	ELL L	OCATIO	N AND	AC	REAGE DED	CATIC	N P	LAT		
1 API	Number			Pool Code				•1	ool Nam	16		
		NAGEEZI GALLUP										
<sup>4</sup> Property C	ode		<sup>6</sup> Property Name						ell Number			
		_			WARNER -	WARNER - CALDWELL 1A						1A
OGRID NO	· .				•Оре	rator	Name				1	Elevation
289408	3			L	OGOS OP	ERAT	ING, LLC					6857'
					10 Surfa	ace	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet fro	m the	East/West	line	County
A	8	23-N	8-W		348		NORTH	33	1	EAS1	Ī	SAN JUAN
			11 Bott	om Hole	Location	on I	f Different Fro	om Sui	face			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet fro	ns the	East/West	line	County
Dedicated Acre	19	<u> </u>	18 Joint or	lnfill	<sup>14</sup> Consolida	tion (	I Code	n Order	No.	<u> </u>		
NO ALLOW	ABLE W						ON UNTIL ALL CEN APPROVED	BY T			EN C	ONSOLIDATE
				\$89*2	25'33"W	26	25.35' 1947" BC	<b>2</b> 1	OPI	ERATOR	CERT	TIFICATION
			ND BLM				331 B.L.M.	74. e	true and slief, and working and includes as a right	i complete to that this organization unditing the proposition desired their street to drill this street to drill t	the best o missition leased mi sed botton well at ti	ion contained herein if my knowledge and either owns incred interest in the hole location or his location pursuant in a mineral or any pooling agreeme stafore entered by the process of the increase in the process of the process of the the process of the process of the process of the the process of the process of





Summary of Analytical Results Logos Operating, LLC Warner Caldwell #1A Drill Pit Closure Sampling Report San Juan County, New Mexico Project Number 12035-0051

Sampl <b>e Descri</b> ption	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Method 8021	BTEX USEPA Method 8021 (ppm)	Chlorides USEPA Method 300.0 (ppm)
NMOCD/RCRA Standards	NA.	NA	2500	1000	10	50	80000
Drill Pit	1	6/20/2014	3870	NS	NS	NS	NS
Drill Pit	1	7/8/2014	308	75.72	ND	ND	1420
NMOCD/RCRA Standards	NĀ:	NA	NA	NA	NA	NA.	600
Backfill	2	7/8/2014	NS	NS	NS	NS	11.3

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

<sup>\*</sup> Values in **BOLD** above regulatory standards



#### **Analytical Report**

#### **Report Summary**

Client: Logos Operating, LLC

Chain Of Custody Number: 17202

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

Job Number: 12035-0051 Work Order: P407039

Project Name/Location: Warner Caldwell #1A

Entire Report Reviewed By:

Date:

7/16/14

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.

Tim Cain, Laboratory Manager



Project Name:

Warner Caldwell #1A

PO Box 18

Project Number: Flora Vista NM, 87415 Project Manager: 12035-0051 Sheena Leon Reported:

16-Jul-14 14:47

#### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill	P407039-01A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.
Drill Pit	P407039-02A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.



Flore Vista NM, 87415

PO Box 18

Project Name: Warner Caldwell #1A

Project Number: Project Manager: 12035-0051 Sheena Leon

Reported:

16-Jul-14 14:47

#### Backfill

#### P407039-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	11.3	9.81	mg/kg	1	1428021	07/09/14	07/09/14	EPA 300.0	



Project Name:

Warner Caldwell #1 A

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0051 Sheena Leon Reported:

16-Jul-14 14:47

#### Drill Pit P407039-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/14/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428015	07/09/14	07/14/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/14/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	ı	1428015	07/09/14	07/14/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/14/14	EPA 8021B	
Total Xylenes	ND	0.001	mg/kg	0.02	1428015	07/09/14	07/14/14	EPA 8021B	
Total BTEX	ND	0.001	mg/kg	0.02	1428015	07/09/14	07/14/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %	80	-120	1428015	07/09/14	07/14/14	EPA 8021B	
Surragate: 1,3-Dichlorobenzene		103 %	80	-120	1428015	07/09/14	07/14/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	0.12	0.10	mg/kg	0.02	1428015	07/09/14	07/14/14	EPA 8015D	
Diesel Range Organics (C10-C28)	75.6	29.9	mg/kg	1	1428016	07/09/14	07/09/14	EPA 8015D	
Cation/Anien Analysis									
Chloride	1420	9.95	mg/kg	l	1428021	07/09/14	07/09/14	EPA 300.0	



PO Box 18

Flora Vista NM, 87415

Project Name:

t Name:

Warner Caldwell #1A

Spike

Project Number:
Project Manager:

Reporting

12035-0051 Sheena Leon Reported:

RPD

%REC

16-Jul-14 14:47

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Limit	Units	Level	Result	%REÇ	Limits	RPD	Limit	Note
Batch 1428015 - Purge and Trap EPA 50	30A									
Blank (1428015-BLK1)				Prepared &	: Analyzed:	09-Jul-14				
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	*							
Ethylbenzene	ND	0.05	•							
o.m-Xylene	ND	0.05	R							
-Xylene	ND	0.05	n							
Total Xylenes	ND	0.05	n							
Total BTEX	ND	0.05	a							
Surrogate: 1,3-Dichlorobenzene	46.8		ug/L	50.0		93.7	80-120			
Surrogate: Bromochlorobenzene	45.8		•	50.0		91.6	80-120			
Duplicate (1428015-DUP1)	Source	e: P407033-	<b>0</b> 1	Prepared &	Analyzed:	09-Jul-14				
Benzene	ND	0.05	mg/kg		ND				30	
Cohiene	ND	0.05	•		ND				30	
Ethylbenzene	ND	0.05	п		ND				30	
o,m-Xylene	ND	0.05	•		ND				30	
-Xylene	ND	0.05			ND				30	
urrogate: 1,3-Dichlarobenzene	47.6	***************************************	ug/L	50.0		95.2	80-120			
turrogaie: Bromochlarobenzene	48.5		•	50.0		97.1	<i>80-120</i>			
4atrix Spike (1428015-MS1)	Sourc	e: P407033-	01	Prepared &	Analyzed:	09-Jul-14				
Senzene	49.2		ug/L	50.0	ND	98.4	39-150			
'oluene	49.1			50.0	ND	98.3	46-148			
ihylbenzene	49.0		*	50.0	ND	98.0	32-160			
,m-Xylene	95.0		P	100	ND	95.0	46-148			
-Xylene	50.4			50.0	ND	101	46-148			
urrogate: 1,3-Dichlorobenzene	50.8		N	50.0		102	80-120			
urrogate: Bromochlorobenzene	52.I		*	50.0		104	80-120			

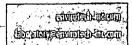
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

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 #1A

PO Box 18

Project Number:

12035-0051

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

16-Jul-14 14:47

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1428015 - Purge and Trap EPA 5030A										
Blank (1428015-BLK1)				Prepared &	Analyzed:	09-Jul-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1428015-DUP1)	Sou	rce: P407033-	<del>0</del> 1	Prepared &	Analyzed:	09-Jul-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1428015-MS1)	Som	rce: P407033-	01	Prepared &	Analyzed:	09-Jul-14				
Gasoline Range Organics (C6-C10)	0.38		mg/L	0.450	ND	84.9	75-125			



Project Name:

Warner Caldwell #1A

PO Box 18

Project Number: Flora Vista NM, 87415 Project Manager: 12035-0051

Reported:

Sheena Leon

16-Jul-14 14:47

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

ł		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1428016 - DRO Extraction EPA 3550	м									
Blank (1428016-BLK1)				Prepared &	Analyzed:	09-Jul-14				
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1428016-DUP1)	Sour	ce: P407034-	01	Prepared &	Analyzed:	09-Jul-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1428016-MS1)	Sour	ce: P407034-	01	Prepared &	: Analyzed:	09-Jul-14				
Diesel Range Organics (C10-C28)	237		ing/L	250	15.7	88.6	75-125			

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

5796 US Highway 64, Farmington, NM 87401

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

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

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





Flora Vista NM, 87415

PO Box 18

Project Name:

Warner Caldwell #1A

Project Number: Project Manager:

12035-0051 Sheena Leon Reported:

16-Jul-14 14:47

#### Cation/Anion Analysis - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1428021 - Anion Extraction EPA 300.0										
Blank (1428021-BLK1)				Prepared &	Analyzed	09-Jul-14				
Chloride	ND	9.92	mg/kg							
LCS (1428021-BS1)				Prepared &	Analyzed:	09-Jul-14				
Chloride	482	9.85	mg/kg	493		97.9	90-110			
Matrix Spike (1428021-MS1)	Som	rce: P407036-	-01	Prepared 8	Analyzed:	09-Jul-14				
Chloride	514	9.95	mg/kg	498	20.4	99.3	80-120			
Mutrix Spike Dup (1428021-MSD1)	Sou	rce: P407036-	01	Prepared &	Analyzed:	09-Jul-14				
Chloride	514	9.89	mg/kg	495	20.4	99.8	80-120	0.0927	20	



Flora Vista NM, 87415

Project Name:

Warner Caldwell #1A

PO Box 18

Project Number: Project Manager: 12035-0051 Sheena Leon Reported:

16-Jul-14 14:47

#### **Notes and Definitions**

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

Not Kepon

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

### CHAIN OF CUSTODY RECORD

17202

Client:	phine	Pro	ject Name / Location	on:	的一种	112			· ANALYSIS / PARAMETERS													
Email results to S. D. D.	ea)	Sar	noler Name: 🔷						(2)	021)	60)											T
Client Phone No.:			ent No.: lao?	355-	0051	•	*		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	18.1)	RIDE			Cool	) Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume ntainers	Pr HNO <sub>3</sub>	eservat HCI	ive Optil	TPH (A	втех	voc (I	RCRA	Cation	RCI	TCLP	CO Tat	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Backfill	7/8/14	13:10	P407039-01	Has	VES JOY			イ										X			Y	<u> </u>
DrivPit	7/8/14	13:00	P407039-81 P407639-02	1-412	Jasjar Jasjar	ļ		1	x	X								X			Y	<u>'   Y  </u>
	·										ļ										igg	_
						-	'					ļ									-	_
												 		ļ				-			-	-
								$\vdash$	-	_	-						<u> </u>				-	
						-																
							<u> </u>	<del> </del>			_										-	
					<del></del>	<del> </del>												1			╁	
Relinquished by: (Signature)	ona	lan		Date	Time	Rece	ived I	x: (S	ignat	ture)	)		· · · ·	<u> </u>	1	ł			J	7/8/		Time
Relinquished by: (Signature)	6 (	)			·	Rece	ived l	by: (S	ignat	erfe)									•			
Sample Matrix Soll X Solid Sludge	Aqueous [	] Other [						<del></del>						<u> </u>					<del></del>			
☐ Sample(s) dropped off after	hours to se	cure drop of			env And							1.2				_						

Submit To Appropria Two Copies <u>District 1</u> 1625 N. French Dr.,				En		State of Ne Minerals an								orm C-105 ugust 1, 2011		
District II 811 S. First St., Arte District III 1000 Rio Brazos Rd. District IV 1220 S. St. Francis D	., Aztec, l	NM 87410	05			l Conserva 20 South S Santa Fe, 1	t. F	rancis			30-045-35.  2. Type of L  STA  3. State Oil of	505 ease	☐ FE		FED/IND	IAN
				DECC	MDI	ETION RE			DIOC		NM109399		٠.		transfer to	
4. Reason for filin  COMPLETIC  C-144 CLOSU #33; attach this and	g: ON REF URE AT	PORT (Fill	in boxes	s #1 throu	ugh #31	for State and Fe	e wel	ls only)	d and #32		5. Lease Nan WARNER-C. 6. Well Num	ne or l	Jnit Agr VELL			1 2 2
<ol> <li>Type of Complex</li> <li>NEW W</li> </ol>	etion: ELL [					□PLUGBAC				ERVOIF						
8. Name of Operate LOGOS OPERAT		.C									9. OGRID 289408					
10. Address of Ope 4001 North Butler	erator	-	7101 Fai	mington	, NM 87	401					11. Pool name	or W	/ildcat			•
12.Location Surface:	Unit Ltr	Secti	o <b>n</b>	Towns	ship	Range	Lot		Feet fro	om the	N/S Line	Fee	t from th	e E/W	Line	County
BH:							-		ļ	<del>.</del>				<u> </u>		
13. Date Spudded	14. D	ate T.D. R	eached	15. I 03/2		Released	l	16	5. Date Co	ompleted	(Ready to Prod	duce)		17. Eleva RT, GR,		and RKB,
18. Total Measured	Depth	of Well		19. I	Plug Bac	ck Measured Dep	pth	20	). Was Di	irectiona	l Survey Made	?				ther Logs Run
22. Producing Inter	rval(s), o	of this com	pletion -	Top, Bo	ttom, Na	ame							I			
23.					CAS	ING REC	OR	D (Rep	ort all	string	gs set in w	ell)				
CASING SIZI	E	WEIC	HT LB.			DEPTH SET			OLE SIZI		CEMENTIN		CORD	A	MOUNT	PULLED
													-			
					<u> </u>	- DECCE				<del>- 1</del>				<u></u>		
SIZE	ТОР		ВО	TTOM	LINI	ER RECORD SACKS CEM	ENT	SCREE	N	25. SIZ			NG REG EPTH SI		PACKI	ER SET
26. Perforation re	ecord (ir	nterval size	and nu	mher)		<u> </u>		27 40	ID SHO	OT ED	ACTURE, CE	MEN	IT SOI	IEE7E	ETC	
20. Terroration is	cora (ii	itei vai, sizi	, and no	mocry					INTERV		AMOUNT A					-
											<u> </u>					
28.						•	PRO	ODUC	TION	Г						
Date First Production	o <b>n</b>	1.45.15	Produc	tion Metl	hod (Flo	wing, gas lift, pi					Well Status	(Pro	d. or Shu	ıt-in)		
Date of Test	Hours	Tested	Ch	oke Size		Prod'n For Test Period		Oil - Bb	ıl	Gas	s - MCF	W.	ater - Bb	ıl.	Gas - C	Pil Ratio
Flow Tubing Press.	Casing	g Pressure		lculated 2 ur Rate	24-	Oil - Bbl.		Gas	- MCF		Water - Bbl.		Oil Gr	avity - A	PI <i>- (Cori</i>	r.)
29. Disposition of C	ias (Sol	d, used for	fuel, ven	ted, etc.)								30. T	est Witr	essed By	,	
31. List Attachmen	ts															
32. If a temporary p	oit was u	ised at the	well, atta	ich a plat	with the	e location of the	tempo	orary pit.	SEE AT	ГАСНЕ	D					
33. If an on-site bur	rial was	used at the	well, rep	oort the e	xact loc					T	4- 107 (0((0)	337	NI A PO	1002 100	20	
I hereby certify	that th	ne inform	ation s	hown o	n both	Latitude 3 sides of this					de 107.696682 to the best o			1927 198 Edge an		•
Signature /	m	Jen			F	Printed Name Tamra	-			-	ntions Techn	-		-	9/29,	
E-mail Address	tsess	ions@lo	gosres	ourcesl	lc.com											



Pit Closure Form:
Date:
Well Name: WARNER CALDWELL 1A
Footages: 348' FNL & 331' FEL Unit Letter: A
Section: <u>8</u> , T- <u>23N</u> , R- <u>8W</u> , County: <u>SAN JUAN</u> State: <u>NM</u>
Contractor Closing Pit:
Construction Inspector:
nspector Signature: Warm Att
Date:

#### **'Tamra Sessions**

From: Tamra Sessions

**Sent:** Thursday, July 10, 2014 7:53 AM **To:** Mark Kelly (mkelly@blm.gov)

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

(writter@logosresourcesllc.com); Sheldon Montoya (smontoya@logosresourcesllc.com)

**Subject:** Warner-Caldwell 1A\_Federal Pit Closure 72hr notice

WARNER-CALDWELL 1A Federal Lease NM 109399 API #30-045-35505 UL A, Section 08, T23N, R08W

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations and interim reclamation on Monday, July 14, 2014.

BLM please contact Sheldon Montoya at 505-320-2857 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

#### **'Tamra Sessions**

From:

Tamra Sessions

Sent:

Thursday, July 10, 2014 1:36 PM Bob Switzer (rswitzer@blm.gov)

To: Cc:

Sheldon Montoya (smontoya@logosresourcesllc.com); Wayne Ritter

(writter@logosresourcesllc.com)

Subject:

Warner-Caldwell 1A\_Interim Reclamation Onsite Request

WARNER-CALDWELL 1A Federal Lease NM 109399 API #30-045-35505 UL A, Section 08, T23N, R08W

Logos Operating is requesting an onsite for interim reclamation and would like to meet on Monday, July 14, 2014. Please contact Sheldon Montoya at 505-320-2857 to set up meeting.

Tamra Sessions Logos Resources, LLC Operations Technician tsessions@logosresourcesllc.com (o) 505-436-3790 ext 103

(c) 505-330-9333



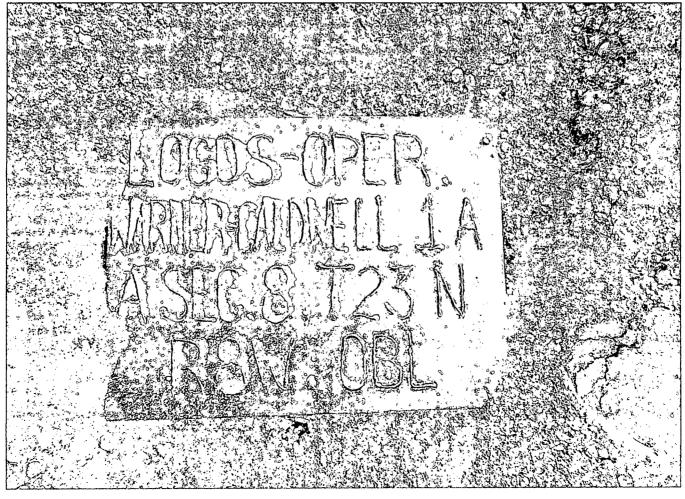
### **Reclamation Form:** Date: 8-574 Well Name: WARNER CALDWELL 1A Footages: 348' FNL & 331' FEL Unit Letter: A Section: 8, T-23N, R-8W, County: SAN JUAN State: NM Reclamation Contractor: TO Ritter Reclamation Start Date: 7-14-14 Reclamation Complete Date: 8574 Road Completion Date: 8-5-14 Seeding Date: Foll 2014 PIT MARKER STATUS (When Required) Picture of Marker set needed Date Marker Placed: 8-25-14 Latitude: 36,247976 Longitude: 107, 696682

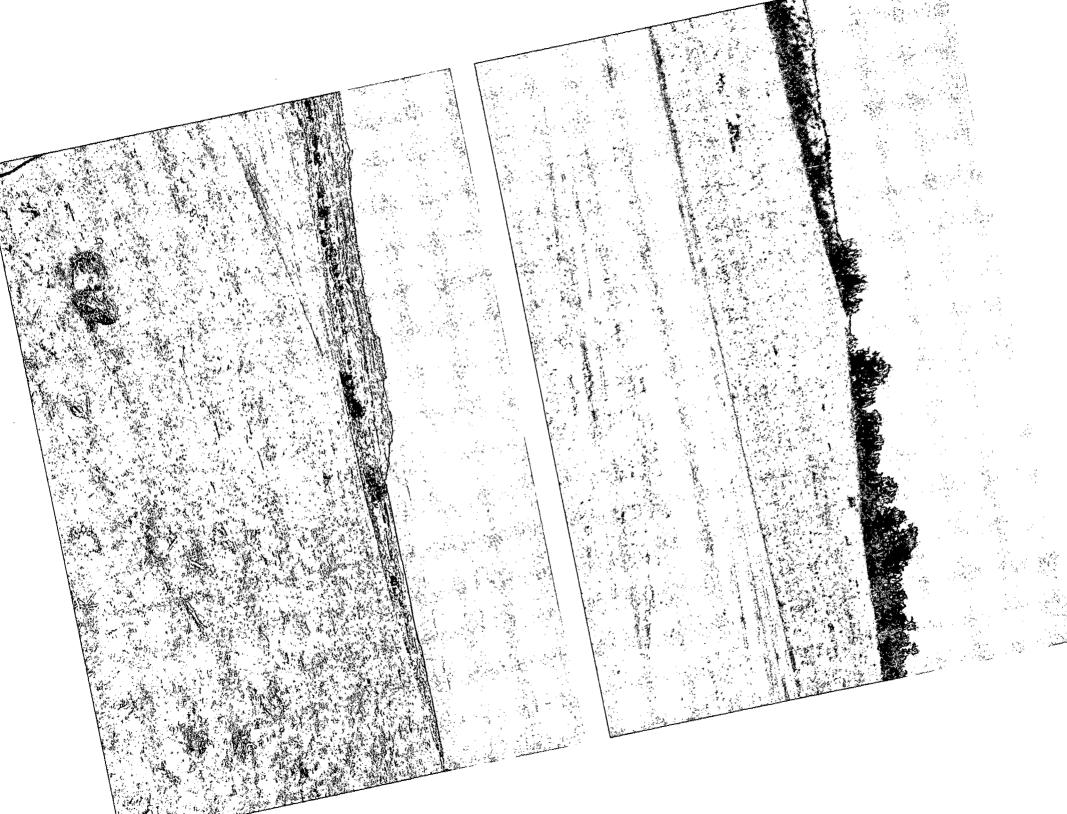
Date Pit Manifold Removed: N/A

Construction Inspector Signature: Waryl Other

Date Inspected: 8/5/14







			Tempor	ary Pit Wee	kly Inspecti	on Form						
WELL NAME:	WARNER-CALDW	ELL 1A		API NO:	30-045-35505							
LEGALS:	Section:		Township:		Range:							
Drilling RD Date:	3/29/2014											
		<b></b>										
	RAMSEY		RAMSEY	I	RAMSEY	RAMSEY						
Inspector's Name	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE						
WEEK#	1	2				<del></del>		8	;	9 10	11	12
DATE Well sign on location	04/15/14	04/22/14	04/28/14	05/13/14	05/21/14	06/11/14						
(Y/N)	Y	l,	l,	<sub>Y</sub>	Y	\ <u></u>						
Any liner breeches	1	T	1	1	T	T						
(Y/N)	N	N	N	<sub>N</sub>	N	N						
Any fluid seeps/spills		114	114		11	IN .					-	<del></del>
(Y/N)	N	N	N	N	N	N						
HC's on top of temp.												
pit (Y/N)	N	N	N	N	N	N						
Temp pit free of misc	.											
Solid												
Waste/Debris(Y/N)	Y	Υ	Υ	Υ	Υ	N						
Discharge Line	<b>.</b>	<b>.</b>	<b> </b>	l		l.,						
Integrity Good (Y/N) Fence Integrity Good	N	N	N	N	N	Υ				-		
(Y/N)	lγ	<sub>v</sub>	l <sub>v</sub>	l <sub>v</sub>	l <sub>Y</sub>	l <sub>v</sub>						
Any Dead Wildlife/			,		,							_
Stock (Y/N)	N	N	N	N	N	N					1	
Freeboard to be 2' or												
> Est. (ft) Was the OCD	Y (15')	Y (14')	Y (15')	Y (16')	Y (15')	Υ				_		
contacted (Y/N)	l <sub>N</sub>	N.	ļ.,	<b>.</b>	,	<b> </b>						
contacted (1/N)	N .	N	N	N	N	N				<del>                                     </del>	+	
Pictures taken (Y/N)	lγ	l <sub>Y</sub>	lγ	lγ	l <sub>Y</sub>	Y						
							-					
												-
	İ									1		
						5 GALLON						
Comments:						BUCKET IN						
						PIT/MUD						
						STILL WET,						
						NOT READY						
						TO FILL/19'						
<b>.</b>	15'	14'	15'	16'	15'	FROM MUD						
· ,		CLEARANCE		CLEARANCE								
· 42	CLEARAINCE	CLEARAINCE	CLEARANCE	CLEARAINCE	CLEARANCE	I TO SURPACE		I	L			C. L



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,

Jaznie Goodwin

**Kegulatory Technician** 



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

Fax: (505) 832-3095

Date: October 21, 2014

To: NMOCD

Re:

Closure Permit #12236 Warner Caldwell 1A API 30-045-35505

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,

Yamie Goodwin

Regulatory Technician

#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

**Logos Operating** 

Project #:

12035-0051

Sample No.:

1

Date Reported:

7/21/2014

Sample ID:

Drill Pit

.

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

7/8/2014 7/8/2014

Preservative:

Cool

Analysis Needed:

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 #1A

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:

8-Jul-14

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

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

Theona Deva	7/21/2014	
Analyst	Date	
Sheena Leon Print Name		
Tom Metros D	7/21/2014	
Review	Date	

Toni McKnight, EIT

Print Name