District I. 1625 N. French Dr., Hobbs, NM 88240 311 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
12235 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
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: JICARILLA O 3E
API Number: 30-043-21165 OCD Permit Number:
U/L or Qtr/QtrO Section10Township22N Range3W County: SANDOVAL
Center of Proposed Design: Latitude36.146806° NLongitude107.140858° W NAD: ☐1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Temporary: ☐ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management
Below-grade tank: Subsection I of 19.15.1 Volume:
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.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet

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

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.16.8 NMAC	
8.	
<u>Variances and Exceptions:</u> 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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
· · · · · · · · · · · · · · · · · · ·	T
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	NA NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.	☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
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	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)	Yes No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	
Within an unstable area. (Does not apply to below grade tanks)	☐ Yes ☐ No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain. (Does not apply to below grade tanks)	☐ Yes ☐ No
- FEMA map	
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	☐ Yes ☐ No
from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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.)	Yes No
- Topographic map: Visual inspection (certification) of the proposed site	
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Temporary Pit Non-low chloride drilling fluid							
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Permanent Pit or Multi-Well Fluid Management Pit							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:							
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:	15.17.9 NMAC						

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 H ₂ 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	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							
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attached to the						
closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
15.							
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sout 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							
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							

dopted 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 an	d Mineral Division	☐ Yes ☐ No							
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 									
Within a 100-year floodplain.		☐ Yes ☐ No							
- FEMA map		Yes No							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the fee by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate requirements of Surface Owner Notice - based upon the appropriate of a drying pad) Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) Protocols and Procedures - based upon the appropriate requirements of 19.15.17 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19. Waste Material Sampling Plan - based upon the appropriate requirements of 19. Soil Cover Design - based upon the appropriate requirements of Subsection H of Re-vegetation Plan - based upon the appropriate requirements of Subsection H of Site Reclamation Plan - based upon the appropriate requirements of Subsection	ements of 19.15.17.10 NMAC bsection E of 19.15.17.13 NMAC priate requirements of Subsection K of 19.15.17 based upon the appropriate requirements of 19.13.13 NMAC ements of 19.15.17.13 NMAC 15.17.13 NMAC cuttings or in case on-site closure standards cannot 19.15.17.13 NMAC of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC							
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate as	nd complete to the best of my knowledge and beli	ef.							
Name (Print): Title:									
Signature:	Date:								
e-mail address:	Telephone:								
OCD Approval: Permit Applicati	OCD Conditions (see attachment)								
OCD Representative Signature: UENIEU	Approval Date:								
Title:	ermit Number:								
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 06/19/14									
20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative If different from approved plan, please explain.	Closure Method Waste Removal (Closed-lo	op systems only)							
Closure Report Attachment Checklist: Instructions: Each of the following items is mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number	nust be attached to the closure report. Please inc	licate, by a check							
 Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.146806° N Longitude 10′ 	7.140858° W NAD: □1927 ⊠ 1983								

Operatôr Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is belief. I also certify that the closure complies with all applicable closure requirements an	
Name (Print):Jamie Goodwin	Title:Regulatory Technician
Signature: 7000(U)	Date: 9/30/14
e-mail address:JGoodwin@logosoperating.com	Telephone:505-330-9333

Logos Operating, LLC San Juan Basin Closure Report

Lease Name: JICARILLA O 3E

API NO: 30-043-21165

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

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

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

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

The pit was closed using onsite burial.

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

The closure process notification to the landowner was sent via certified mail. (See attached)

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

The closure plan requirements were met due to rig move off date as noted on C-105. (See attached). Pit closure extension to 7/16/14 was requested of the BIA per letter dated 3/5/14 and approved.

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

Notification is attached.

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

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

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

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

Components	Tests Method	Limit (mg/Kg)	Results (ppm)
Benzene	EPA SW-846 8021B or 8015M	10	SEE
BTEX	EPA SW-846 8021B or 8260B	50	ATTACHED
TPH	EPA SW-846 418.1	2500	
GRO/DRO	EPA SW-846 8015M	1000	
Chlorides	EPA 300.0	40000	

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

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

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

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

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

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

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

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

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: JICARILLA O 3E

Unit Letter: O Section: 10 Township: 22N Range: 3W

API#: 30-043-21165

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: 12/9/13 Inspection End Date: 6/11/14

NOTE: During start and end dates of temporary pit inspections liner tear and holes were noted and repaired during the weekly inspections. In the future Logos will maintain logs in accordance with OCD ruling 19.15.17.12(B)(3).

^{*}Tamra Sessions

From:

Tamra Sessions

Sent:

Friday, September 6, 2013 9:30 AM

To:

Merldine Oka (merldineoka@jicarillaoga.com)

Cc:

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

Graham

Subject:

SURFACE OWNER NOTIFICATION 09/06/13 - Temporary Pit - Jicarilla O 3E

Attachments:

Jicarilla Pit Notice.docx

Please see our attached notice for temporary pit for the following new drill location:

Jicarilla O 3E O – Sec 10 – T22N – R03W 919' FSL & 1738' FEL

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



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

Fax: (505) 832-3095

Date: September 6, 2013

To: Jicarilla Apache Nation

Re: Surface Owner Notification for On-Site Burial

Ms. Merldine Oka Jicarilla Apache Nation Oil and Gas Administration #6 Dulce Rock Road Dulce, NM 87528

Re:

Jicarilla O 3E

0 - Sec 10 - T22N - R03W 919' FSL & 1738' FEL

Dear Ms. Oka,

According to NMOCD rules, Logos Operating, LLC is notifying you that there will be a temporary pit on the subject well and that they intend to bury the drill cuttings in the reserve pit, assuming that they qualify as per Subsection D of 19.15.17.13 NMAC. No action is required on your part. If you have any questions, please do not hesitate to call me.

Regards,

Tamra Sessions

Tamra Sessions Operations Technician DISTRICT 1
1828 N. Frunch Dr., Hobbo, N.H. 68340
Photos: (876) 383-6181 Fair (876) 883-9720
DISTRICT II
811 S. Fred St., Artenda, N.H. 88810
Photos: (876) 748-8783
Photos: (876) 748-9720
DISTRICT III
1000 Bio Brunos Rd., Arten, N.H. 57410
Photos: (806) 334-6178 Fair (808) 336-6170
DISTRICT IV
1830 S. B. Francis Dr., Bunta Fa., NH 57808
Photos: (805) 476-3460 Fair (808) 476-3468

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate
District Office

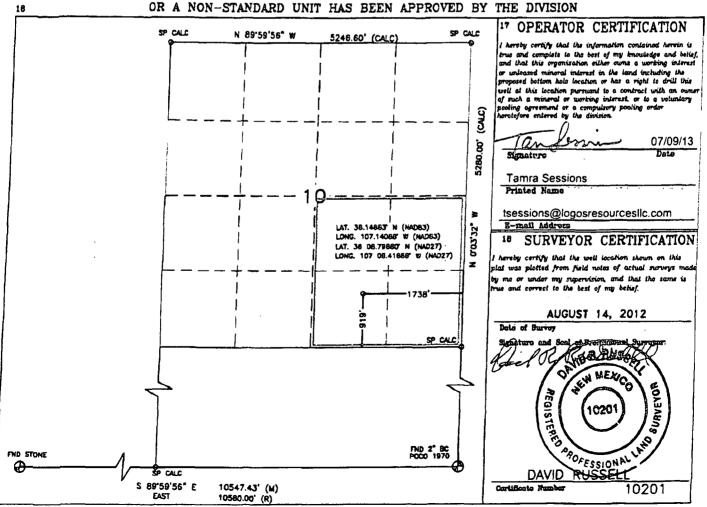
OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

ΙΔP	l Number			"Pool Code 39189						
*Property	Code		Property Name							
311962	?		JICARILLA O							
OGRID N	О.		Operator Namo							
289408			LOGOS RESOURCES, LLC							
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot ldn	Peet from the	North/South line	Feet from the	Bast/West line	County	
0	10	22N	22N 3W 919' SOUTH 1738' EA						SANDOVAL	
			11 Bott	om Hole	Location I	f Different Fr	om Surface			
A or lot no.	Section	Township	Range	Lot ldn	Feet from the	East/West line	County			
Dedicated Acres "Joint or Intill			intill	4 Consolidation C	ode	¹⁵ Order No.	²⁵ Order No.			
160 acres			[

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



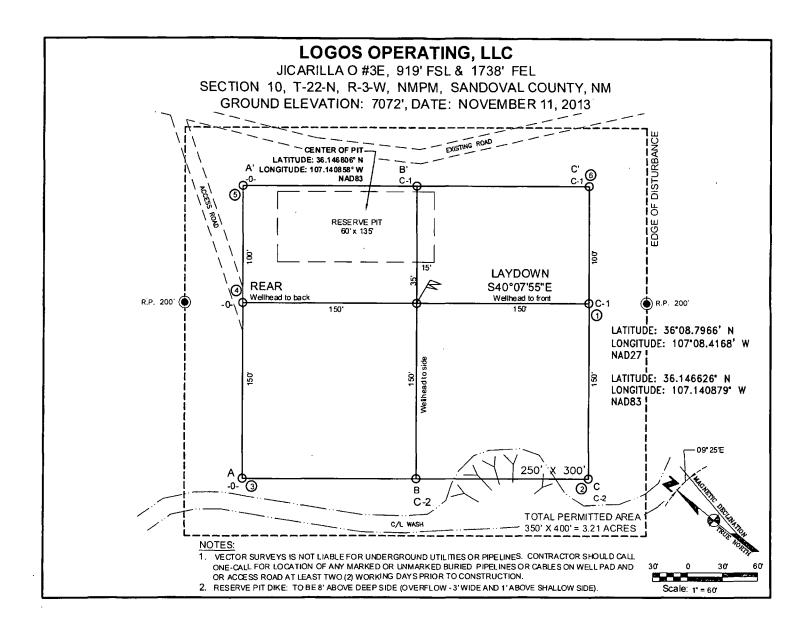


Table 1, Summary of Analytical Results Logos Operating, LLC Jicarilla O #3E

Drill Pit Closure and Backfill Material Sampling Report Sandoval County, New Mexico Project Number 12035-0046

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 Composite	1	1/29/2014	17900	13100	6.57	61.2	1370
NMOCD/RCRA Standards	NA	. NA	NA.	NA	NA	NA .	600
Backfill Material Composite	2	1/29/2014	NS	NS	NS	NS	19.0

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: 16580

Samples Received: 1/29/2014 4:29:00PM

Job Number: 12035-0046

Work Order: P401089

Project Name/Location: Jicarilla 0 #3E

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

2/5/14

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.





PO Box 18

Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

Project Number:

12035-0046

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit Composite	P401089-01A	Soil	01/29/14	01/29/14	Glass Jar, 4 oz.
Backfill Material Composite	P401089-02A	Soil	01/29/14	01/29/14	Glass Jar, 4 oz.





Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number: Project Manager: 12035-0046

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Drill Pit Composite P401089-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021	·								
Benzene	6.57	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
Toluene	22.1	0.05	mg/kg	I	1405012	01/30/14	02/04/14	EPA 8021B	
Ethylbenzene	5.54	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
p,m-Xylene	18.4	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
o-Xylene	8.72	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
Total Xylenes	27.1	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
Total BTEX	61.2	0.05	mg/kg	1	1405012	01/30/14	02/04/14	EPA 8021B	
Surrogate: Bromochlorobenzene		127 %	80	-120	1405012	01/30/14	02/04/14	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		142 %	80	-120	1405012	01/30/14	02/04/14	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	177	4.98	mg/kg	ī	1405012	01/30/14	02/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	13100	29.9	mg/kg	I	1405013	01/30/14	02/03/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	17900	200	mg/kg	10	1405016	01/30/14	01/30/14	EPA 418.1	
Cation/Anion Analysis		-							
Chloride	1370	9.92	mg/kg	1	1405017	01/30/14	01/30/14	EPA 300.0	





PO Box 18

Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

Project Number:

12035-0046

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Backfill Material Composite P401089-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	19.0	9.87	mg/kg	1	1405017	01/30/14	01/30/14	EPA 300.0	





PO Box 18

Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

Project Number: Project Manager:

Reporting

12035-0046

Spike

Source

Tiffany McIntosh

Reported:

05-Feb-14 14:15

RPD

%REC

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		70KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1405012 - Purge and Trap EP	A 5030A									
Blank (1405012-BLK1)				Prepared: 2	29-Jan-14 /	Analyzed: (3-Feb-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	**							
Ethylbenzene	ND	0.05	**							
o,m-Xylene	ND	0.05	"							
-Xylene	ND	0.05	n							
Total Xylenes	ND	0.05	**							
Total BTEX	ND	0.05	n				÷			
Surrogate: 1,3-Dichlorobenzene	41.4		ug/L	50.0		82.7	80-120			
Surrogate: Bromochlorobenzene	45.4		#	50.0		90.8	80-120			
Ouplicate (1405012-DUP1)	Sourc	e: P401086-	01	Prepared: 2	9-Jan-14 /	\nalyzed: 0	3-Feb-14			
Benzene	ND	0.50	mg/kg		ND				30	
oluene	9.90	0.50	n		10.2			3.13	30	
Ethylbenzene	4.00	0.50	n		4.00			0.166	30	
,m-Xylene	45.0	0.50	"		44.8			0.417	30	
-Xylene	12.0	0.50	"		12.0			0.337	30	
urrogate: 1,3-Dichlorobenzene	53.7		ug/L	50.0		107	80-120			
urrogate: Bromochlorobenzene	58.6		"	50.0		117	80-120			
Tatrix Spike (1405012-MS1)	Source	e: P401086-	01	Prepared: 2	9-Jan-14 A	nalyzed: 0	3-Feb-14			
enzene	45.3		ug/L	50.0	ND	90.5	39-150			
oluene	68.5		**	50.0	20.4	96.2	46-148			
thylbenzene	57.2		н	50.0	7.99	98.5	32-160			
,m-Xylene	181		**	100	89.6	91.5	46-148			
-Xylenc	71.2		Ħ	50.0	24.1	94.3	46-148			
urrogate: 1,3-Dichlorobenzene	54.9		"	50.0		110	80-120			
urrogate: Bromochlorobenzene	59.9		"	50.0		120	80-120			





Flora Vista NM, 87415

PO Box 18

Project Name:

Jicarilla 0 #3E

Project Number:

12035-0046

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

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 1405012 - Purge and Trap EPA 5030A										
Blank (1405012-BLK1)				Prepared: 2	9-Jan-14 /	Analyzed: 0	3-Feb-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1405012-DUP1)	Sour	rce: P401086-	01	Prepared: 2	9-Jan-14 /	Analyzed: 0	3-Feb-14			
Gasoline Range Organics (C6-C10)	446	49.9	mg/kg		442			0.854	30	
Matrix Spike (1405012-MS1)	Sour	rce: P401086-	01	Prepared: 2	9-Jan-14 /	\nalyzed: 0.	3-Feb-14			
Gasoline Range Organics (C6-C10)	1.31		mg/L	0.450	0.88	94.4	75-125			





Flora Vista NM, 87415

PO Box 18

Project Name:

Jicarilla 0 #3E

Project Number:

12035-0046

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

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 1405013 - DRO Extraction EPA 3550C										
Blank (1405013-BLK1)				Prepared: 2	9-Jan-14	Analyzed: 3	0-Jan-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1405013-DUP1)	Sour	rce: P401086-	01	Prepared: 2	9-Jan-14	Analyzed: 3	0-Jan-14			
Diesel Range Organics (C10-C28)	9060	30.0	mg/kg		9070			0.0775	30	
Matrix Spike (1405013-MS1)	Sour	ce: P401086-	01	Prepared: 2	9-Jan-14 /	Analyzed: 3	0-Jan-14			
Diesel Range Organics (C10-C28)	8560	31.6	mg/kg	263	9070	NR	75-125			SPK1





Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0046

Reported: 05-Feb-14 14:15

Flora Vista NM, 87415

Project Manager: Tiffany McIntosh

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1405016 - 418 Freon Extraction				=						
Blank (1405016-BLK1)				Prepared &	Analyzed:	30-Jan-14				
Total Petroleum Hydrocarbons	20.0	20.0	mg/kg							
Duplicate (1405016-DUP1)	Sour	ce: P401089-	01	Prepared &	: Analyzed:	30-Jan-14				
Total Petroleum Hydrocarbons	23700	199	mg/kg		17900			28.0	30	
Matrix Spike (1405016-MS1)	Sour	ce: P401089-	01	Prepared &	Analyzed:	30-Jan-14				
Total Petroleum Hydrocarbons	6600		mg/L	500	4480	425	80-120			SPKI





Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0046

Reported:

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

05-Feb-14 14:15

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 1405017 - Anion Extraction EPA 300.0										
Blank (1405017-BLK1)				Prepared &	Analyzed:	30-Jan-14				
Chloride	ND	9.96	mg/kg							
LCS (1405017-BS1)				Prepared &	Analyzed:	30-Jan-14				
Chloride	505	9.94	mg/kg	497		102	90-110			
Matrix Spike (1405017-MS1)	Sou	rce: P401089-	-02	Prepared &	Analyzed:	30-Jan-14				
Chloride	547	9.95	mg/kg	498	19.0	106	80-120			
Matrix Spike Dup (1405017-MSD1)	Sou	rce: P401089-	02	Prepared &	Analyzed:	30-Jan-14				
Chloride	552	9.87	mg/kg	494	19.0	108	80-120	0.949	20	





Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0046

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Notes and Definitions

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

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present

in the sample extract.

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



client: LOOS Operati	ria-	Pro	ect Name / Location	n: #3E								ΑN	NALY	SIS /	PAF	RAME	TER	s	·		
Email results to: T.M.T.n+0Sh/S Client Phone No.:	. Leor	Sar)	npler Name: MINOS Int No.: 12035-	13. Leor)			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	, Anion		ith H/P	CO Table 910-1	18.1)	IDE			Cool	Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	PI HNO ₃	reservat HCI	ive	трн (М	BTEX (VOC (N	RCRA (Cation / Anion	E.	TCLP with H/P	CO Tab	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Drill Pd Composite	100/H	11:23	P401089-01	1-4. Ozjan			1	X	X							X	X				
Backful Material composite	1129/14	11:36	P401089-02	1-402 Ju													1			1	
						-	ļ		ļ								-				
						-															
							-														
Relinquished by: (Signature)	L tox	, ,		Date Time	Rece	eived l	by: (S	ignat	lure)	m					<u></u>		<u> </u>		Date	l	ime
Relinquished by: (Signature)						eived	by:(S	Signa	ture)	<u></u>				·							
Sample Matrix Soil Solid Sludge	Aqueous [Other 🗆														•					
☐ Sample(s) dropped off after		·		3 env															•	· · · · · · · · · · · · · · · · · · ·	

Submit To Appropriate District Office Two Copies District 1 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Energy, Minerals and Natural Resources 1. WELL API NO.									
District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		l Conservatio 20 South St. l Santa Fe, NM	Francis D		30-043-21 2. Type of L	165 Lease		NAIC	
	DECOMPL			2100	JICARILLA	APACHE LEAS	SE # 417		
WELL COMPLETION OF 4. Reason for filing: COMPLETION REPORT (Fill in box)				LOG		ne or Unit Agree O		And the second second	
□ C-144 CLOSURE ATTACHMENT (1 #33; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this and the plat to the C-144 close □ C-144 CLOSURE ATTACHMENT (1 #35; attach this	Fill in boxes #1 the sure report in acco	rough #9, #15 Date I ordance with 19.15.1	Rig Released 7.13.K NMA	and #32 and/o	or				
7. Type of Completion: NEW WELL WORKOVER 8. Name of Operator	DEEPENING	□PLUGBACK [DIFFERE	NT RESERVO					
LOGOS OPERATING, LLC					9. OGRID 289408				
10. Address of Operator 4001 North Butler Avenue, Building 7101 Fa	armington, NM 87	401			11. Pool nam	e or Wildcat			
12.Location Unit Ltr Section Surface:	Township	Range L	ot	Feet from th	e N/S Line	Feet from the	E/W Line	County	
BH:									
13. Date Spudded 14. Date T.D. Reached	15. Date Rig 12/21/13	g Released	16.	Date Comple	ted (Ready to Pro			F and RKB,	
18. Total Measured Depth of Well	19. Plug Bac	ck Measured Depth	20.	Was Direction	onal Survey Made		e Electric and C	Other Logs Run	
22. Producing Interval(s), of this completion	- Top, Bottom, Na	ame	, <u> </u>						
23.		ING RECO							
CASING SIZE WEIGHT LE	3./FT.	DEPTH SET	HC	LE SIZE	CEMENTIN	NG RECORD	AMOUNT	PULLED	
24.	LIN	ER RECORD			25.	TUBING REC	ORD		
SIZE TOP B	OTTOM	SACKS CEMEN	T SCREEN	1	SIZE	DEPTH SET		ER SET	
						_			
26. Perforation record (interval, size, and n	umber)	1			RACTURE, CH				
			DEPTH	INTERVAL	AMOUNT	AND KIND MA	TERIAL USED		
28.		PI	RODUC	TION					
	ction Method (Flo	owing, gas lift, pump			Well Statu	s (Prod. or Shut-	in)		
Date of Test Hours Tested C	hoke Size	Prod'n For Test Period	Oil - Bbl		Gas - MCF	Water - Bbl.	Gas -	Oil Ratio	
1	alculated 24- our Rate	Oil - Bbl.	Gas ·	- MCF	Water - Bbl.	Oil Gra	vity - API - <i>(Co</i>	rr.)	
29. Disposition of Gas (Sold, used for fuel, ve	ented, etc.)				1	30. Test Witne	ssed By		
31. List Attachments						<u> </u>			
32. If a temporary pit was used at the well, at	tach a plat with th	e location of the tem	nporary pit.	SEE ATTACI	IED				
33. If an on-site burial was used at the well, r	-	Latitude 36.	.146806N		de 107.140858V		D 1927 1983X		
I hereby certify that the information		n sides of this for Printed	rm is true o	and comple	te to the best o	of my knowled			
Signature John Senior S		Name Tamra	Sessions	Title	Operations	s Technician	Date q	120/14	



Pit Closure Form:
Date: <u>6-19-14</u>
Well Name: <u>JICARILLA O 3E</u>
Footages: 919' FSL & 1738' FEL Unit Letter: O
Section: <u>10</u> , T- <u>22N</u> , R- <u>3W</u> , County: <u>SANDOVAL</u> State: <u>NM</u>
Contractor Closing Pit: WSS
Construction Inspector:
Inspector Signature: Wanne Mit
Date: 6-19-14

⁴ Tamra Sessions

From:

Tamra Sessions

Sent:

Wednesday, March 5, 2014 9:49 AM

To:

Kurt Sandoval (kurt.sandoval@bia.gov)

Cc:

Mike, Deedra; Marlena Reval (marlena.reval@bia.gov); Wayne Ritter

Subject:

FW: Jicarilla Pit Closure Extension_Jicarilla O 3E_03-05-14

Attachments:

Jicarilla Pit closure ext letter scan.pdf

Sorry, corrected well name in body of letter.

Tamra

505-330-9333

From: Tamra Sessions

Sent: Wednesday, March 5, 2014 9:47 AM **To:** Kurt Sandoval (kurt.sandoval@bia.gov)

Cc: Mike, Deedra; Marlena Reval (marlena.reval@bia.gov); Wayne Ritter

Subject: Jicarilla Pit Closure Extension Jicarilla O 3E 03-05-14

Please see attached letter, with location and date information, requesting pit closure extension for the Jicarilla O 3E.

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



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

Fax: (505) 832-3095

March 5, 2014

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

RE: Pit Closure Extension - Jicarilla O 3E well - Jicarilla Lease 417 UL O, Section 10, T22N, R03W; API 30-043-21165

Dear Mr. Kurt Sandoval,

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

The completion date was 01/17/14 and the required 90 day closure date is 04/17/14. The 90 day pit closure extension will end on 07/16/14.

Tamra Sessions

Operations Technician

Logos Resources, LLC



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



IN REPLY REFER TO: Energy & Minerals Management

MAR 5 2014

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

Dear Ms. Sessions:

This is in response to your request, dated **March 5, 2014**, for permission to perform work on the following location, which is on Tribal Surface:

Lease No. 417, Jicarilla O #3E:

Located in Section 10, Township 22 North, Range 3 West, N.M.P.M. Rio Arriba County, New Mexico (API No. 30-043-21165).

Scope of Work:

Notice of 90-day pit closure extension ending July 16, 2014, due to inclement weather conditions.

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

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

Sincerely,

Mullight Superintendent

cc: Jicarilla Oil and Gas Administration

Tamra Sessions

From:

Tamra Sessions

Sent:

Friday, May 9, 2014 10:58 AM

To:

'Cascindra Willie'

Cc:

Bryce Hammond (brycehammond@jicarillaoga.com); Mike, Deedra

Subject:

FW: Jicarilla O 3E_Pit Closure 72hr Notice

Attachments:

Jicarilla Pit Closure 72hr Noitce scan.pdf

Cascindra here is a copy of the letter we are mailing to the BIA.

Tamra

505-330-9333

From: Tamra Sessions

Sent: Friday, May 9, 2014 10:53 AM

To: Jonathan Kelly (jonathan.kelly@state.nm.us)
Cc: brandon.powell@state.nm.us; Wayne Ritter
Subject: Jicarilla O 3E_Pit Closure 72hr Notice

Logos Operating is giving 72hr notice of plans to start temporary pit closure operations on Wednesday 05/14/14. Bureau of Indian Affairs Jicarilla Agency is being notified via certified mail.

Please contact Wayne Ritter at 505-320-0436 for any questions or concerns. Thank you.

Jicarilla O 3E API 30-043-21165 O – Sec 10 – T22N – R03W Jicarilla Apache Lease #417

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

(c) 505-330-9333

(o) 505-436-3790 ext 103



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

Fax: (505) 832-3095

Date: May 9, 2014

To: Bureau of Indian Affairs Jicarilla Agency

Re: Surface Owner Notification for Temporary Pit Closure

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

Re:

Jicarilla O 3E

API #30-043-21165

ULO, Section 10, T22N, R03W

Dear Mr. Kurt Sandoval,

According to NMOCD rules, Logos Operating, LLC is notifying you that temporary pit closure operations will begin on May 14, 2014 on the Jicarilla O 3E. Drill cuttings will be buried in the reserve pit, as they qualify as per Subsection D of 19.15.17.13 NMAC. No action is required on your part. If you have any questions, please do not hesitate to contact me.

Regards,

Tamra Sessions

Operations Technician

tsessions@logosresourcesllc.com

505-330-9333

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the	A. Signature
so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: B.T.A. T.C.C.L.A. A.J.L.A. P.J. Box 167	B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
DUE 87528	3. Service Type Certified Mail Registered Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee)
(Transfer from service label) 7013 2250 PS Form 3811, February 2004 Domestic Return	0001 2785 5453

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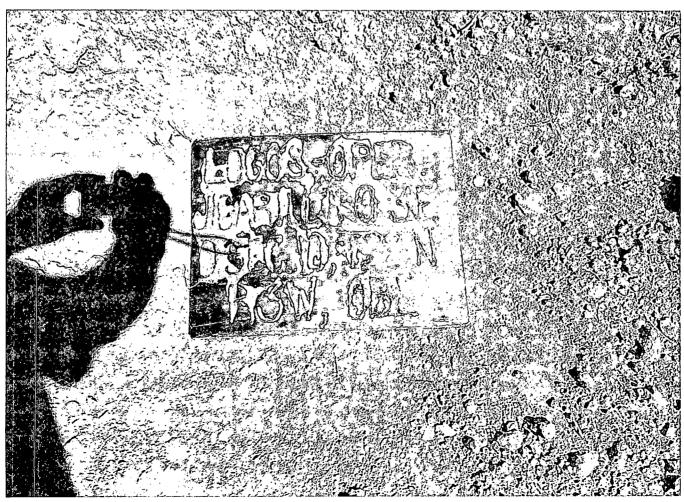
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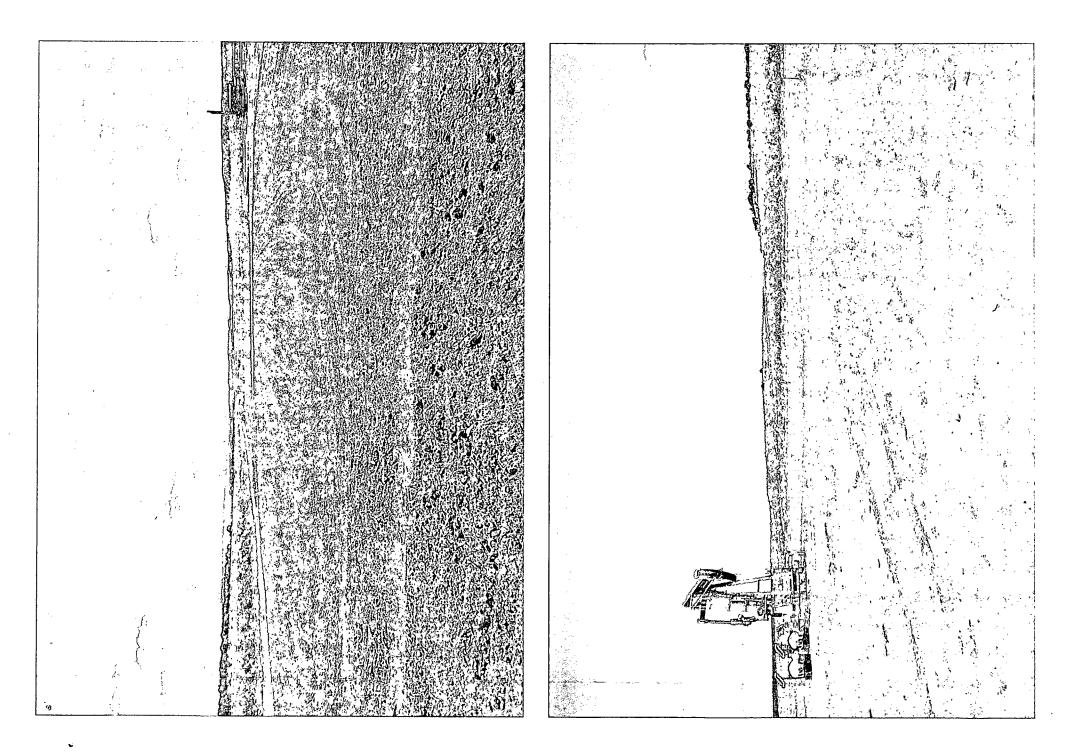
5 5453		MAIL: RECEPT My No heurnes Coveres Provided) The value was a second se
278	Postage	\$ \$0.49 0401.77
႕	Certified Fee	\$3.30 031 (Postmark 7)
0001	Return Receipt Fee (Endorsement Required)	\$2.70 (6 Here) \(\frac{1}{\Sigma}\)
	Restricted Delivery Fee (Endorsement Required)	80.00 WH S
225	Total Postage & Fees	\$ \$6.49 05/09/2014
m	Sent To BF4 -	Sicori Ni A gency 10th
7013	hazarar aran mara ferraren	34/67 303
	City, State, ZIP+4	1 CL NM 87578
	PS Form 9300, August 2	003 See Reverse to Instructions



Reclamation Form:
Date: 6-23-14
Well Name: <u>JICARILLA O 3E</u>
Footages: 919' FSL & 1738' FEL Unit Letter: O
Section: <u>10</u> , T- <u>22N</u> , R- <u>3W</u> , County: <u>SANDOVAL</u> State: <u>NM</u>
Reclamation Contractor: <u>WSS</u>
Reclamation Start Date: 574-14
Reclamation Complete Date: 63-14
Road Completion Date: 6-23-14
Seeding Date: 8-17-14
PIT MARKER STATUS
(When Required) Picture of Marker set needed
Date Marker Placed: 21-14
Latitude: 36. 1468%
Longitude: <u>/07</u> , <u>/40858</u>
Date Pit Manifold Removed: <u>NA</u>
Construction Inspector Signature: Wayne At-
Date Inspected: 6-23-44







Temporary Pit Weekly Inspection Form WELL NAME: JICARILLA O 3E API NO: 30-043-21165 LEGALS: Section: 10 Township: 22N Range: 3W Drilling RD Date: 12/21/2013

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	RAMSEY	RAMSEY	RAMSEY	RAMSEY	1	RAMSEY	ì	1	ì	RAMSEY	1	RAMSEY
Inspector's Name	HATALIE	HATALIE	HATALIE	HATALIE_	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE	HATALIE
WEEK #	1	2	3	4	5	6	7	8	9	10		12
DATE	01/01/14	01/10/14	01/14/14	02/29/14	03/03/14	03/24/14	04/05/14	04/12/14	04/22/14	04/28/14	05/13/14	05/19/14
Well sign on location												
(Y/N)	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Any liner breeches				}		1				}		
(Y/N)	N	Υ _	Υ	N	N	Υ	Υ	N	N	N	N	N
Any fluid seeps/spills				_								
(Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
HC's on top of temp.	1											
pit (Y/N)	N_	N	N ·	N	N	N	N	N	N	N	N	N
Temp pit free of misc.												
Solid								İ				
Waste/Debris(Y/N)	LEARANCE/	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Discharge Line												
Integrity Good (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Fence Integrity Good		ļ.,		l.,	l.,		l	l			\. <u>.</u>	
(Y/N) Any Dead Wildlife/	<u> Y</u>	Υ	Y	Y	Υ	Υ	Υ	Υ	Ψ	Υ	Υ	Υ
Stock (Y/N)	N	N	N	N	N	N	N	N	N	N	N	l _N
Freeboard to be 2' or >	IN	IN .	IN		IN .	IV	IN .	IN	N	IN .		IN
Est. (ft)	Y (8')	Y (8')	Y (8')	Y (12')	Y (10')	Y (8')	Y (8')	Y (8')	Y (10')	Y (12')	Y (8')	Y (8')
Was the OCD	. (6 /	. (5)	1 10 /	, (12)	, (10)	1 (0)	1 (0)	1 (0)	1 (10)	(12)	1 (0)	. (0 /
contacted (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
			-									
Pictures taken (Y/N)	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
				_								
-		8'					8'					
	1	CLEARANCE/L	8'			8'	CLEARANCE/			İ	ľ	
		INER ON	CLEARANCE/			CLEARANCE/	NE OF PIT					
		NORTHEAST	NORTHEASR			NORTHEAST	ABOUT 20					1
		OF PIT TORN	CORNER PIT			SIDE ABOUT	YRDS THERE					
		@ 2 PLACES	HAS HOLE IN			20 YRDS, 2	IS A HOLE,					
Comments:		BUT STILL	IT, IT HAS			HOLES, ITS	BUT IT STILL	8'	1	1		
		HAS	ABOUT 5'			ABOUT 2'	HAS 6'	CLEARANCE/				
		CLEARANCE	CLEARANCE			FROM TOP	CLEARANCE	HAD HOLE IN				
		ABOUT 5'	FROM HOLE			AND STILL	BEFORE IT	IT, CLEAN IT				
	8'	FROM FLUID	TO TOP OF	12'	10'	HAVE 6'	REACHES	& PATCH	10'	12'	8'	8'
	CLEARANCE	LEVEL	FLUID	CLEARANCE		CLEARANCE	LIQUID	BOTH HOLES		1	CLEARANCE	CLEARANCE
*	CELTIMINACE		1.00	CELAIMITE	L CELANAITCE	CELANANCE	LIQUID	Loominotts	CECHINAIACE	CLEANAIGE	CLLAIMICL	CLLAIMITCE

Temporary Pit Weekly Inspection Form												
WELL NAME: JI	ICARILLA O 3E			API NO:	30-043-21165	65						
LEGALS:	Section:		Township:		Range:							
Drilling RD Date:	12/12/2013											
	Ramsey	T				<u> </u>		 -				
Inspector's Name	Hatalie	Casey Ridgley										
WEEK #	13		15	16	17	18	19	20	21	22	23	2-
DATE	05/19/14	06/11/14										
Well sign on location												
(Y/N)	Υ	Y										
Any liner breeches		1				ļ						
(Y/N)	N	N										
Any fluid seeps/spills (Y/N)	N			ļ]				
HC's on top of temp.	I'N	N			 .			1	<u> </u>			<u> </u>
pit (Y/N)	N	N										
Temp pit free of misc.							_					
Solid												
Waste/Debris(Y/N)	Υ	l _Y										
Discharge Line						-						
Integrity Good (Y/N)_	N	Υ										
Fence Integrity Good												
(Y/N)	Υ	N										
Any Dead Wildlife/	N	l <u>.</u> .										
Stock (Y/N) Freeboard to be 2' or		N										
> Est. (ft)	Y (8')	ĺγ										
Was the OCD	, (= /		_									
contacted (Y/N)	N	N		İ								
Pictures taken (Y/N)	Y	N										
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		ļļ.										
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	, a										,	
]	
Comments:												
								İ				
	8'	NO FENCE										
	CLEARANCE	/PIT FILLED IN						<u> </u>		<u> </u>		