Amended 12235

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

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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or

Proposed Alternative Method Permit or Closure Plan Application Com	NS. DIV DIST. 3
Type of action: U3-21165 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	V 0 3 2014
or proposed alternative method	rade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative reque	est
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regular	
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 Section10 Township22N 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	
2. ☑ <u>Pit</u> : Subsection F, G or J of 19.15.17.11 NMAC Temporary: ☑ Drilling ☐ Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ y	yes 🔲 no
☐ Lined ☐ Unlined Liner type: Thickness20mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
☐ String-Reinforced	
Liner Seams: Welded Factory Other Volume: 8,000 bbl Dimensions: L 130 x W 60 x D 10)
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume:bbl Type of fluid:	
Tank Construction material:	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thicknessmil	
4. Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for considera	ation of approval.
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church)	ol, hospital,
☐ 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.	

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i	
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.	
Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce	ntable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	,,,,,,,
C 1 22	1
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
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	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)	☐ Yes ☐ No
- 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	103 110
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 	☐ Tes ☐ No
	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	
Below Grade Tanks	
Wishing 100 for the granting country protection of the first country laborated and single-laborated and so the format of the first country and the first c	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).	Yes No
- 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	Van C Na
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
The state of the s	[

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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. 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 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
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 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	
<u>Proposed Closure</u> : 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	luid 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ Van □ Na
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

) NIGO 1070 G	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
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 cann 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 bel	ief.
Name (Print): Title:	
Signature: Date:	
Signature: Date: e-mail address: Telephone:	
e-mail address:	
e-mail address: Telephone:	12al4 the closure report.
e-mail address:	12al4 the closure report.
e-mail address: Telephone:	the closure report.
e-mail address:	the closure report. t complete this

22.	•
Operator 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 and	
Name (Print): Jamie Goodwin	Title:Regulatory Technician
signature: ame Goodwe	Date: 14 03 14
e-mail andress: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

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

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

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

The pit was closed using onsite burial.

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

The closure process notification to the landowner was sent via certified mail. (See attached) Due to confusion on surface owner notification the NMOCD was not notified. In the future Logos will notify the NMOCD of the Closure operation.

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.

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	ND
BTEX	EPA SW-846 8021B or 8260B	50	0.87
TPH	EPA SW-846 418.1	2500	392
GRO/DRO	EPA SW-846 8015M	1000	156
Chlorides	EPA 300.0	40000	1370

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

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

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

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

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

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

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

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

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

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

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

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

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

Operator Name: LOGOS

Lease Name & Well Number: 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
1055 M. Prench Br., Robbe, N.M. 00840
Packet (NY) 305-5131 Per: (NY) 258-5780
DISTRICT H
Gil & Fred M., Arlenia, M.H. 55210
Phone: (NY) 746-1222 Free: (NY) 746-8786
DISTRICT III
1008 Ro Brunes Rd, Arica, N.M. 57410
Phone: (203) 354-6170 Per: (200) 354-6170
DISTRICT III
1008 R. Brunes Rd, Arica, N.M. 57410
Phone: (203) 554-6170 Per: (203) 456-6170
DISTRICT III
1008 R. Br. Frencis Rr., Sinda Po. 101 57805
Phone: (203) 476-3400 Per: (203) 476-3408

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

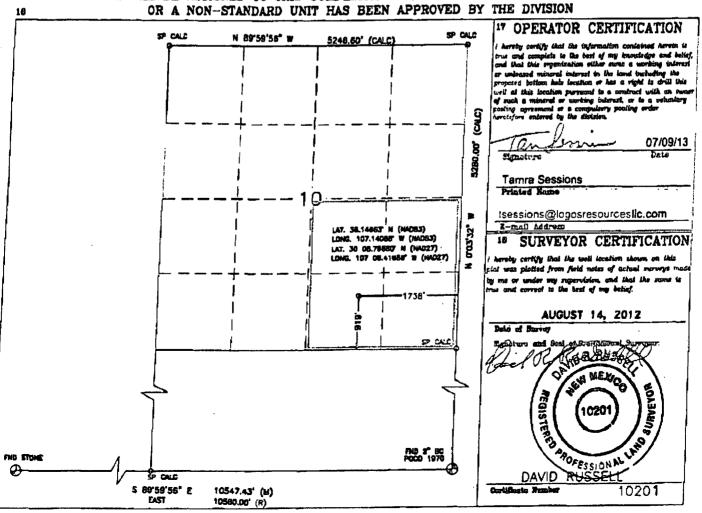
OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

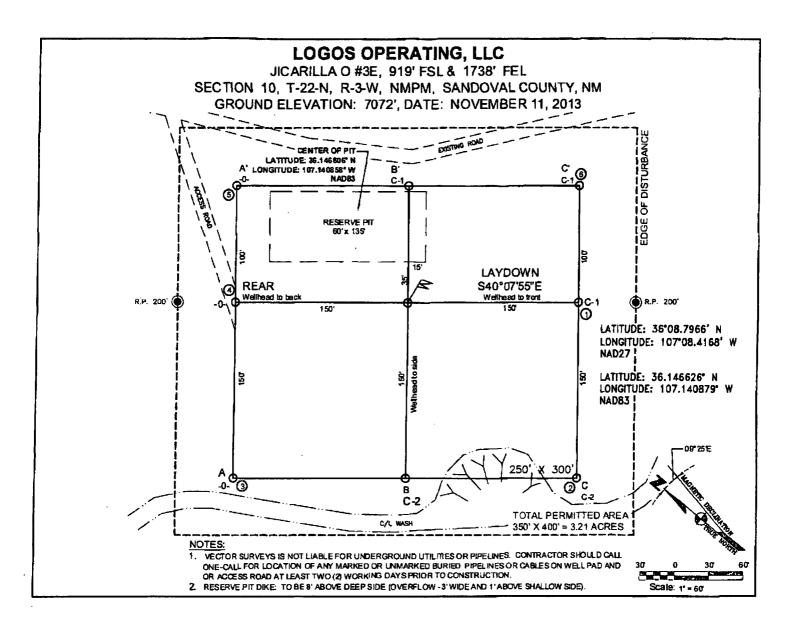
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

			"111111	LOCAL	ION AND A	CREAGE DE				
'AP	1 Humber			*Pool Code 39189		Lindrith Gallup-D	Pool Hor akota, West	B		
Property	Codo				Property	Hame			Well Mumber	
311962	?				JICARILLA	. 0				
OCED N	0.				*Operator	Name			Beretion	
289408				LOG	OS RESOURCE	ES, LLC			7072'	
					10 Surface	Location				
A or let so.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Fost from the	East/West line	County	
0	10	22N	3W	L	919'	SOUTH	1738'	EAST	SANDOVAL	
			¹¹ Bott	om Hole	Location I	I Different Fr	om Surface			
IL or lot so.	Section	?ounchip	Range	Lot Ida	Feel from the	Forth/South line	Foot from the	East/Fest the	County	
Dedicated Acres	·	<u> </u>	" Joint or	hen L	" Consolidation C	Code	□Order No.			
160 acres										

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







Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 17472

Samples Received: 10/29/2014 8:27:00AM

Job Number: 12035-0069

Work Order: P410123

Project Name/Location: Jicarilla 0 #3E

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

10/31/14

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: Project Manager: 12035-0069

Sheena Leon

Reported: 31-Oct-14 15:34

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Drill Pit	P410123-01A	Soil	10/28/14	10/29/14	Glass Jar, 4 oz.





Project Name:

Jicarilla 0 #3E

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0069 Sheena Leon Reported: 31-Oct-14 15:34

Drill Pit P410123-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021	·								
Benzene	ND	0.10	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
Toluene	0.11	0.10	mg/kg	i	1444019	10/29/14	10/29/14	EPA 8021B	
Ethylbenzene	0.14	0.10	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
p,m-Xylene	0.43	0.20	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
o-Xylene	0.19	0.10	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
Total Xylenes	0.62	0.10	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
Total BTEX	0.87	0.10	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50)-150	1444019	10/29/14	10/29/14	EP.4 8021B	
Nonhalogenated Organics by 8015		·							
Gasoline Range Organics (C6-C10)	16.7	9.98	mg/kg	1	1444019	10/29/14	10/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	156	29.9	mg/kg	1	1444018	10/29/14	10/29/14	EPA 8015D	
Surrogate: o-Terphenyl		106 %	50	-200	1444018	10/29/14	10/29/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		93.0 %	50	150	1444019	10/29/14	10/29/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	392	35.0	mg/kg	1	1444025	10/29/14	10/29/14	EPA 418.1	



Flora Vista NM, 87415

Batch 1444019 - Purge and Trap EPA 5030A

Project Name:

Jicarilla 0 #3E

PO Box 18

Analyte

Project Number:

Reporting

Limit

12035-0069

Reported:

RPD

Limit

Notes

%REC

Limits

RPD

Project Manager:

Result

Sheena Leon

Spike

Level

Source

Result

Prepared & Analyzed: 29-Oct-14

ND

ND

ND

ND

101

104

104

106

104

101

75-125

70-125

75-125

80-125

75-125

50-150

4.14

4.21

4.40

4.39

20.0

20.0

20.0

40.0

20.0

0.400

%REC

31-Oct-14 15:34

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Units

Blank (1444019-BLK1)				Prepared &	Analyzed:	29-Oct-14		
Benzene	ND	0.002	mg/kg					
Toluene	ND	0.002	"					
Ethylbenzene	ND	0.002	**					
p,m-Xylene	ND	0.004	и					
o-Xylene	ND	0.002	"					
Total Xylenes	ND	0.002	"					
Total BTEX	ND	0.002	u					
Surrogate: 4-Bromochlorobenzene-P1D	0.379		"	0.399		94.9	50-150	
LCS (1444019-BS1)				Prepared &	Analyzed	29-Oct-14		
Benzene	19.7	0.10	mg/kg	20.0		98.6	75-125	
Toluene	20.0	0.10		20.0		100	70-125	
Ethylbenzene	20.3	0.10	11	20.0		102	75-125	
p,m-Xylene	41.1	0.20	"	40.0		103	80-125	
o-Xylen¢	20.3	0.10	"	20.0		102	75-125	
Surrogate: 4-Bromochlorobenzene-PID	0.399		"	0.400		99.9	50-150	-
Matrix Spike (1444019-MS1)	Source	e: P410117-	01	Prepared &	Analyzed:	29-Oct-14		
Benzene	19.4	0.10	mg/kg	20.0	ND	97.3	75-125	
Toluene	19.9	0.10	11	20.0	ND	99.4	70-125	
Ethylbenzene	20.0	0.10	"	20.0	ND	100	75-125	
p,m-Xylene	40.4	0.20	"	39.9	ND	101	80-125	
o-Xylene	20.0	0.10	а	20.0	ND	100	75-125	
Surrogate: 4-Bromochlorobenzene-P1D	0.399		"	0.399		99.9	50-150	

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

Source: P410117-01

0.10

0.10

0.10

0.20

0.10

mg/kg

20.2

20.7

20.9

42.2

20.9

0.405

5796 US Highway 64, Farmington, NM 87401

Matrix Spike Dup (1444019-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Benzene

Toluene Ethylbenzene

p,m-Xylene

o-Xylene

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

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



15

15

15

15

15



Project Name:

Jicarilla 0 #3E

PO Box 18 Flora Vista NM, 87415

Analyte

Project Number:

12035-0069

Project Manager:

Reporting

Result

Limit

Sheena Leon

Spike

Level

Source

Result

%REC

Limits

RPD

%REC

Reported:

31-Oct-14 15:34

RPD

Limit

Notes

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Units

Blank (1444018-BLK1)				Prepared: 2	9-Oct-14	Analyzed: 3	30-Oct-14	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg					
Surrogate: o-Terphenyl	38.6		11	40.0		96.6	50-200	
LCS (1444018-BS1)				Prepared &	Analyzed:	29-Oct-14		
Diesel Range Organics (C10-C28)	463	25.0	mg/kg	499		92.6	38-132	
Surrogate: o-Terphenyl	39.9		"	40.0		99.8	50-200	
Matrix Spike (1444018-MS1)	Sourc	e: P410117-	01	Prepared &	Analyzed:	29-Oct-14		
Diesel Range Organics (C10-C28)	507	39.9	mg/kg	499	53.5	90.9	38-132	
Surrogate: o-Terphenyl	43.4		"	39.9		109	50-200	
Matrix Spike Dup (1444018-MSD1)	Sourc	e: P410117-	01	Prepared &	Analyzed:	29-Oct-14		

Matrix Spike Dup (1444018-MSD1)	Source	e: P410117-	01	Prepared &	: Analyzed:	29-Oct-14				
Diesel Range Organics (C10-C28)	540	40.0	mg/kg	500	53.5	97.4	38-132	6.33	20	
Surrogate: o-Terphenyl	42.7		"	40.0		107	50-200			



Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

Reporting

12035-0069

Flora Vista NM, 87415 Project Manager:

Sheena Leon

Spike

Source

%REC

Reported: 31-Oct-14 15:34

RPD

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1444019 - Purge and Trap EPA 50	30A									
Blank (1444019-BLK1)				Prepared &	Analyzed	29-Oct-14				
Gasoline Range Organics (C6-C10)	ND	0.20	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.347		"	0.399		86.9	50-150			
LCS (1444019-BS1)				Prepared &	Analyzed	29-Oct-14				
Gasoline Range Organics (C6-C10)	286	9.99	mg/kg	292		98.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.363		"	0.400		90.8	50-150			
Matrix Spike (1444019-MS1)	Source	e: P410117-	01	Prepared &	Analyzed	29-Oct-14				
Gasoline Range Organics (C6-C10)	283	9.98	mg/kg	291	ND	97.3	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.363		"	0.399		91.0	50-150			
Matrix Spike Dup (1444019-MSD1)	Sourc	e: P410117-	01	Prepared &	Analyzed:	29-Oct-14				
Gasoline Range Organics (C6-C10)	297	9.99	mg/kg	292	ND	102	75-125	4.80	15	·
Surrogate: 4-Bromochlorobenzene-FID	0.370	-	n	0.400		92.5	50-150			



Project Name:

Jicarilla 0 #3E

PO Box 18 Flora Vista NM, 87415 Project Number:

12035-0069

Project Manager:

Reporting

Sheena Leon

Spike

Source

%REC

Reported: 31-Oct-14 15:34

RPD

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1444025 - 418 Freon Extraction										
Blank (1444025-BLK1)				Prepared &	Analyzed:	29-Oct-14				
Total Petroleum Hydrocarbons	ND	34.9	mg/kg							
Duplicate (1444025-DUP1)	Sourc	e: P410123-	01	Prepared &	Analyzed:	29-Oct-14				
Total Petroleum Hydrocarbons	416	35.0	mg/kg		392		•	5.98	30	
Matrix Spike (1444025-MS1)	Source	e: P410123-	01	Prepared &	Analyzed:	29-Oct-14				
Total Petroleum Hydrocarbons	2310	34.9	mg/kg	2010	392	95.2	80-120			•





Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0069

Reported:

Flora Vista NM, 87415

Project Manager:

Sheena Leon

31-Oct-14 15:34

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference



CHAIN OF CUSTODY RECORD

Client: Client	Alin	Pro	jeçt Name / Location	on:) #2	E								Α	NALY	/SIS	/ PAF	RAM	TER	is			•
Email results to:	00	Sa	mpler Name:	$\overline{}$	<u>ა</u>				8015)	1 8021)	8260)	<u>s</u>			C	-						
Client Phone No.:		Clie	ent No.: 1202	H00	00	1			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	418.1)	RIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Vo of Cont	lume ainers	Pr HNO ₃	eservat HCI	ive Cool	TPH (ВТЕХ	voc (RCRA	Cation	RCI	TCLP	со та	TPH (418.1)	CHLORIDE			Sampl	Samp
DrillPil	108414	12100	P410123-01	14ozgl	ŒŸW	-		X	X	X							X				√	/
						7	s.*						_			_						
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Relinquished by: (Signature)	rema	Low		H2014	530	Rece	lei	10-	31	A	m			<u>.</u>						19/29/1		
Relinquished by: (Signature)	<u> </u>	<u> </u>				Rece	ived b	oy: (S	ignat	ure)						_		_				
Sample Matrix Soil X Solid Sludge	Aqueous 🗆	Other 🗆																				
☐ Sample(s) dropped off after	hours to se	cure drop o	if area.	غ و	nv Anai	ir (D†	e Bor	C I)	3	.7								•		
5795 US Highway 6	4 • Farmingt	on, NM 8740	01 • 505-632-0615 • 7	Three Spring	gs • 65 N	1erca	do Str	eet, S	Suite	115, D	uran	go, C	0 813	301 •	labo	raton	y@en	virote	ch-inc	com		

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		1.00		T T			
Standards	NA	NA	2500	1000	.10	50	80000
Orill Pit Composite	1 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

Entire Report Reviewed By:

Date:

2/5/14

Tim Cain, Laboratory Manager

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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.





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

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	1	1405012	01/30/14	02/04/14	EPA 8021B	
Ethylbenzene	5.54	0.05	mg/kg	l	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
Statogate: 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	t	1405012	01/30/14	02/04/14	EPA 8015D	
Diesel Range Organics (C10-C28)	13100	29.9	mg/kg	1	1405013	01/30/14	02/03/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
otal Petroleum Hydrocarbons	17900	200	mg/kg	10	1405016	01/30/14	01/30/14	EPA 418.1	
Cation/Anion Analysis									
hloride	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: Project Manager: 12035-0046

Tiffany McIntosh

Reported:

05-Feb-14 14:15

Backfill Material Composite P401089-02 (Solid)

Analyte	Resuit	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	





Project Name:

Jicarilla 0 #3E

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0046

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Anches	n '	Reporting		Spike	Source		%REC	0.05	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch 1405012 - Purge and Trap EPA 5030A										
Blank (1405012-BLK1)				Prepared:	29-Jan-14	Analyzed:	03-Feb-14			
Benzenc	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05								
p-Xylene	ND	0.05	**		•					
Total Xylenes	ND	0.05	и					•		
Fotal BTEX	ND	0.05	**							
Surrogate: 1,3-Dichlorobenzene	41.4		ug/L	50.0		82.7	80-120			
urrogate: Bromochlorobenzene	45.4		*	50.0		90.8	80-120			
Ouplicate (1405012-DUP1)	Sou	rce: P401086-4	0 i	Prepared: 2	9-Jan-14	Analyzed: (3-Feb-14			
Penzene	ND	0.50	mg/kg		ND				30	
'oluene	9.90	0.50	•		10.2			3.13	30	
thylbenzene	4.00	0.50	п		4.00			0.166	30	
.m-Xylene	45.0	0.50	n		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	5 8.6		•	50.0		117	80-120			
Satrix Spike (1405012-MS1)	Sour	ce: P401086-0)]	Prepared: 2	9-Jan-14	Analyzed: 0	3-Feb-14			
еддене	45.3		ug/L	50.0	ND	90.5	39-150			
pluene	68.5		•	50.0	20.4	96.2	46-148			
hylbenzene	57.2			50.0	7.99	98.5	32-160			
nı-Xylene	181		•	100	89.6	91.5	46-148			
Xylene	71.2			50.0	24.1	94.3	46-148			
rr ogate: 1,3-Dichlorobenzene	54.9		**	50.0		110	80-120			
rrogate: Bromochlorobenzene	59.9		•	50.0		120	80-120			





PO Box 18

Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

Project Number: Project Manager: 12035-0046 Tiffany McIntosh

Reported: 05-Feb-14 14:15

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1405012 - Purge and Trap EPA 5030A				<u></u>	_				_	
Blank (1405012-BLK1)				Prepared: 2	29-Jan-14 /	Analyzed: 0	3-Feb-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1405012-DUP1)	Sou	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)	Sou	rce: P401086-	01	Prepared: 2	9-Jan-14 A	Analyzed: 0	3-Feb-14			
Gasoline Range Organics (C6-C10)	1.31		mg/L	0.450	0.88	94,4	75-125			





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

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1405013 - DRO Extraction EPA 3550C										
Blank (1405013-BLK1)				Prepared: 2	9-Jan-14 A	Analyzed: 30	0-Jan-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1405013-DUP1)	Sour	ce: P4010 8 6-6	91	Prepared: 2	9-Jan-14 A	Analyzed: 30	0-Jan-14			
Diesel Range Organics (C10-C28)	9060	30.0	mg/kg		9070			0.0775	30	
Matrix Spike (1405013-MS1)	Sour	:e: P401086-()1	Prepared: 2	9-Jan-14 A	nalyzed: 30)-Jan-14			
Diesel Range Organics (C10-C28)	8560	31.6	mg/kg	263	9070	NR	75-125			SPKI





Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0046

Project Manager:

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Resuit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1405016 - 418 Freen Extraction				4.50 · · · ·						
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





PO Box 18

Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

Project Number: Project Manager: 12035-0046

Tiffany McIntosh

Reported: 05-Feb-14 14:15

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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)	Sour	ce: P401089-	02	Prepared &	Analyzed:	30-Jan-14				
Chloride	547	9.95	mg/kg	498	19.0	106	80-120	-		
Matrix Spike Dup (1405017-MSD1)	Sour	ce: P401089-	02	Prepared &	Analyzed:	30-Jan-14				
Chloride	552	9.87	mg/kg	494	19.0	108	80-120	0.949	20	





Flora Vista NM, 87415

Project Name:

Jicarilla 0 #3E

PO Box 18

Project Number:

12035-0046

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



CHAIN OF CUSTODY RECORD

15.

Client:		Pro	ject Name / Location	on:																	 1
Lrocs Coarati	#3E			ANALYSIS / PARAMETERS																	
Email results to:	0	Sar	mpler Name:	1		- L'A		_				1									
T.McIntush/S	13. Lean				015)	802	3260					_									
Email results to: T. YOLD LUST/S Client Phone No.: 505-3	OCHLO					BTEX (Method 8021	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	18.1)	RIDE			C	Intact			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		tive CCL	TPH (Method 8015)	втех	voc (RCRA	Cation	P.C.	TCLP v	CO Tab	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Drupa Comprate	Van H	11:23	P401089-01	-4-02 Van			V	X	X							X	X			Y	V
Composite	1120/14	11:36	P401084-02	1-402 tar	ļ		-										X			L	- V
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Relinquished by: (Signature)	1			Date Time	Bece	ived	by: (S	lians	ture)						<u> </u>				Date	<u></u>	Time
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Relinquished by: (Signatiffe)	_						by: (s				-=-				-						
Sample Matrix Soil Solid Sludge	Aqueous [Other]										~ 			*				_	
Sample(s) dropped off after				 env	ir	ot	e	C	'n	IC),3		10.	4							

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-incl

Page 11 of 11

Two Copies	priate District (Jince		State of New Mexico							Form C-105											
District I	District I			nergy,	, Minerals an	d N	[atura]	l R	esources					R	evised A	ugust 1. 2011						
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>			1					1. WELL API NO.														
811 S. First St., A. District III		il Conserva	isi	30-043-21165 2. Type of Lease																		
1000 Rio Brazos I		220 South S	s I	STATE FEE FED/INDIAN																		
District IV 1220 S. St. Francis		Santa Fe, 1	05	3. State Oil & Gas Lease No.																		
							JICARILLA APACHE LEASE # 417															
	RREC	LETION RE	ML																			
4. Reason for fi	ung:									5. Lease Name or Unit Agreement Name IICARILLA O												
COMPLET	ION REPO	RT (Fill in bo									6. Well Number: 3E											
					hrough #9, #15 Da ordance with 19.1					/or												
7. Type of Com	pletion:																					
8. Name of Oper		WURKUVER	L DEEP	ENING	PLUGBACI	K	DIFFE	:KE	NT RESERV	OIR	9. OGRID											
LOGOS OPERA	TING, LLC										289408											
10. Address of C 4001 North Butle	perator er Avenue, B	uilding 7101 i	annington	, NM 8	7401						11. Pool name	or W	ildcat									
12.Location	Unit Ltr	Section	Town	ship	Range	Lo	t		Feet from t	he	N/S Line	Fee	t from the	E/W	Line	County						
Surface:													····									
вн:														i								
13. Date Spudde	d 14. Date	T.D. Reached		Date Ri 1/13	g Released	16. Date Completed (Ready to Produce)							7. Eleva T, GR,	ations (DF and RKB, etc.)								
18. Total Measur	ed Depth of \	Well	19.1	Plug Ba	ick Measured Dep	oth		20.	Was Direct	iona	l Survey Made?	' -	21. Ty	e Electr	ic and Or	ther Logs Run						
22. Producing Int	terval(s), of th	nis completion	1 - Top, Bo	ttom, N	ame				····													
23.				CAS	ING REC	OR	D (R.	enc	ort all str	ing	s set in we	ell)		. ,:								
CASING SI	ZE	WEIGHT L	3./FT.								CEMENTIN		CORD	Al	MOUNT	PULLED						
						{																
24.	<u> </u>			LIN	ER RECORD					25.	<u> </u>	IRI	NG REC	ORD								
SIZE	TOP	l E	ОТТОМ	LJII 1.	SACKS CEME	ENT	SCR	EEN	i	SIZ			PTH SE	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	PACKI	ER SET						
Name and the same																						
26. Perforation	record (interv	val. size, and	number)	mber)						FR.A	ACTURE, CEMENT. SQUEEZE. ET AMOUNT AND KIND MATERIAL U											
					DEPTH INTERVAL						AMOUNT A	א עא	LND MA	TEKIAL	USED							
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28.]	PRO	ODU	C7	TION		•											
Date First Product	ion	Produ	ction Meth	od (Fla	owing, gas lift. pu	mpin	ıg - Size	ana	type pump)		Well Status	(Proc	l. or Shut-	in)								
Date of Test	Hours Tes	ted C	hoke Size		Prod'n For Test Period		Oil -	ВЫ	1	Gas - MCF Water - Bbi.					Gas - O	il Ratio						
	<u> </u>								1				Long		NT 200							
Flow Tubing Press.	Casing Pre		alculated 2 our Rate	4-	Oil - Bbl.			as -	MCF	"	Vater - Bbl.		avity - API <i>- (Corr.)</i>									
29. Disposition of	Gas (Sold, us	ed for fuel, w	me d, etc.)									30. T	est Witne	ssed By								
31. Last Attachmer	uš		-																			
32. If a temporary	pil was used	at the well, at	ach a plát	with the	location of the ti	einpe	rary pit	. 8	EE ATTACI	IED	,											
33. If an on-site bu	rial was used	at the well, r	port the co	act loc	auon of the on-si	e hu	rial				. 400 5 400 5 6 131		N14	D 1005	100237							
Thereby certify			-		Latitude .	6.14	6806N	e n	Longitu nd comple	te f	107.140858W o the best of	mv		D 1927 Ige and								
Signature 7	Le	ni	J. 1. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	P	Printed		essions		Title		Operations				ate of							
E-mail Address	tsession	is@logosre	sourcesl	lc.com	1										γ	· 117						



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 ht
Date: 6-19-14

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@logosresourceslic.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.

Very truly yours,

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,

Superintender

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 BLA.

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@logosresourcesilc.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 0 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

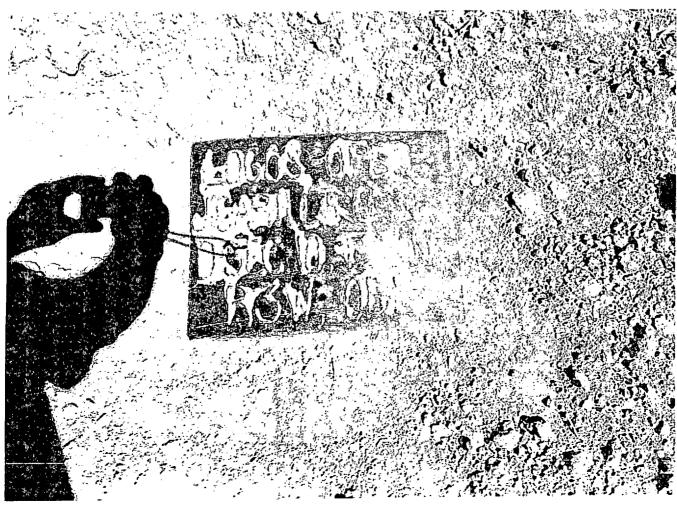
Complete items 1, 2, and item 4 if Restricted Deliver Print your name and address that we can return the contact of the back or on the front if space pen 1. Article Addressed to: BTA P-J-Boy 167	3. Also complete y is desired. ss on the reverse eard to you. k of the mailpiece, mits.	A. Sign X B. Recs D. Is dell	lived by (P	crinted Name)	☐ Agent ☐ Addinessee C. Date of Delivery 5 - (2 -) 4 item 1? ☐ Yes elow: ☐ No
	87528	☐ Regi	fied Mail stered ed Mail		all Seipt for Merchandise
Article Number (Transfer from service label)				? (Extra Fee)	☐ Yes
PS Form 3811, February 2004		0001	2785	5453	
	Domestic Retur	n Receipt			102595-02-M-1540

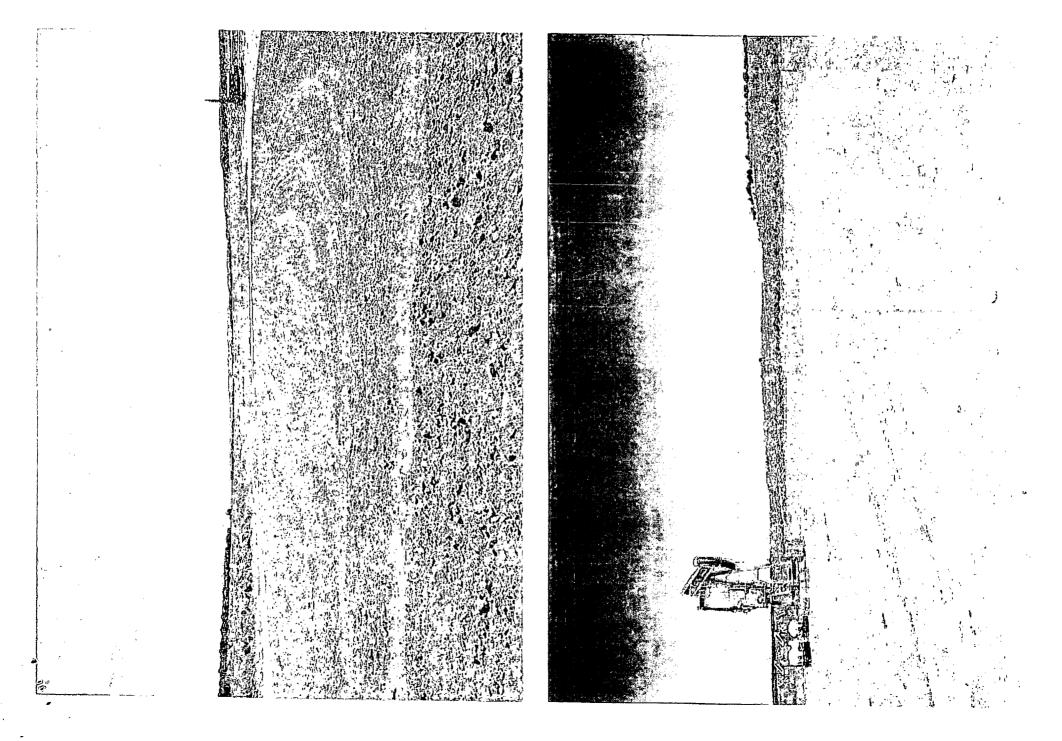
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m (Sent TO B74 -	J.c.	aire A	Survey Mil
701	Street, Apt. No.: 01 PO Box No. (20.	341	67	5) 4
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Reclamation Form:
Date: 6-23-14
Well Name: <u>JICARILLA O 3E</u>
Footages: 919' FSL & 1738' FEL Unit Letter: 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: 639-14
Road Completion Date: $6-23-14$
Seeding Date: 8-17-14
PIT MARKER STATUS
(When Required) Picture of Marker set needed
Date Marker Placed: <u>21-14</u>
Latitude: 36.1468%
Longitude: <u>/07, /40858</u>
Date Pit Manifold Removed:
Construction Inspector Signature: Wangue At-
Date Inspected: 6-23-14







	Temporary Pit Weekly Inspection Form								
WELL NAME:	JICAR ILLA O 3E		Al	PI NO:	30-043-21165				
LEGALS:	Section:	10	Township: 22	2N	Range: 3W				
Drilling RD Date:	12/21/2013			*. * . * . * . * . * . * . * . * . * .					

	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	RAMSEY	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	11	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	Y	Υ	Υ	Υ	Υ	Υ
Any liner breeches												
(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.												
pit (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Temp pit free of misc.		1				1						
Solid	1					}		1				
Waste/Debris(Y/N)	LEARANCE/	Y	Υ	Υ	Υ	Υ	Y	Υ	γ	Υ	Υ	γ
Discharge Line												
Integrity Good (Y/N)	N	N	N	N	N	N	N	N	N	N	N	N
Fence Integrity Good												
(Y/N)	Y	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ
Any Dead Wildlife/	l.,	L .										
Stock (Y/N) Freeboard to be 2' or >	N	N	N	N	N	N	N	N	N	N	N	N
Est. (ft)	Y (8')	Y (8')	Y (8')	V 14 715	y (anh	W toll	\ (a)\	N 1011	14.0%	10 10 511	v (8)	N (01)
Was the OCD	1 (8)	Y 10 /	11(8)	Y (12')	Y (10')	Y (8')	Y (8')	Y (B')	Y (10')	Y (12')	Y (8')	Y (8')
contacted (Y/N)	N	N	l _N	N	N	N	N.	N]	N		
contacted (1)14	 	1	111	i i		<u> </u>	N	IA	N	- N	N	N
Pictures taken (Y/N)	Y	V	ly	l _v	l _v	V	v	V	V	Y	V	Y
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		CLEARANCE/L	. 8'			8'	CLEARANCE/			İ		
		INER ON	CLEARANCE/	1		CLEARANCE/	1			1	1	
		NORTHEAST	NORTHEASR			NORTHEAST	ABOUT 20				1	
		OF PIT TORN	CORNER PIT			SIDE ABOUT	YRDS THERE					
		@ 2 PLACES	HAS HOLE IN			20 YRDS, 2						
Comments:		BUT STILL	I .			1	IS A HOLE,					
		HAS	IT, IT HAS	1	1	HOLES, ITS	BUT IT STILL	8'	. }		}	1
		1	ABOUT 5'			ABOUT 2'	HAS 6'	CLEARANCE/			1	1
		CLEARANCE	CLEARANCE	ļ		FROM TOP	CLEARANCE	HAD HOLE IN	· [Į.
		ABOUT 5'	FROM HOLE			AND STILL	BEFORE IT	IT, CLEAN IT		1		
	8'	FROM FLUID	TO TOP OF	12'	10'	HAVE 6'	REACHES	& PATCH	10'	12'	81	8'
.	CLEARANCE	LEVEL	FLUID	CLEARANCE	CLEARANCE	CLEARANCE	LIQUID	BOTH HOLES	CLEARANCE	CLEARANCE	CLEARANCE	CLEARANCE

			Tempora	ry Pit Wee	kly Inspection	on Form						
WELL NAME:	ICARILLA O 3E			API NO:	30-043-21165							
LEGALS:	Section:	10	Township:		Range:	3W						
Drilling RO Date:	12/12/2013											
	Ramsey											
Inspector's Name	Hatalie	Casey Ridgley										
WEEK#	13		15	16	17	18	19	20	21	22	23	24
DATE	05/19/14	06/11/14										
Well sign on location (Y/N)	Y	Υ										
Any liner breeches		1										
(Y/N) Any fluid seeps/spills	N	N										
Any fluid seeps/spills (Y/N)	N	N I					1					
HC's on top of temp.							-					
pit (Y/N)	N	N										_
Temp pit free of misc	:-					:						
Solid						ļ						
Waste/Debris(Y/N) Discharge Line	Υ	Υ										
Integrity Good (Y/N)	N	\v				Į						
Fence Integrity Good	-	<u> </u>										
(Y /N)	Υ	N	_									
Any Dead Wildlife/												
Stock (Y/N) Freeboard to be 2' or	N	N										
> Est. (ft) Was the OCD	Y (8')	Υ		*								
contacted (Y/N)	N	N										
Pictures taken (Y/N)	Υ	N										
	<u> </u>				 							
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Comments:												
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	01	NO FENCE										
	8'	NO FENCE							Į.			İ
`L	LLEAKANCE	/PIT FILLED IN						<u>L</u>]		1	



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

Date: October 30, 2014

OIL CONS. DIV DIST. 3

To: NMOCD

NOV 0 3 2014

Re:

Closure Permit #12235

Jicarilla O 3E

API 30-043-21165

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 NMOCD Closure Notification included with permit.
 - o Please find attached explanation on NMOCD Pit Closure notification.
- Please see attached copy of the TPH 418.1. TPH8015, and BTEX 8021Environmental Sample Result. Witnessed 10/28/14 by NMOCD.

Regards,

Jamie Goodwin

Regulatory Technician