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
12791 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

45-35608
45-25607
45-35627

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: WPX Energy Production' LLC OGRID #: 120782
Address: PO Box 640/721 S Main Aztec, NM 87410
Facility or well name: Chaco 2308-04L 283H& Chaco 2308-04L #284H & Chaco 2308- 04L #459H
API Number: 30-045-35608,30-045-35607,30-045-35627 OCD Permit Number:
U/L or Qtr/Qtr L Section 04 Township 23N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.25544N Longitude -107.69547W NAD: ☐1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Logs #5 30-045-35423 Ground Water more pertinent (still >100')
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: bbl Dimensions: L x W x D

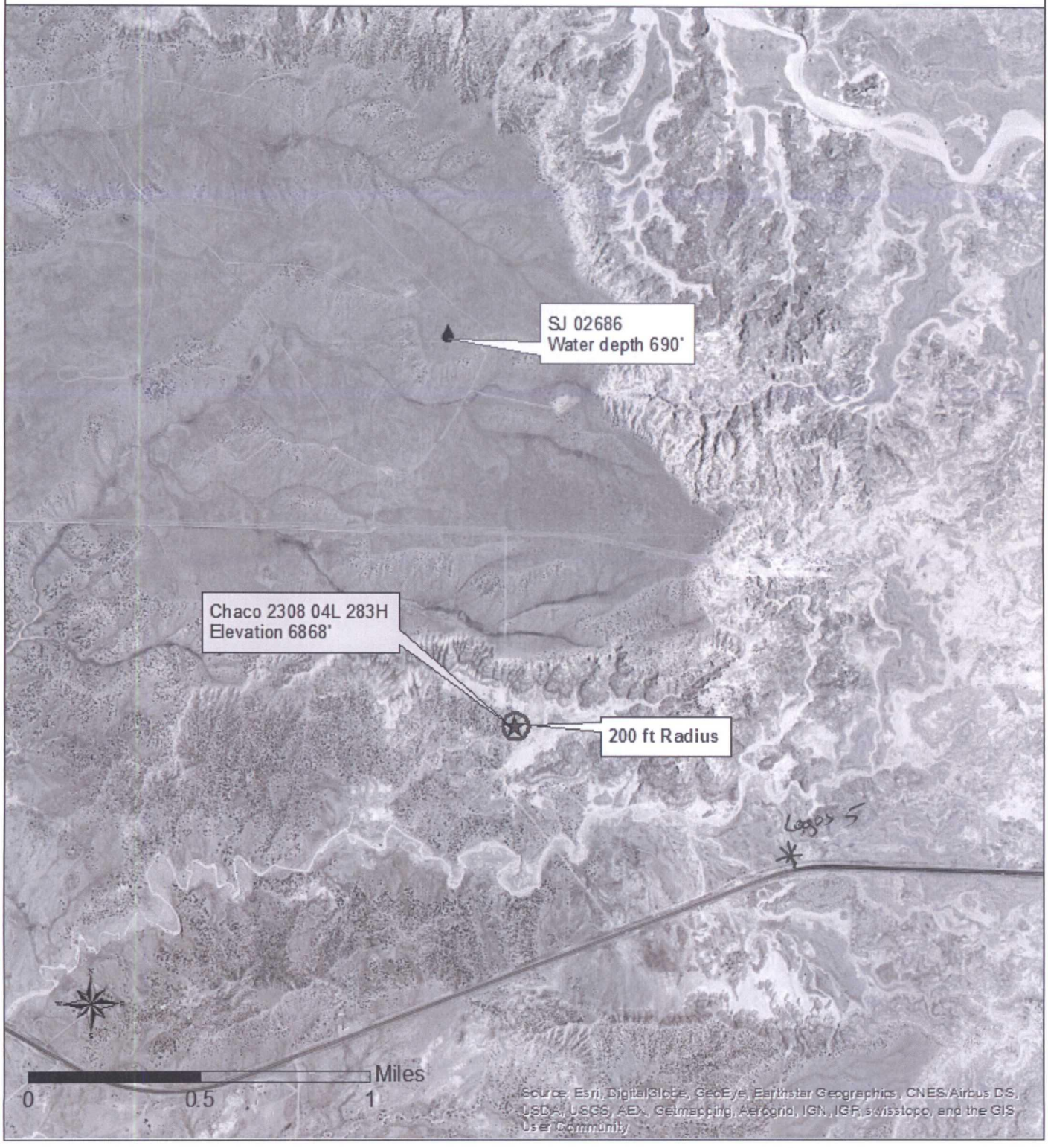
3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Double wall, double bottom, Steel
☒ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

RECEIVED
MAR 16 2015
NMOCD

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☒ Alternate. Please specify As per BLM specifications

Siting Criteria Map I
Water Wells
WPX Energy Production, LLC
Chaco 2308-04L 283H
T23N, R08W, Section 04 NMPM
San Juan County, New Mexico



Siting Criteria Map II
Topographic Features
WPX Energy Production, LLC
Chaco2308 04L No. 283H
T23N, R08W, Section 4 NMPM
San Juan Country, New Mexico

WPX Energy requests the following variances:

1. The BGT will be protected from run on by being installed upon a top felt rock shield with a overlay of 30 mil rubber liner attached to the sidewalls of the inside of the containment berm. The 30 mill rubber liner will provide equal and/or better protection in the prevention of contamination of fresh water and protecting public health and the environment.
   (See attached photo))

2. A 42 inch tall, 12 gauge coated metal steel fence will be constructed around the BGT to protect livestock/wildlife as specified by the federal Surface Management Agency or, if not federal land/minerals; which will provide equal and/or better protection of a fence while preventing contamination of fresh water, protecting public health and the environment.
   (See attached photo)

3. If the surface owner is of public entity (i.e.: BLM) WPX Energy will notify by email the intent to close the BGT in place of a certified mail letter. WPX Energy will request a read receipt of the email which will be equal and/ or equivalent notification as certified mail.

Thank you,

Vanessa Fields
Environmental Specialist

CC: /
Environmental File

WPX Energy Co., LLC
San Juan Basin: New Mexico Assets
Production BGT: Buried Double-Wall Steel Tank
Design and Construction Plan

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction (D&C) of Below Grade Tanks (BGT) using buried double-wall steel tanks on WPX Energy Co, LLC (WPX) locations in the San Juan Basin of New Mexico. For those BGT which do not conform to this standard plan, a separate well-specific D&C plan will be developed and utilized.

General Plan Requirements:

1. WPX will post a well sign in accordance with the federal Surface Management Agency and rule NMAC 19.15.17.11.C

2. As a variance a 42 inch tall, 12 gauge coated metal steel "Fence" will be constructed around the BGT to protect livestock/wildlife as specified by the federal Surface Management Agency or, if not federal land/minerals, NMOCD rule 17 requirements. See Attached Design/photo.

3. The buried BGT will be constructed of steel with double-walls and double-bottom, welded following appropriate API and industry codes, coated with an epoxy based paint, covered with a steel #9 mesh screen, and equipped with an EFM to monitor high liquid levels and automatically shut off liquid discharges. A solid riser pipe will be installed between the interstitial space of the double-walls to allow monthly inspection to determine tank integrity.

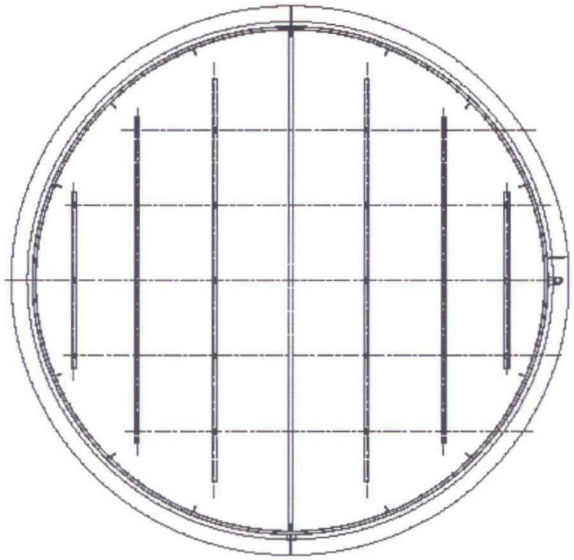
4. WPX will design and construct a BGT to contain liquids associated with the dehydration and compression of produced natural gas, which will be resistant to ultra violet light and the contents of the tank to prevent contamination of fresh water resources and protect public health and the environment.

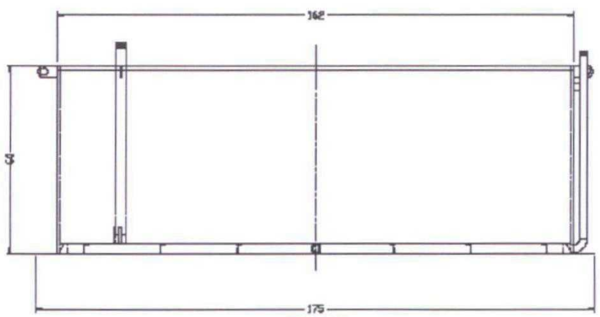
5. The BGT foundation will be level and free of rocks, debris, sharp edges or irregularities and have a firm compacted bottom and sidewalls that are stable for the soil conditions.

6. The BGT will be protected from run on by being installed within the impervious secondary containment provided by the AST tanks on location. See attached Design (Same as Fence)

7. The BGT will be placed in the excavation such that there is 30 mil rubber liner overlay between the surrounding soils and the tank top see attached design.

8. A solid riser pipe will be installed to allow withdrawal of liquids by suction. The riser will draw from the bottom of the BGT, capped when not in use and sloped to the BGT to allow drainage of liquids not collected during withdrawal operations.





ELEVATION

NOTES
1. INTERIOR AND EXTERIOR TO BE VINYL WASH PREPARED AND COATED WITH GREEN DURA-PLATE EPOXY.
5. AFTER WELDING, TEST SPACE BETWEEN BOTTOMS W/ NO MORE THAN 3 PSI AIR.

WEIGHT: 6,470 LBS.

PESCO

PIT TANK, DOUBLE BOTTOM, DOUBLE WALL
120 BBL 13'-6" OD X 5'-0" HIGH

WILLIAMS | 1/36 | BUCKLES

CN77
CUSTOMER

WPX Energy Co., LLC
San Juan Basin: New Mexico Assets
Production BGT: Buried Double-Wall Steel Tank
Operations and Maintenance Plan

In accordance with Rule 19.15.17 NMAC, the following plan describes the general operations and maintenance (O&M) of production Below Grade Tanks (BGT) on WPX Energy Co, LLC (WPX) locations in the San Juan Basin of New Mexico. For those BGT which do not conform to this standard O&M plan, a separate well specific O&M plan will be developed and utilized.

1. WPX will inspect the BGT monthly for leaks and damage. Electronic copies of the inspections will be kept at the WPX San Juan Basin office for a minimum of five years following completion. Copies of the inspections will be available to NMOCD upon request.

2. Any oil or hydrocarbon collecting on the BGT will be removed. Saleable condensate will be returned to the sales tank. Slop oil from compression will be recycled with Safety Kleen, Farmington, NM or Hydropure, Aztec, NM (No Permit Required).

3. WPX will only allow produced liquids meeting the RCRA exemption for O&G wastes to be stored in the BGT. WPX will not discharge or store any hazardous waste as defined under RCRA 40CFR 261 and 19.15.2.7.H.3 NMAC in any BGT.

4. WPX shall maintain sufficient freeboard for to prevent overflow. Discharges to the BGT will be shutoff automatically if the high-level alarm is triggered from the EFM or manually if the EFM is not functional.

5. The Steel fencing around the perimeter of the BGT shall be maintained as protection
from run-on.

6. Produced water will be disposed by evaporation or transport any of the following NMOCD approved facilities depending on the well location: Basin Disposal, Inc in Bloomfield, New Mexico (Permit # NM-01-005), WPX Energy Rosa SWD#1 (Permit # SWD-916), WPX Energy Rosa #94 (Permit # SWD-758), Burlington Resources Jillson SWD#1 (Permit #R10168A), or other NMOCD approved water disposal facilities.

7. If the tank integrity is compromised:
   a. All discharges will be shut off to the BGT.
   b. All liquids will be removed as soon as possible but no later than 24 hours after discovery.
   c. WPX will notify and report to NMOCD in accordance to 19.15.29 NMAC and all other applicable agency's as require.

WPX Energy Co., LLC
San Juan Basin: New Mexico Assets
Production BGT: Buried Double-Wall Steel Tank
Closure Plan

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below-grade tanks (BGT) on WPX Energy Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard closure procedure for all BGTs regulated under Rule 19.15.17 NMAC and operated by WPX. For those closures which do not conform to this standard closure plan, a separate BGT specific closure plan will be developed and utilized.

Closure Conditions and Timing for BGT:

- Within 60 days of cessation of operation WPX will:
  - Remove all liquids and sludge and dispose in a division approved manner

- Within 72 Hrs or 1 week prior to closure WPX will:
  - Give notice to Surface owners by certified mail. For public entities by email as specified on the variance page.
  - Give notice to District Division verbally and in writing/email

- Within 6 months of cessation of operation WPX will:
  - Remove BGT and dispose, recycle, reuse, or reclaim in a division approved manner
  - Remove unused onsite equipment associated with the BGT

- Within 60 Days of Closure WPX will:
  - Send the District Division a Closure Report per 19.15.17.13.F

General Plan Requirements:

1. Prior to initiating any BGT Closure except in the case of an emergency, WPX will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or 1 week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner of record will be notified as soon as practical.

2. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
   a. Operators Name (WPX)
   b. Well Name and API Number
   c. Location (USTR)

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed at one of the following NMOCD approved facilities depending on the proximity of the BGT site: Rosa Unit SWD #1 (Order: SWD-916, API: 30-039-27055), Rosa Unit #94 (Order: SWD-3RP-1003-0, API: 30-039-23035), Jillson Fed. SWD #001 (Order: R10168/R10168A, API: 30-039-25465), Middle Mesa SWD #001 (Order: SWD-350-0, API: 30-045-27004) and/or Basin Disposal (Permit: NM-01-0005).

4. Solids and sludge's will be shoveled and /or vacuumed out for disposal at Envirotech (Permit Number NM-01-0011).

5. WPX will obtain prior approval from NMOCD to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liners materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from the location.

7. Following removal of the tank and any liner material, WPX will test the soils beneath the BGT as follows:
   a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
   b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13

Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	**Constituent**	**Method**	**Limit**
≤50 feet	Chloride	EPA 300.0	600 mg/kg
	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	**Constituent**	**Method**	**Limit**
51 feet-100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

Depth below bottom of pit to groundwater less than 10,000 mg/1 TDS	Constituent	Method	Limit
>100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SE-846 Method 8021B or 8015M	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

(1) Or other test methods approved by the division
(2) Numerical limits or natural background level, whichever is greater (19.15.17.13 NMAC-Ro, 19.15.17.13 NMAC 3/28/2013)

8. If the Division and/or WPX determine there is a release, WPX will comply with 19.15.17.13.C.3b

9. Upon completion of the tank removal, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and prevent ponding.

For those portions of the former BGT area no longer required for production activities, WPX will seed the disturbed areas the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. WPX will notify the Division when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

a. Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels
b. Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds)

OR

c. Pursuant to 19.15.17.13.H.5d WPX will comply with obligations imposed by other applicable federal or tribal agencies in which their re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

10. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

Closure Report:
All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner & NMOCD)
- Backfilling & Cover Installation
- Confirmation Sampling Analytical Results
- Disposal Facility Name(s) and Permit Number(s)
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation

LOGOS
RESOURCES LLC

4001 N. Butler Ave, Building 7101
Farmington, NM 87401
Phone: (505) 436-2627
kgraham@logosresourcesllc.com

Date: January 23, 2013

To: Jonathan Kelly, Compliance Officer - NMOCD

Re: Test Hole Results - Logos #5 and Logos #6

Dear Mr. Kelly,

MO-TE Drilling, on behalf of Logos Operating, LLC, has recently completed the drilling of a 120' deep test water hole adjacent to the Logos No. 5 well location in Section 4, T23N, R8W, NMPM. Per NMOCD request, the Logos #5 location was tested January 17, 2013 for groundwater level due to unknown depth to groundwater in the upper Kimbeto Wash. No water was found in the course of drilling the test hole as detailed on the attached drilling report. Based on these results, Logos Operating, LLC requests approval of our previously submitted C-144. Please note that Logos Operating, LLC submits that these results also be used for approval of the C-144 form previously submitted for the Logos #6 well located in Section 8, T23N, R8W, NMPM; as the ground water for this location is also influenced by the same Kimbeto Wash.

Should you have any questions or concerns regarding the information above, or the information contained in the attached report, please contact me at 505-426-2627.

Regards,

Kristy Graham
Director of Administration and Engineering Support
Logos Operating, LLC

MO-TE DRILLING, INC.

DAY Thur

DRILLER Zach M		LEFT TOWN	ARRIVED FIELD
HELPER Bob H.		LEFT FIELD	ARRIVED TOWN
HELPER Tom H.		TOTAL FOOTAGE TODAY	

RIG NO. 207 DATE 1-17-13 CLIENT Logos Operating

BEGIN WORK ON HOLE NO. Logos # 5 AT FEET

BEGIN WORK ON HOLE NO. Testhole G/4 AT FEET

TIME FROM	TIME TO	ACTIVITY
8 45	9 30	Drive to location
9 30	10 00	Rig Up
10 00	10 15	Drill 6¼ from 0' to 65'
10 15	11 15	Trip out wait 1 hour test for Water.
11 15	11 30	Drill 6¼ from 65' to 120'
11 30	1 00	Trip out, RDMO. wait 1 hour test for water
[redacted]	[redacted]	back fill hole.
1 00	2 15	Drive back to yard
		NO WATER
		0-10' SAND 50'-60' Shale
		10'-20' [redacted] SAND 60'-70' Shale/Clay
		20'-30' SAND/Clay 70'-80' Shell
		30'-40' Clay 80'-90' Clay
		40'-50' Sandston/Clay 90'-100' Clay

BIT RECORD SIZE & MAKE	SERIAL NO.	FOOTAGE

CIRCULATION MATERIAL QUAN.	UNIT	MATERIAL
		Water

100'-110' Standstone/Clay

110'-120' Sand Clay Mix

1 Day Rig	3500 00
1 Day Supervisor	775 00
Level Meter	100 00
Tax	311 72
Total	4686 72

NO. OF LOADS OF WATER SOURCE