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
12534 Proposed Alternative Method Permit or Closure Plan Application

OIL CONS. DIV DIST. 3

JAN 09 2015

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

21- 20629

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: **WHITING OIL & GAS CORPORATION OGRID #: 25078**
Address: **400 W ILLINOIS STE 1300 MIDLAND, TEXAS 79701**
Facility or well name: **STATE 1928 16 WELL # 1**
API Number: **30-021-20629** OCD Permit Number: 186163
U/L or Qtr/Qtr J Section _16_ Township __19N Range __28E County: HARDING COUNTY
Center of Proposed Design: Latitude 35.873583 Longitude -103.968639 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
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☒ yes ☐ no
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☒ String-Reinforced
Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 10,700 bbl Dimensions: L 100' x W 100' x D 6'

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: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

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

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

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6.

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 acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. ☐ Yes ☐ No ☐ NA
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . ☐ Yes ☐ No ☐ NA
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

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

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 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 application. ☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. ☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

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

10.
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
- ☐ 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 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

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 documents are 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 19.15.17.9 NMAC 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: _____

12.
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_2S, 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

13.
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 Fluid Management Pit ☐ 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

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 source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
On-Site 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.***

- ☐ 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 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ 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
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 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 belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure ~~Plan (only)~~ ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly **Approval Date:** 1/29/2015

Title: Compliance Officer **OCD Permit Number:** _____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. 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: 12/11/2014**

20.
Closure Method:

☐ Waste Excavation and Removal ☒ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 35.813583 Longitude -103.968639 NAD: ☒ 1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): KAY MADDOX Title: REGULATORY SUPERVISOR

Signature: Kay Maddox Date: 01/06/2015

e-mail address: KAY.MADDOX@WHITING.COM Telephone: 432.686.6709

WHITING OIL AND GAS CORPORATION
PIT CLOSURE REPORT

STATE 1928 16 Well # 1
API NO 30-021-20629

1) The pit will be closed within six (6) months from the date that the drilling or workover rig is released. If necessary, the division district office may grant an extension not to exceed three (3) months.

   The rig was released 06/22/2014

2) Surface Owners will be notified by Certified mail at least 72 hours but not more than one week prior to closure of the Temporary pit. The notice shall include well name, API number and location.

   State was notified via email – reference attached copy of email

3) The Appropriate Division District Office (OCD) will be notified verbally and in writing at least 72 hours but not more than one week prior to closure of the Temporary pit. The notice shall include well name, API number and location.

   NMOCD was notified via email – reference attached copy of email

4) If on site burial is on PRIVATE LAND, Whiting will file a deed notice identifying the exact location of the onsite burial with the county clerk in county where onsite burial occurs

   Pit is located on State land however a deed notice was filed – see attached

5) All liquids from the pit will be removed prior to closure. Liquids will be disposed of at the Sundance Services, Inc. Parabo Disposal Facility (Permit No. 010003), unless they are recycled, reused, or reclaimed in a division district office-approved manner.

   Liquids from pit evaporated, no removal was required.

6) The pit will be stabilized with clean non-waste containing earthen material with a ratio no more then 3:1

   Pit was stabilized 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 safe and stable. The mixing ratio consisted of approximately 3 parts clean soil to 1 part pit contents.

7) After stabilization, the contents of the pit will be tested to determine whether concentrations are below standards. A five-point composite sample will be collected. The samples will be sent to an approved laboratory and analyzed for benzene, total BTEX, TPH, the GRO and DRO combined fraction, and chlorides. Assuming water could be encountered around 100', the following should not be exceeded:

   - Chlorides (ads determined by EPA method 300.1): 40,000 mg/kg or background concentration, whichever is greater
   - TPH (EPA SW-846 method 418.a or other division-approved EPA method): 2500 mg/kg.
   - GRO and DRO combined fraction (EPA SW-846 method 8015M): 1000 mg/kg.
   - BTEX (EPA SW-846 method 8021B or 8260B or other approved EPA method): 50 mg/kg
     - Benzene (EPA SW-846 method 8021B or 8260B or other approved EPA method): 10 mg/kg

   A five point composite sample was taken of the pit using sample tools and

all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b) results attached.

8) If the contents are above the concentration limits after stabilization Whiting will comply with 19.15.17.13.C (Waste Excavation and Removal)
   Not necessary
9) If it is determined that contents of the pit doesn't exceed the above-specified concentrations, the pit will be covered with compacted, non-waste-containing, earthen material. A division-prescribed soil cover will be constructed and the site will be re-contoured and re-vegetated, per Subsections D, E, F, G, H, of 19.15.17.13 NMAC
   The pit material passed solidification and testing standards. The pit area was then back filled with compacted, non-waste containing earthen material.
10) All areas associated with the pit that are no longer being used will be substantially restored to the condition that existed prior to oil and gas operations by placement of the soil cover re-contouring to match original contours and surrounding topography, and re-vegetating.
   This was done – please see attached pictures
11) If an alternative to the re-vegetation requirements is required to prevent erosion, protect fresh water, or protect human health and the environment, this alternative will be proposed to the surface owner. The proposed alternative, with written documentation demonstrating that the surface owner approves the alternative, will be submitted to the division for approval.
   No alternative is required
12) Soil cover will consist of 4' of non-waste containing earthen material with chloride concentrations less than 600mg/KG including 1' of topsoil
   Four feet of non-waste earthen cover was achieved including one foot of suitable material to establish vegetation.
13) All contents, including synthetic pit liners, will be buried in place. By folding outer edges of the pit liner to overlap waste material, and then installing a geomembrane liner cover that is 20 mil string reinforced LLDPE, synthetic material, impervious, resistant to ultra violet light, petroleum hydrocarbons, salts, acid and alkaline.
   These was done including placing a 20 mil LLDPE liner cover
14) Soil cover will be constructed to the site's existing grade and will prevent ponding of water and erosion of the cover material.
   This was done – reference attached photos
15) The first favorable growing season following pit closure, all disturbed areas associated with the pit and no longer being used will be seeded or planted.
   This area will be re-seeded during the next growing season in this area – reference attached letter
16) Seeding will be accomplished by drilling on the contour whenever practical, or by other division-approved methods. Vegetative cover will be considered complete when there is a life form ratio of +/- 50% of pre-disturbance levels with at least 70% total plant cover of pre-disturbance level (Excluding Noxious Weeds) OR in accordance to 19.15.17.13.H.5.d
   This will be done during the next growing season in this area
17) Seeding or planting will be repeated until the required vegetative cover is successfully achieved.
   Whiting will comply
18) When conditions aren't favorable for the establishment of vegetation (such as during periods of drought), the division will be contacted for approval to delay seeding or planting, or for approval to use additional cultural techniques such as mulching, fertilizing, irrigating, fencing, etc. **Attached letter**
19) The division will be notified when seeding or planting is completed, and when successful re-vegetation has been achieved.
   Whiting will comply

20) Place a steel marker at the center of the onsite burial. The marker shall be 4" diameter, at least 4' high and cemented 3' deep. The following will be welded, stamped or otherwise permanently engraved into the marker; operator name, lease name, well number and location, unit letter, section, township, range, and that the marker designates an onsite burial
Reference attached pictures

21) Within 60 days of closure, completion, a closure report will be submitted on form C-144, with necessary attachments, to document closure activities, including sampling results, a plot plan, and backfilling details. In this closure report, Whiting will certify that all information in the report and attachments is correct and that Whiting has complied with all applicable closure requirements and conditions specified in the approved Closure Plan. A plat of the temporary pit location will be provided on form C-105.

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-021-20629

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

7. Lease Name or Unit Agreement Name
STATE 1928

8. Well Number
161

2. Name of Operator
WHITING OIL AND GAS CORPORATION

9. OGRID Number 25078

3. Address of Operator
400 W ILLINOIS STE 1300 MIDLAND, TX 79701

10. Pool name or Wildcat
BRAVO DOME CARBON DIOXIDE GAS 640

4. Well Location
Unit Letter J 1659 feet from the SOUTH line and 1774 feet from the EAST line
Section 16 Township 19N Range 28E NMPM County HARDING

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5540' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☒		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:	☐		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

06/16/2014 SPUDDED WELL
06/17/2014 SET 9 5/8' J-55 SURFACE CSG IN 12 ¼" HOLE @ 724' W/ **450 CL C SXS CMT**, W/1.35 YIELD,PPG 14.8, GAL/SK 6.4, CIRCULATED 30 SXS CMT TO SURFACE
06/22/2014 TD WELL @ 2980 SET 5 ½" J-55 CSG IN 8 ¾" HOLE @ 2957' W/415 CL C SXS CMT YIELD 2.62, PPG 11.8, GAL/SK 15.6 PLUS 275 CLS CMT YIELD 1.86, PPG 13.20, GAL/SK10.0, **TOTAL 690 SXS CMT** CIRCULATED 20 SXS CMT TO SURFACE
06/22/2014 RELEASED RIG

Spud Date: 06/16/2014 Rig Release Date: 06/22/2014

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kay Maddox TITLE: REGULATORY ANALYST DATE: 06/23/2014

Type or print name Kay Maddox E-mail address: kay.Maddox@Whiting.com PHONE: 432-638-8475

For State Use Only

APPROVED BY:_____ TITLE_____ DATE_____
Conditions of Approval (if any):

Kay Maddox

From: Kay Maddox
Sent: Tuesday, December 02, 2014 10:26 AM
To: 'Smith, Cory, EMNRD'; Martin, Ed (emartin@slo.state.nm.us)
Cc: Danny Holcomb (djholcomb75@gmail.com); Lowe, Leonard, EMNRD (Leonard.Lowe@state.nm.us)
Subject: NOTIFICATION OF PIT CLOSURE

Whiting will be closing the pit for the well listed below on December 11, 2014

STATE 1928 16 Well # 1
API NO 30-021-20629
SECTION 16, T19N, R28E UNIT LETTER J
HARDING COUNTY, TEXAS

Kay Maddox
Regulatory Supervisor
Whiting Petroleum Corporation
and its wholly owned subsidiary
Whiting Oil and Gas Corporation
400 West Illinois Avenue, Suite 1300
Midland, TX 79701
Direct (432) 686-6709
Cell (432) 638-8475
kay.maddox@whiting.com
www.whiting.com

STATE OF NEW MEXICO

COUNTY OF HARDING

NOTICE OF PIT CLOSURE

In accordance with Section 19.15.17.13.E.4 of the NMOCD , the operator hereby provides notice of an on-site burial of a temporary Oil & Gas drilling pit. All rules and regulations of Rule 19.15.17 have been adhered to.

Lease name:	STATE 1928 16
Well No:	1
API No:	30-021-20629
TWN & RGE:	TWN 19N RGE 28E Section 16
Unit Letter:	J
Footages:	1659 FSL & 1774 FEL
Date of Closure:	12/11 /2014

IN WITNESS WHEREOF, the recordation notice of Pit Closure/burial has been executed on the date indicated below by undersigned.

Whiting Petroleum Corporation
And its wholly owned subsidiary
Whiting Oil & Gas Corporation

Kay Maddox – Regulatory Supervisor

HARDING COUNTY, NM
RECEPTION# 20915
12/18/2014 10:12:50 AM
BK 19 PAGE 10898
1 of 1
BY CELESTE YBARRA

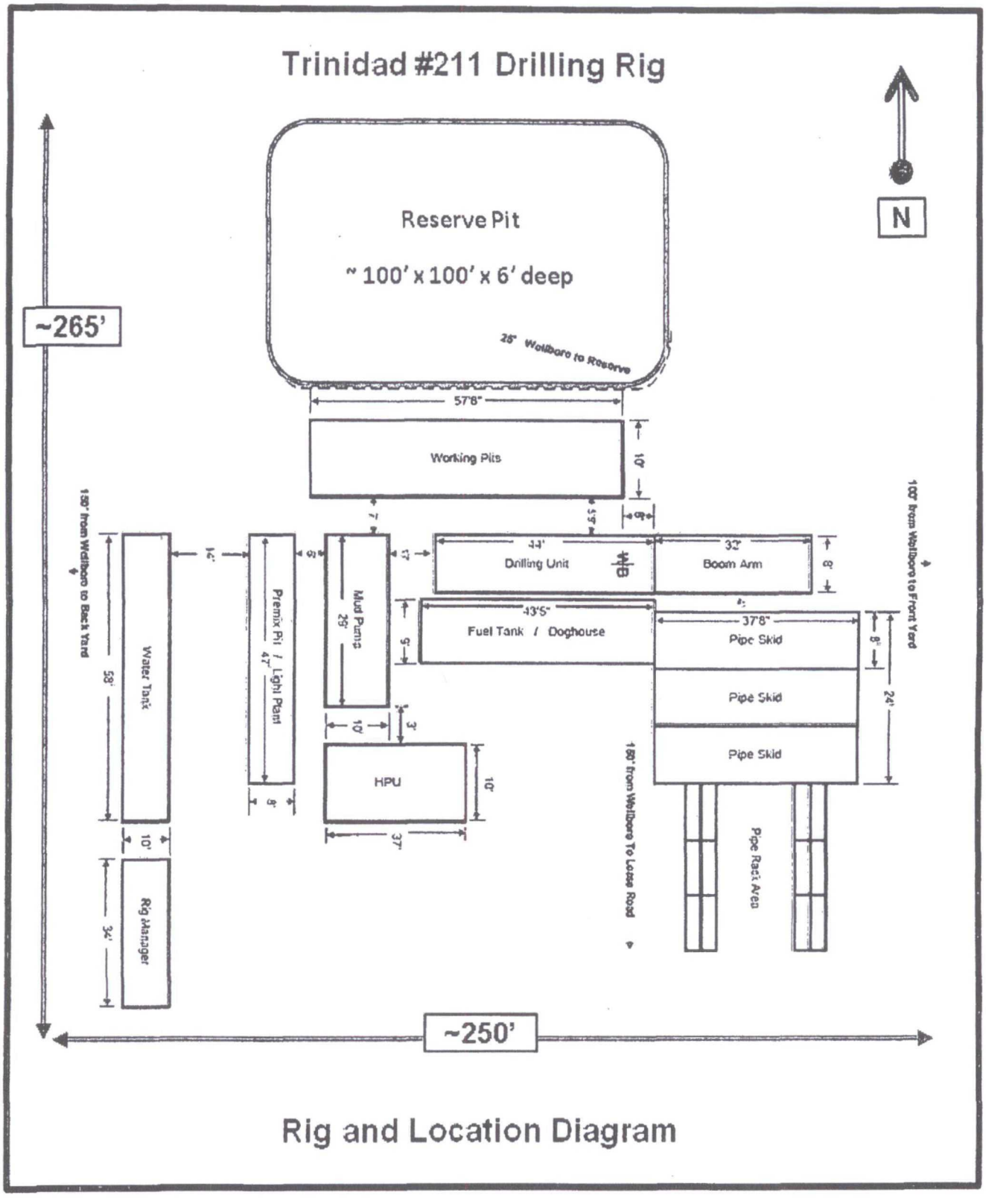
STATE OF TEXAS
COUNTY OF MIDLAND

This instrument was acknowledged before me this 16TH day of DECEMBER, 2014, by

Kay Maddox on behalf of Whiting Oil & Gas Corporation.

Sheila A. Shanks
Notary Public, State of Texas
Comm. Exp. 04-21-15

Notary Public



Rig and Location Diagram

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 21, 2014

DANNY HOLCOMB

WHITING OIL & GAS

400 W. ILLINOIS, SUITE 1300

MIDLAND, TX 79701

RE: WEST BRAVO DOME

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITING OIL & GAS
DANNY HOLCOMB
400 W. ILLINOIS, SUITE 1300
MIDLAND TX, 79701
Fax To: NONE

Received:	11/14/2014	Sampling Date:	11/12/2014
Reported:	11/21/2014	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HARDING COUNTY NM		

Sample ID: DAHL 1927 #121 (H403505-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/17/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL *101 %* *61-154*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2014	ND	400	100	400	0.00	

TPH 418.1 mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	**915**	100	11/21/2014	ND	5570	111	5000	1.97	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	187	93.7	200	3.04	
DRO >C10-C28	**24.6**	10.0	11/15/2014	ND	191	95.6	200	4.30	

Surrogate: 1-Chlorooctane *126 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *136 %* *52.1-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITING OIL & GAS
DANNY HOLCOMB
400 W. ILLINOIS, SUITE 1300
MIDLAND TX, 79701
Fax To: NONE

Received:	11/14/2014	Sampling Date:	11/12/2014
Reported:	11/21/2014	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HARDING COUNTY NM		

Sample ID: STATE 1928 #161 (H403505-02)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/17/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *61-154*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3880**	16.0	11/14/2014	ND	400	100	400	0.00	

TPH 418.1 mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	**497**	100	11/21/2014	ND	5570	111	5000	1.97	

TPH 8015M mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	187	93.7	200	3.04	
DRO >C10-C28	<10.0	10.0	11/15/2014	ND	191	95.6	200	4.30	

Surrogate: 1-Chlorooctane *126 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *141 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITING OIL & GAS
DANNY HOLCOMB
400 W. ILLINOIS, SUITE 1300
MIDLAND TX, 79701
Fax To: NONE

Received:	11/14/2014	Sampling Date:	11/12/2014
Reported:	11/21/2014	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HARDING COUNTY NM		

Sample ID: STATE 2028 #361 (H403505-03)

BTEX 8021B mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/17/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL *98.6 %* *61-154*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	11/14/2014	ND	400	100	400	0.00	

TPH 418.1 mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	**482**	100	11/21/2014	ND	5570	111	5000	1.97	

TPH 8015M mg/kg **Analyzed By: ms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	187	93.7	200	3.04	
DRO >C10-C28	<10.0	10.0	11/15/2014	ND	191	95.6	200	4.30	

Surrogate: 1-Chlorooctane *119 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *132 %* *52.1-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITING OIL & GAS
DANNY HOLCOMB
400 W. ILLINOIS, SUITE 1300
MIDLAND TX, 79701
Fax To: NONE

Received:	11/14/2014	Sampling Date:	11/12/2014
Reported:	11/21/2014	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HARDING COUNTY NM		

Sample ID: GALVESTON 2028 #291 (H403505-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/18/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *61-154*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	11/14/2014	ND	400	100	400	0.00	

TPH 418.1 mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	**328**	100	11/21/2014	ND	5570	111	5000	1.97	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	187	93.7	200	3.04	
DRO >C10-C28	<10.0	10.0	11/15/2014	ND	191	95.6	200	4.30	

Surrogate: 1-Chlorooctane *118 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *129 %* *52.1-176*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

WHITING OIL & GAS
DANNY HOLCOMB
400 W. ILLINOIS, SUITE 1300
MIDLAND TX, 79701
Fax To: NONE

Received:	11/14/2014	Sampling Date:	11/12/2014
Reported:	11/21/2014	Sampling Type:	Soil
Project Name:	WEST BRAVO DOME	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HARDING COUNTY NM		

Sample ID: LEWIS 1928 #041 (H403505-05)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	**0.084**	0.050	11/18/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL *97.3 %* *61-154*

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	11/17/2014	ND	400	100	400	3.92	

TPH 418.1 mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	**565**	100	11/21/2014	ND	5570	111	5000	1.97	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2014	ND	212	106	200	1.79	
DRO >C10-C28	<10.0	10.0	11/14/2014	ND	213	107	200	1.12	

Surrogate: 1-Chlorooctane *123 %* *47.2-157*

Surrogate: 1-Chlorooctadecane *121 %* *52.1-176*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Whiting Oil & Gas
Project Manager:	Robert McNaughton
Address:	400 W. Illinois, Suite 1300
City:	Midland State: Tx Zip: 79701
Phone #:	806-471-5628 Fax #:
Project #:	~~West Brava Dome~~ Project Owner:
Project Name:	West Brava Dome
Project Location:	Harding Co., NM
Sampler Name:	Danny Holcomb

BILL TO

P.O. #:	
Company:	Whiting Oil & Gas
Attn:	Gary Bullock
Address:	400 W. Illinois, Suite 1300
City:	Midland
State:	Tx Zip: 79701
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015	TPH 418.1	Btex	Cl
H403505																		
1	Dahl 1927 #121	C	1			✓					✓		11/12/14	3 PM	✓	✓	✓	✓
2	State 1928 #161	C	1			✓					✓		11/12/14	1 PM	✓	✓	✓	✓
3	State 2028 #361	C	1			✓					✓		11/12/14	1:40pm	✓	✓	✓	✓
4	Galveston 2028 #291	C	1			✓					✓		11/12/14	9:10am	✓	✓	✓	✓
5	Lewis 1928 #041	C	1			✓					✓		11/12/14	8:50am	✓	✓	✓	✓

Relinquished By:	Date: 11/14/14	Received By:	
DJ Holcomb	Time: 8 Am	Jodi Henson	
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 2.2°

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) JH

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

djholcomb75@gmail.com
kay.maddox@whiting.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54

Whiting Oil & Gas Corporation
West Bravo Dome Pit Sample Results

	Thresholds			Results													
Analyte	Groundwater at 25-50 ft	Groundwater at 51-100 ft	Groundwater at > 100 ft	Lewis 1928 #051	Lewis 2028 #321	Lewis 2028 #331	Lewis 2028 #341	Galveston 1928 #011	Miera 2130 #352	Miera 2130 #353	Miera 2130 #354	Dahl 1927 #121	State 1928 #161	State 2028 #361	Galveston 2028 #291	Lewis 1928 #041
Benzene	10	10	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total BTEX	50	50	50	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chlorides	20,000	40,000	80,000	32	144	736	160	512	592	304	576	<16	3,880	144	160	704
TPH	100	2500	2500	140	508	681	314	280	622	239	182	915	497	482	328	565
GRO	1000	1000	1000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
DRO	1000	1000	1000	<10	12.7	<10	<10	<10	<10	<10	<10	24.6	<10	<10	<10	<10
Sample Delivery Date				10/9/14	10/9/14	10/9/14	10/9/14	10/9/14	10/9/14	10/9/14	10/9/14	11/14/14	11/14/14	11/14/14	11/14/14	11/14/14

Samples delivered to Cardinal Labs (Hobbs) 10/9/14

Version120804

WHITING OIL & GAS CORPORATION

Workover and Completion Report

Well Name:	State 1928 #161	Field:	Other	Date:	12/11/14	Day:	16	Type:	Initial Completion		
API:	30-021-20629	Move On Date:	6/16/2014	AFE #:	14-1118-01	Rig:	NA	Supv	DH	Depth:	2,980

Present Operation: Well closed in

Csg:	5 1/2" 15.5# J-55	Liner:	N/A
Rods:	N/A	Perfs:	2778' - 2788 (0.42 Hole, 6 SPF)
Tbg:	86 jts 2-3/8" EUE 8RD 4.7# J-55 BB int lined with KC		Click to Calc. HP - Hrs

GHG Gas Vol(Mcf)		Dur. Hrs?	0	####	mcf/d	100	% of gas	Flared	Gas Volume Estimated ??	Yes	Producing Method	Flowing

Total Rig Hrs:	0	**Daily Activity**	GHG Event Total HP/Hr (Units > 130 HP)	0	for	####	hrs	Units <= 130 HP (Count)	

12/11/14
MI Hartley Construction dirt equipment to perform reserve pit closure per NMOCD rules. Remove barbed wire fencing and posts. Fold over outside edges of pit liner bottom, cover cuttings with new 20 mil LLDPE liner cap, cover new liner cap with a minimum of 4 feet of dirt cover, spread topsoil on top, MO dirt equipment. NMOCD notified and not present.
12/12/14
Install 4.5" OD steel pit burial marker in center of pit burial (set in concrete).
Will final blade surface within next two weeks and will reseed pit closure area during 2015 planting season. Danny

Costs:

Expense Account Codes	Capital Account Codes	Comments	Amount
	811.94 Contract Services and Equipmer	Hartley Construction	$ 8,043.00

Daily Total: $ 8,043.00
Prev. Total:

December 16, 2014

Mr. Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Rd
Aztec, NM 87410

RE: Pit Closure

Dear Mr. Smith,

Whiting Oil & Gas shall re-seed the disturbed Pit area for the well listed below. The re-seeding shall occur in the next rainy season documented for Harding County, New Mexico approximately August/September 2015.

If you have additional question please contact me @ 432.686.6709 or kay.maddox@whiting.com
Thank you for your time.

Sincerely,

Kay Maddox
Regulatory Supervisor

STATE 1928-16 Well # 1
30-021-20629
Harding County, New Mexico

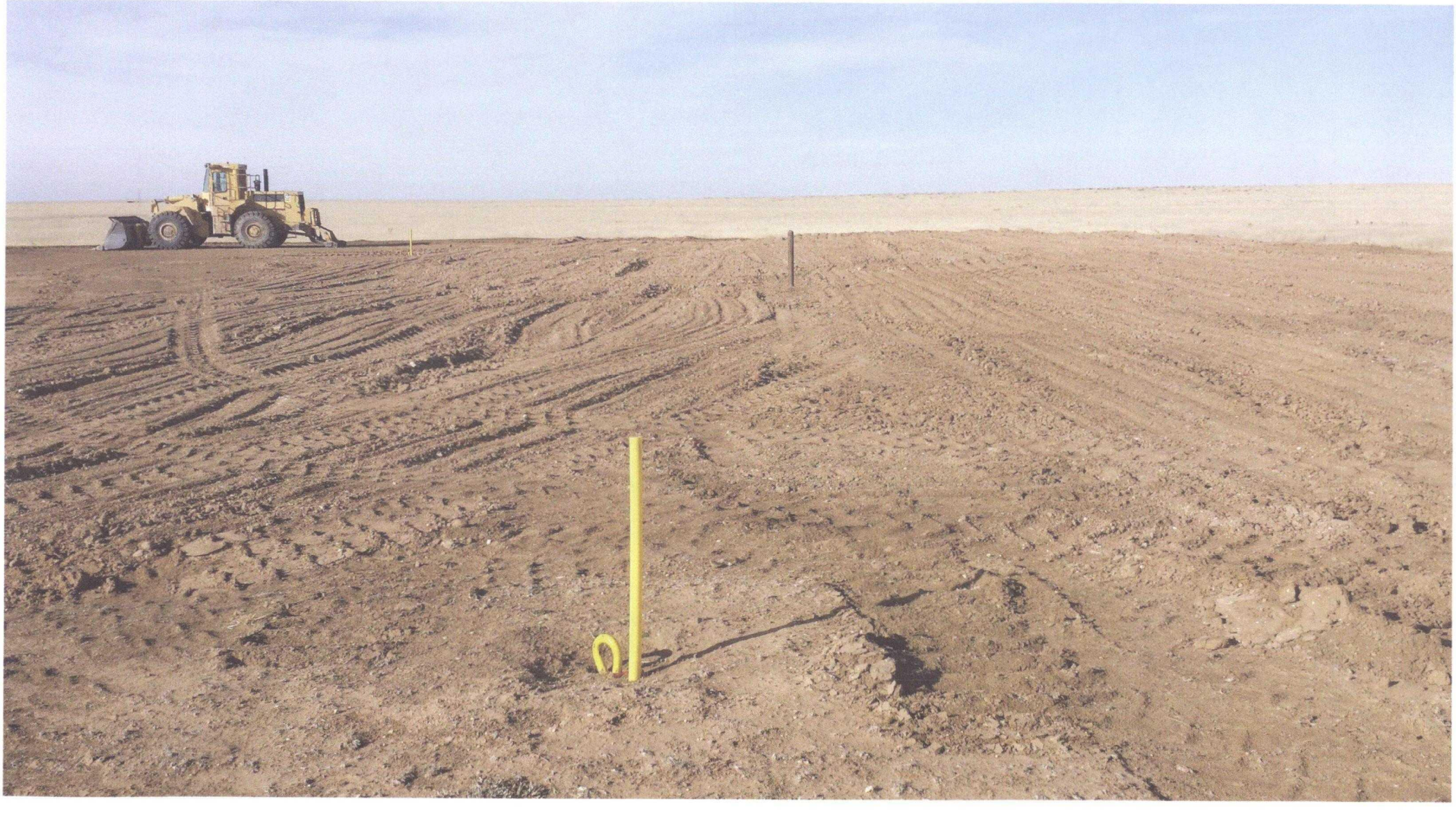

WHITING
Whiting Oil & Gas Corporation
STATE LEASE WELL NO. 1928 #16-1
UL J. SEC. 16. T19NR28E
1659' FSL & 1774' FEL
API #30-021-20629 HARDING CO., NM

NORTH

South

EAST

WEST




Whiting Oil and Gas Corp
State 1928 # 161

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., 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, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 copies
Fee Lease - 3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	96010	BRAVO DOME CARBON DIOXIDE GAS (640)

[4] Property Code	[5] Property Name	[6] Well Number
	STATE 1928	16-1

[7] OGRID No.	[8] Operator Name	[9] Elevation
25078	WHITING OIL & GAS CORPORATION	5540'

[10] Surface Location

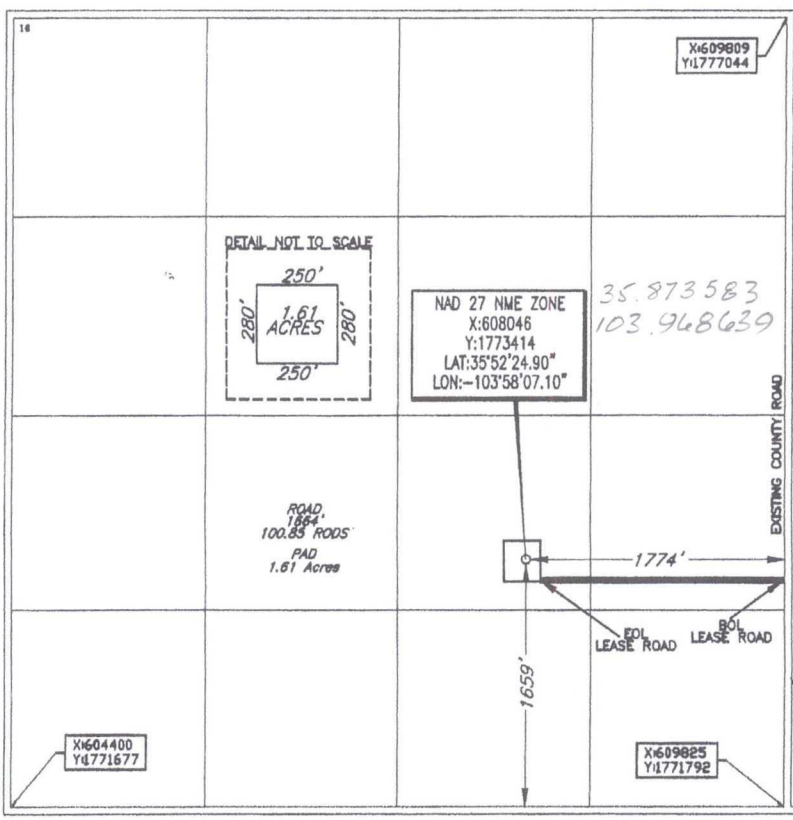
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	16	19 NORTH	28 EAST, N.M.P.M.		1659'	SOUTH	1774'	EAST	HARDING

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 5/14/14
Signature Date

KAY MADDOX
Printed Name

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 13, 2014
Date of Survey
Signature and Seal of Professional Surveyor

STATE OF NEW MEXICO
V. LYNN BEZNER
NO. 7920
PROFESSIONAL LAND SURVEYOR

Certificate Number
V. Lynn Bezner P.S. #7920

FILE:LO_STATE_1928_16_1 K.Y.