

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

- Type of action:  Below grade tank registration  
 Permit of a pit or proposed alternative method  
 Closure of a pit, below-grade tank, or proposed alternative method  
 Modification to an existing permit/or registration  
 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

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

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

1.  
Operator: **WHITING OIL & GAS CORPORATION OGRID #: 25078**  
Address: **400 W ILLINOIS STE 1300 MIDLAND, TEXAS 79701**  
Facility or well name: **MITCHELL 2028 22 WELL # 1**  
API Number: **30-021-20631** OCD Permit Number: 186309  
U/L or Qtr/Qtr G Section 22 Township 20N Range 28E County: **HARDING COUNTY**  
Center of Proposed Design: Latitude 35.951064 Longitude -103.950778 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 \_\_\_\_\_ 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: \_\_\_\_\_ 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 \_\_\_\_\_

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.

**Variations 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.**

- NM Office of the State Engineer - iWATERS database search;  USGS;  Data obtained from nearby wells

- Yes  No
- NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

- Yes  No
- 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**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

- Yes  No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

- Yes  No

Within an unstable area. (**Does not apply to below grade tanks**)

- 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. (**Does not apply to below grade tanks**)

- FEMA map

- Yes  No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

- Yes  No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes  No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (*Applies to low chloride temporary pits.*)

- Topographic map; Visual inspection (certification) of the proposed site

- Yes  No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

- Yes  No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

- Yes  No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

Yes  No

**Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Yes  No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

Yes  No

**Permanent Pit or Multi-Well Fluid Management Pit**

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

Yes  No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Yes  No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Yes  No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

Yes  No

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<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> 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).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input type="checkbox"/> 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.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |

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

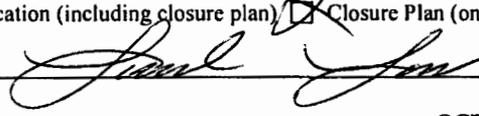
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

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:  Approval Date: 5/29/15

Title: Engineer 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: 05/21/2015

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. Amended original C-144 plan to Onsite Trench Burial which was approved 2/23/15

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 35.95108 Longitude -103.95110 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: 05/23/2015

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

**WHITING OIL AND GAS CORPORATION  
PIT CLOSURE REPORT**

MITCHELL 2028 22 Well #1  
API NO 30-021-20631

- 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 Drlg rig was released 08/28/2014 after drilling this well –attempted to close pit in February 2015. However due to a change in the mud system while drilling this well (which resulted in an increase of waste material), Whiting was unable to close this pit in-place because there would have been a humped up cover over it once the required 4 ft of topsoil cover was in place. On 2/12/2015 Whiting requested an extension and to amend the C-144 to close this drilling pit by the onsite trench method. Request was approved February 23, 2015.**
- 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.  
**Reference attached notification**
- 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  
**Certified Recorded Deed Notice 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 than 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) A trench shall have a properly constructed foundation and side walls consisting of a firm, unyielding base, smooth, free of rocks, debris, sharp edges or irregularities to prevent the liners rupture or tear.

**This was done**

- 10) Geotextile is required under the liner where needed to reduce localized stress-strain or protuberances that may otherwise compromise the liner's integrity.

**Not required**

- 11) A trench shall be constructed with a geomembrane liner. The geomembrane liner shall consist of a 20-mil string re-enforced LLDPE liner or equivalent liner that the division district office approves. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts, and acidic and alkaline solutions. Liner compatibility shall comply with EPA SW-846 Method 9090A.

**All standards were met**

- 12) The operator shall minimize liner seams and orient them up and down, not across a slope. The operator shall use factory welded seams where possible. Prior to field seaming the operator shall overlap liners 4-6 inches and orient liner seams parallel to the line of maximum slope, ie, oriented along, not across the slope. The operator shall minimize the number of field seams in corners and irregularly shaped areas. Qualified personnel shall perform field seams in corners and irregularly shaped areas. Qualified personnel shall perform field welding and testing.

**The liner did not require seaming**

- 13) The operator shall install sufficient liner material to reduce stress and strain on the liner.

**No stress or strain was on the liner**

- 14) The operator shall ensure that the outer edges of all liners are secured for the deposit of the excavated waste material into the trench.

**Outer edges were secured**

- 15) 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 trench area was then back filled with compacted, non-waste containing earthen material.**

- 16) All areas associated with the pit and trench 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**

- 17) 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**

- 18) 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.**
- 19) All contents, including synthetic pit liners, will be buried in place. By folding outer edges of the pit/trench 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**
- 20) 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**
- 21) 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**
- 22) 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**
- 23) Seeding or planting will be repeated until the required vegetative cover is successfully achieved.  
**Whiting will comply**
- 24) 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**
- 25) The division will be notified when seeding or planting is completed, and when successful re-vegetation has been achieved.  
**Whiting will comply**
- 26) 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**
- 27) 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.



May 14, 2015

Magin & Delores Martinez  
376 Ross Road  
Mosquero, NM 87733

RE: Notification to Surface Owner of On-Site Drilling Pit Closure Plan  
Wells: Mitchell 2028 Well # 22-1  
Harding County, NM

Whiting Oil & Gas proposes to close the temporary drilling pit and remediate the surface land according to all rules and regulations noted in Subsection E of 19.15.17.13 NMAC on May 19, 2015.

If you have any additional question please contact Kay Maddox @ 432.686.6709.

Sincerely,

  
Kay Maddox  
Regulatory Supervisor

Mailed by certified mail to above listed party on this the 14th day of May, 2014

  
Signed: Kay Maddox- Regulatory Supervisor

7011-3500-0002-4991-1892  
Certified Mail Number

*Whiting Petroleum Corporation  
and its wholly owned subsidiary  
Whiting Oil and Gas Corporation*

400 W. Illinois Avenue, Suite 1300, Midland, TX 79701 Office: 432.686.6700 Fax 432.686.6799

## **Kay Maddox**

---

**From:** Kay Maddox  
**Sent:** Thursday, May 14, 2015 4:46 PM  
**To:** Lowe, Leonard, EMNRD (Leonard.Lowe@state.nm.us)  
**Cc:** Jones, William V, EMNRD (WilliamV.Jones@state.nm.us)  
**Subject:** Notification of Pit Closure

Whiting will be closing the well listed below (weather permitting) on May 19, 2015

Mitchell 2028 22 Well #1  
Section 22, T20N, R28E, 1660 FNL & 1750 FEL Unit Ltr G  
30-021-20631  
Harding County, NM

**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](mailto:kay.maddox@whiting.com)  
[www.whiting.com](http://www.whiting.com)

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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: MITCHELL 2028 22  
Well No: 1  
API No: 30-021-20631  
TWN & RGE: TWN 20N RGE 28E Section 22  
Unit Letter: G  
Footages: 1660' FNL & 1750' FEL  
Date of Closure: 05/21/2015

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

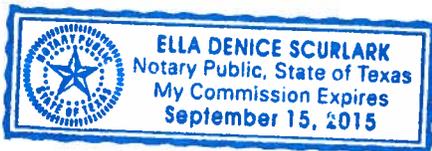


Kay Maddox – Regulatory Supervisor

HARDING COUNTY, NM  
DOCUMENT# 20150042  
05/28/15 09:15:08 AM  
1 of 1  
BY CJ Garrison

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me this 21ST day of MAY, 2015, by  
Kay Maddox on behalf of Whiting Oil & Gas Corporation.

  
Notary Public



May 21, 2015

ROBERT MCNAUGHTON  
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 05/08/15 8:55.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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  
Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STATE 2028-161 SOIL BELOW LINE	H501192-01	Soil	07-May-15 13:00	08-May-15 08:55
MITCHELL 2028-221 SOIL BELOW L	H501192-02	Soil	07-May-15 13:30	08-May-15 08:55
MITCHELL 2028-221 SOLIDIFIED PI	H501192-03	Soil	07-May-15 13:15	08-May-15 08:55

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**STATE 2028-161 SOIL BELOW LINER  
H501192-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	ND		16.0	mg/kg	4	5050806	AP	08-May-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	ND		100	mg/kg	10	5051809	CK	20-May-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5050808	MS	12-May-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5050808	MS	12-May-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	61-154		5050808	MS	12-May-15	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5050801	CK	08-May-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5050801	CK	08-May-15	8015B	
Surrogate: 1-Chlorooctane			90.1 %	47.2-157		5050801	CK	08-May-15	8015B	
Surrogate: 1-Chlorooctadecane			93.7 %	52.1-176		5050801	CK	08-May-15	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**MITCHELL 2028-221 SOIL BELOW LINER  
H501192-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5050806	AP	08-May-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	ND		100	mg/kg	10	5051809	CK	20-May-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5050808	MS	12-May-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5050808	MS	12-May-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	61-154		5050808	MS	12-May-15	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5050801	CK	08-May-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5050801	CK	08-May-15	8015B	
Surrogate: 1-Chlorooctane			95.7 %	47.2-157		5050801	CK	08-May-15	8015B	
Surrogate: 1-Chlorooctadecane			98.4 %	52.1-176		5050801	CK	08-May-15	8015B	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**MITCHELL 2028-221 SOLIDIFIED PIT CONTENTS  
H501192-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	5050806	AP	08-May-15	4500-CI-B	
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**Organic Compounds**

TPH 418.1	449		100	mg/kg	10	5051810	CK	21-May-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5050808	MS	12-May-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5050808	MS	12-May-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5050808	MS	12-May-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	61-154		5050808	MS	12-May-15	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5050807	CK	09-May-15	8015B	
DRO >C10-C28	36.3		10.0	mg/kg	1	5050807	CK	09-May-15	8015B	
Surrogate: 1-Chlorooctane			99.9 %	47.2-157		5050807	CK	09-May-15	8015B	
Surrogate: 1-Chlorooctadecane			106 %	52.1-176		5050807	CK	09-May-15	8015B	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5050806 - 1:4 DI Water</b>										
<b>Blank (5050806-BLK1)</b>										
Prepared & Analyzed: 08-May-15										
Chloride	ND	16.0	mg/kg							
<b>LCS (5050806-BS1)</b>										
Prepared & Analyzed: 08-May-15										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (5050806-BSD1)</b>										
Prepared & Analyzed: 08-May-15										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**Organic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5051809 - Solvent Extraction**

<b>Blank (5051809-BLK1)</b>				Prepared: 19-May-15 Analyzed: 20-May-15						
TPH 418.1	ND	20.0	mg/kg							
<b>LCS (5051809-BS1)</b>				Prepared: 19-May-15 Analyzed: 20-May-15						
TPH 418.1	5310	20.0	mg/kg	5000		106	70-130			
<b>LCS Dup (5051809-BSD1)</b>				Prepared: 19-May-15 Analyzed: 20-May-15						
TPH 418.1	5300	20.0	mg/kg	5000		106	70-130	0.170	20	

**Batch 5051810 - Solvent Extraction**

<b>Blank (5051810-BLK1)</b>				Prepared & Analyzed: 21-May-15						
TPH 418.1	ND	100	mg/kg							
<b>LCS (5051810-BS1)</b>				Prepared & Analyzed: 21-May-15						
TPH 418.1	5330	100	mg/kg	5000		107	70-130			
<b>LCS Dup (5051810-BSD1)</b>				Prepared & Analyzed: 21-May-15						
TPH 418.1	5280	100	mg/kg	5000		106	70-130	0.830	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5050808 - Volatiles**

Blank (5050808-BLK1)		Prepared: 08-May-15 Analyzed: 12-May-15								
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	61-154			

LCS (5050808-BS1)		Prepared: 08-May-15 Analyzed: 12-May-15								
Benzene	1.93	0.050	mg/kg	2.00		96.5	77.1-114			
Toluene	2.07	0.050	mg/kg	2.00		104	67-114			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	63.5-121			
Total Xylenes	5.92	0.150	mg/kg	6.00		98.7	62.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.1	61-154			

LCS Dup (5050808-BSD1)		Prepared: 08-May-15 Analyzed: 12-May-15								
Benzene	1.90	0.050	mg/kg	2.00		95.2	77.1-114	1.34	16.4	
Toluene	1.98	0.050	mg/kg	2.00		99.2	67-114	4.46	16.2	
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	63.5-121	4.16	17	
Total Xylenes	5.62	0.150	mg/kg	6.00		93.7	62.4-125	5.17	17	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	61-154			

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\*= Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5050801 - General Prep - Organics**

<b>Blank (5050801-BLK1)</b>		Prepared & Analyzed: 08-May-15								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	47.2-157			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	52.1-176			

**LCS (5050801-BS1)**

<b>LCS (5050801-BS1)</b>		Prepared & Analyzed: 08-May-15								
GRO C6-C10	198	10.0	mg/kg	200		99.0	72.5-115			
DRO >C10-C28	207	10.0	mg/kg	200		104	81.3-118			
Total TPH C6-C28	405	10.0	mg/kg	400		101	80-113			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.1	47.2-157			
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102	52.1-176			

**LCS Dup (5050801-BSD1)**

<b>LCS Dup (5050801-BSD1)</b>		Prepared & Analyzed: 08-May-15								
GRO C6-C10	201	10.0	mg/kg	200		101	72.5-115	1.52	10.1	
DRO >C10-C28	213	10.0	mg/kg	200		106	81.3-118	2.51	15.3	
Total TPH C6-C28	414	10.0	mg/kg	400		103	80-113	2.03	12.1	
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	47.2-157			
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	52.1-176			

**Batch 5050807 - General Prep - Organics**

<b>Blank (5050807-BLK1)</b>		Prepared: 08-May-15 Analyzed: 09-May-15								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		89.9	47.2-157			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.3	52.1-176			

**Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND TX, 79701	Project: WEST BRAVO DOME Project Number: NONE GIVEN Project Manager: ROBERT MCNAUGHTON Fax To: NONE	Reported: 21-May-15 14:22
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**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5050807 - General Prep - Organics**

<b>LCS (5050807-BS1)</b>		Prepared: 08-May-15 Analyzed: 09-May-15								
GRO C6-C10	193	10.0	mg/kg	200		96.7	72.5-115			
DRO >C10-C28	201	10.0	mg/kg	200		101	81.3-118			
Total TPH C6-C28	394	10.0	mg/kg	400		98.6	80-113			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		95.9	47.2-157			
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	52.1-176			
<b>LCS Dup (5050807-BSD1)</b>		Prepared: 08-May-15 Analyzed: 09-May-15								
GRO C6-C10	199	10.0	mg/kg	200		99.3	72.5-115	2.72	10.1	
DRO >C10-C28	209	10.0	mg/kg	200		105	81.3-118	3.93	15.3	
Total TPH C6-C28	408	10.0	mg/kg	400		102	80-113	3.34	12.1	
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.8	47.2-157			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	52.1-176			

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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

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**Cardinal Laboratories**

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

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

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER													
H501192	1		1			<input checked="" type="checkbox"/>																
	2	Shake 1st Soil below liner	1			<input checked="" type="checkbox"/>																
	3	Mitchell 2nd soil below liner Mittell 3rd soil below liner Mittell 4th soil below liner Mittell 5th soil below liner Mittell 6th soil below liner Mittell 7th soil below liner Mittell 8th soil below liner Mittell 9th soil below liner Mittell 10th soil below liner Mittell 11th soil below liner Mittell 12th soil below liner Mittell 13th soil below liner Mittell 14th soil below liner Mittell 15th soil below liner Mittell 16th soil below liner Mittell 17th soil below liner Mittell 18th soil below liner Mittell 19th soil below liner Mittell 20th soil below liner Mittell 21st soil below liner Mittell 22nd soil below liner Mittell 23rd soil below liner Mittell 24th soil below liner Mittell 25th soil below liner Mittell 26th soil below liner Mittell 27th soil below liner Mittell 28th soil below liner Mittell 29th soil below liner Mittell 30th soil below liner Mittell 31st soil below liner Mittell 32nd soil below liner Mittell 33rd soil below liner Mittell 34th soil below liner Mittell 35th soil below liner Mittell 36th soil below liner Mittell 37th soil below liner Mittell 38th soil below liner Mittell 39th soil below liner Mittell 40th soil below liner Mittell 41st soil below liner Mittell 42nd soil below liner Mittell 43rd soil below liner Mittell 44th soil below liner Mittell 45th soil below liner Mittell 46th soil below liner Mittell 47th soil below liner Mittell 48th soil below liner Mittell 49th soil below liner Mittell 50th soil below liner Mittell 51st soil below liner Mittell 52nd soil below liner Mittell 53rd soil below liner Mittell 54th soil below liner Mittell 55th soil below liner Mittell 56th soil below liner Mittell 57th soil below liner Mittell 58th soil below liner Mittell 59th soil below liner Mittell 60th soil below liner Mittell 61st soil below liner Mittell 62nd soil below liner Mittell 63rd soil below liner Mittell 64th soil below liner Mittell 65th soil below liner Mittell 66th soil below liner Mittell 67th soil below liner Mittell 68th soil below liner Mittell 69th soil below liner Mittell 70th soil below liner Mittell 71st soil below liner Mittell 72nd soil below liner Mittell 73rd soil below liner Mittell 74th soil below liner Mittell 75th soil below liner Mittell 76th soil below liner Mittell 77th soil below liner Mittell 78th soil below liner Mittell 79th soil below liner Mittell 80th soil below liner Mittell 81st soil below liner Mittell 82nd soil below liner Mittell 83rd soil below liner Mittell 84th soil below liner Mittell 85th soil below liner Mittell 86th soil below liner Mittell 87th soil below liner Mittell 88th soil below liner Mittell 89th soil below liner Mittell 90th soil below liner Mittell 91st soil below liner Mittell 92nd soil below liner Mittell 93rd soil below liner Mittell 94th soil below liner Mittell 95th soil below liner Mittell 96th soil below liner Mittell 97th soil below liner Mittell 98th soil below liner Mittell 99th soil below liner Mittell 100th soil below liner	1			<input checked="" type="checkbox"/>																

PLEASE NOTE: Liability and Damages: Cardinal's facility and clients exclude liability for any claim arising whether insured or not. Card is limited to the amount paid by the client for the analysis. All claims involving those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of analytical services by Cardinal, regardless of whether such claim is based on contract or tort. No other damages, including attorney's fees, shall be recoverable.

Relinquished By: D. Holcomb Date: 5/18/15 Time: 9:55am  
 Received By: Scott Hunter

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 4.00

Sample Condition: Cool Intact  Yes  No  
 CHECKED BY: [Signature]  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: Email results to: djholcomb75@gmail.com  
Key: maddox@whiting.com

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

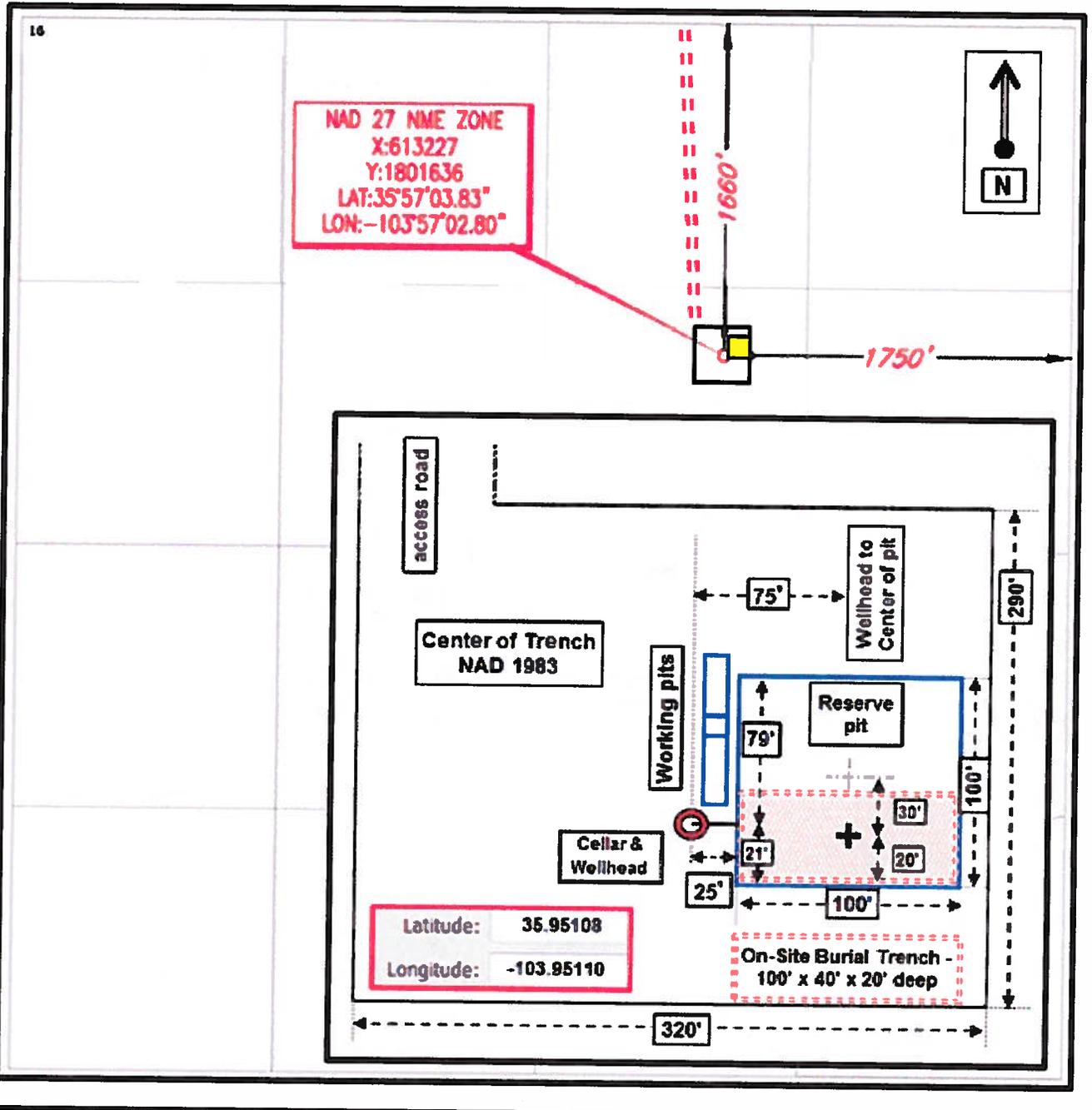
# Pit Plot

Whiting Petroleum Corporation

Mitchell 2028 #221

T-20-N, R-28E, Section 22 NMPM

Harding County, New Mexico



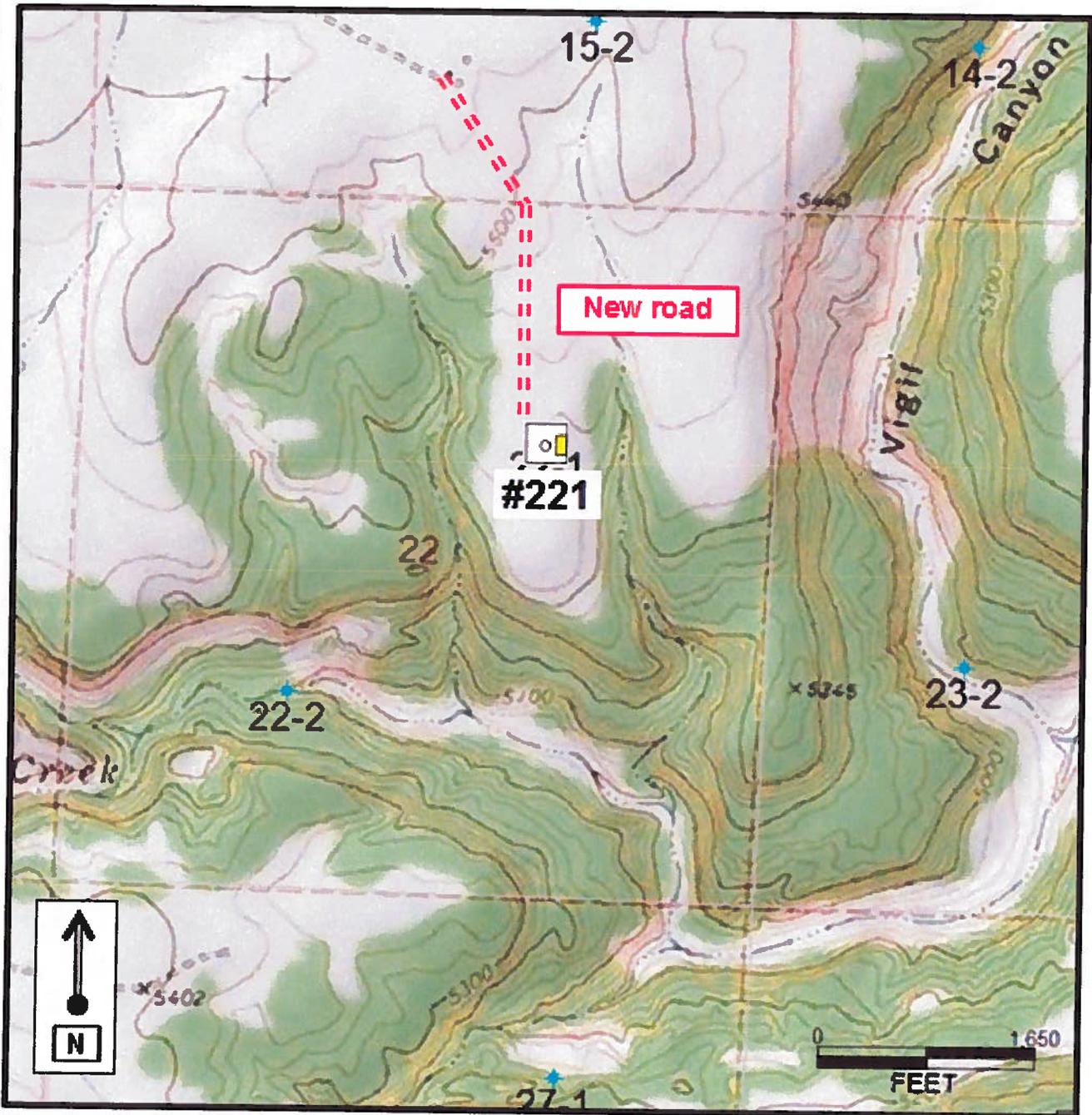
# Topo Map

Whiting Petroleum Corporation

Mitchell 2028 #221

T-20-N, R-28E, Section 22 NMPM

Harding County, New Mexico







May 23, 2015

Mr. Leonard Lowe  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr  
Santa Fe, NM 87505

RE: Pit Closure

Dear Mr. Lowe,

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](mailto:kay.maddox@whiting.com)  
Thank you for your time.

Sincerely,

Kay Maddox  
Regulatory Supervisor

MITCHELL 2028 22 Well # 1  
30-021-20631  
Harding County, New Mexico

*Whiting Petroleum Corporation  
and its wholly owned subsidiary  
Whiting Oil and Gas Corporation*

400 W. Illinois Avenue, Suite 1300, Midland, TX 79701 Office: 432.686.6700 Fax 432.686.6799

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

Form C-103  
 Revised July 18, 2013

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

WELL API NO. 30-021-20631
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name MITCHELL 2028 22
8. Well Number 1
9. OGRID Number 25078
10. Pool name or Wildcat BRAVO DOME CARBON DIOXIDE GAS 640
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5437' GR

**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

2. Name of Operator  
WHITING OIL AND GAS CORPORATION

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

4. Well Location  
Unit Letter G 1660 feet from the NORTH line and 1750 feet from the EAST line  
Section 22 Township 20N Range 28E NMPM County HARDING

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER <input checked="" type="checkbox"/> TEMPORARY PIT CLOSURE	

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.

08/20/2014 SPUDDED WELL  
 08/21/2014 RAN 9 5/8" J-55 36# in 12 1/4" CSG SET @ 772' W/500 SXS CMT, 14.80 PPG, 1.35 YIELD,CIRC 65 BBLS CMT TO SURF, PRESS UP TO 600# FOR 30 MIN-HELD  
 08/28/2014 TD 2723'  
 08/28/2014 RAN 5 1/2" J-55 15.5# in 8 3/4" hole, CSG SET @ 2729 W/650 SXS LEAD CMT + 300 SXS TAIL CMT. CIR 45 BBLS CMT TO SURF, PRESS UP TO 600# FOR 30 MIN HELD  
 08/28/2014 RELEASED RIG  
 A 90 DAY EXTENSION TO GET THIS PIT WAS GRANTED 2/23/2015  
 FOR ON-SITE TRENCH BURIAL RATHER THAN IN-PLACE BURIAL

TEMPORARY PIT CLOSED BY ONSITE TRENCH BURIAL MAY 21, 2015

Spud Date:  Rig Release Date:

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: 05/23/2015

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

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any): \_\_\_\_\_



# Whiting Oil & Gas Corporation

MITCHELL LEASE WELL NO. 2028 #22-1

UL G. SEC. 22. T20NR28E

1660' FNL & 1750' FEL

API #30-021-20631 HARDING CO., NM

Looking west



Looking south



Looking North



Looking East



Trench Bury



# Trench Bury



Trench  
Bury

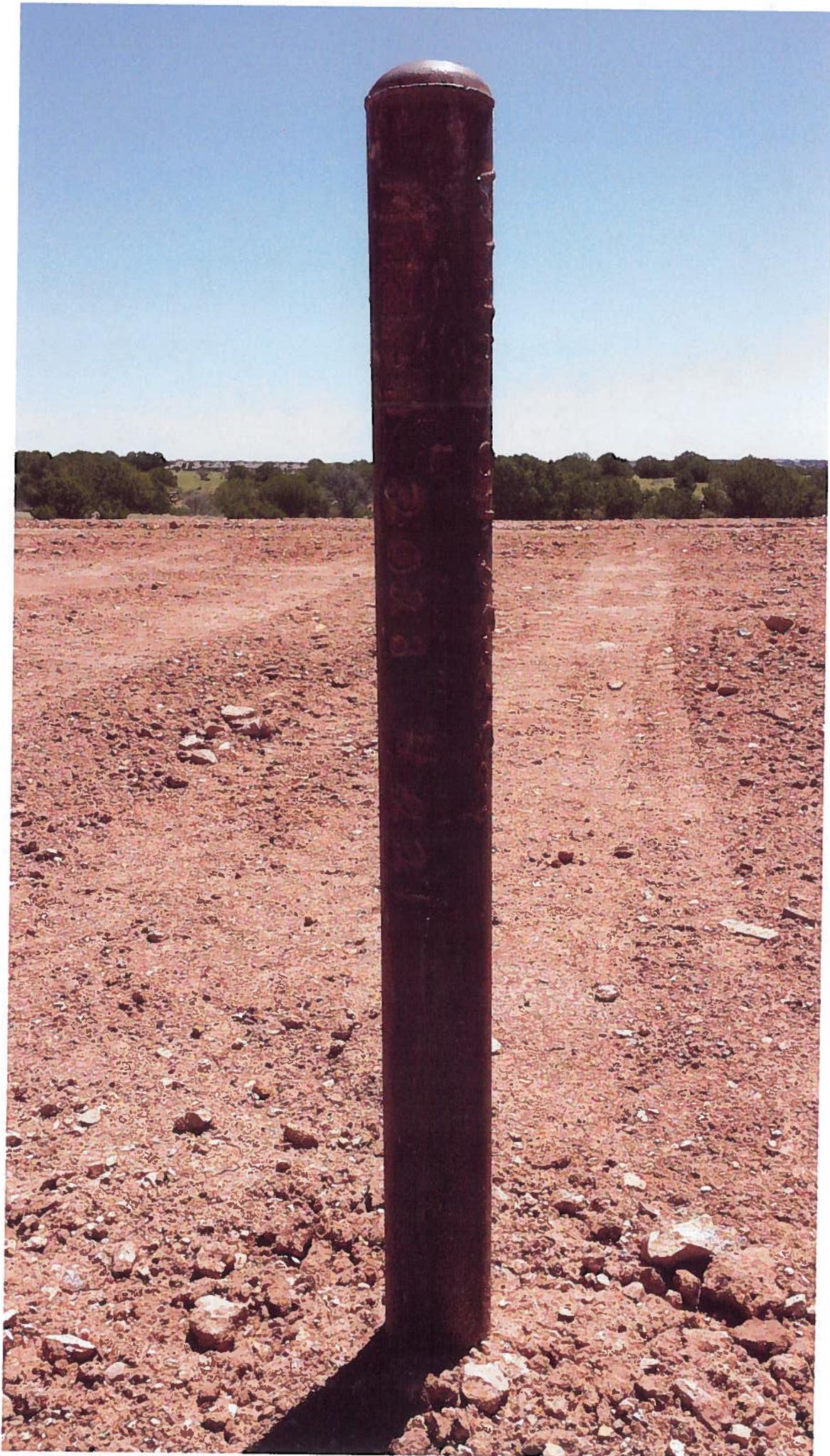


Trench Bury



# Trench Bury





**DISTRICT I**  
1626 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**

<sup>1</sup> API Number <b>20-021-20631</b>		<sup>2</sup> Pool Code <b>96010</b>		<sup>3</sup> Pool Name <b>BRAND DOME CARBON DIOXIDE GAS (640)</b>	
Property Code		<sup>4</sup> Property Name <b>MITCHELL 2028</b>		<sup>5</sup> Well Number <b>22-1</b>	
<sup>6</sup> UGRID No. <b>25078</b>		<sup>7</sup> Operator Name <b>WHITING OIL &amp; GAS CORPORATION</b>		<sup>8</sup> Elevation <b>5437'</b>	

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	22	20 NORTH	28 EAST, N.M.P.M.		1860'	NORTH	1750'	EAST	HARDING

**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
<sup>12</sup> Dedicated Acres <b>640</b>									
<sup>13</sup> Joint or Infill			<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.					

**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**

<sup>16</sup>

35.951064  
103.950778

NAD 27 NME ZONE  
X:613227  
Y:1801636  
LAT:35°57'03.83"  
LON:-103°57'02.80"

**<sup>17</sup> 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 leased 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* 5/15/2014  
Signature Date  
Printed Name

---

**<sup>18</sup> 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 12, 2014  
Date of Survey

Signature and Title of Professional Surveyor

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

FILE:LO\_MITCHELL\_2028\_22\_1 K.Y.