

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: **GALVESTON 2028 30 WELL # 1**  
API Number: **30-021-20662** OCD Permit Number: 191438  
U/L or Qtr/Qtr **K** Section **30** Township **20N** Range **28E** County: **HARDING COUNTY**  
Center of Proposed Design: Latitude **35.9313917** Longitude **-104.0064639** 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.

- |  |  |
|--|--|
| <p>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</p>   | <p><input type="checkbox"/> Yes <input type="checkbox"/> No<br/> <input type="checkbox"/> NA</p> |
| <p>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</p>   | <p><input type="checkbox"/> Yes <input type="checkbox"/> No<br/> <input type="checkbox"/> NA</p> |
| <p>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</p>  | <p><input type="checkbox"/> Yes <input type="checkbox"/> No<br/> <input type="checkbox"/> NA</p> |
| <p>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</p>                        | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |
| <p>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</p>  | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |
| <p>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</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |
| <p>Written confirmation or verification from the municipality; Written approval obtained from the municipality</p>   | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |
| <p>Within 300 feet of a wetland.<br/>         US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>   | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |
| <p>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance</p>   | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>                                  |

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: *[Signature]* Approval Date: 7/15/15

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: 06/10/2015

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.

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 35.9313917 Longitude -104.0064639 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:  Date: 07/01/2015

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

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

GALVESTON 2028 30 Well #1  
API NO 30-021-20662

- 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 10/30/2014 after drilling this well –60 day pit closure extension due to weather was requested 4/27/2015**
- 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 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.

## Kay Maddox

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**From:** Kay Maddox  
**Sent:** Wednesday, May 27, 2015 3:40 PM  
**To:** Lowe, Leonard, EMNRD (Leonard.Lowe@state.nm.us)  
**Subject:** 4 Pit Closure Notifications - weather permitting

Whiting proposes to close the following drilling pits -

Will close June 1, 2015

AK GEE 1928 30 Well # 1 API NO 30-021-20678  
T19N, R28E, Section 30, Unit Ltr G 1650' FNL & 1650' FEL  
Harding County, NM

Will close June 2, 2015

WHITE-COOK 1828 05 Well # 1 API NO 30-021-20680  
T18N, R28E, Section 5, Unit Ltr G 2300' FNL & 1700' FEL  
Harding County, NM

Will close June 8, 2015

DECATUR 1927 24 Well # 1 API NO 30-021-20679  
T19N, R27E, Section 24, Unit Ltr G 1692' FNL & 2317' FEL  
Harding County, NM

Will close June 9, 2015

GALVESTON 2028 30 Well #1 30-021-20662  
T20N, R28E, Section 30 Unit Ltr K 1700' FSL 1700' FWL  
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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May 27, 2015

Linda Lewis  
141 Lewis Road  
Mosquero, New Mexico 87733

RE: Notification to Surface Owner of On-Site Drilling Pit Closure Plan

**Wells:**

06/09/2015  
**GALVESTON 2028 30 Well #1 30-021-20662**  
1700' FSL 1700 FWL  
Located in Section 30, T20N, R28E Harding County, NM

This letter is to notify you that Whiting Oil & Gas proposes to close and remediate the surface land on or around the date listed above weather permitting. The pit will be closed according to all rules and regulations noted in Subsection E of 19.15.17.13 NMAC.

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 27th day of May, 2015

  
Signed: Kay Maddox- Regulatory Supervisor

7011 3500 0002 4991 1922  
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

STATE OF NEW MEXICO

COUNTY OF HARDING

**NOTICE OF PIT CLOSURE**

In accordance with Section 19.15.17.13.E.4 of the NMOCDC, 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: GALVESTON 2028 30  
Well No: 1  
API No: 30-021-20662  
TWN & RGE: TWN 20N RGE 28E Section 30  
Unit Letter: K  
Footages: 1700' FSL & 1700' FWL  
Date of Closure: 06/10/2015

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# 20150061  
06/12/15 01:58:51 PM  
1 of 1  
BY CJ Garrison

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me this 5TH day of JUNE, 2015, by

Kay Maddox on behalf of Whiting Oil & Gas Corporation.



  
\_\_\_\_\_  
Notary Public

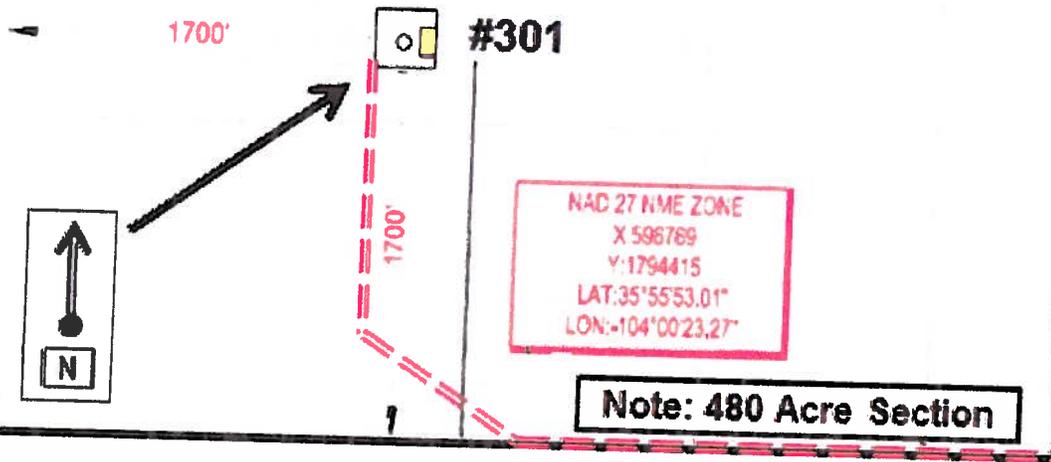
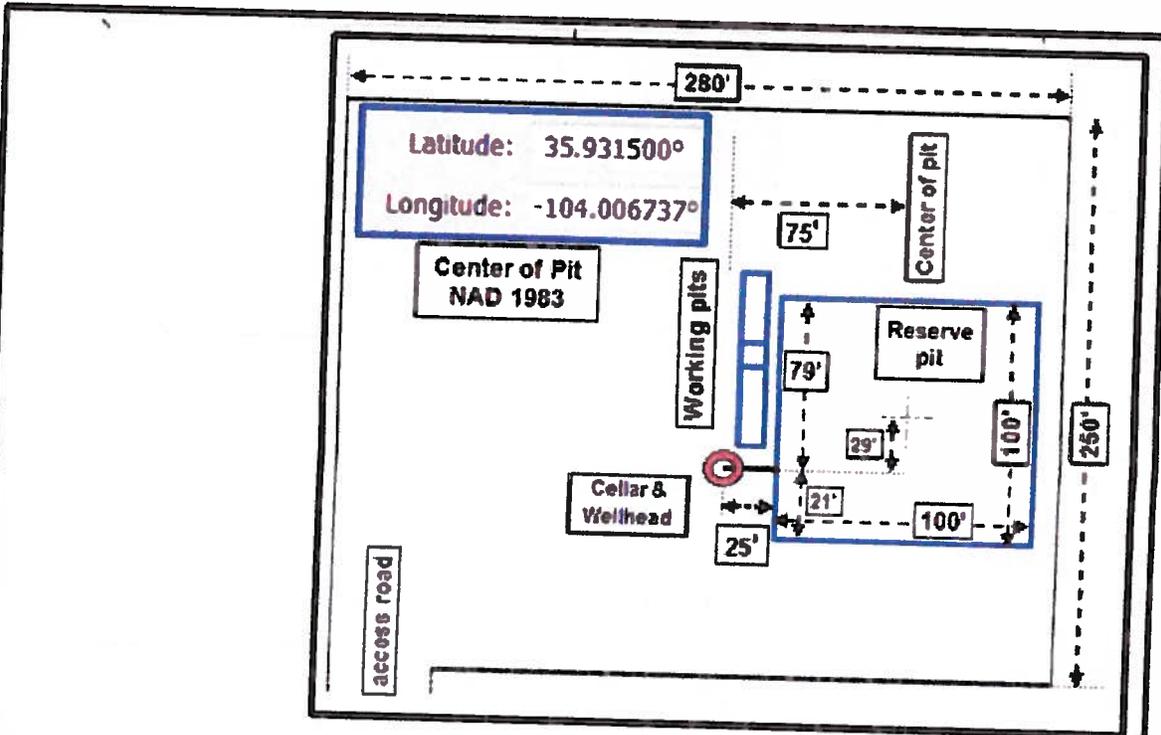
# Pit Plot

Whiting Petroleum Corporation

Galveston 2028 #301

T-20-N, R-28E, Section 30 NMPM

Harding County, New Mexico





Galveston 2028 30 #1

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

March 12, 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 03/06/15 9:00.

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](http://www.tceq.texas.gov/field/qa/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: 12-Mar-15 11:59
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CANDELARIO 1928 #101	H500617-01	Soil	05-Mar-15 09:30	06-Mar-15 09:00
DAHL 1928 #061	H500617-02	Soil	05-Mar-15 10:20	06-Mar-15 09:00
LEWIS 2028 #351	H500617-03	Soil	05-Mar-15 11:00	06-Mar-15 09:00
<b>GALVESTON 2028 #301</b>	H500617-04	Soil	05-Mar-15 11:30	06-Mar-15 09:00
THORNTON 2027 #331	H500617-05	Soil	05-Mar-15 12:30	06-Mar-15 09:00

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 WHITTING 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:  
 12-Mar-15 11:59

**CANDELARIO 1928 #101**  
**H500617-01 (Soil)**

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

Chloride	768		16.0	mg/kg	4	5030510	AP	09-Mar-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	1080		100	mg/kg	10	5031201	CK	12-Mar-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Ethylbenzene*	0.055		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	61-154		5030903	ms	09-Mar-15	8021B	

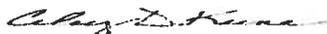
**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5030603	MS	06-Mar-15	8015B	
DRO >C10-C28	23.1		10.0	mg/kg	1	5030603	MS	06-Mar-15	8015B	
Surrogate: 1-Chlorooctane			87.5 %	47.2-157		5030603	MS	06-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			93.3 %	52.1-176		5030603	MS	06-Mar-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: 12-Mar-15 11:59
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**DAHL 1928 #061  
H500617-02 (Soil)**

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

Chloride	240		16.0	mg/kg	4	5030510	AP	09-Mar-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	369		100	mg/kg	10	5031201	CK	12-Mar-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			118 %	61-154		5030903	ms	09-Mar-15	8021B	

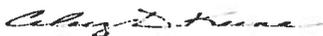
**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5030603	MS	06-Mar-15	8015B	
DRO >C10-C28	15.8		10.0	mg/kg	1	5030603	MS	06-Mar-15	8015B	
Surrogate: 1-Chlorooctane			88.2 %	47.2-157		5030603	MS	06-Mar-15	8015B	
Surrogate: 1-Chlorooctadecane			92.5 %	52.1-176		5030603	MS	06-Mar-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: 12-Mar-15 11:59
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**LEWIS 2028 #351  
H500617-03 (Soil)**

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

Chloride	320		16.0	mg/kg	4	5030510	AP	09-Mar-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	1220		100	mg/kg	10	5031201	CK	12-Mar-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5030903	ms	09-Mar-15	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		61-154	5030903	ms	09-Mar-15	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	
DRO >C10-C28	40.5		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	

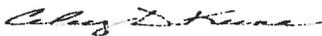
Surrogate: 1-Chlorooctane			93.0 %		47.2-157	5030604	MS	07-Mar-15	8015B	
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Surrogate: 1-Chlorooctadecane			89.2 %		52.1-176	5030604	MS	07-Mar-15	8015B	
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\*=Accredited Analyte

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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: 12-Mar-15 11:59
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**GALVESTON 2028 #301**  
**H500617-04 (Soil)**

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

Chloride	624		16.0	mg/kg	4	5030510	AP	09-Mar-15	4500-Cl-B	
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**Organic Compounds**

TPH 418.1	1300		100	mg/kg	10	5031201	CK	12-Mar-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Toluene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Total BTEX	ND		0.300	mg/kg	50	5030903	ms	09-Mar-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	61-154		5030903	ms	09-Mar-15	8021B	

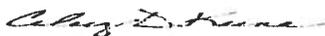
**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	
Surrogate: 1-Chlorooctane			100 %	47.2-157		5030604	MS	07-Mar-15	8015B	
Surrogate: 1-Chloroodecane			107 %	52.1-176		5030604	MS	07-Mar-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: 12-Mar-15 11:59
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**THORNTON 2027 #331**
**H500617-05 (Soil)**

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

<b>Chloride</b>	160		16.0	mg/kg	4	5030510	AP	09-Mar-15	4500-Cl-B	
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**Organic Compounds**

<b>TPH 418.1</b>	964		100	mg/kg	10	5031201	CK	12-Mar-15	418.1	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
<b>Toluene*</b>	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
<b>Ethylbenzene*</b>	ND		0.050	mg/kg	50	5030903	ms	09-Mar-15	8021B	
<b>Total Xylenes*</b>	ND		0.150	mg/kg	50	5030903	ms	09-Mar-15	8021B	
<b>Total BTEX</b>	ND		0.300	mg/kg	50	5030903	ms	09-Mar-15	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		61-154	5030903	ms	09-Mar-15	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10</b>	ND		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	
<b>DRO &gt;C10-C28</b>	ND		10.0	mg/kg	1	5030604	MS	07-Mar-15	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.8 %		47.2-157	5030604	MS	07-Mar-15	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %		52.1-176	5030604	MS	07-Mar-15	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Caley 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: 12-Mar-15 11:59
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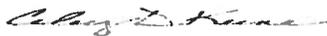
**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5030510 - 1:4 DI Water</b>										
<b>Blank (5030510-BLK1)</b>										
Prepared & Analyzed: 05-Mar-15										
Chloride	ND	16.0	mg/kg							
<b>LCS (5030510-BS1)</b>										
Prepared & Analyzed: 05-Mar-15										
Chloride	400	16.0	mg/kg	400		100	80-120			
<b>LCS Dup (5030510-BSD1)</b>										
Prepared & Analyzed: 05-Mar-15										
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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: 12-Mar-15 11:59
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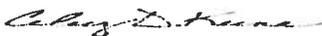
**Organic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5031201 - Solvent Extraction</b>										
<b>Blank (5031201-BLK1)</b>										
					Prepared & Analyzed: 12-Mar-15					
TPH 418 I	ND	100	mg/kg							
<b>LCS (5031201-BS1)</b>										
					Prepared & Analyzed 12-Mar-15					
TPH 418 I	6220	100	mg/kg	5000		124	70-130			
<b>LCS Dup (5031201-BSD1)</b>										
					Prepared & Analyzed 12-Mar-15					
TPH 418 I	6250	100	mg/kg	5000		125	70-130	0.449	20	

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:  
 12-Mar-15 11:59

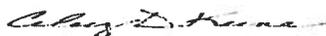
**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5030903 - Volatiles</b>										
<b>Blank (5030903-BLK1)</b>										
Prepared & Analyzed: 09-Mar-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 (P11)	0.0569		mg/kg	0.0500		114	61-154			
<b>LCS (5030903-BS1)</b>										
Prepared & Analyzed: 09-Mar-15										
Benzene	1.96	0.050	mg/kg	2.00		97.8	77.1-114			
Toluene	1.84	0.050	mg/kg	2.00		91.9	67-114			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	63.5-121			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	62.4-125			
Surrogate: 4-Bromofluorobenzene (P11)	0.0524		mg/kg	0.0500		105	61-154			
<b>LCS Dup (5030903-BSD1)</b>										
Prepared & Analyzed: 09-Mar-15										
Benzene	2.17	0.050	mg/kg	2.00		109	77.1-114	10.5	16.4	
Toluene	1.96	0.050	mg/kg	2.00		98.1	67-114	6.52	16.2	
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	63.5-121	7.91	17	
Total Xylenes	6.22	0.150	mg/kg	6.00		104	62.4-125	9.81	17	
Surrogate: 4-Bromofluorobenzene (P11)	0.0528		mg/kg	0.0500		106	61-154			

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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: 12-Mar-15 11:59
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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5030603 - General Prep - Organics**

<b>Blank (5030603-BLK1)</b>		Prepared & Analyzed: 06-Mar-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	47.8		mg/kg	50.0		95.6	47.2-157			
Surrogate: 1-Chlorooctadecane	53.5		mg/kg	50.0		107	52.1-176			

<b>LCS (5030603-BS1)</b>		Prepared & Analyzed: 06-Mar-15								
GRO C6-C10	188	10.0	mg/kg	200		94.0	72.5-115			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	81.3-118			
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	80-113			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.5	47.2-157			
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102	52.1-176			

<b>LCS Dup (5030603-BSD1)</b>		Prepared & Analyzed: 06-Mar-15								
GRO C6-C10	191	10.0	mg/kg	200		95.7	72.5-115	1.83	10.1	
DRO >C10-C28	199	10.0	mg/kg	200		99.5	81.3-118	1.27	15.3	
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	80-113	1.54	12.1	
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	47.2-157			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	52.1-176			

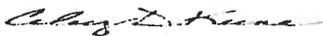
**Batch 5030604 - General Prep - Organics**

<b>Blank (5030604-BLK1)</b>		Prepared: 06-Mar-15 Analyzed: 07-Mar-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	47.8		mg/kg	50.0		95.7	47.2-157			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	52.1-176			

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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: 12-Mar-15 11:59
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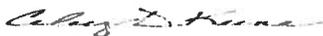
**Petroleum Hydrocarbons by GC FID - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5030604 - General Prep - Organics</b>										
<b>LCS (5030604-BS1)</b>										
					Prepared: 06-Mar-15 Analyzed: 07-Mar-15					
GRO C6-C10	194	10.0	mg/kg	200		96.8	72.5-115			
DRO >C10-C28	200	10.0	mg/kg	200		100	81.3-118			
Total TPH C6-C28	394	10.0	mg/kg	400		98.5	80-113			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	47.2-157			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	52.1-176			
<b>LCS Dup (5030604-BSD1)</b>										
					Prepared: 06-Mar-15 Analyzed: 07-Mar-15					
GRO C6-C10	201	10.0	mg/kg	200		100	72.5-115	3.70	10.1	
DRO >C10-C28	210	10.0	mg/kg	200		105	81.3-118	4.50	15.3	
Total TPH C6-C28	411	10.0	mg/kg	400		103	80-113	4.11	12.1	
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	47.2-157			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	52.1-176			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

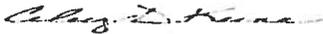
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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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

### 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 County, 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.	FOR LAB USE ONLY		MATRIX						DATE	TIME	TPH 8015	TPH 418.1	BTEX	CI		
		(G/RAB OR C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER							ACID/BASE	ICE / COOL
H500617	Cardboro 1928 #101		1			✓				✓		3/5/15	9:30am	✓	✓	✓	✓
	Dahl 1928 #061		1			✓				✓		10:20am		✓	✓	✓	✓
	Lewis 2028 #351		1			✓				✓		11:00am		✓	✓	✓	✓
	Galveston 2028 #301		1			✓				✓		11:30am		✓	✓	✓	✓
	Thornton 2027 #331		1			✓				✓		12:30pm		✓	✓	✓	✓

**PLEASE NOTE:** Under no circumstances shall the amount paid by the client for the analysis of data including those for negligence and any other cause whatsoever shall be deemed waived unless noted in writing and initiated by Cardinal within 30 days after completion of the applicable analysis. All data including those for negligence and any other cause whatsoever shall be deemed waived unless noted in writing and initiated by Cardinal within 30 days after completion of the applicable analysis. All data including those for negligence and any other cause whatsoever shall be deemed waived unless noted in writing and initiated by Cardinal within 30 days after completion of the applicable analysis.

Relinquished By: *[Signature]*  
 Date: **3/6/15**  
 Time: **9:00**  
 Received By: *[Signature]*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: **Email results to: dholcomb75@gmail.com**  
**kay.maddox@whiting.com**

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: **3.8**  
 Sample Condition:  Cool, Intact  Other  
 Checked By: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #511





# Whiting Oil & Gas Corp.

GALVESTON 2028 #301  
UNIT K, SEC. 30, T20N, R28E  
1700' FSL & 1700' FWL

API #30-021-20662 HARDING CO., NM



looking north



Looking South



Looking EAST



looking west





July 1, 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

GALVESTON 2028 30 Well # 1  
30-021-20662  
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. 30-021-20662
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	7. Lease Name or Unit Agreement Name GALVESTON 2028 30
	8. Well Number 1
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 WILDCAT; TUBB CO2 GAS POOL
4. Well Location Unit Letter K 1700 feet from the SOUTH line and 1700 feet from the WEST line Section 30 Township 20N Range 28E NMPM County HARDING	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5595' GR	

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

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

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.

10/11/2014 SPUD WELL  
 10/12/2014 DRILD 12 1/4 HOLE, SET 9 5/8 J-55 36# CSG @ 772' W/300 SXS CMT (13.00PPG, 1.89 YIELD) + 200 SXS CMT (14.8PPG, 1.32 YIELD), CIRC CMT TO SURFACE, PRESS CSG TO 600#, OK  
 10/22/2014 DRILD 8 3/4" HOLE, SET 7" J-55 20# CSG @ 2618' W/700 SXS CMT (13.00 PPG, 1.89 YEILD) + 100 SXS CMT (14.8 PPG, 1.32 YEILD), CIRC CMT TO SURFACE, PRESS CSG TO 600#, OK  
 10/23/2014 CORED 2665-2776'  
 10/28/2014 TD 2859  
 10/30/2014 DRILD 6 1/4" HOLE, SET 5 1/2 " J-55 15.5# CSG @ 2859' W/200 SXS CMT (13.0PPG, 1.89 YEILD) + 30 SXS CMT (14.8PPG, 1.32 YEILD) CIRC TO SURFACE, PRESS TO 600#, OK  
 04/27/2015 REQUESTED 60 DAY EXTENSION TO CLOSE TEMPORARY PIT - DUE TO WEATHER  
 06/10/2015 CLOSED TEMPORARY DRILLING PIT

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: 07/01/2015

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):

**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 - 8 copies

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-021-20662		<sup>2</sup> Well Code 98104		<sup>3</sup> Well Name Wildcat; Tubb CO <sub>2</sub> GAS POOL	
<sup>4</sup> Property Code 313383		<sup>5</sup> Property Name GALVESTON 2028 30			<sup>6</sup> Well Number 1
<sup>7</sup> GRID No. 25078		<sup>8</sup> Operator Name WHITING OIL & GAS CORPORATION			<sup>9</sup> Elevation 5595'

**Surface Location**

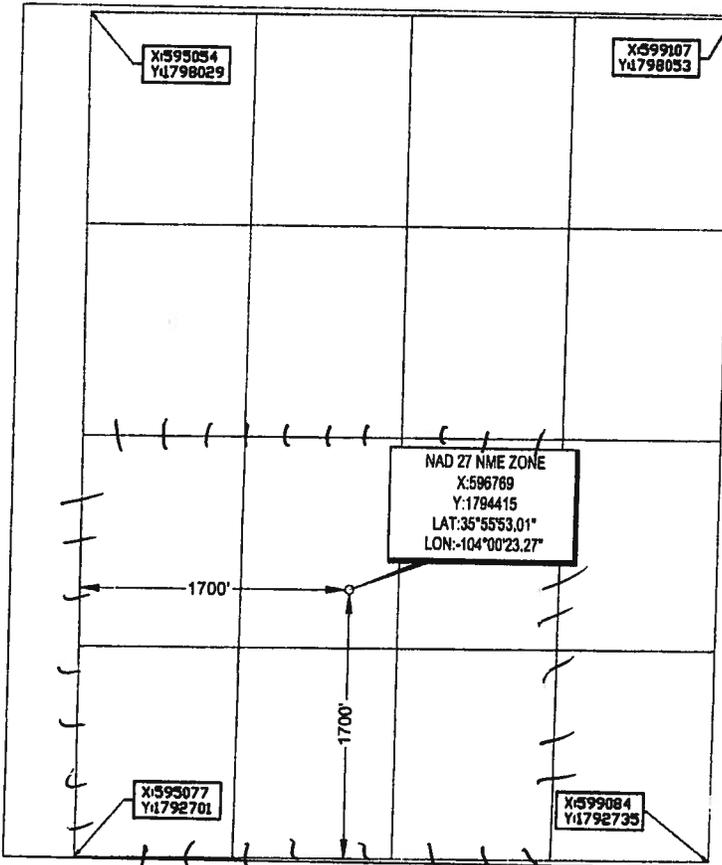
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	20 NORTH	28 EAST, N.M.P.M.		1700'	SOUTH	1700'	WEST	HARDING

**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>10</sup> Dedicated Acres: 160  
<sup>11</sup> Joint or Infill:   
<sup>12</sup> Consolidation Code:   
<sup>13</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



**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.

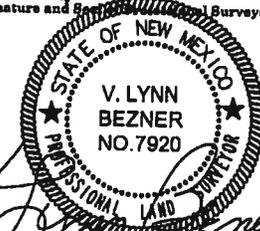
*Kay Maddox 8/25/2014*  
Signature Date  
KAY MADDOX  
Printed Name

**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.

August 20, 2014

Date of Survey  
Signature and Seal of Professional Surveyor



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

FILE:LO\_GALVESTON\_2028\_301\_REV1 K.Y.