| 7  |  |   |
|--|--|---|
| District 1<br>1625 N. French Dr., Hobbs, NM 88240<br>District II<br>811 S. Fost St., Artesia, NM 88210<br>District III<br>1000 Rio Bilazos Road, Aztec, NM 87410<br>District IV<br>1220 S. St. Francis Dr., Santa Fe, NM 87505   | State of New Mexico<br>Department<br>Oil Conservation Division<br>1220 South St. Francis Dr.<br>Santa Fe, NM 87505   | Form C-144<br>Revised June 6, 2013<br>For temporary pits, below-grade tanks, and<br>multi-well fluid management pits, submit to the<br>appropriate NMOCD District Office.<br>For permanent pits submit to the Santa Fe<br>Environmental Bureau office and provide a copy to<br>the appropriate NMOCD District Office. |
|  | Dit Deless Crede Terls or  |   |
| 12367 Proposed Alt<br>Type of action: Belov<br>21-20598 Perm<br>Close<br>Modi<br>Close<br>or proposed alternative me   | Pit, Below-Grade Tank, or<br>ernative Method Permit or Closur<br>w grade tank registration<br>it of a pit or proposed alternative method<br>ure of a pit, below-grade tank, or proposed alter<br>ification to an existing permit/or registration<br>are plan only submitted for an existing permitte<br>thod | re Plan Application   |
| Instructions: Please submit of   | one application (Form C-144) per individual pit, be  | elow-grade tank or alternative request  |
| environment. Nor does approval relieve the operator  | not relieve the operator of hability should operations res   | sult in pollution of surface water, ground water or the le governmental authority's rules, regulations or ordinance   |
| 1.<br>Operator: Whiting Oil & Gas Corp   | OGRID #: 25078   | OIL CONS. DIV DIST. 3   |
| Address: 400 W. Illinois, Suite 1300, Midlar   | od. Texas 79701  | NOV 1 8 2014  |
| Facility or well name: State 2229 #36-   | 1  | · · ·   |
| API Number: 30-02/-205   | 98 OCD Permit Number   |   |
| $\frac{1}{1} = \frac{1}{1} = \frac{1}$ | 6 Township 22 N David 20 1   | F Q Hording   |
|  |  | E County: <u>Itarumg</u>  |
| Center of Proposed Design: Latitude <u>36.</u>   | 0957024 Longitude -103.80  | <b>61726</b> NAD: □1927 ⊠ 1983  |
| Surface Owner: 🗌 Federal 🖾 State 🗌 Private   | Tribal Trust or Indian Allotment   |   |
| <ul> <li>2.</li> <li>Pit: Subsection F, G or J of 19.15.17.11 N<br/>Temporary: Drilling Workover</li> <li>Permanent Emergency Cavitation</li> <li>Lined Unlined Liner type: Thickness</li> <li>String-Reinforced Liner Seams: Welded</li> </ul>  | MAC<br>P&A  Multi-Well Fluid Management<br><u>20</u> mil  LLDPE HDPE PVC<br>Factory Other Volume: <u>10,700</u> t  | Low Chloride Drilling Fluid ⊠ yes □ no<br>] Other<br>bbl Dimensions: L <u>100'</u> x W_ <u>100'</u> x D_ <u>6'</u>  |
| 3.   | 7.11 NMAC  |   |
| Volume: bbl Type of  | fluid: Tank Construction   | material:   |
| Secondary containment with leak detection  | ☐ Visible sidewalls, liner, 6-inch lift and automati   | ic overflow shut-off  |
| Visible sidewalls and liner 🗌 Visible side   | walls only  Other  |   |
| Liner type: Thicknessm   | il 🗌 HDPE 🗌 PVC 🗍 Other  | ·   |
| 4.<br><u>Alternative Method</u> :<br>Submittal of an exception request is required. E  | Exceptions must be submitted to the Santa Fe Enviror   | nmental Bureau office for consideration of approval.  |
| <ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (</li> <li>Chain link, six feet in height, two strands of b institution or church)</li> <li>Four foot height, four strands of barbed wire</li> </ul>  | Applies to permanent pits, temporary pits, and below<br>parbed wire at top (Required if located within 1000 for<br>evenly spaced between one and four feet   | w-grade tanks)<br>eet of a permanent residence, school, hospital,   |
| Alternate. Please specify  |  | ~   |
| E.m. C. Lt.  | Oil Conservation Division  | Pune Lof 15   |

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks,

Screen Netting Other

7.

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Monthly inspections (If netting or screening is not physically feasible)

# Signs: Subsection C of 19.15.17.11 NMAC

X 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

## Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

| 9.<br>Siting Criteria (regarding permitting): 19.15.17.10 NMAC<br>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of ac<br>material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.   | cceptable source   |
|--|--------------------|
| General siting   |                    |
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.<br>- 🛛 NM Office of the State Engineer - iWATERS database search; 🗌 USGS; 🖾 Data obtained from nearby wells  | □ Yes ⊠ No<br>□ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.<br>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | □ Yes ⊠ No<br>□ 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)<br>- 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         |
| <ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society: Topographic map</li> </ul>  | 🗋 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             |
| <ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>   |                    |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)   |                    |
| <ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>                                  | 🗌 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.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | 🗌 Yes 🛛 No         |

| · · ·  |  |   |
|--|--|---|
| Temporary Pit Non-low chloride c   | ig fluid   | 🗌 Yes 🗌 No  |
| Within 300 feet of a continuously flowing watercous sinkhole, or playa lake (measured from the ordinary h  | urse, or any other significant watercourse, or within 200 feet of any lakebed, igh-water mark).<br>ation) of the proposed site   |   |
| Within 300 feet from a permanent residence, school, h<br>- Visual inspection (certification) of the propos   | nospital, institution, or church in existence at the time of initial application.<br>ed site; Aerial photo; Satellite image  |   |
| Within 500 horizontal feet of a spring or a private, do watering purposes, or 1000 feet of any other fresh v Office of the State Engineer - iWATERS database sca   | omestic fresh water well used by less than five households for domestic or stock<br>vater well or spring, in the existence at the time of the initial application; NM<br>rrch; Visual inspection (certification) of the proposed site  | 🗋 Yes 🗌 No  |
| Within 300 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification r   | map; Topographic map; Visual inspection (certification) of the proposed site   | 🗌 Yes 🗌 No  |
| Permanent Pit or Multi-Well Fluid Ma   | anagement Pit  |   |
| Within 300 feet of a continuously flowing watercourse<br>lake (measured from the ordinary high-water mark).  | e, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa  | 🗌 Yes 🗌 No  |
| <ul> <li>I opographic map; V isual inspection (certification)</li> <li>Within 1000 feet from a permanent residence, school,</li> <li>Visual inspection (certification) of the propose</li> </ul>   | (tion) of the proposed site<br>hospital, institution, or church in existence at the time of initial application.<br>ed site; Aerial photo; Satellite image   | 🗌 Yes 🗌 No  |
| Within 500 horizontal feet of a spring or a fresh wate initial application.  | r well used for domestic or stock watering purposes, in existence at the time of   | 🗌 Yes 🗌 No  |
| - NM Office of the State Engineer - iWATERS  | database search; Visual inspection (certification) of the proposed site  |   |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification n   | nap; Topographic map; Visual inspection (certification) of the proposed site   | 🗌 Yes 🗌 No  |
| Temporary Pits, Emergency Pits, and Below-grade<br>Instructions: Each of the following items must be at<br>attached.<br>Hydrogeologic Report (Below-grade Tanks) - ba<br>Hydrogeologic Data (Temporary and Emergency<br>Siting Criteria Compliance Demonstrations - base<br>Design Plan - based upon the appropriate require<br>Operating and Maintenance Plan - based upon the<br>Closure Plan (Please complete Boxes 14 through<br>and 19.15.17.13 NMAC  | Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9<br>tached to the application. Please indicate, by a check mark in the box, that the of<br>used upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC<br>y Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9<br>sed upon the appropriate requirements of 19.15.17.10 NMAC<br>ements of 19.15.17.11 NMAC<br>he appropriate requirements of 19.15.17.12 NMAC<br>in 18, if applicable) - based upon the appropriate requirements of Subsection C of 1<br>m) API Number: or Permit Number: | 9 NMAC<br>documents are<br>7.9 NMAC<br>9.15.17.9 NMAC |
|  |  |   |
| <ul> <li>Multi-Well Fluid Management Pit Checklist: Subs<br/>Instructions: Each of the following items must be at<br/>attached.</li> <li>Design Plan - based upon the appropriate requir</li> <li>Operating and Maintenance Plan - based upon the<br/>A List of wells with approved application for pe<br/>Closure Plan (Please complete Boxes 14 throug)</li> <li>NMAC and 19.15.17.13 NMAC</li> <li>Hydrogeologic Data - based upon the requirement<br/>Siting Criteria Compliance Demonstrations - based</li> </ul> | section B of 19.15.17.9 NMAC<br>tached to the application. Please indicate, by a check mark in the box, that the a<br>ements of 19.15.17.11 NMAC<br>he appropriate requirements of 19.15.17.12 NMAC<br>ermit to drill associated with the pit.<br>h 18, if applicable) - based upon the appropriate requirements of Subsection C of<br>ents of Paragraph (4) of Subsection B of 19.15.17.9 NMAC<br>sed upon the appropriate requirements of 19.15.17.10 NMAC   | <i>locuments are</i><br>19.15.17.9                    |
| Previously Approved Design (attach copy of desig   | (n) API Number: or Permit Number:  |   |
| 12.         Permanent Pits Permit Application Checklist:       Sub         Instructions:       Each of the following items must be at attached.         Hydrogeologic Report - based upon the required         Siting Criteria Compliance Demonstrations - ba         Climatological Factors Assessment         Certified Engineering Design Plans - based upon  | psection B of 19.15.17.9 NMAC<br>tached to the application. Please indicate, by a check mark in the box, that the a<br>nents of Paragraph (1) of Subsection B of 19.15.17.9 NMAC<br>sed upon the appropriate requirements of 19.15.17.10 NMAC<br>n the appropriate requirements of 19.15.17.11 NMAC  | locuments are   |
| <ul> <li>Dike Protection and Structural Integrity Design</li> <li>Leak Detection Design - based upon the approp</li> <li>Liner Specifications and Compatibility Assessm</li> <li>Ouality Control/Ouality Assurance Construction</li> </ul>   | - based upon the appropriate requirements of 19.15.17.11 NMAC<br>riate requirements of 19.15.17.11 NMAC<br>tent - based upon the appropriate requirements of 19.15.17.11 NMAC<br>to and Installation Plan  |   |

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| <ul> <li>Operating and Maintenance Plan - based u le appropriate requirements of 19.15.17.12 NMA</li> <li>Freeboard and Overtopping Prevention Plan - oased upon the appropriate requirements of 19.15.1</li> </ul>   |  |
|---|--|
| <ul> <li>Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan</li> <li>Emergency Response Plan</li> <li>Oil Field Waste Stream Characterization</li> </ul>  |  |
| <ul> <li>Monitoring and Inspection Plan</li> <li>Erosion Control Plan</li> <li>Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC</li> </ul>  |  |
|   |  |
| <b>Proposed Closure:</b> 19.15.17.13 NMAC<br>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       Alterna         Proposed Closure Method:       Waste Excavation and Removal       Waste Removal (Closed-loop systems only)       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  | tive                                       |
|   |  |
| Waste Excavation and Removal Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must 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 | t be attached to the<br>C<br>1AC           |
|   |  |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC<br>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable<br>provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalent<br>19.15.17.10 NMAC for guidance.  | source material are<br>sy. Please refer to |
| 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   | □ Yes ⊠ No<br>□ 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   | ☐ Yes ⊠ No<br>☐ NA                         |
| <ul> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>  | □ Yes ⊠ No<br>□ NA                         |
| <ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | 🔲 Yes 🛛 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  | 🗌 Yes 🛛 No                                 |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existen<br>at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site  | ce 🗌 Yes 🛛 No                              |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | 🗌 Yes 🕅 No                                 |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | Yes 🛛 No                                   |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | Yes 🛛 No                                   |
| <ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological<br/>Society; Topographic map</li> </ul>   | □ Yes ⊠ No                                 |
|   |  |

| 16.       On-Site Closure Plan Checklist: (19.15.17.13  |
|---|
| 17.<br>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): <u>Robert McNaughton</u> Title: <u>Sr. Operations Engineer</u>  |
| Signature: Date: /- 20-/Y   |
| e-mail address: <u>Robert.McNaughton@whiting.com</u> Telephone: <u>432-413-2989</u>   |
| 18.<br>OCD Approval: P Permit Application (including closure plan) X Closure Plan (only) OCD Conditions (see attachment)  |
| OCD Representative Signature: Master ang ( Approximate 1/29/2014  |
| DISTRICT SUPERVISOR   |
| Number: Frouronantal Syst   |
|   |
| Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC<br>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure<br>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<br>this section of the form until an approved closure plan has been obtained and the closure activities have been completed.<br>X Closure Completion Date: 11/11/2014  |
| Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC<br>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure<br>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<br>this section of the form until an approved closure plan has been obtained and the closure activities have been completed.<br>Closure Completion Date: 11/11/2014  |
| 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.         20.         20.         Closure Method:         Waste Excavation and Removal         M On-Site Closure Method         If different from approved plan, please explain.   |
| 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.         20.       Image: Closure Completion Date:  |
| Closure Report 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.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved closure plan has been obtained and the closure activities have been completed.         Image: Section of the form until an approved plan, please explain.         Image: Section approved plan, please explain.         Image: Section approved plan, please explain.         Image: Section approved plan, please explain.         Image: Sectio  |
| Closure Report (required within 60 days of closure completion): 19.15.17.13 NAC         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.         10.       Image: Closure Method:       Image: Closure Method       Closure Completion Date: 11/11/2014         10.       Closure Method:       Image: Closure Method       Waste Excavation and Removal Image: Closure Method       Alternative Closure Method       Waste Removal (Closed-loop systems only)         11       If different from approved plan, please explain.       Image: 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.         10.       Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (required for on-site closure for private land only)         11.       Confirmation Sampling Analytical Results (required for on-site closure)       Disposal Facility Name and Permit Number         12.       Soil Backfilling and Cover Installation       36.045       Longitude102.806       NAD: [1927 ] 1983         12.       Image: Closure Closure Completion and attachments submitted with this closure report is true, accurate and compl   |
| 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.         30.       Implementing any closure Completion Date:  |
| Closure Report (required within 60 days of closure completion): 19:1517.13 NMAC         Instructions: Operators are required to be submitted to the division within 60 days of the completion of the 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 pirot to implementing any closure activities and submitting the closure this section of the form until an approved closure plan pirot to implementing any closure activities and submitting the closure this section of the form until an approved closure plan pirot to implementing any closure activities and submitting the closure this section of the form until an approved closure plan pirot to implementing any closure activities and submitting the closure this section of the form until an approved closure plan pirot to implementing any closure activities and submitting the closure this section of the form until an approved closure plan planes explain.         10.       Closure Method:       Implementing any closure Method       Waste Removal (Closed-loop systems only)         11.       Closure Natice (Surface owner and division)       Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (surface owner and division)       Proof of Closure Notice (surface owner and division)       Proof of Closure Sampling Analytical Results (required for on-site closure for on-site closure for on-site closure for on-site closure for on-site closure)       Disposal Facility Name and Permit Number         Soil Backfilling and Cover Institution       36.095       Longitude _103.806       NAD: ☐ 1927 ☐ 1983 |

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Oil Conservation Division

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# WHITING OIL AND GAS CORPORATION PIT CLOSURE REPORT

STATE 2229 #36-1 API NO 30-021-20598

 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 NMOCD granted an extension to close this pit- reference attached C-103

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

# State was notified via email – reference attached copy of email

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

# NMOCD was notified via email - reference attached copy of email

- 4) If on site burial is on PRIVATE LAND, Whiting will file a deed notice identifying the exact location of the onsite burial with the county clerk in county where onsite burial occurs
- Pit is located on State land however a deed notice was filed see attached
  5) All liquids from the pit will be removed prior to closure. Liquids will be disposed of at the Sundance Services, Inc. Parabo Disposal Facility (Permit No. 010003), unless they are recycled, reused, or reclaimed in a division district office-approved manner.
  - Liquids from pit evaporated, no removal was required.
- 6) The pit will be stabilized with clean non-waste containing earthen material with a ratio no more then 3:1

Pit was stabilized with non-waste containing earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and Mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed safe and stable. The mixing ratio consisted of approximately 3 parts clean soil to 1 part pit contents.

- 7) After stabilization, the contents of the pit will be tested to determine whether concentrations are below standards. A five-point composite sample will be collected. The samples will be sent to an approved laboratory and analyzed for benzene, total BTEX, TPH, the GRO and DRO combined fraction, and chlorides. <u>Assuming water could be encountered around 100</u>', 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 19.15.17.13(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 divisionprescribed 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 recontouring 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 predisturbance 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 revegetation has been achieved.

# Whiting will comply

- 20) Place a steel marker at the center of the onsite burial. The marker shall be 4" diameter, at least 4' high and cemented 3' deep. The following will be welded, stamped or otherwise permanently engraved into the marker; operator name, lease name, well number and location, unit letter, section, township, range, and that the marker designates an onsite burial **Reference attached pictures**
- 21) Within 60 days of closure, completion, a closure report will be submitted on form C-144, with necessary attachments, to document closure activities, including sampling results, a plot plan, and backfilling details. In this closure report, Whiting will certify that all information in the report and attachments is correct and that Whiting has complied with all applicable closure requirements and conditions specified in the approved Closure Plan. A plat of the temporary pit location will be provided on form C-105.

| Submit I Copy                       | To Appropriate District   | S   | State of New Me                            | exico   | Form C-102   |
|-------------------------------------|---|---|--|---|--|
| District I - (57                    | 5) 393-6161   | Energy, N   | Ainerals and Natu                          | ral Resources                                     | Revised July 18, 201.  |
| 1625 N. Frencl<br>District II – (5) | 1 Dr., Hobbs, NM 88240<br>75) 748-1283                            |   |  |   | WELL API NO.   |
| 811 S. First St.                    | First St., Artesia, NM 88210 OIL CONSERVATION DIVISION            |   | 5 Indicate Type of Lease                   |   |  |
| District III - (5                   | 505) 334-6178   | 122   | 0 South St. Fran                           | ncis Dr.  | STATE STATE  |
| District IV – (                     | os Rd., Aztec, NM 8/410<br>505) 476-3460                          | )<br>{  | Santa Fe, NM 87                            | 7505  | 6 State Oil & Gas Lease No   |
| 1220 S. St. Fra<br>87505            | ncis Dr., Santa Fe, NM  |   | ·  |   |  |
|                                     | SUNDRY NO   | OTICES AND REP  | ORTS ON WELLS                              |   | 7. Lease Name or Unit Agreement Name   |
| DIFFERENT I                         | E THIS FORM FOR PRC   | PUSALS TO DRILL OF                                      | R TO DEEPEN OR PLI<br>MIT" (FORM C-101) F( | UG BACK TO A                                      | STATE 2229   |
| PROPOSALS.                          | )<br>Type of Well: Oil V  |   | ell 🔽 Other                                |   | 8. Well Number   |
| 2. Name of                          | Operator  |   |  |   | 9. OGRID Number 25078  |
| WHITING                             | OIL AND GAS CO  | RPORATION   |  |   |  |
| 3. Address                          | of Operator   |   |  |   | 10. Pool name or Wildcat   |
| 400 W ILLI                          | NOIS STE 1300 M   | MIDLAND, TX 79  | 701  |   | BRAVO DOME CARBON DIOXIDE GAS 640  |
| 4. Well Loo                         | cation  |   | 1' 1 1000 C                                |   |  |
| Un                                  | it Letter F 1980 fee  | t from the NORTH  | line and 1980 fee                          | t from the WEST                                   | line   |
| Sec                                 | ction 36  | Township 22N  | Kange 29E                                  | NMPM  | County HARDING   |
|                                     |   | 5455' GR  | (Snow whether DR,                          | <i>KKD</i> , <i>K</i> 1, <i>GK</i> , <i>elc</i> . |  |
|                                     |   |   |  |   |  |
|                                     | 12. Chec  | k Appropriate B   | ox to Indicate N                           | ature of Notice,                                  | Report or Other Data   |
|                                     | NOTICE OF   | INTENTION T   | O:   | SUB   | SEQUENT REPORT OF:   |
| PERFORM                             | REMEDIAL WORK   | PLUG AND AI   | BANDON                                     | REMEDIAL WOR                                      | K 🛛 ALTERING CASING 🗍  |
| TEMPORAF                            | RILY ABANDON  | CHANGE PLA  | NS 🛛                                       | COMMENCE DR                                       | ILLING OPNS. 🔲 🛛 P AND A 🔤   |
| PULL OR A                           | LTER CASING   |   | OMPL                                       | CASING/CEMEN                                      | т јов  |
| DOWNHOL                             | E COMMINGLE   |   |  |   |  |
| CLOSED-LO                           | DOP SYSTEM  |   |  | OTHER   | orany Pit Closure Extension  |
|                                     |   |   |  |   |  |
| 13. Desc<br>of st<br>prop           | cribe proposed or co<br>arting any proposed<br>osed completion or | mpleted operations.<br>work). SEE RULE<br>recompletion. | (Clearly state all 1<br>2 19.15.7.14 NMAC  | pertinent details, an<br>C. For Multiple Co       | d give pertinent dates, including estimated da mpletions: Attach wellbore diagram of |
| X                                   | Whiting respectfully  | roquests a 00 day a                                     | vtension on alasin                         | the pit accorded                                  | with the drilling of this well   |
| r                                   | oursuant to 19.15.17  | .13.G.2.  | Atension on closing                        | s the pit associated                              | with the drifting of this wen  |
| l                                   | t is currently the mo   | onsoon season in Ha                                     | rding County and i                         | t has been raining c                              | consistently and we are unable to drain  |
| ť                                   | he pit at this time in  | order to close it acc                                   | ording to the rules                        |   |  |
|                                     |   |   |  | 1 ad  | 10019  |
|                                     |   |   |  | avanter   | 20,111   |
|                                     |   |   |  | gin v   | No. 11. 1  |
|                                     |   |   |  |   | ·  |
| Soud Date:                          | 02/07/2014  |   | Rig Release D                              | ote: 02/13/2014                                   |  |
| spud Dute.                          |   |   |  |   |  |
|                                     |   |   |  |   |  |
| I hereby certi                      | fy that the informati   | on above is true and                                    | i complete to the be                       | est of my knowledg                                | ge and belief.   |
|                                     | -1 h  | A.11.1  |  |   |  |
| SIGNATURI                           | AM I  | Thada   |  | JLATORY ANAL                                      | YST DATE: 08/11/2014   |
|                                     |   | l   |  |   |  |
| Type or print                       | nante Kay Maddo:  | x E-mail address: <u>k</u>                              | ay.Maddox@Whit                             | ing.com PHONE:                                    | 432-638-8475   |
| FOR STATE US                        | e Uilly   |   |  |   |  |
| APPROVED                            |   |   |  |   |  |
| III KO I DD                         | BY:   |   | TITLE                                      |   | DATE   |
| Conditions of                       | BY:<br>Approval (if any):   | ·······   | TITLE                                      |   | DATE   |

# Kay Maddox

| From:    | Martin, Ed <emartin@slo.state.nm.us></emartin@slo.state.nm.us> |
|----------|--|
| Sent:    | Thursday, November 06, 2014 9:46 AM                            |
| То:      | Kay Maddox; Smith, Cory, EMNRD                                 |
| Cc:      | Strang, Dana V.  |
| Subject: | RE: Pit Closure - State 2229 361                               |

Acknowledged. Thanks, Kay.

Ed Martin

New Mexico State Land Office

Oil & Gas Manager

Oil, Gas, and Minerals Division

Phone: 505-827-5746

Fax: 505-827-4739

From: Kay Maddox [mailto:Kay.Maddox@whiting.com] Sent: Thursday, November 06, 2014 8:30 AM To: Smith, Cory, EMNRD; Martin, Ed Subject: Pit Closure - State 2229 361

Cory and Ed -

We are Planning on closing the temporary pit for the State 2229 361 API no 30-021-20598 located in Section 36, T22N, R29E, Harding County, New Mexico on/or close to 11/10/2014 – please acknowledge receipt of this notification.

Kay Maddox Regulatory Supervisor Whiting Petroleum Corporation and its wholly owned subsidiary Whiting Oil and Gas Corporation 400 West Illinois Avenue, Suite 1300 STATE OF NEW MEXICO

COUNTY OF HARDING

H A R D I N G C O U N T Y, N M RECEPTION# 20707 08/01/2014 12:56:42 PM BK 19 PAGE 10348 1 of 1 BY CELESTE YBARRA

## **NOTICE OF PIT CLOSURE**

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

| Lease name:  | STATE 2229                 |
|--------------|----------------------------|
| Well No:     | 36-1                       |
| API No:      | 30-021-20598               |
| TWN & RGE:   | TWN 22N RGE 29E Section 36 |
| Unit Letter: | F                          |
| Footages:    | 1980 FNL & 1980 FWL        |

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

PIT closed 11/11/2014

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

Káy Maddox – Regulatory Supervisor

STATE OF TEXAS COUNTY OF MIDLAND

This instrument was acknowledged before me this  $30^{\frac{4}{5}}$  day of 2014, by

Kay Maddox on behalf of Whiting Oil & Gas Corporation.



Notary Public



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

April 30, 2014

BRIAN HOLLADAY WHITING OIL & GAS 400 W. ILLINOIS, SUITE 1300 MIDLAND, TX 79701

RE: WEST BRAVO DOME CO2

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 16:55.

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 <u>www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</u>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg Di Keine

Celey D. Keene Lab Director/Quality Manager



1 1 1 J

## Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soll          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: MAES 2131 #18-1 (H401230-01)

| BTEX 82608                      | mg,    | /kg             | Analyze    | d By: ck     |      |            |               |      |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/29/2014 | ND           | 2.35 | 118        | 2.00          | 6.15 |           |
| Toluene*                        | <0.050 | 0,050           | 04/29/2014 | ND           | 2.13 | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/29/2014 | ND           | 2.03 | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/29/2014 | ND           | 6.25 | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300 | 0.300           | 04/29/2014 | ND           |      |            |               |      |           |
| Surrogate: Dibromofluoromethane | 101    | 861.3-14        | 2          |              |      |            |               |      |           |
| Surrogate: Toluene-d8           | 97.5   | % 71.3-12       | 9          |              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 98.8   | % 65.7-14       | 1          |              |      |            |               |      |           |
| Chloride, SM4500CI-B            | mg/    | kg              | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 96.0   | 16.0            | 04/25/2014 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg/    | kg              | Analyze    | d By: CK     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | ßS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014 | ND           | 186  | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | <10.0  | 10.0            | 04/25/2014 | ND           | 207  | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 123 9  | 65.2-14         | 0          |              |      |            | ········      |      |           |
| Surrogate: 1-Chloroactadecane   | 119 9  | 6 63.6-15       | 4          |              |      |            |               |      |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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aleg Li Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soil          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: MIERA 2130 #35-1 (H401230-02)

| BTEX 82608                      | mg,             | kg              | Analyze    | ed By: ck    |      |            |               |      |           |
|---------------------------------|-----------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result          | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050          | 0.050           | 04/29/2014 | ND           | 2.35 | 118        | 2.00          | 6.15 |           |
| Toluene*                        | < <b>0.0</b> 50 | 0.050           | 04/29/2014 | ND           | 2.13 | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050          | 0.050           | 04/29/2014 | ND           | 2.03 | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150          | 0.150           | 04/29/2014 | ND           | 6.25 | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300          | 0.300           | 04/29/2014 | ND           |      |            |               |      |           |
| Surrogate: Dibromofluoromethane | 104             | % 6].3-]4       | 2          |              |      |            |               |      |           |
| Surrogate: Tolnene-d8           | 103 9           | 71.3-12         | 9          |              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 101 9           | 65.7-14         | 1          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B            | mg/             | kg              | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                         | Result          | Reporting Limit | Analyzed   | Method Blank | 8S   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 16.0            | 16.0            | 04/25/2014 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg/             | kg              | Analyze    | d By: CK     |      |            |               |      |           |
| Analyte                         | Result          | Reporting Limit | Analyzed   | Method Blank | 8S   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0           | 10.0            | 04/25/2014 | ND           | 186  | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | 17.8            | 10.0            | 04/25/2014 | ND           | 207  | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctone       | 113 9           | 6 65.2-14       | 0          |              |      |            | <u> </u>      |      |           |
| Surrogate: 1-Chlorooctadecane   | 114 9           | 63.6-154        | 1          |              |      |            |               |      |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

RLEASE HUTE: Listability and Demogras. Conclusity listability and chern's exclusive remondy for every dation utaking, who liver leaves in canchest on loss, shall be listable to the executing lists by three to analyses. All dates, indealing listers for manyhyperior and any utaking many databases and analyses and control of the same database within thinky (16) days after completion of the applicable sources. In no event shall contain the bable for incubing database of an applicable, including, instants interruptions, loss of use, or loss of posits incurred by cleart, its substatution, diffusion or sourcessants or hando out of or related to the preformance of the senticuts instanders by candidate, regardless of values and analysis of values and analysis of values and the comparison of the applicable source, and the sentices that and the sentices of the sentices of the sentices of values of a values of values of the sentices of the sentices of the sentices of values of the sentices of the sentices of the sentices of values of values

Celeg Li Keine

Celey D. Keene, Lab Director/Quality Manager



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

#### Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soil          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

### Sample ID: CASADOS 2030 #12-1 (H401230-03)

| BTEX 82608                      | mg     | /kg             | Analyze    | d By: ck     |      |            |               |                  |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------------------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD              | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/29/2014 | ND           | 2.35 | 118        | 2.00          | 6.15             |           |
| Toluene*                        | <0.050 | 0.050           | 04/29/2014 | ND           | 2.13 | 106        | 2.00          | 8.0 <del>9</del> |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/29/2014 | ND           | 2.03 | 102        | 2.00          | 7.15             |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/29/2014 | ND           | 6.25 | 104        | 6.00          | 8.15             |           |
| Total BTEX                      | <0.300 | 0.300           | 04/29/2014 | ND           |      |            |               |                  |           |
| Surrogate: Dibromofluoromethane | 100    | % 61.3-14       | 12         |              |      |            | <u></u>       |                  |           |
| Surrogate: Toluene-d8           | 101    | % 71.3-12       | 9          |              |      |            |               |                  |           |
| Surrogate: 4-Bromofluorobenzene | 100    | % 65.7-14       | 1          |              |      |            |               |                  |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AP     |      |            |               |                  |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD              | Qualifier |
| Chloride                        | <16.0  | 16.0            | 04/25/2014 | ND           | 416  | 104        | 400           | 0.00             |           |
| TPH 8015M                       | mg,    | /kg             | Analyze    | d By: CK     |      |            |               |                  |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD              | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014 | ND           | 186  | 92,9       | 200           | 11.1             |           |
| DRO >C10-C28                    | 10.9   | 10.0            | 04/25/2014 | ND           | 207  | 103        | 200           | 12.5             |           |
| Surrogate: 1-Chlorooctane       | 126    | 65.2-14         | 0          |              |      |            |               |                  |           |
| Surrogate: 1-Chlorooctadecane   | 124    | 63.6-15         | 4          |              |      |            |               |                  |           |

#### **Cardinal Laboratories**

\*=Accredited Analyte

REDGE \$1076: Labelly and Damages. Candinals labelly and allers's exclusive remedy for any chain easing, whether based to constant a label, stalk be limited to the wannum path by clear. For analysis, individuy blook for waylipence and any other cance whatsoever shall be deemed weived unless made to methy and racebod by control within bits (30) days after comparison of the applicable service. In no event shall Conduct the Easter for incidental or consequential domages, individuy, whether tambing and the Balte for incidental or consequential domages, whether tambing and the Balte for incidental or consequential domages, whether tambing and the Balte for incidental or consequential domages, whether tambing and tambing and the Balte for incidental or consequential domages, whether tambing and the Balte for incidental or consequential domages, whether tambing and tambing and the Balte for incidental or consequential domages, and the balte for incidental and the Balte for incidental or consequential domages, and the Balte for incidental and the service incidental and the service incidental and the Balte for incidental and the Balte for

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Celey D. Keene, Lab Director/Quality Manager



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## Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soil          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: FOUR WAY 2031 #4-1 (H401230-04)

| BTEX 82608                      | mg     | /kg             | Analyze    | ed By: ck    |      |            |               |      |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/29/2014 | ND           | 2.35 | 118        | 2.00          | 6.15 |           |
| Toluene*                        | <0.050 | 0.050           | 04/29/2014 | ND           | 2.13 | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/29/2014 | ND           | 2.03 | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/29/2014 | ND           | 6.25 | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300 | 0.300           | 04/29/2014 | ND           |      |            |               |      |           |
| Surrogate: Dibronofluoromethane | 101    | % 61.3-14       | 2          |              |      |            |               |      |           |
| Surrogate: Toluene-d8           | 99.0   | % 71.3-12       | 9          |              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 104    | % 65.7-14       | 1          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 176    | 16.0            | 04/25/2014 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg,    | 'kg             | Analyze    | d By: CK     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014 | ND           | 186  | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | <10.0  | 10.0            | 04/25/2014 | ND           | 207  | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 107 \$ | 65.2-14         | )          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane   | 106 9  | 63.6-15         | 1          |              |      |            |               |      |           |

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#### \*=Accredited Analyte

REASE RUTE: Makally and Garanges. Under the shafting and above consists and when it cannot so and, when he indust to the answer of the answer for subjects. All datas, industry lines for majorant and may other cause statusment shall be deemad underso making and received by Caudial within thating (30) days after competition of the applicable service. In no means that Caudian be bable for insistential or consequential damages, adulating, restand limitation, business theoremations, or inso of profile machines of under the status data whether such datas is based doors and the bables of other status december of the service of the services in the service of the services in the service of the services in sectors and datas is based doors and the bables of other services of the services of relative of the services in the service of the services in the services of relative services in the services of relative of the services of relative of the services in the services of relative of the services of the services of relative damages, the service of the services are address of relative of the services of relative of the services of relative of the services of the services data in the services of the services

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Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soil          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: STATE 2229 #36-1 (H401230-05)

| BTEX 8260B                      | mg      | /kg             | Analyze    | ed By: ck    |      |              |               |      |           |
|---------------------------------|---------|-----------------|------------|--------------|------|--------------|---------------|------|-----------|
| Analyte                         | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery   | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050  | 0.050           | 04/29/2014 | ND           | 2.35 | 118          | 2.00          | 6.15 |           |
| Toluene*                        | <0.050  | 0.050           | 04/29/2014 | ND           | 2.13 | 106          | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050  | 0.050           | 04/29/2014 | ND           | 2,03 | 102          | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150  | 0.150           | 04/29/2014 | ND           | 6,25 | 104          | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300  | 0.300           | 04/29/2014 | ND           |      |              |               |      |           |
| Surrogate: Dibromofluoromethane | 97.4    | % 61.3-14       | 2          |              |      |              |               |      |           |
| Surrogate: Toluene-d8           | 101     | % 71.3-12       | 9          |              |      |              |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 104     | % 65.7-14       | 1          |              |      |              |               |      |           |
| Chloride, SM4500Cl-B            | mg/     | /kg             | Analyze    | d By: AP     |      |              |               |      |           |
| Analyte                         | Result  | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery   | True Value QC | RPD  | Qualifier |
| Chloride                        | 32.0    | 16.0            | 04/25/2014 | ND           | 416  | 104          | 400           | 0.00 |           |
| TPH 8015M                       | mg/     | 'kg             | Analyze    | d By: CK     |      |              | ······        |      |           |
| Analyte                         | Result  | Reporting Limit | Analyzed   | Method Blank | 85   | % Recovery   | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0   | 10.0            | 04/25/2014 | ND           | 186  | <b>9</b> 2.9 | 200           | 11.1 |           |
| DRO >C10-C28                    | 15.7    | 10.0            | 04/25/2014 | ND           | 207  | 103          | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 113 9   | 65.2-14         | 0          |              |      |              |               |      |           |
| Surrogate: 1-Chlorooctadecane   | _ 112 9 | 63.6-15         | 4          |              |      |              |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soil          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: DOROTEO 1927 #15-1 (H401230-06)

| BTEX 8260B                      | mg     | /kg             | Analyze    | d By: ck                               |      | ····       |               |      |           |
|---------------------------------|--------|-----------------|------------|--|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank                           | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/30/2014 | ND                                     | 2.35 | 118        | 2.00          | 6.15 |           |
| Toluene*                        | <0.050 | 0.050           | 04/30/2014 | ND                                     | 2.13 | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/30/2014 | ND                                     | 2.03 | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/30/2014 | ND                                     | 6.25 | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300 | 0.300           | 04/30/2014 | ND                                     |      |            |               |      |           |
| Surrogate: Dibromofluoromethone | 102    | 86 61.3-14      | 12         |  |      |            | ·····         |      |           |
| Surrogate: Tohiene-d8           | 104    | % 71.3-12       | 9          |  |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 106    | 65.7-14         | 1          |  |      |            |               |      |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AP                               |      |            | ······        |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank                           | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 240    | 16.0            | 04/25/2014 | ND                                     | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg,    | 'kg             | Analyze    | d By: CK                               |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank                           | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014 | ND                                     | 186  | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | 92.1   | 10.0            | 04/25/2014 | ND                                     | 207  | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 110    | 65.2-14         | 0          | ······································ |      |            | ·····         |      |           |
| Surrogate: 1-Chlorooctadecane   | 113 :  | 63.6-15         | 4          |  |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



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

## Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soll          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

#### Sample ID: LADD 1928 #17-1 (H401230-07)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | ed By: ck    |            |            |               |      |           |
|---------------------------------|--------|-----------------|------------|--------------|------------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS         | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/30/2014 | ND           | 2.35       | 118        | 2.00          | 6.15 |           |
| Toluene*                        | <0.050 | 0.050           | 04/30/2014 | ND           | 2.13       | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/30/2014 | ND           | 2.03       | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/30/2014 | ND           | 6.25       | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300 | 0.300           | 04/30/2014 | ND           |            |            |               |      |           |
| Surrogate: Dibromofluoromethane | 99.2   | % 61.3-14       | 2          |              |            |            |               |      |           |
| Surrogate: Toluene-d8           | 98.0   | % 71.3-12       | 9          |              |            |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 1159   | 65.7-14         | 1          |              |            |            |               |      |           |
| Chloride, SM4500Cl-B            | mg/    | kg              | Analyze    | d By: AP     |            |            |               |      |           |
| Anałyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS         | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 64.0   | 16.0            | 04/25/2014 | ND           | 416        | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg/    | kg              | Analyze    | d By: CK     |            |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | 8S         | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014 | ND           | 186        | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | 16.9   | 10.0            | 04/25/2014 | ND           | 207        | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 104 %  | 65.2-140        | )          |              | - <u>-</u> |            |               |      |           |
| Surrogate: 1-Chlorooctadecane   | 101 %  | 6 63.6-154      | 1          |              |            |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



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### Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soll          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: LEWIS 1928 #2-1 (H401230-08)

| BTEX 82608                      | mg,    | /kg             | Analyze             | d By: ck     |             |            |               |      |           |
|---------------------------------|--------|-----------------|---------------------|--------------|-------------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed            | Method Blank | BS          | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.050 | 0.050           | 04/30/2014          | ND           | 2.35        | 118        | 2.00          | 6.15 |           |
| Toluene*                        | <0.050 | 0.050           | 04/30/2014          | ND           | 2.13        | 106        | 2.00          | 8.09 |           |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/30/2014          | ND           | 2.03        | 102        | 2.00          | 7.15 |           |
| Total Xylenes*                  | <0.150 | 0.150           | 04/30/2014          | ND           | 6.25        | 104        | 6.00          | 8.15 |           |
| Total BTEX                      | <0.300 | 0.300           | 04/30/2014          | ND           |             |            |               |      |           |
| Surrogate: Dibromofluoromethane | 103    | % 61.3-14       | 2                   |              |             |            |               |      |           |
| Surrogate: Tolnene-d8           | 97.4   | % 71.3-12       | 9                   |              |             |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 102    | 65.7-14         | 1                   |              |             |            |               |      |           |
| Chloride, SM4500Cl-B            | mg/    | kg              | Analyze             | d By: AP     |             |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed            | Method Blank | BS          | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 848    | 16.0            | 04/25/2014          | ND           | 416         | 104        | 400           | 0.00 |           |
| TPH 8015M                       | mg/    | kg              | Analyze             | d By: CK     |             |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed            | Method Blank | BS          | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014          | ND           | <b>18</b> 6 | 92.9       | 200           | 11.1 |           |
| DRO >C10-C28                    | <10.0  | 10.0            | 0 <b>4/25/201</b> 4 | ND           | 207         | 103        | 200           | 12.5 |           |
| Surrogate: 1-Chlorooctane       | 97.4   | 65.2-14         | 0                   |              |             |            |               |      |           |
| Surrogate: 1-Chlorooctadecane   | 94.8   | 63.6-15         | 4                   |              |             |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager





# Analytical Results For:

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

| Received:         | 04/23/2014          | Sampling Date:      | 04/22/2014    |
|-------------------|---------------------|---------------------|---------------|
| Reported:         | 04/30/2014          | Sampling Type:      | Soll          |
| Project Name:     | WEST BRAVO DOME CO2 | Sampling Condition: | Cool & Intact |
| Project Number:   | 13-1224-03          | Sample Received By: | Jodi Henson   |
| Project Location: | HARDING COUNTY, NM  |                     |               |

## Sample ID: HAZEN 1928 #24-1 (H401230-09)

| BTEX 8260B                      | mg     | /kg             | Analyze         | ad By: ck    |      |  |               |      |                                       |
|---------------------------------|--------|-----------------|-----------------|--------------|------|--|---------------|------|---------------------------------------|
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | 8S   | % Recovery                             | True Value QC | RPD  | Qualifier                             |
| Benzene*                        | <0.100 | 0.100           | 04/29/2014      | ND           | 2,35 | 118                                    | 2.00          | 6.15 |                                       |
| Toluene*                        | <0.050 | 0.050           | 04/29/2014      | ND           | 2.13 | 106                                    | 2.00          | 8.09 |                                       |
| Ethylbenzene*                   | <0.050 | 0.050           | 04/29/2014      | ND           | 2.03 | 102                                    | 2.00          | 7.15 |                                       |
| Total Xylenes*                  | <0.150 | 0.150           | 04/29/2014      | ND           | 6.25 | 104                                    | 6.00          | 8.15 |                                       |
| Total BTEX                      | <0.300 | 0.300           | 04/29/2014      | ND           |      |  |               |      |                                       |
| Surrogate: Dibromofluoramethane | 104    | % 61.3-14       | 2               |              |      |  |               |      |                                       |
| Surrogate: Toluene-d8           | 97.8   | % 71.3-12       | 9               |              |      |  |               |      |                                       |
| Surrogate: 4-Bromofluorobenzene | 108    | % 65.7-14       | 1               |              |      |  |               |      |                                       |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyzed By: AP |              |      |  |               |      |                                       |
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery                             | True Value QC | RPD  | Qualifier                             |
| Chloride                        | 48.0   | 16.0            | 04/25/2014      | ND           | 416  | 104                                    | 400           | 0.00 |                                       |
| TPH 8015M                       | mg     | /kg             | Analyze         | d By: CK     |      | ······································ |               |      |                                       |
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery                             | True Value QC | RPD  | Qualifier                             |
| GRO C6-C10                      | <10.0  | 10.0            | 04/25/2014      | ND           | 186  | 92.9                                   | 200           | 11.1 |                                       |
| DRO >C10-C28                    | 21.5   | 10.0            | 04/25/2014      | ND           | 207  | 103                                    | 200           | 12.5 |                                       |
| Surrogate: 1-Chlorooctane       | 112 5  | 65.2-14         | 0               |              |      |  |               |      | · · · · · · · · · · · · · · · · · · · |
| Surrogate: 1-Chlorooctadecane   | 109 9  | 63.6-15         | 4               |              |      |  |               |      |                                       |

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Celey D. Keene, Lab Director/Quality Manager



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### **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 $6^{\circ}$ 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

Page 11 of 12



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|                     | 101 East Marland, Hobbs, NM 882       | 240              |              |  |   |         |          |          |     |    |    |      |       |     |   |                                       |  |
|---------------------|---------------------------------------|------------------|--------------|--|---|---------|----------|----------|-----|----|----|------|-------|-----|---|---------------------------------------|--|
|                     | (575) 393-2326 FAX (575) 393-247      | 6                |              |  |   |         |          |          |     |    |    |      |       |     |   |                                       |  |
| Company Name        | "Whiting Dil+ GAS                     |                  |              |  | 81  | LL TO   |          |          |     |    | AN | ALYS | IS RE | QUE | \$T   | a a a a a a a a a a a a a a a a a a a |  |
| Project Manage      | " Brion Holladom                      |                  |              |  | P.O. #: 13-1224-03                              |         |          |          |     |    | Ţ  |      |       | T   |   |                                       |  |
| Address: 400        | W. Illionis Solle 13                  | 60               |              |  | Company: L                                      | Shifing | oil toos |          |     |    |    |      |       |     |   |                                       |  |
| city: Midle         | end State: The                        | Zip              | : 74         | 701  | Attn: Gar                                       | Bulla   | xtx      |          |     |    |    |      |       |     |   |                                       |  |
| Phone #: 80         | 6-231-1758 Fax #:                     |                  |              |  | Address:dot                                     | W III's | الله على | <b>b</b> |     |    |    | 1    |       |     |   |                                       |  |
| Project #:          | Project Owner                         | r:               |              |  | city: Mil                                       | brid    |          |          |     |    | 1  |      |       |     |   |                                       |  |
| Project Name:       | West Broug Done Co                    | ٢                |              |  | State:  | Zip: 74 | 701      |          |     |    |    |      |       |     |   | 1                                     |  |
| Project Locatio     | n: Harding county, NI                 | 4                |              |  | Phone #:  |         | 1        | S        |     |    |    |      |       |     |   |                                       |  |
| Sampler Name:       | Brian Ho Haday                        |                  |              |  | Fax #:  |         |          | 5        |     |    |    |      |       |     |   |                                       |  |
| FOR LAS USE ONLY    | · · · · · · · · · · · · · · · · · · · | Γ.               |              | MATRIX   | PRESERV   | SAMP    | ING      | 9        | 1   |    |    |      |       | 1   |   |                                       |  |
| Lab I.D.<br>H401230 | Sample I.D.                           | (G)RAB OR (C)OMP | # CONTAINERS | GROUNDWATER<br>WASTEWATER<br>Soll<br>Oil<br>Sludge | OTHER -<br>ACIDIBASE:<br>IICE / COOL<br>OTHER : | DATE    | TIME     | HDT      | もあい | して |    |      |       |     | and a subscription of the |                                       |  |
| 1                   | Maes 2131 #18-1                       | <b></b>          | T            |  |   | 4/22    | 11:14    | レ        |     | 2  |    |      | T     |     |   |                                       |  |
| 2                   | Miera 2130 # 35-1                     |                  |              |  |   | 4/22    | 11:25    | •        | -   | ~  |    |      |       | T   |   | <br>                                  |  |
| 3                   | Casados 2030 # 12-1                   |                  |              |  |   | 4/22    | 11:39    | ~        | 6   | -  |    |      |       |     |   |                                       |  |
| 4                   | Foor Way 2031 #4-1                    |                  |              |  |   | 4/22    | 11:56    | ~        | v   | -  |    |      |       |     |   | <br>                                  |  |
| 5                   | STOTE 2229 # 36-1                     |                  |              |  |   | 4/22    | 2:15     | ~        | ~   | L  |    | _    | _     |     |   |                                       |  |
| 6                   | Doroteo 1927#15-1                     |                  |              |  |   | 482Z    | 3=15     | -        | -   | -  |    |      |       |     |   |                                       |  |
| 7                   | Lodd 1928 #17-1                       |                  | ]]_          |  |   | 4/22    | 3:27     | -        | -   | -  |    |      |       |     |   | <br>                                  |  |
| G                   | Lewis 1928 #2-1                       | <b> </b>         | <b> </b>  _  |  |   | 4/22    | 3:40     |          | 6   | -  |    |      |       |     |   | <br>                                  |  |
| <b>. .</b>          | Hazen 1928 \$24-1                     | <b> </b>         | ╞╴╟          |  |   | 4/22    | 4:10     |          | 4   |    |    |      |       |     |   | <br>                                  |  |

Phone Result:

PLEASE NOTE: Linkely and Damages. Commans tability and client's exclusive remedy for any ther taken in contra whited in the smount past by the cherk to th analyses. All claums induring those for negligence and any other cause whatscever shall be deemed ives unloss meas in writing and received by Carolinal within 30 days after completion of the applicable service. In no event shall Caldinal be liable for incidential or consequential damager, including without kindingen, business inconstructions, tass of time, or bass of profess inclusived by clears as subsidiares

allingen or humanion provide of or preference of services conservations of another regestions of another auth communications and of the native stated reasons or otherway. Date **Relinguished By:** Redeived By Tim Relinguished By Date Time: Delivered By: (Circle One) Sample Condition ( CHECKED BY: Cool Intacl 5.80 Sampler - UPS - Bus - Other:

Ves No |Add'| Phone # Fax Result: U Yes U No Add'I Fax #: REMARKS: brian. holladay @ live.com

of Cardinal cannot accept verbal changes, Please fax written changes to (575) 393-2

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# Whiting oil & gas corporation

| Version12080  | 4 · M  | HITIN   | <b>IG OIL &amp;</b><br>Worl   | & GA   | SC<br>Ind Co                          | <b>ORPC</b>                                  | RATI<br>Report                          | ION                      | 7       |            |                            | the state of the second |  |  |
|---|--|---|---|--|---------------------------------------|--|---|--------------------------|---------|------------|----------------------------|-------------------------|--|--|
| Well Name:  | Vell Name:         State 2229 #36-1         Field:         Other         ▼         Date:         11/11/14         Day:         13 Type:         Initial Completion         ▼           Ph         20.024.20500         Mare         00.027/20044         0.055 #         42.4024.000         0.0 |   |   |  |                                       |  |   |                          |         |            |                            |                         |  |  |
| API: 30-  | 021-20598  | Move  | On Date: 2/7  | ′2014 <i>i</i>                                     | AFE #:                                | 13-1224-06                                   | ,<br>Rig:                               | N                        | IA      | Supv       | DH Depth:                  | 2,760                   |  |  |
| Present Ope   | ration: Well   | shut in   | 1   |  | ,                                     |  |   | 1                        |         |            |                            |                         |  |  |
| Csg:  | sg: 5.5" 15.5# J-55 Liner: N/A   |   |   |  |                                       |  |   |                          |         |            |                            |                         |  |  |
| Rods:   | ods: N/A Perfs: 2598'-2609' & 2617'-2639' (0.42" hole. 6 PF)   |   |   |  |                                       |  |   |                          |         |            |                            |                         |  |  |
| Tbg:  | bg: None Click to Calc. HP - Hrs   |   |   |  |                                       |  |   |                          |         |            |                            |                         |  |  |
| GHG Gas<br>Vol(Mcf)   |  | Dur.<br>Hrs   | mcf/d   |  | <del>∞or</del> ∣<br>gas ¦             |  | Gas Vol<br>Estimate                     | ume<br>ed ??             |         | Proc<br>Me | ducing<br>ethod            |                         |  |  |
| Total Ri  | g Hrs: 0   | Dail  | y Activity  | GHG I<br>(U  | Event T<br>nits > 1                   | otal HP/Hr<br>30 HP)                         | 0                                       | for                      | ####    | hrs        | Units <= 130<br>HP (Count) |                         |  |  |
| over outside,<br>dirt cover . sp<br>11/11/14<br>Install 4 5° C<br>Will final blac | edges of pit<br>gread topsoil<br>ID steel pit b<br>de surface w  | liner bottom<br>on top. NM<br>urial marker<br>ithin next tw | cover cuttings<br>OCD notified, bi<br>in center of pit b<br>weeks and wil | with new<br>it not pre-<br>ourial (se<br>reseed if | 20 mil<br>sent<br>tin con<br>pit clos | LLDPE liner<br>crete), MO d<br>ure area duri | cap, cover<br>irf.equipme<br>ng 2015 pl | new li<br>ent:<br>anting | nericap | with a     | minimum of 4 fe            | et of                   |  |  |

| Expense Account Codes   | Capital Account Codes  | Comments  | <u>/</u>                                 | <u>Amount</u>  |
|---|--|---|--|--|
|   | 811.94 Contract Services and Equipmer  | Hartley Construction  | \$                                       | 16,311   |
|   | 811.39 Contract Labor  | EWS   | \$                                       | 1,800  |
|   |  |   |  |  |
| бластивных продоктивных противляются и транских словах сола разредских сородных полото с тологов солот. С толог<br>Полотивных продоктивных противляются и противности с противности с противности с тологов с тологов с тологов с т   |  | тан балана танан калана илинин каландар жанадар түрүүлөн каландар <u>ал</u> ан байландагы каландар аландар каландар |  | - Opening of the Association Control of the Association |
| ην συμματιστήμημα ματά ματά με το το τους τη της επίσει τημοτή την εποριτηρηγεία ματιστροποιηστιστήματα ματοπο<br>Τ   |  | n separate para mangkanakan mengkanakan asi kara kana manandikan sela sebarah separah separah menandakan separa   | CONTRACTOR .                             |  |
| ann an an a' an a' an a' an an ann an  |  |   |  |  |
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| and a construction of the second s   | ار میشون در با با با با با با با این این این این این این این این این ای  | արտեղ երի տարանը՝ որող է առաջանական երկությունը՝ նախ հանձերին է երկնարի կինիներին առաջաններին առաջանական տարանե   |  |  |
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|   |  |   | <b></b>                                  | an ang barang sa   |
|   |  |   |  |  |
|   |  | Daily Total:  | \$                                       | 18,111   |
|   |  | Prev. Total:  | an a | ngelaaligen avaa wina or sooriik in die de   |
|   |  | Cum. Total:   | \$                                       | 18,111   |





![](_page_26_Picture_0.jpeg)

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)

![](_page_28_Picture_0.jpeg)

View looking North

![](_page_29_Picture_0.jpeg)

![](_page_30_Picture_0.jpeg)

![](_page_31_Picture_0.jpeg)

November 12, 2014

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

**RE: Pit Closure** 

Dear Mr. Smith,

Whiting Oil & Gas shall re-seed the disturbed Pit area for the well listed below. The re-seeding shall occur in the next rainy season documented for Harding County, New Mexico approximately August/September 2015. As evidenced by the pictures submitted some natural native vegetative growth has already occurred.

Sincerely,

Kay Maddox Regulatory Supervisor

STATE 2229 Well # 36-1 30-021-20598 Harding County, New Mexico

Whiting Petroleum Corporation and its wholly owned subsidiary Whiting Oil <u>and Gas</u> Corporation 400 W. Illinois Avenue, Suite 1300, Midland, TX 79701 Office: 432.686.6700 Fax 432.686.6799

| Submit 1 Copy To Appropriate District<br>Office   | State of New Mex  |                     | Revi  | Form C-103   |
|---|---|---------------------|---|--|
| $\frac{District 1}{1625 \text{ N}. \text{ French Dr., Hobbs, NM 88240}}$<br>$\frac{District II}{1625 \text{ N}. \text{ French Dr., Hobbs, NM 88240}}$ | OU CONSERVATION I   | NVISION             | WELL API NO.<br>30-021-2059                       | 8  |
| 811 S. First St., Artesia, NM 88210<br><u>District III</u> – (505) 334-6178<br>1000 Rio Brazos Rd. Aztec. NM 87410                                    | 1220 South St. Franc  | is Dr.              | 5. Indicate Type of Lease<br>STATE X FE           | E 🗍  |
| $\frac{\text{District IV}}{1220 \text{ S. St. Francis Dr., Santa Fe, NM}}$ 87505  | Santa Fe, NM 875  | 05                  | 6. State Oil & Gas Lease No                       | 0.   |
| SUNDRY NOTICE<br>(DO NOT USE THIS FORM FOR PROPOSA<br>DIFFERENT RESERVOIR. USE "APPLICA"  | S AND REPORTS ON WELLS<br>LS TO DRILL OR TO DEEPEN OR PLUC<br>FION FOR PERMIT" (FORM C-101) FOR | BACK TO A<br>SUCH   | 7. Lease Name or Unit Agree STATE 2229            | eement Name  |
| 1. Type of Well: Oil Well   | as Well 👿 Other   |                     | 8. Well Number 36-1                               |  |
| 2. Name of Operator WHITINC   | OIL AND GAS CORPORATION   | 1                   | 9. OGRID Number                                   | 25078  |
| 3. Address of Operator 400 W I<br>MIDLA   | LLINOIS STE 1300<br>ND, TEXAS 79701   |                     | 10. Pool name or Wildcat<br>BRAVO DOME CARBON DIO | XIDE GAS (640)   |
| 4. Well Location  |   |                     | + <u>.</u>  |  |
| Unit Letter F: 1980 feet fro  | m the NORTH line and 1980 fee   | t from the WEST     | line  |  |
| Section 36 Township   | 22N Range 29E NMPM  | COUTNY:             | HARDING   |  |
|   | GR 5455   |                     |   |  |
| 12. Check Ap  | propriate Box to Indicate Nat   | ure of Notice,      | Report or Other Data                              |  |
|   |   | SUR                 |   | )E·  |
| PERFORM REMEDIAL WORK   |   | REMEDIAL WOR        |   |  |
| TEMPORARILY ABANDON   | CHANGE PLANS  | COMMENCE DRI        | LLING OPNS. PAND A                                |  |
| PULL OR ALTER CASING  |   | CASING/CEMEN        | ГЈОВ 🛛  |  |
|   |   |                     |   |  |
|   |   | OTHER:              |   |  |
| 13. Describe proposed or complete   | ed operations. (Clearly state all per   | tinent details, and | l give pertinent dates, includin                  | g estimated date   |
| of starting any proposed work)  | SEE RULE 19.15.7.14 NMAC.   | For Multiple Cor    | npletions: Attach wellbore dia                    | agram of   |
| proposed completion or recom  | pletion.  |                     | averaus<br>* 1 main<br># 10 main<br># 10 main     | m<br>m   |
|   |   |                     |   | <u>Prí</u>   |
| 02/07/2014 - SPUD WELL  |   |                     | even sui  | ₩9 8 8 8 8 4 4 4 1<br>e <sup>1</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup> |
| 02/08/2014 - SET 9 5/8 J-55 36# CSC   | a @ 716' W/450 SXS CMT, CMT   | CIRCULATED          | **************************************            |  |
| 02/12/2014 - SET 5 ½ J-55 15.5# CSC   | i @ 2750' W/740 SXS CMT, CMT  | CIRCULATED          | حشر   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   |
| 02/13/2014 - RIG DOWN   |   |                     | ur fannaga<br>generalismu<br>ja 16                | 3  |
|   |   |                     | $\sim$  | J  |
| 02/07/2014  |   | 02/13/2014          |   |  |
| Spud Date:  | Rig Release Date:   |                     |   |  |
|   |   |                     |   |  |
| I hereby certify that the information abo   | ove is true and complete to the best  | of my knowledge     | e and belief.                                     |  |
|   | 1.1. (  |                     |   |  |
| SIGNATURE XIM /// U   | $\mathcal{U}\mathcal{I}$ title: regui   | LATORY ANAL         | YST DATE 02/13/2014                               |  |
| Type or print name Kay Maddox E-m   | ail address: kay.maddox@whiting   | .com PHONE: 43      | 32-686-6709                                       |  |
| For State Use Only  | A A PAN BON KUTS  | rieren eritanen     | MAAA  |  |
| APPROVED BY   | Inter TITLE USI   | (ICI SUPER          | KVIOUK DATE 2/2                                   | 0/2014   |
| Conditions of Approval (if any):  |   |                     |   | 1  |
|   |   |                     |   |  |

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DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

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## State of New Mexico

Form C-102 **Revised October 12, 2005** 

Energy, Minerals, and Natural Resources Department Kevisea October 12, 2000 Submit to Appropriate District Office

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

# **OIL CONSERVATION DIVISION** 1220 South St. Francis Dr.

State Lease - 4 copies Fee Lease - 3 copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

## Santa Fe, New Mexico 87505

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| <sup>1</sup> API Number         | 96010 BRAVO Der                                      | <sup>3</sup> Pool Name<br>ME CAEBON DIOXIDE GAS 640 |  |  |  |
|---------------------------------|--|---|--|--|--|
| Property Code                   | <sup>6</sup> Property Name<br>STATE 2229             | 9 <sup>6</sup> Well Number<br>#36-1                 |  |  |  |
| <sup>7</sup> OGRID No.<br>25078 | <sup>8</sup> Operator Name<br>WHITING OIL AND GAS (C | DRPORATION 5455'                                    |  |  |  |

## <sup>1</sup>Surface Location

| UL or lot no. | Section | Township | Range             | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County  |
|---------------|---------|----------|-------------------|---------|---------------|------------------|---------------|----------------|---------|
| F             | 36      | 22 NORTH | 29 EAST, N.M.P.M. |         | 1980'         | NORTH            | 1980'         | 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>12</sup> Dedicated Ac | res <sup>13</sup> J | oint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order N | lo,           |                  |               |                |        |
| 160                        |                     |                |                                  |                       |               |                  |               |                |        |

#### 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 ~ ,

|                      | Rog 280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280'<br>280' | ME ZONE<br>1997<br>4182<br>1/41.53"<br>8'19.14" | <sup>17</sup> OPERATOR CERTIFICATION<br>I hereby certify that the information contained herein is true and complete to<br>the best of my knowledge and belief, and that this organization either owns a<br>working interest or unleased mineral interest in the land including the<br>proposed bottom hole location or has a right to drill this well at this location<br>persuant to a contract with an owner of such a mineral or working interest,<br>or to a voluntary pooling agreement or a compulsory pooling order<br>heretofore entered by the division. |
|----------------------|--|---|---|
| Xi654001<br>Yi850850 |  | Xi659393<br>Yi1850830                           | Certificate Xumber<br>V. Lynn Bezner P.S. #7920<br>FILE:LO_STATE_2229_36_1 K.Y.   |

![](_page_34_Figure_0.jpeg)

![](_page_35_Picture_0.jpeg)