District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1600 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

121	20-	A5
71		

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Permit of a pit or proposed altern Closure of a pit, below-grade tar Modification to an existing perm Closure plan only submitted for or proposed alternative method	nk, or proposed alternative method
Instructions: Please submit one application (Form C-144)	per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability invironment. Nor does approval relieve the operator of its responsibility to comply	ty should operations result in pollution of surface water, ground water or the with any other applicable governmental authority's rules, regulations or ordinances
Operator: Whiting Oil & Gas Corp O	GRID#: 25078 OIL CONS. DIV DIST. 3
Address: 400 W. Illinois, Suite 1300, Midland, Texas 79701	AllG a & 2014
Facility or well name: Maes 2131 #18-1	
API Number: 30-021-20595 OCD Permit Number	er:
U/L or Qtr/Qtr <u>G</u> Section <u>18</u> Township <u>21-N</u>	Range 31-E County: Harding
Center of Proposed Design: Latitude <u>36.05263969</u> Longitude Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allo	
Temporary: ☑ Drilling ☐ Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid M ☑ Lined ☐ Unlined Liner type: Thickness <u>20</u> mil ☑ LLDPE ☐ ☑ String-Reinforced Liner Seams: ☑ Welded ☐ Factory ☐ Other Volume:	HDPE PVC Other
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume:bbl Type of fluid:	•
Tank Construction material:	
Secondary containment with leak detection Visible sidewalls, liner, 6	inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thickness mil	Other
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted t	
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, tem Chain link, six feet in height, two strands of barbed wire at top (Required if institution or church)	
E Four foot height, four strands of barbed wire evenly spaced between one an	d four feet
Alternate. Please specify	

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.16.8 NMAC	
8.	
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 Sama re Environmental bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☒ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☒ Data obtained from nearby wells	☐ Yes ☑ No☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🛭 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☑ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☒ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	
Netting Other Netting Other Other Other Netting Ot	
	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)	☐ Yes ⊠ No
	☐ Yes ☑ No
watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	☐ Yes.⊠ No

Temporary Pit Non-low chloride drilling fluid	☐ Yes ☒ No
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC

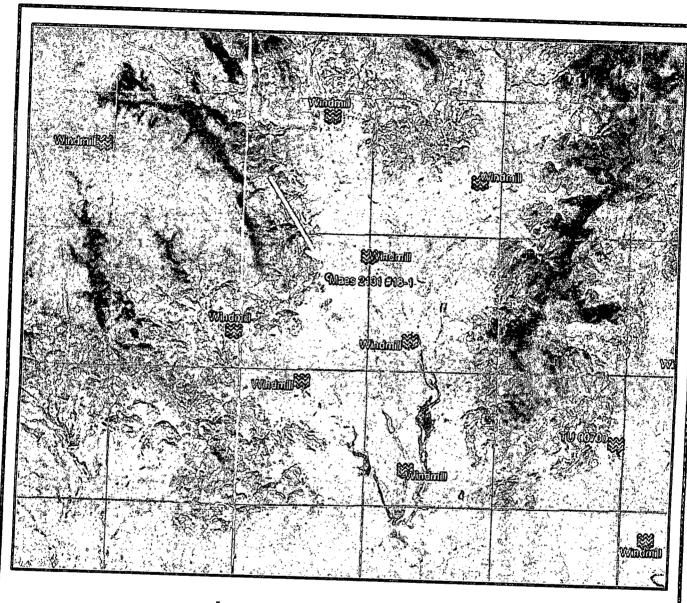
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
13. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable soun provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database scarch; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No

Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ No
Within a 100-year floodplain. - FEMA map	☐ Yes 🏻 No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	II NMAC 5.17.11 NMAC
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 believe to the best of my knowledge	ef.
Signature: Date:	·
e-mail address: Robert.McNaughton@whiting.com Telephone: 432-413-2989	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1/2	port
Title: OCD Permit Number:	<i>√</i>
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting to The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	the closure report.
 Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal If different from approved plan, please explain. 	p systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please ind mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	icate, by a check

22. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report is t belief. I also certify that the closure complies with all applicable closure requirements and	
Name (Print): Robert McNauenton Title: Sr Operations Engineer	
Signature:	Date: 05/12/2014
e-mail address: Robert.McNaughton@whiting.com Telephone: 432-413-2989	

OCD Form C-144: Supporting Data

Maes 2131 #18-1



Location Photo #1

Whiting Petroleum Corporation
Maes 2131 #18-1
T-21-N, R-31-E, Section 18 NMPM
Harding County, New Mexico

Well Name:

Maes 2131 #18-1

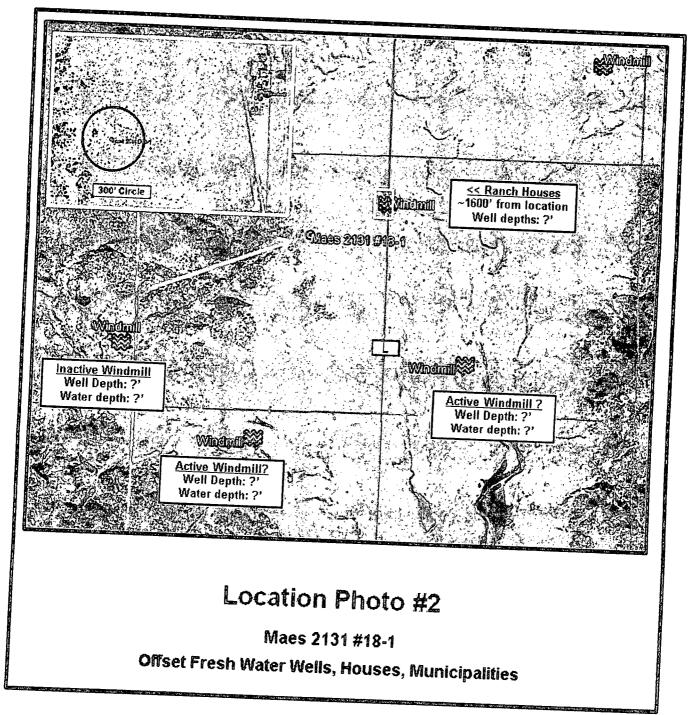
Surface Hydrology:

The local surface drainage is controlled by gravel alluvium and a gentle regional dip to the southeast. Runoff from the location will flow southeast towards one of several intermittent creeks. Aerial photos indicate that the reserve pit will be greater than 300 feet from any significant waterways or surface water (see Location Photos 1 and 2).

Ground Water Hydrology:

The High Plains aquifer extends westward into eastern Harding County, but in the proposed project region there is no principal aquifer. Aquifers do not exist here, yield too little water for water wells to be significant and yield insufficient water to supply local requirements. When present, they are not extensive enough to be classified as major aquifers. Sources:

New Mexico Office of the State Engineer. 2011. Waters/ NMRRWS data base http://www.ose.state.nm.us/water_info_data.html.



Siting Criteria and Compliance Demonstrations

1. Depth to groundwater (should not be less than 50 feet):

Depth to recoverable groundwater is unknown at this exact location, but may be between 50' to 100' depending on seasonal rains. Within the area, most shallow water wells (<50') are inactive or abandoned. But a few appear to have been replaced by deeper wells (>100'). The nearest recorded well with available water-depth information, is almost six miles away. A group of ranch houses are located about 1600' east from the well location (see Location Photo 2. There appear to be a few water wells, but there are no water depth records for them. The offset wells identified from OSE records (see Air Photo 2) are listed below:

Well Distance/Direction from Proposed Project Area Depth of Well Depth to Water TU 00700 ~2.7 miles SE 40' ? - Inactive

Sources:

New Mexico Office of the State Engineer. 2011. Waters/ NMRRWS data base http://www.ose.state.nm.us/water_info_data.html.

2. <u>Distance to watercourse (should not be within 300 feet of a continuously flowing watercourse or 200' feet of any other significant watercourse or lakebed, sinkhole, or playa lake):</u>

Aerial photos and a visit to the location indicate that there are no lakebeds, sinkholes, playa lakes, or watercourses within 300 feet of the proposed pit/system - ~1400' to the dry Bueyeros creek (**Location Photo 2 – inset detail**).

3. Distance to buildings (should not be within 300 feet of any permanent buildings):

Aerial photos and a site visit indicate that the pit will not be within 300 feet of any of these locations (see Location Photo 2).

4. <u>Distance to springs or wells (should not be within 500 feet of a private, domestic fresh water well or spring used by less than five (5) households or within 1000 feet of any other fresh water well or spring):</u>

Air photos indicate the pit will not be within 1000 feet of any recorded well or spring (see **Location Photo 1 & 2**).

5. Presence within incorporated area (should not be within incorporated municipal boundaries or within defined municipal fresh water well field covered under municipal ordinance):

The aerial photo and a site visit indicate the pit will not be within an incorporated area or municipal fresh water well field (see **Location Photo 1 & 2**).

6. Distance to wetlands (should not be within 500 feet):

The aerial photo and a site visit indicate that the location is not within 500 feet of a wetland.

7. Location above subsurface mine (should not overlie a subsurface mine):

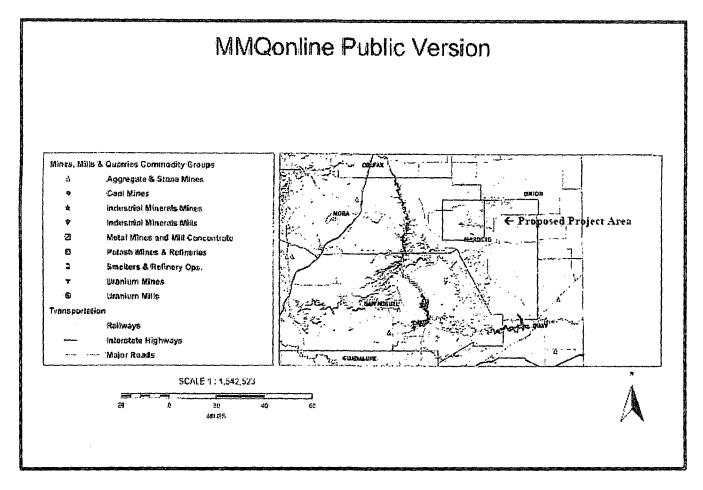
The pit will not overlie a mine. The 2009 Mines, Mills, and Quarries map, an aerial photo and a site survey indicate that there are no subsurface mines in the area.

8. Presence within unstable area (should not be within an unstable area):

A topographic map and aerial photo indicate the location will not be within an unstable area. The location will be on a gentle slope on the side of a hill (see **Location Photo 2**).

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MINES, MILLS, AND QUARRIES IN NEW MEXICO



Sources:

New Mexico Energy, Minerals and Natural Resources Department, Division of Mining and Minerals. Database. 2008.

http://www.emnrd.state.nm.us/MMD/MRRS/MinesMillsQuarriesWebMap.htm. Accessed March 2009.

NMOCD drilling applications for offset and regional wells, primarily recent wells drilled by Hess in the west Bravo Dome Unit. Also reviewed recent applications for OXY wells in the Bravo Dome CO2 unit to the east. There are no records of any subsurface mines or deep aggregate mines within the project area.

FEMA ISSUED FLOOD MAPS

9. Presence within floodplain (should not be within a 100-year floodplain):

The location (Harding County, NM) has not been mapped by FEMA. However, aerial photos and offset drilling permits indicate that the location is not within a floodplain. It is located at the base of an escarpment in a high-energy drainage environment. This area has several gullies and ravines that are subject to brief flash-flooding from infrequent rains. The location is on a gentle hillside and is approximately 30' above the level of the nearest creek bed.

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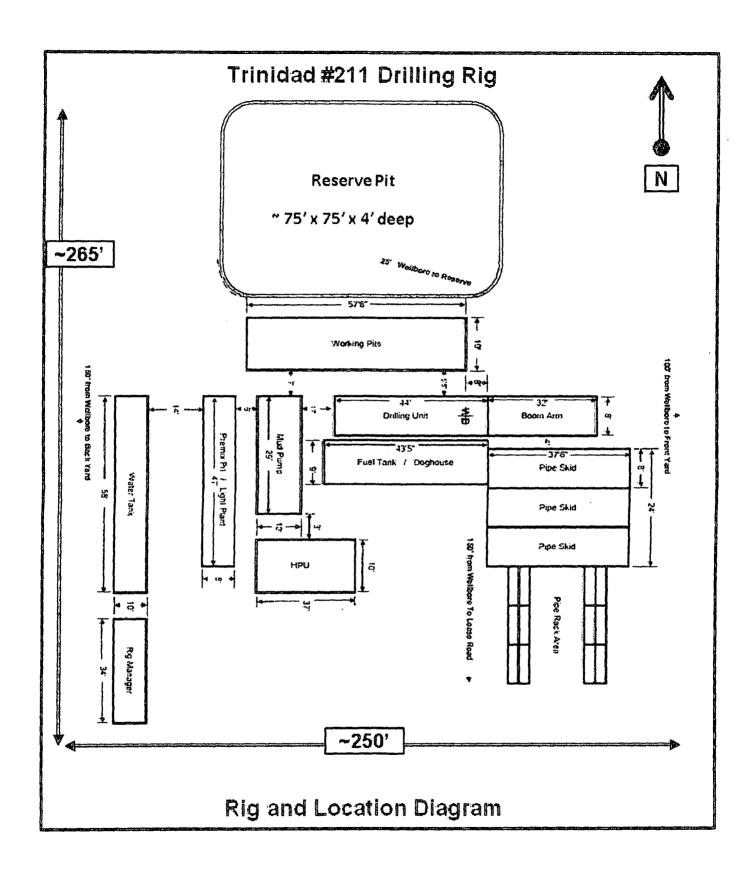
Temporary Drilling Pit - Design Plan

(Based on Appropriate Requirements of 19.15.17.11 NMAC)

Design and construction specifications for this temporary pit are as follows:

- Prior to constructing the pit, topsoil will be stripped and stockpiled for use as final cover or fill at the time of closure.
- An upright sign (at least 12" x 24" with lettering at least 2" in height) will be placed conspicuously on the fence surrounding the pit, or will use a well sign (complying with 19.15.3.103 NMAC). The sign will be posted in a manner and location such that the legend can be easily read, and will contain the following information: operator's name, legal location (quarter-quarter or unit letter, section, township, and range), and emergency telephone number(s).
- The pit will be fenced or enclosed in a manner that prevents unauthorized access. The fence will be at least four (4) foot in height with at least four (4) strands of barbed wire evenly spaced between the top and bottom. Fences will be maintained in good repair. During drilling or workover operations, three (3) sides of the pit will be fenced; the side adjacent to the drilling or workover rig will remain open only during such operations.
- The pit will be designed and constructed to ensure the confinement of liquids.
- The pit will be constructed with a properly constructed foundation and interior slopes consisting of a firm, unyielding base. The pit will be smooth and free of rocks, debris, sharp edges, or irregularities to prevent the liner's rupture or tearing. Slopes will be no steeper than two (2) horizontal feet to one (1) vertical foot (2H:1V).
- The pit will have a geo-membrane liner with 20-mil string-reinforced LLDPE or its equivalent (approved by the division district office). This liner will be composed of an impervious, synthetic material resistant to petroleum hydrocarbons, salts, and acidic and alkaline solutions. The liner will be resistant to ultraviolet light. The liner will comply with EPA SW-846 method 9090A.
- Qualified personnel will perform field seaming. Liner seams will be minimized, particularly in corners
 and irregularly shaped areas. Field liner seams will be welded. Factory-welded seams will be used
 where possible. Prior to field seaming, liners will be overlapped four (4) to six (6) inches and will be
 oriented parallel to the line of maximum slope (along, not across, the slope).
- Construction will avoid excessive stress-strain on the liner. Geotextile will be used under the liner
 where needed to reduce localized stress-strain or protuberances that may compromise the liner's
 integrity. The edges of all liners will be anchored in the bottom of a compacted, earth-filled trench
 that is at least 18" deep.
- The liner will be protected from any fluid force or mechanical damage at any point of discharge into or suction from the pit. A berm, ditch, proper sloping, or other diversion will be constructed around the pit to prevent run-on of surface water. During drilled operations, the edge of the pit adjacent to the drilling or workover rig may not have protection if the pit is being used to collect liquids escaping from the rig and run-on will not result in a breach of the pit.
- The volume of the pit will not exceed 5,000 Bbls, including freeboard.

Form C-144 Oil Conservation Division Page 11 of 16



Temporary Drilling Pit - Operating & Maintenance Plan

(Based on Appropriate Requirements of 19.15.17.12 NMAC)

Operating and maintenance specifications for this temporary pit are as follows:

- The pit will be maintained to contain liquids and solids, prevent contamination of fresh water, and protect public health of the environment.
- All drilling fluids will be recycled, reused, reclaimed, or disposed of in a manner approved by division rules and that prevents contamination of fresh water and protects public health and the environment.
- Hazardous waste will not be discharged into or stored in the pit.
- If the pit liner's integrity is compromised or if penetration of the liner occurs above the liquid's surface, the appropriate division district office will be notified within 48 hours of the discovery, and the liner will be repaired or replaced.
- If the pit develops a leak or if any penetration of the liner occurs below the liquid's surface, all liquid above the leak line will be removed within 48 hours, the appropriate division district office will be notified within 48 hours, and the liner will be repaired or replaced.
- The injection or withdrawal of liquids from the pit will be accomplished via a header, diverter, or other hardware that prevents damage to the liner by erosion, fluid jets, or impact from installation and removal of hoses or pipes.
- Pit operation will prevent the collection of surface water run-on.
- An oil-absorbent boom or other device will be installed and maintained onsite to contain and remove oil from the pit's surface.
- Only fluids used or generated during drilling or workover processes will be discharged into the pit.
 The pit will remain free of miscellaneous solid waste or debris. A tank made of steel or other division
 district office-approved material will be used to contain hydrocarbon-based drilling fluids.
 Immediately after cessation of a drilling or workover operation, any visibly or measurable layer of oil
 will be removed from the surface of the pit.
- At least two (2) feet of freeboard will be maintained.
- The pit will be inspected at least once daily while the drilling or workover rig is onsite. Thereafter, the pit will be inspected weekly as long as liquids remain within it. An inspection log will be maintained and made available to the division district office upon request. A copy of the log will be filed with the division district office at the time of pit closure.
- All free liquids will be removed from the pit within 30 days from release of the drilling or workover rig.
 On form C-105 or C-103, the date of the drilling or workover rig's release will be noted. If necessary,
 an extension of up to three (3) months may be requested from the division district office; this
 extension may or may not be granted.

Form C-144 Oil Conservation Division Page 13 of 16

Temporary Drilling Pit: Pit Inspection Log

ſ					
Well	Mae:	s 2131 #18-1	Liner Type & Thickness /		
API#	30 -	021	Rig Mobilization Date:		
			1 lig (Nobinzation) Date.		
County		Harding	Rig Demobilization Date:		
Inspection Date	Time	By Whom	Has any hazardous waste been disposed of in the pit?	Is the pit liner intact and free of penetrations?	Distance from top of pit to fluid (minimum 2').
					i
					

All pits to be inspected **DAILY** during drilling and completion operations and **Weekly** thereafter. All penetrations or damage to the liner must be reported to the NMOCD within 48 hours.

Temporary Drilling Pit - Closure Plan

(Based on Appropriate Requirements of Subsection C, 19.15.17.9 NMAC & 19.15.17.13 NMAC)

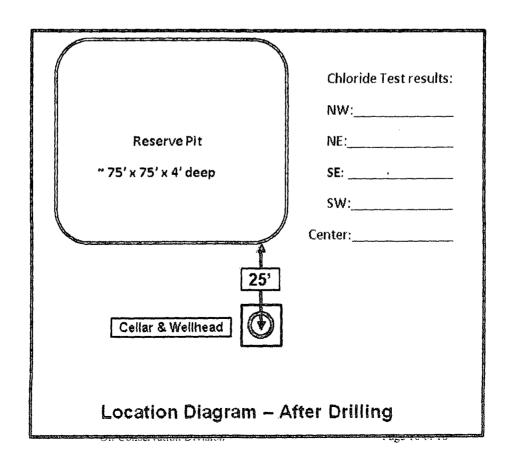
Closure specifications for this temporary pit are as follows:

- 1) The pit will be closed within six (6) months from the date that the drilling or workover rig is released. If necessary, the division district office may grant an extension not to exceed three (3) months.
- 2) 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.
- 3) All contents, including synthetic pit liners, will be buried in place.
- 4) The soils around the pit will be tested to determine whether a release occurred. A five-point composite sample will be collected. In addition, grab samples will be gathered from any area that is wet, discolored, or showing evidence of a release. 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 groundwater could be encountered at a depth of between 51' to 100'</u>, the following limits should not be exceeded:
 - Chlorides (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
- 5) The division will be notified of the results on form C-141, at which point the division may require additional delineation.
- 6) If it is determined that a release has occurred, Whiting will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7) If it is determined that a release has not occurred, or that any release doesn't exceed the above-specified concentrations, the pit will be covered with compacted, non-waste-containing, earthen material. A division-prescribed soil cover will be constructed and the site will be re-contoured and revegetated, per Subsections G, H, and I of 19.15.17.13 NMAC:
- 8) 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 (detailed below), re-contouring to match original contours and surrounding topography, and re-vegetating (detailed below).
- 9) 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.
- 10) Soil cover will consist of the background thickness of topsoil or one (1) foot of material suitable for establishing vegetation at the site, whichever is greater.

Form C-144 Oil Conservation Division Page 15 of 16

Closure specifications for this temporary pit, continued:

- 11) Soil cover will be constructed to the site's existing grade and will prevent ponding of water and erosion of the cover material
- 12) The first growing season following pit closure, all disturbed areas associated with the pit and no longer being used will be seeded or planted.
- 13) Seeding will be accomplished by drilling on the contour whenever practical, or by other division-approved methods. Vegetative cover equaling 70% of the native perennial vegetative cover (unimpacted by overgrazing, fire, or other damaging intrusion) will be obtained. This cover will consist of at least three (3) native plant species, including one (1) grass species but not including noxious weeds. That cover will be maintained through two (2) successive growing seasons, during which time no artificial irrigation will occur.
- 14) Seeding or planting will be repeated until the required vegetative cover is successfully achieved.
- 15) 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.
- 16) The division will be notified when seeding or planting is completed, and when successful revegetation has been achieved.
- 17) 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 Reliant 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.





November 15, 2013

Archie Maes 7007 Alpine Lane Amarillo, Texas 79107

Ruby Maes 3345 N. Camino De Piedras Tuscon, AZ 85750

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

Well: Maes 2131 Well 18-1

Harding County, NM

Please reference attached proposed on-site drilling pit closure plan. Whiting Oil & Gas proposes to close and remediate the surface land according to all rules and regulations noted in Subsection E of 19.15.17.13 NMAC within the approved time frame allotted by the NMOGA.

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

Sincerel

Kay Maddox

Regulatory Supervisor

Mailed by certified mail to above listed party on this the 15th day of November, 2013

Maddox- Regulatory Supervisor
Whiting Petroleum Corporation
and its wholly owned subsidiary Whiting Oil and Gas Corporation District I
1825 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV

1220 S. St Francis Dr., Senta Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

11/21/2013

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 177114

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE 1. Operator Name and Address 2. OGRID Numbe WHITING OIL AND GAS CORPORATION 25078 400 W Illinois Midland, TX 79701 30-021-20595 5. Property Name MAES 4. Property Code 213 1 40243 7. Surface Location UL - Lot Section N/S Line Township Lot Idn Feet From E/W Line Range Feet From County G 18 21N 31E 1650 1650 Harding 8. Proposed Bottom Hole Location UL - Lot E/W Line Section Township Range Lot Idn Feet From N/S Line Feet From 21N Harding G 18 31E 1650 1650 Ε 9. Pool Information WILDCAT; SANTA ROSA (GAS) 96305 Additional Well Information 13. Cable/Rotary 15. Ground Level Elevation 11. Work Type 12. Well Type 14. Lease Type New Well CO2 Private 4807 16. Multiple 17. Proposed Depth 18. Formation 19 Contractor 20. Soud Date Triassic Age Rocks-Undivided 12/15/2013 1850 Depth to Ground water Distance from nearest fresh water well Distance to nearest surface water We will be using a closed-loop system in lieu of lined pits 21. Proposed Casing and Cement Program Hole Size Casing Size Casing Weight/ft Setting Depti Sacks of Cement Estimated TOC Туре Surf 12.25 8.625 24 700 450 Prod 7.875 5.5 15.5 1850 600 Casing/Cement Program: Additional Comments 22. Proposed Blowout Prevention Program Type Working Pressure Test Pressure Manufacturer 3000 3000 **REGAN TAURUS** OIL CONSERVATION DIVISION 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC M and/or 19.15.14.9 (B) NMAC X. if applicable. Signature: Electronically filed by Kay Maddox Ed Martin Printed Name: Approved By: District Supervisor Title: Regulatory Agent Title 11/22/2013 Expiration Date: 11/22/2015 kay.maddox@whiting.com Approved Date: Email Address

Conditions of Approval Attached

Phone: 432-686-6709

BEZNER NO.7920

Bezner

FILE:LO_MAES_2131_18_1:

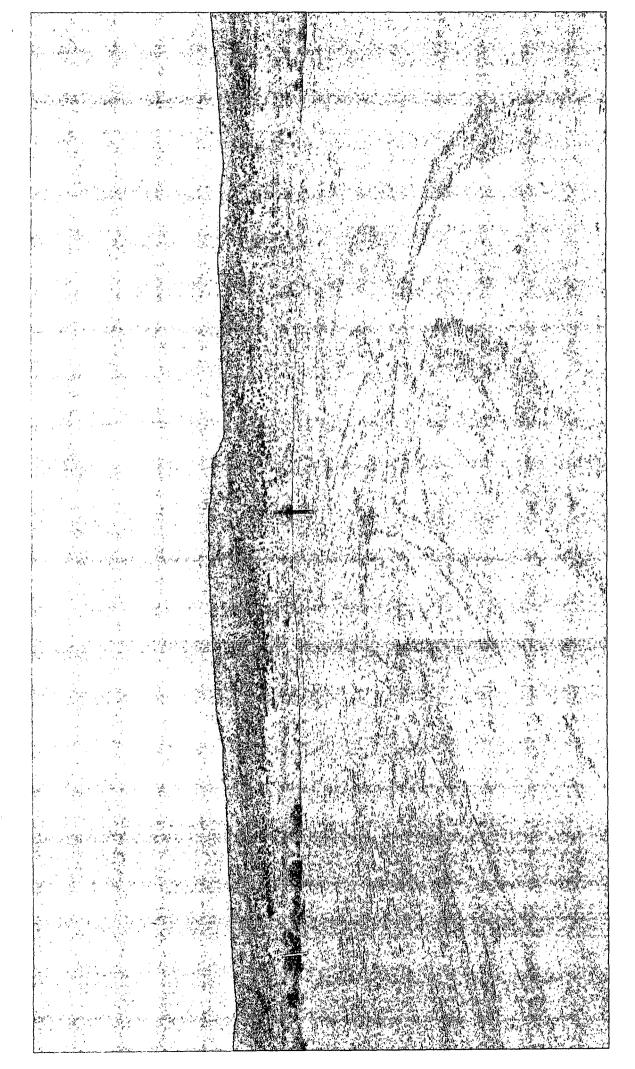
Lynn

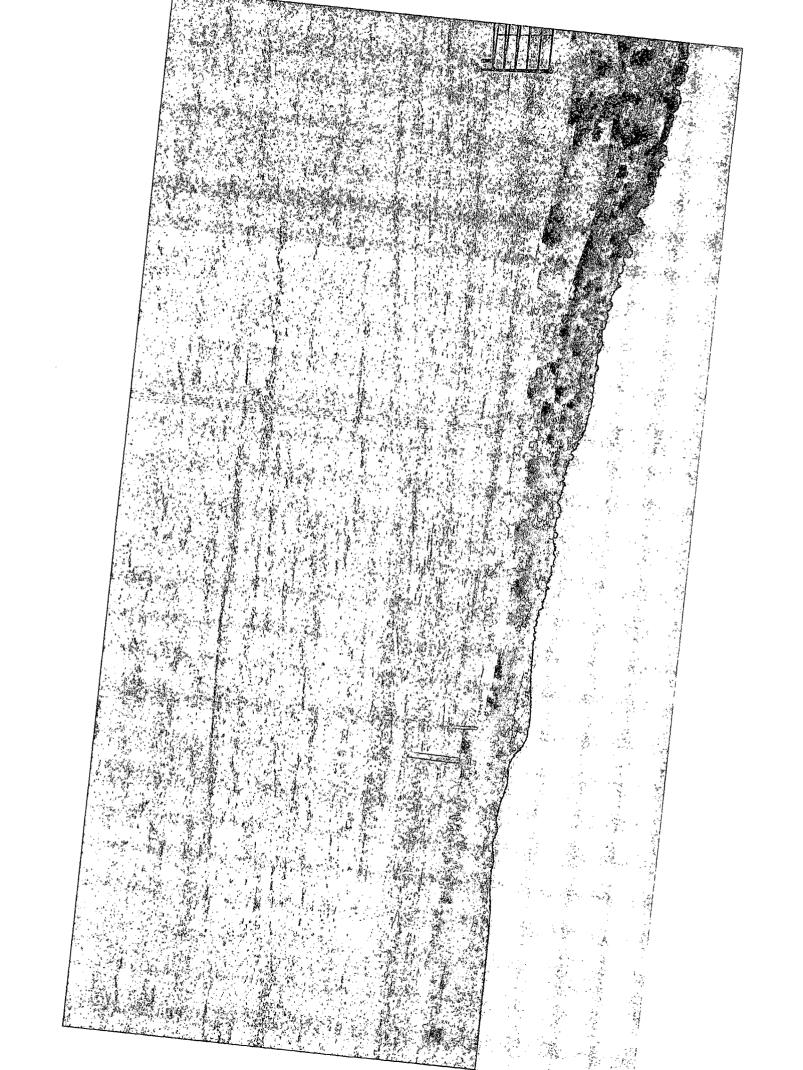
P.\SURVEY\WHITING_PETROLEUM_CORPORATION\MAES_2131_18_1\FINAL_PRODUCTS\LO_MAES_2131_18_1.dwg, 11/21/2013 10:36:43 AM State of New Mexico Form C-102 1625 N. French Dr., Hobbs, NM 88240 Energy, Minerals, and Natural Resources Department Revised October 12, 2000 Submit to Appropriate District Office Revised October 12, 2005 DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210 OIL CONSERVATION DIVISION State Lease - 4 copies Fee Lease - 3 copies DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 DISTRICT IV AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 96305 ¹API Number WILDCAT; SANTA ROSA (GAS) Property Name Property Code Well Number MAES 2131 #18-1 OGRID No. SOperator Name Elevation WHITING PETROLEUM CORPORATION 25078 4807 Surface Location Range UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 18 21 NORTH 31 EAST, N.M.P.M. 1650' HARDING G NORTH 1650' Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line East/West line County 12 Dedicated Acres is Joint or Infill 14 Consolidation Code Order No. NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 10 "OPERATOR CERTIFICATION X:696242 Y:1840677 I havely certify that the information con the best of my knowledge and belief, and that this organization either owns a working interest or unlessed subseral interest in the land including the stom hole location or has a right to drill this well at this location ,059, persuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order e entered by the division. 1650' "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the NAD 27 NME ZONE OCTOBER 3, 2013 X:694619 Date of Survey Signature and Section 1997 Survey Y:1839033 LAT:36'03'09.38" LON: 103'40'29.79" V. LYNN

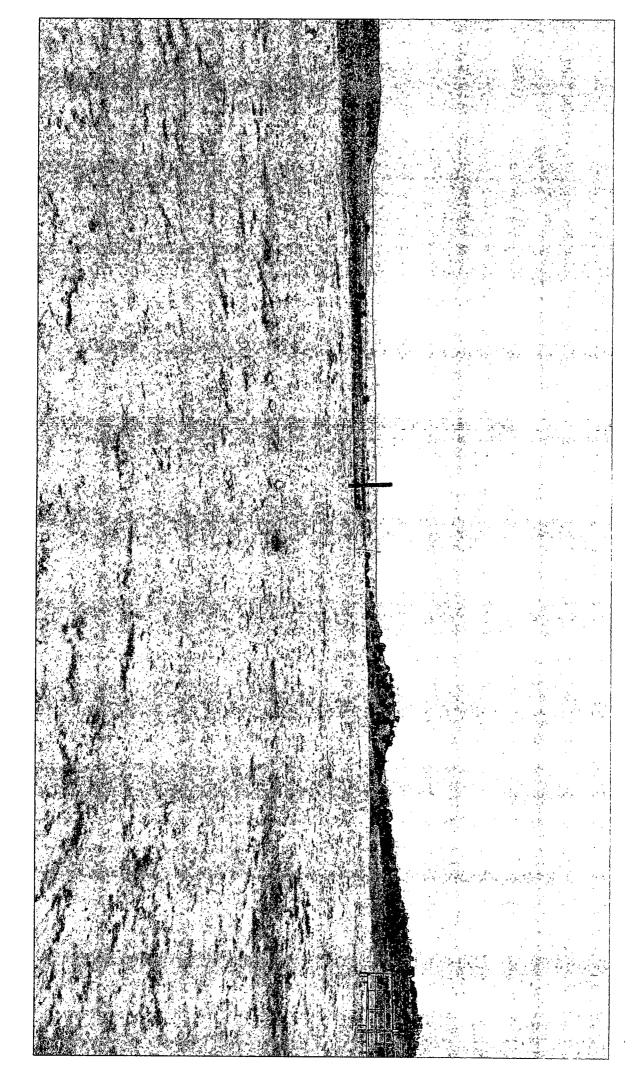
X:696328 Y:1835318

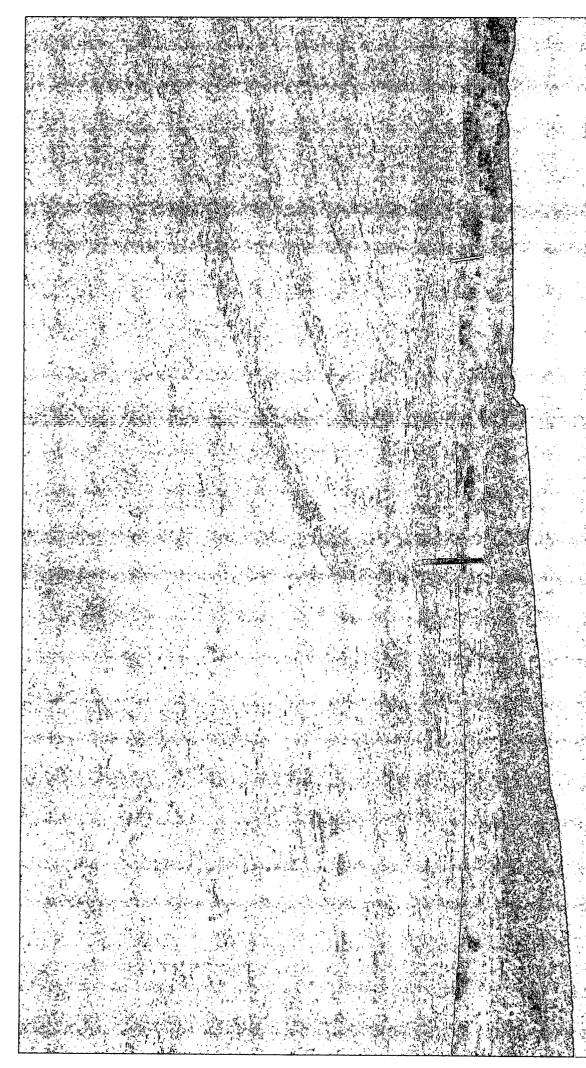
Submit I Copy To Appropriate District · Office	State of New Me		/	Form C-103
<u>District I</u> - (575) 393-6161	Energy, Minerals and Natu	iral Resources		tevised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> (575) 748-1283			WELL API NO.	NEOE
811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	5. Indicate Type of Leas	
District III - (505) 334-6178	1220 South St. Fran	ncis Dr.	STATE	FEE 🖾
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> - (505) 476-3460	Santa Fe, NM 8	7505	6. State Oil & Gas Lease	
1220 S. St. Francis Dr., Santa Fe, NM	ŕ		0, 0,000 0,00 0,00 0,00	
87505 SUNDRY NOTICE	ES AND REPORTS ON WELLS		7. Lease Name or Unit A	Agraement Name
(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA	LS TO DRILL OR TO DEEPEN OR PL	UG BACK TO A	MAES 2131	Agreement Name
PROPOSALS) 1. Type of Well: Oil Well G	as Well 🔯 Other		8. Well Number 18	-1
	GOIL AND GAS CORPORATION	ON	9. OGRID Number	25078
2, none or operator	, 0.12 12 0.13 00.13 01.11		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
· ·	ILLINOIS STE 1300 ND, TEXAS 79701		10. Pool name or Wilder WILDCAT, SANTA	
4. Well Location			<u> </u>	
Unit Letter G: 1650 feet fr	om the NORTH line and 1650 f	eet from the EAST	line	
Section 18	Township 21N	Range 31E	NMPM COUTNY:HARI	DING
	 Elevation (Show whether DR GR 4807' 	, RKB, RT, GR, etc		
			•	
12. Check Ap	propriate Box to Indicate N	lature of Notice,	Report or Other Data	
NOTICE OF INT	ENTION TO	1 CUE		r 0°.
NOTICE OF INT PERFORM REMEDIAL WORK		REMEDIAL WOR	SSEQUENT REPORT	
	PLUG AND ABANDON [] CHANGE PLANS []		RILLING OPNS. P AND	RING CASING 🔲
	MULTIPLE COMPL	CASING/CEMEN		
DOWNHOLE COMMINGLE	WOLIN 22 001111 2 2	G. IOII TO TO EMILE	(1 005 pg	
CLOSED-LOOP SYSTEM				-
OTHER:		OTHER:		
13. Describe proposed or comple				
of starting any proposed work proposed completion or recor	c). SEE RULE 19.15.7.14 NMA	C. For Multiple Co	ompletions: Attach wellbor	e diagram of
proposed completion of recor	ipietion.			
01/30/2014 - SPUD WELL				•
01/31/2014 - RUN 8 5/8 J-55 24# C				
02/01/2014 - RUN 5 1/2 J-55 15.5#	CSG SET @ 1438' W/370 SXS	CMT, CIRCULAT	ED 2011	卍
02/02/2014 – RELEASED RIG				
				CEIVED
		00/00/001	·	\leq
Spud Date: 01/302014	Rig Release D	ate: 02/02/2014	[ο,	<u>; </u>
		·	\>	
·			·	
I hereby certify that the information ab	ove is true and complete to the b	est of my knowled	ge and belief.	Ū
orani Man MA	ill don'	NIII ATORY AND	VOTE DATES - 02/02/20	1.4
SIGNATURE / //// Type or print name Kay Maddox E-r		SULATORY ANAI		
For State Use Only	• -	_		
		IIIS TAIGTSI	DEDVICAD	
APPROVED BY: Conditions of Approval (if any):	laston TITLE	UE IVINIEI	PERVISOR DATE_	2/7/2014
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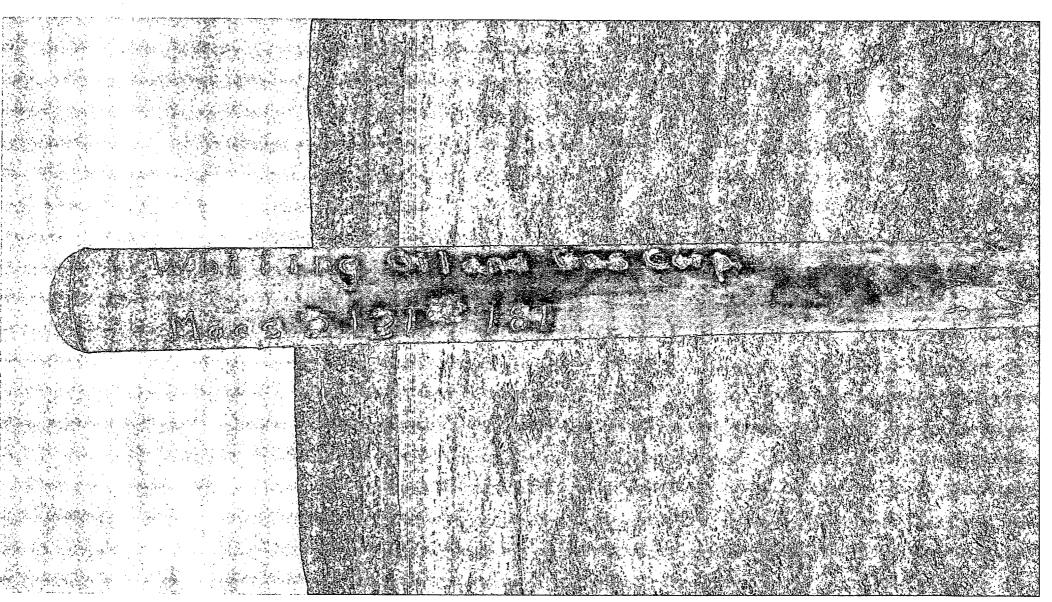














May 1, 2014

Archie Maes 7007 Alpine Lane Amarillo, Texas 79107

Ruby Maes 3345 N. Camino De Piedras Tuscon, AZ 85750

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

Well: Maes 2131 Well 18-1 Harding County, NM

Whiting Oil & Gas proposes to close and remediate the surface land according to all rules and regulations noted in Subsection E of 19.15.17.13 NMAC beginning May 5, 2014

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

Sincerely,

Kav Maddox

Regulatory Supervisor

Mailed by certified mail to above listed party on this the 1st day of May, 2014

Signadi May Madday Pagulatony Suparvisor

7011 3500 0002 4991 1502

Certified Mail Number



May 1, 2014

Archie Maes 7007 Alpine Lane Amarillo, Texas 79107

Ruby Maes 3345 N. Camino De Piedras Tuscon, AZ 85750

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

Well: Maes 2131 Well 18-1

Harding County, NM

Whiting Oil & Gas proposes to close and remediate the surface land according to all rules and regulations noted in Subsection E of 19.15.17.13 NMAC beginning May 5, 2014

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

Regulatory Supervisor

Mailed By certified mail to above listed party on this the 1st day of May, 2014

Signed Kay Maddox- Regulatory Supervisor

7013500 0002 4991 1496 Certified Mail Number

STATE OF NEW MEXICO

COUNTY OF HARDING

HARDING COUNTY, NM RECEPTION# 20638 06/11/2014 03:46:40 PM BK 19 PAGE 10080 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:

MAES 2131

Well No:

18-1

API No:

30-021-20595

TWN & RGE:

TWN 21N RGE 31E

Unit Letter:

G

Footages:

1650 FNL & 1650 FEL

Closure Date:

5/15/2014

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

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

Kay Maddoy - Regulatory Supervisor

STATE OF TEXAS
COUNTY OF MIDLAND

This instrument was acknowledged before me this

day of

Kay Maddox on behalf of Whiting Oil & Gas Corporation.

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

Notary Public



July 17, 2014

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

RE: Pit Closures

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 upcoming rainy season documented for Harding County, New Mexico approximately August/September 2014. As evidenced by the pictures submitted some natural native vegetative growth has already occurred.

Sincerely,

Kay Máddox

Regulatory Supervisor

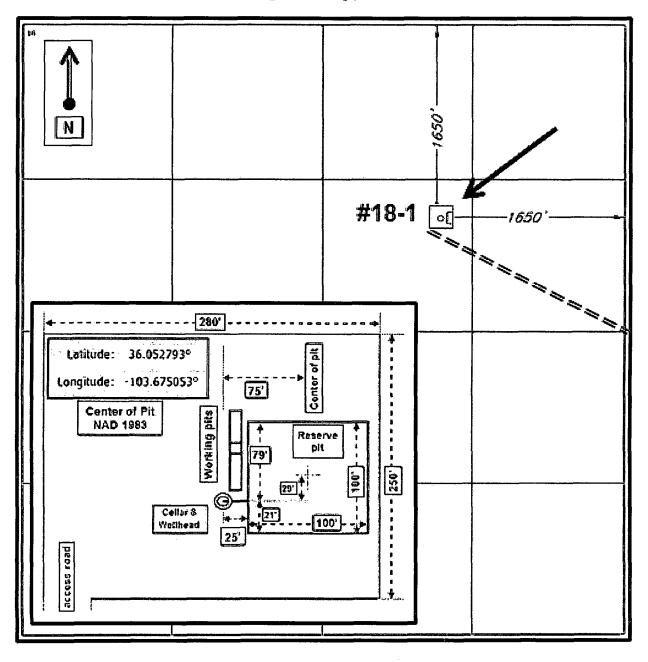
MAES 2131 Well #18-1 30-021-20595 Harding County, New Mexico

Pit Plot

Whiting Petroleum Corporation
Maes 2131 #18-1

T-21-N, R-31-E, Section 18 NMPM

Harding County, New Mexico



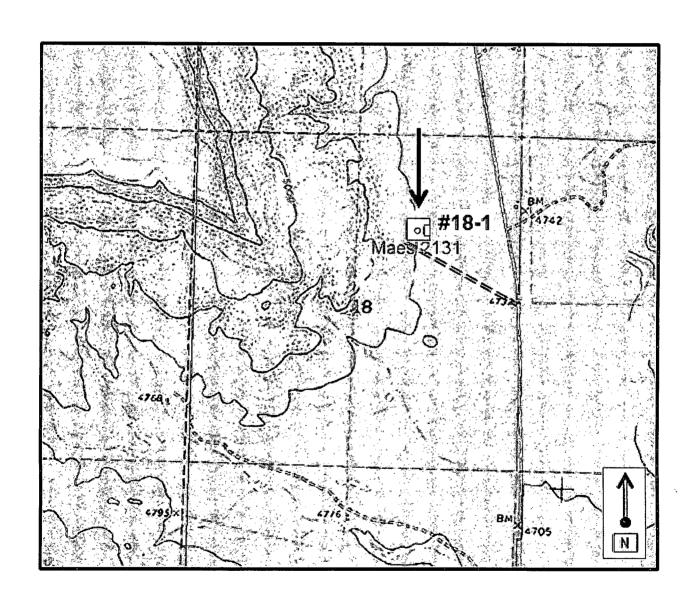
Торо Мар

Whiting Petroleum Corporation

Maes 2131 #18-1

T-21-N, R-31-E, Section 18 NMPM

Harding County, New Mexico



RTM July 29, 2014



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:

OTEV 03600

04/30/2014

Sampling Type:

Soil

WEST BRAVO DOME CO2

Cool & Intact

Project Name:

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

13-1224-03

Project Location:

HARDING COUNTY, NM

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

30-021-20595

BTEX 8260B	mg/kg		Analyze	Analyzed By: ck		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
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	% 61.3-14	2						
Surrogate: Toluene-d8	97.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.8	% 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	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	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	123 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	119 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed watved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be flable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profilts incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg E Keene

1



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 www.tceq.texas.qov/field/ga/lab-accred-certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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:

Soil

Project Name:

04/30/2014

Sampling Type:

Cool & Intact

WEST BRAVO DOME CO2

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

13-1224-03

Project Location:

HARDING COUNTY, NM

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

BTEX 82608	mg/kg		Analyzed 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	% 61.3-14	2						
Surrogate: Toluene-d8	97.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.8	% 65.7-14	I						
Chloride, SM4500Cl-B	mg)	/kg	Analyzed 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	Analyzed 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	123 9	% 65.2-14	0		,				.,,
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Utability and Opmospes. Cardinal's highlity and client's exclusive remedy for any claim existing, whether based in contract or lost, shall be findled to the amazent justed by client for energy-sea. All claims, including those for negligence and any other cause whatsoever shall be deemed watered unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Condinal be liable for incidental or consequential damages, including, writing it limitation, business informations, loss of usa, or loss of profits incurred by client, its subsidiaries, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Liteene



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:

12 1224 02

Sample Received By:

Jodi Henson

Project Number:

13-1224-03

Project Location:

HARDING COUNTY, NM

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

BTEX 8260B	mg/kg		Analyzed 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	104	% 61.3-14	22						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 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	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	17.8	10.0	04/25/2014	ND	207	103	200	12.5	
Surrogate: 1-Chlorooctane	113 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

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PLEASE NOTE: Liability and Derivages. Cardinal's liability and client's exhauter remarky for any claim orising, whithen based in contract or boil, shall be limited to the amount putfl by client for analyses. All claims, including librare for negligosism and any other cause whatsoever shall be diseased without limitation, business interruptions, loss of use, or loss of months incurred by client is subsidiaries, offlishers or successors arising out of or related to the performance of the services hereunder by Cordinal, regardless of whether such claims is based upon any of the above stated resource or or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



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

g type:

Cool & Intact

Project Number:

13-1224-03

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

HARDING COUNTY, NM

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

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	04/29/2014	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	100	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	100	% 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	<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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124 9	63.6-15	4						

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Celeg & Kuna



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)

RPD 6.15 8.09	Qualifier
8.09	
7.15	
8.15	
RPD	Qualifier
0.00	
RPD	Qualifier
11.1	
12.5	
	RPD 11.1

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Celeg & Keine



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Analytical Results For:

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

rdx

04/23/2014

Reported: 04/30/2014

Received:

Project Name: WEST BRAVO DOME CO2

Project Number: 13-1224-03

Project Location: HARDING COUNTY, NM

Sampling Date:

04/22/2014

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact Jodi Henson

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

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	04/29/2014	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	88	% 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	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. Keena



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

Fax

Received: Reported: 04/23/2014 04/30/2014

WEST BRAVO DOME CO2

Project Name: Project Number:

13-1224-03

Project Location:

HARDING COUNTY, NM

Sampling Date:

04/22/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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	Qualifler
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	102	% 61.3-14	2	-					
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	I						
Chloride, SM4500CI-B	mg/	kg	Analyzed 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	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	92.1	10.0	04/25/2014	ND	207	103	200	12.5	
Surrogate: 1-Chlorooctane	110 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	63.6-15	4						

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Celey & Keine



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

BTEX 8260B	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Biank	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	12	-					
Surrogate: Toluene-d8	98.0	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	115	% 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	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	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	16.9	10.0	04/25/2014	ND	207	103	200	12.5	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Celey & Kune



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

BTEX 8260B	mg	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	12						
Surrogate: Toluene-d8	97.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	11	•					
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% 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	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	97.4	% 65.2-14	0			- Install	,		
Surrogate: 1-Chlorooctadecane	94.8	% 63.6-15	4						

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Celey & Keine



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: Sample Received By: Cool & Intact Jodi Henson

Project Number:

13-1224-03

Project Location:

HARDING COUNTY, NM

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

BTEX 8260B	mg,	/kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% 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: Dibromofluoromethane	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	85	% 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	1125	% 65.2-14	0	·					
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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Celeg Di Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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PLEASE MOTTE: LiabBilly and Demages. Conditional's butbolly until clientis's exchanive remody for any claim enhance, whether based in contract or bort, shall be firsted to the account paid by client fix analyses. All claims, including blaces for neighbories and any other cause whatsoever shall be deemed valued unfers touch in writing and received by Cardinal within thirty (30) days after completion of the applicable sense. In no event shall Continue the butble for incidental or consequential damages, without limitation, business intermedians, loss of uses, or loss of profits incurred by client, its subsidiants, affiliators or successors arising out of or related to the performance of the services hereunder by Cardinal, against upon any of the above stated resource or the services hereunder by Cardinal subcortaints.

Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Whiting Oil+GAS					ente.	81	LL TO	a recitation				A	NAL	YSIS	RE	QUE	ST			
Project Manage	" Brion Holladay				P.O. #: 13-1224 - 03							T						1		
Address: 460	W. Illianis Solfe	1300)		Company: Whiting oil types							1		ļ						
City: Midlend State: TX Zip: 78701					Attr	Gar	y Bull	ck				1	-		İ			1	1	
Phone #: 800	6-231-1758 Fax#:		····	Mangalingha airtean ann a briann airtean an agus an taith Bernardha Abrillan inn a' Mh				من عليو00	b				}	- 1	l					
	Project	Owner:				: Mil							1		ł			1	l	
	West Broug Done						Zip: 74	701							1			1	İ	
Project Location	n: Harding county	NM			1	ne #:			10											
Sampler Name: Brian Ho Haday					Fax	#:			2015				- 1	- 1	į			1		
FOR LAB USE ONLY			T	MATRIX	, F	PRESERV.	SAMPL	ING	9	+]	1				1	
Lab I.D. H401230	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE; ICE / COOL OTHER:	DATE	TIME	TPH	6TE >	ーつ									
1	Maes 2131 # 18-1						4/22	11:14	L	سمه	V									
2	Miera 2130 # 35.		_				4/22	11:25	٠	سو	~									
	Casados 2030 # 12.	the same of the same					4/22	11:39			سو									
9	Foor Way 2031 #4			 			4/42	11:56	_=	<u>~</u>			_							
<i>5</i> _	STATE 2229 # 31	2-1	-	 			4/22	2:15	1		س		-	}-						
	Doroteo 1927#13		-		-		4/22	3215						}-						
4	Ladd 1978 #17	7	╁╌	I		-	4/22	3:27	-											
q	Lewis 1928 #2-	1-1	╁╌		\vdash		4/22	4:10												
, the man of authorities and authorities and	muev.	7	-				7,500	7												
DI BASE NOTE: Linkster on	d Damages. Cardinal's bability and chear's exclusive to	and the same	See anima		***	and the land and	to the tentuck of											_		

PLEASE NOTE: Liability and Damages. Cardral's bability and cherry exclusive remedy to any claim arising whether caused in concase or tort, shall be limited to the amount paid by the clean lot the analyses. All children based for pregigence and any other cause whitecever had be deemed viewed unless made in victing and received by Cardral within 30 days after completion of the applicable service. In no event what Cardral or liability to liability to include the includental or consequential diarrages, including winout instructions, loss of use, or less of process incurred by clean, it is subadiables.

making or successors around our of or third in the performance :	at services hereunder by Caro	That regardless of whether such class.	is based upon any of the above stated in	easons of Cinerate.					
Relinquished By:	Date:	Regeived By:	T	Phone Result:	☐ Yes	□ No	Add'l Phone #:		
7 11 000	4/45	11000 11	/	Fax Result:	☐ Yes	□ No	Add'l Fax #:		
A U 000.	Time:	1111/11/11 50	I IN DIPIN	REMARKS:					1
ar Good con	14.33	Received By:	<u> </u>	.l	,		1 Q line	4	
Relinquished By:	Date:	Received By:		Lacion	, ho	,1100	day @live.	,0000	1
	Time:	•		J	•				1
	inne.								1
Delivered By: (Circle One)		Sample Conditi							1
Sampler - UPS - Bus - Other:	5.4%	Cool Intact							