District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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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.

	<u>Pit, Below-Grade Tank, or</u>	
	Proposed Alternative Method Permit or Closure Pla	n Application
21-20650	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or no or proposed alternative method	n-permitted pit, below-grade tank,
Please be advised that	Instructions: Please submit one application (Form C-144) per individual pit, below-gra at approval of this request does not relieve the operator of liability should operations result in po	lution of surface water, ground water or the
I. Operator: <u>Whiti</u> Address: 400 W	ting Oil & Gas Corp OGRID #: 25078 V. Illinois, Suite 1300, Midland, Texas 79701 me: Mimi 2027 #111	OIL CONS. DIV DIST. 3
Facility or well nar	me: <u>Mimi 2027 #111</u>	JUL 1 1 2014
API Number: 3	0-021-20650 OCD Permit Number:	
	K Section Township ZO-N Range Z7-E Cou	
	Design: Latitude <u>35.975589</u> Longitude <u>-104.041244</u> NAD	-
] Federal 🔲 State 🖾 Private 🔲 Tribal Trust or Indian Allotment	
Lined 🗌 Unli	Emergency Cavitation P&A Multi-Well Fluid Management Low (ined Liner type: Thickness <u>20</u> mil LLDPE HDPE PVC Other ced Welded Factory Other Volume: <u>10,700</u> Bbl Dimensions: L	
Volume: Tank Construction Secondary con	ank: Subsection I of 19.15.17.11 NMAC bbl Type of fluid: material: ntainment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overfl	
ыны туре. тиски	alls and liner Visible sidewalls only Other	
4.	messmil 🗌 HDPE 🗍 PVC 🗌 Other	

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

Screen Netting Other_

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6.

7.

8.

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

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

Variances and Exceptions:

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

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

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

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

9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.						
General siting						
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	□ Yes ⊠ No □ NA					
<u>Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.</u> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA					
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗋 Yes 🛛 No					
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗆 Yes 🛛 No					
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🛛 No					
Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map	🗌 Yes 🛛 No					
Below Grade Tanks						
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No					
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes No					
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)						
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🖾 No					
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗌 Yes 🛛 No					
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗋 Yes 🖾 No					

Within 100 feet of a wetland.

US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Ves 🛛 No

Temporary. Pit Non-low chloride drilling fluid Within 300 feet of a continueally flowing watercourse, or within 200 feet of any lakebed, arkhole, or playa lake (measure flowing water mark). Presci No within 300 feet of a spring or a private. Advector spring in the existence at the time of initial application. Visual inspection (certification) of the proposed site. Within 300 feet of a spring or a private. Advector spring or a difference, should, hought, listification, or durch in existence at the time of the initial application. Visual inspection (certification) of the proposed site. Within 300 feet of a spring or a private. Advector wells or spring. The existence at the time of the initial application; NM Visual inspection (certification map; Topographic map; Visual inspection (certification) of the proposed site Visual inspection (certification) of the proposed site Within 300 feet of a continuously flowing watercourse, or 200 feet of any volter fesh water well or specin; Listence at the time of the initial application. Visual inspection (certification map; Topographic map; Visual inspection (certification) of the proposed site Permanent Pit or Multi-Well Fluid Management Pit Within 1000 feet for a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. Visual inspection (certification) of the proposed site Within 1000 feet for a spring or a fresh wate well used for domestic or stock watering purposes, in existence at the time of initial application. Visual inspection (certification) of the proposed site Within 1000 feet for a spri		
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watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Yes No Office of the State Engineer - iWATERS database search; 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). Yes No Topographic may, Visual inspection (certification) of the proposed site Yes No Within 1000 feet for a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Yes No Yes No No No 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. Yes No Within 500 horizontal feet of a surger or iWATERS database search; Visual inspection (certification) of the proposed site Yes No Within 500 teot of a wetland. Yes No Yes No Temoprary Pits, Emergency Pits, and Below-grade Tanks Permit Application. Please indicate, by a check mark in the box, that the documents are atatached. 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
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11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 	19.15.17.9
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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Previously Approved Design (attach copy of design) API Number: or Permit Number:	Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
	Previously Approved Design (attach copy of design) API Number: or Permit Number:	

12.						
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.	e documents are					
 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 H₂S, Prevention Plan Emergency Response Plan 						
 Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 						
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	·····					
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.						
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Alternative 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 						
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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	·					
15.						
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 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						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
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						
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						
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 Within 300 feet of a wetland.	🗌 Yes 🛛 No ʻ					
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	🗌 Yes 🛛 No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality						

. . .

Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🛛 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗆 Yes 🛛 No
Within a 100-year floodplain. FEMA map	🗌 Yes 🛛 No
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 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 cant. 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 	7.11 NMAC 9.15.17.11 NMAC
17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and be Name (Print):	lief. -
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:)4
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submittin, report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Plea complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	
 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loc If different from approved plan, please explain. 	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please is check mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) ○n-site Closure Location: Latitude	

22. Operator Closure Certification:

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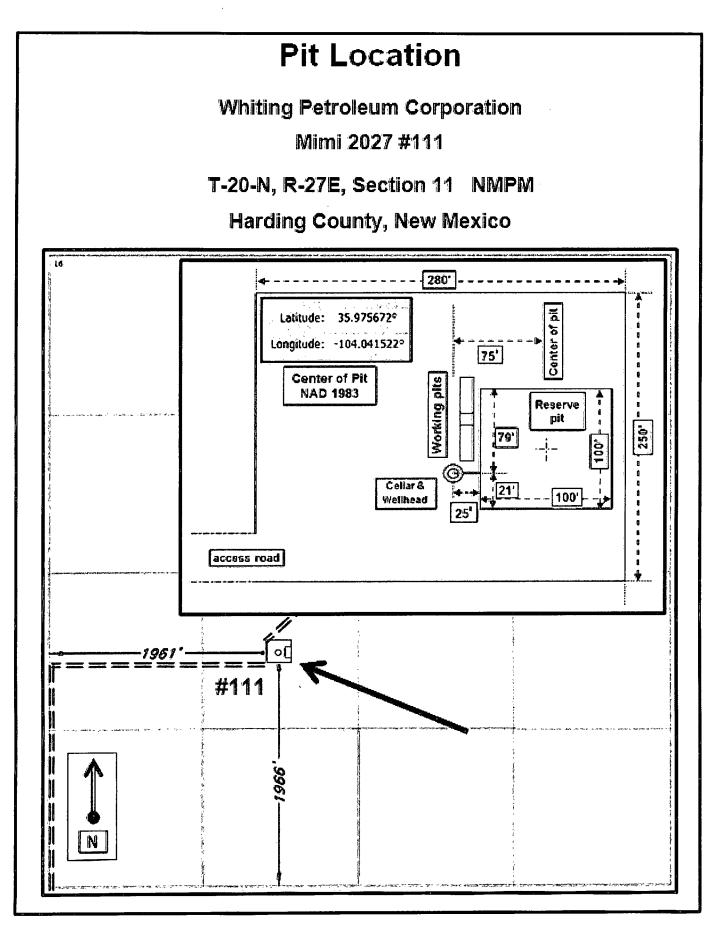
•

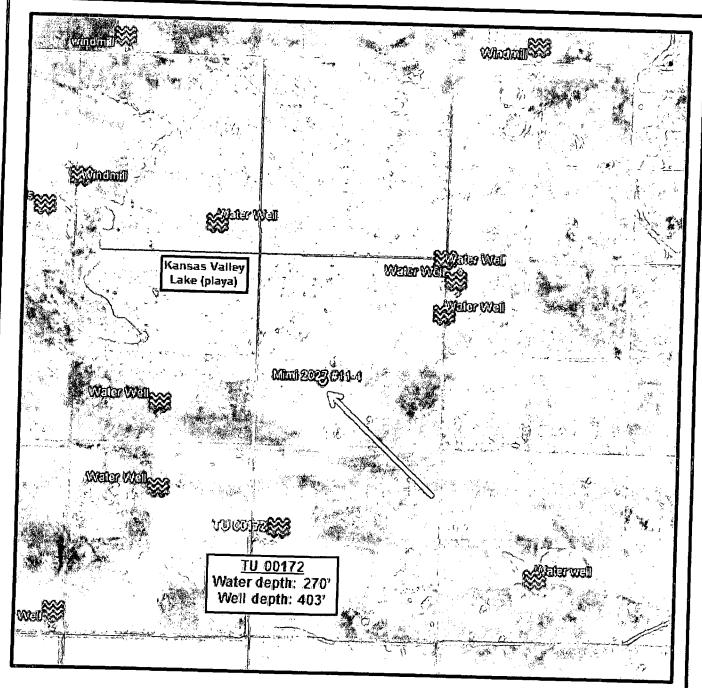
		······································
e-mail address:	Telephone:	
Signature:	Date:	
Name (Print):	Title:	
I hereby certify that the information and attachments submitted wi belief. I also certify that the closure complies with all applicable c		

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OCD Form C-144: Supporting Data





Location Photo #1

Whiting Petroleum Corporation

Mimi 2027 #111

T-20-N, R-27E, Section 11 NMPM

Harding County, New Mexico

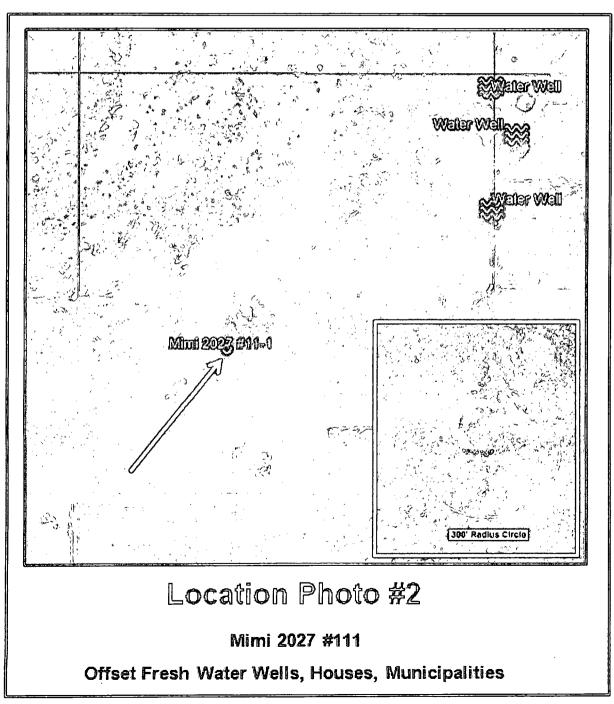
Oil Conservation Division

Surface Hydrology:

The local surface is controlled by terraced fields, intermittent draws and dry playa lakes. Some runoff from the location could flow northeast about 455' into a dry playa. Regional dip and flow would be to the northwest towards Kansas City Lake (playa). Aerial photos indicate that the reserve pit will be greater than 300 feet from any significant waterways or surface water (see Air Photos 1 and 2, attached).

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, or yield insufficient water to supply local requirements. When present, they are not extensive enough to be classified as major aquifers.



Siting Criteria and Compliance Demonstrations

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

Depth to groundwater is unknown at this exact location, but water could be encountered around 100'. Within the region, many wells are 100' deep or less implying water can, or could be found shallower than 100'. Regional water wells located adjacent to creeks or stock tanks can have much shallower fluid levels. The nearest well with available water-depth information is almost a mile from this location. The wells identified from OSE records are listed below (see Air Photo I & 2):

Well	Distance/Direction from Proposed Project Area	Depth of Well	Depth to Water
TU 00172	~4950' SSW (ranch house)	403'	270'
TU 01046	~3.5 miles WSW (abandoned ranch house)	100'	?'

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

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

Aerial photos and a visit to the location indicate that there are no sinkholes, playa lakes, or watercourses within 300 feet of the proposed pit. The edge of the closest playa is about 455' to the northeast and the larger playa to the northwest is about 3500' away (see Location Photo 2).

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. 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):

Air photos indicate the pit will not be within 500 feet of any recorded well or spring (see Photo 1 & 2). The closest offset water well is about 3650' NE, but it appears to be shut in. The closest active water well is about 4750' to the SW.

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

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 (see Location Photo 2).

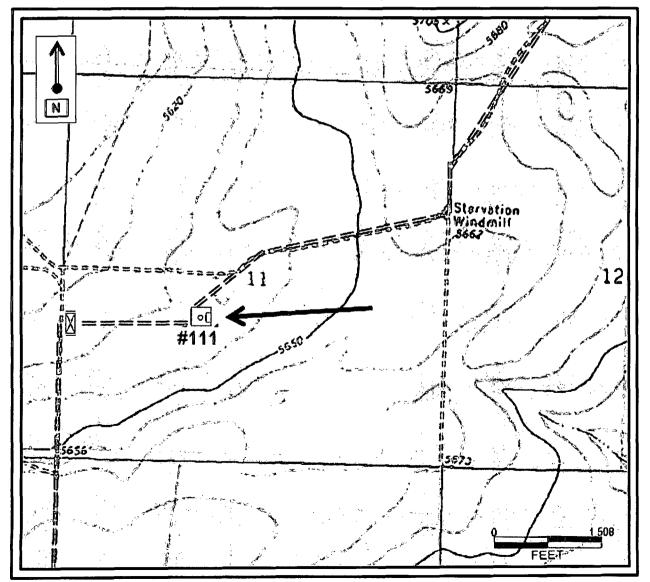
Siting Criteria and Compliance Demonstrations, cont'd

9. <u>Stockpile material: Will not be stored within 100' from continuously flowing water course, or other significant water course, 200' from lake bed, sink hole or playa, 100' from a wetland or in a 100 year flood plain.</u>

Stockpile material will be stored at the edge of the new pad. Aerial photos and a visit to the location indicate that the stockpile will be more than 100' from a continuously flowing water course, or other significant water course, more than 200' from any lake bed, sink hole or playa. There are no wetlands in the area and it will not be in a 100 year flood plain.

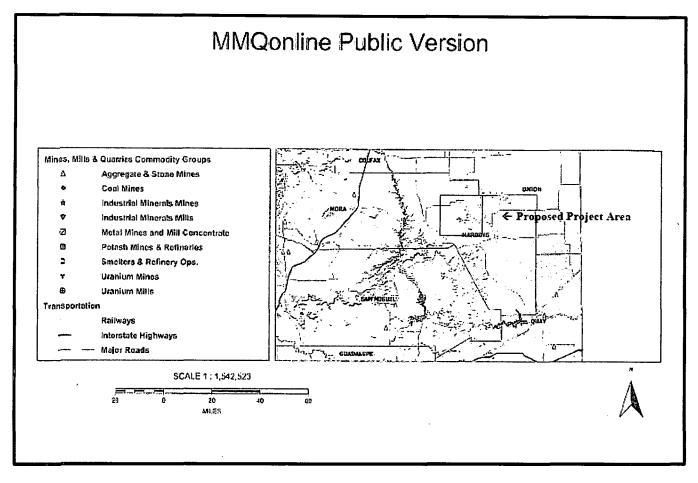
10. <u>In-place closure: Depth to ground water is estimated to be greater than 25' from bottom of pit, not within 100' of continuously flowing water course, or significant water course, 300' of a wetland, 300' from private water well, or spring used by less than 5 households.</u>

Ground water is estimated to be encountered around 100' from the bottom of the pit. The pit is not within 100' of any continuously flowing water course, or other significant water course. There are no wetlands in the area and the closest private water well is about 3755' away. There are no springs used by less than 5 households in this section.



Area TOPO Map

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/Maps/MMQActiveMines/index.html Accessed June 2014.

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

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

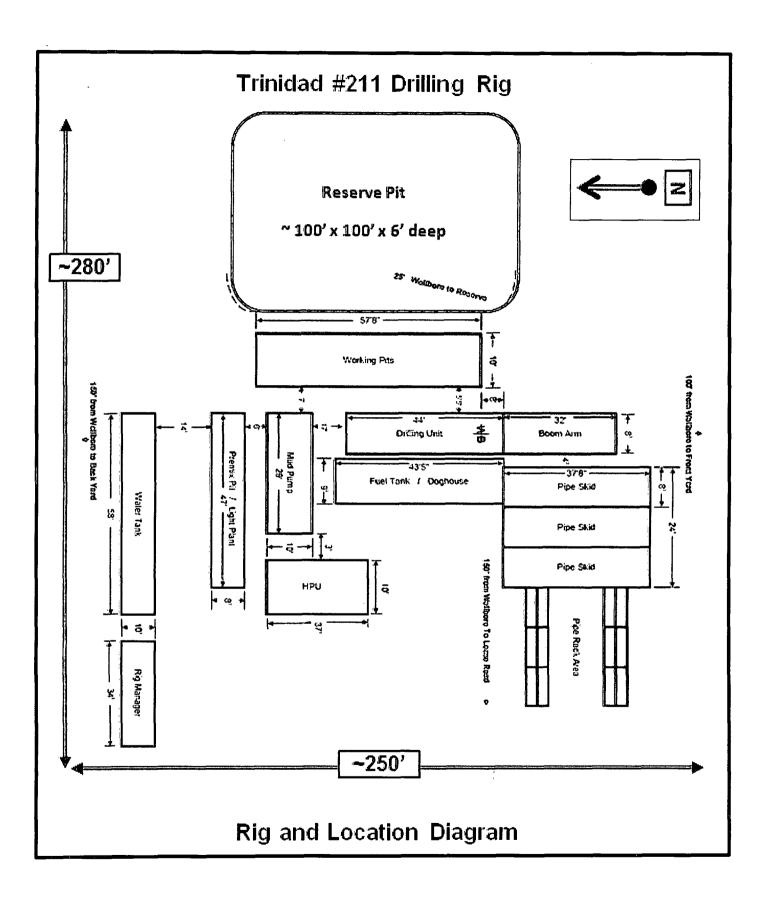
The location (Harding County, NM) has not been mapped by FEMA. However, aerial photos and offset drilling permits indicate that the location is not within a floodplain. It is located on top of a flat mesa and any regional flooding will be unprecedented.

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:

- 1. Prior to constructing the pit, topsoil will be stripped and stockpiled for use as final cover or fill at the time of closure.
- 2. 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 19.15.17.11.C 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).
- 3. 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.
- 4. The pit will be designed and constructed to ensure the confinement of liquids.
- 5. 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).
- 6. 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.
- 7. 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).
- 8. 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.
- 9. 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.
- 10. The volume of the pit will not exceed <u>10,700</u> Bbls, including freeboard.
- 11. If a flare portion of the pit is needed, it will be unlined and designed to drain to the temporary pit. However, this well will produce dry CO₂ and no flaring is expected.



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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:

- 1. The pit will be maintained to contain liquids and solids, prevent contamination of fresh water, and protect public health of the environment.
- 2. 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.
- 3. Hazardous waste will not be discharged into or stored in the pit.
- 4. 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, and the liner will be repaired or initiate replacement of the liner within 48 hours of the discovery.
- 5. If the pit develops a leak or if any penetration of the liner occurs below the liquid's surface, Within 48 hours of discovery all liquid above the leak line will be removed, the appropriate division district office will be notified, and the liner will be repaired or initiate replacement.
- 6. 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.
- 7. Pit operation will prevent the collection of surface water run-on.
- 8. An oil-absorbent boom or other device will be installed and maintained onsite to contain and remove oil from the pit's surface.
- 9. 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.
- 10. At least two (2) feet of freeboard will be maintained.
- 11. 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.
- 12. 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.
- 13. All cavitation fluids will be removed within 48 hours of completing cavitation.

Temporary Drilling Pit : Pit Inspection Log

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Well	Mimi 2027 #111		Liner Type & Thickness		
API#	30 - 0	30 - 021 Rig Mobilization Date:			 And the second seco
County		Harding	Rig Demobilization Date:	n an	an an America a second
Inspection Date	Time	By Whom	Has any hazardous waste been disposed of in the pit?	ls the pit liner intact and free of penetrations?	Distance from top of pit to fluid (minimum 2').
				· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·			
·		······			
		' during drilling and ported to the NMOCE	completion operations and We) within 48 hours.	ekly thereafter. All pen	etrations or

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) 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.
- 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.
- 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
- 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.
- 6) The pit will be stabilized with clean non-waste containing earthen material with a ratio no more then 3:1
- 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 from 51' to 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
- 8) If the contents are above the concentration limits after stabilization Whiting will comply with 19.15.17.13.C (Waste Excavation and Removal)
- 9) If it is determined that contents of the pit doesn't exceed the above-specified concentrations, the pit will be covered with compacted, non-waste-containing, earthen material. A division-prescribed soil cover will be constructed and the site will be re-contoured and re-vegetated, per Subsections D, E, F, G, H, of 19.15.17.13 NMAC: (Detailed Below)
- 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 (detailed below), recontouring to match original contours and surrounding topography, and re-vegetating (detailed below).
- 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.

Closure specifications for this temporary pit, continued:

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- 12) Soil cover will consist of 4' of non-waste containing earthen material with chloride concentrations less than 600mg/KG including 1' of topsoil
- 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.
- 14) Soil cover will be constructed to the site's existing grade and will prevent ponding of water and erosion of the cover material.
- 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.
- 16) Seeding will be accomplished by drilling on the contour whenever practical, or by other divisionapproved methods. Vegetative cover will be considered complete when there is a life form ratio of +/-50% of pre-disturbance levels with at least 70% total plant cover of pre-disturbance level (Excluding Noxious Weeds) OR in accordance to 19.15.17.13.H.5.d
- 17) Seeding or planting will be repeated until the required vegetative cover is successfully achieved.
- 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.
- 19) The division will be notified when seeding or planting is completed, and when successful re-vegetation has been achieved.
- 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
- 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.



New Mexico Office of the State Engineer Point of Diversion Summary

			rs are 1≃N ers are smi				(NAD83 U'	TM in meters)	
POD	Number	Q64 (Q16 Q4	Sec	Tws	Rng	Х	Y	
TU	01046	1	33	17	20N	27E	581097	3979731* 🚱	
Driller License:	548								
Driller Name:	STINEBAUGH,	BILL C.							
Drill Start Date:	08/14/2001	Drill Fi	nish Da	te:	0	8/16/2001	Ph	ug Date:	
Log File Date:	09/11/2001	PCW R	ev Date	:			So	urce:	Shallow
Pump Type:		Pipe Di	scharge	Size:			Es	timated Yield:	
Casing Size:	5.00	Depth V	Well:		1	00 feet	De	pth Water:	

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		••	rs are l≃N ers are sm:			,	(NAD83 U	TM in meters)	
POE) Number	Q64 (Q16 Q4	Sec	Tws	Rng	X	Y	
TU	00172	4	3 1	14	20N	27E	586123	3980386* 🚱	
Driller License:	962								
Driller Name:	MAHONEY, JO	HN H.							
Drill Start Date:	05/08/1998	Drill Fi	nish Da	te:	0	5/08/199	8 Ph	ug Date:	
Log File Date:	02/23/1999	PCW R	cv Date	:	0	2/23/199	9 So	urce:	Shallow
Pump Type:		Pipe Di	scharge	Size:	•		Es	timated Yield:	6 GPM
Casing Size:	7.00	Depth V	Well:		4	03 feet	De	pth Water:	270 feet

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/8/14 2:34 PM

POINT OF DIVERSION SUMMARY

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102

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

OIL CONSERVATION DIVISION

D Energy, Minerals, and Natural Resources Department Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

DISTRICT IV

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

Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		[*] Pool Name UN DIOXIDE Gas (440)
Property Code	⁶ Property Name MIMI 2027	⁶ Well Number
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
25078	WHITING OIL & GAS CORPORATION	

¹Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
К	11	20 NORTH	27 EAST, N.M.P.M.		1966'	SOUTH	1961'	WEST	HARDING

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Ac	res ¹³ Jo	int or Infill	¹⁴ Consolidation Code	¹⁶ Order N	0.	[<u></u>		

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

16		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location 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 heretofor entered by the division.
	NAD 27 NME ZONE X:586425 Y:1810470 LAT:35'58'32.12" LON:-104'02'28.48"	Num Mail addx 7/8/2014 Signature Date Signature Date AY MADDOX Printel Name ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 15, 2014 Date of Survey
		Date of Survey Signature and Serveyor Signature and Serveyor F NEW 44 BEZNER NO.7920 S OHL LAN Certificate number V. Lynn bezner P.S. #7920 FILE:LO_MIMI_2027_11_1 K.Y.