District I ;
1625 N French Dr., Hobbs, NM 88240

District II
1301 W Grand Ave , Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico · Energy Minerals and Natural Resources

Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

July 21, 2008 temporary pits, closed-loop systems, and below-grade

Form C-144

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

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

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

District IV

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

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

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

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

Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: McManus 13R
API Number: 30-045-32604 OCD Permit Number:
U/L or Qtr/Qtr: K(NE/SW) Section: 4 Township: 25N Range: 8W County: San Juan
Center of Proposed Design: Latitude: 36'25.6529 °N Longitude: 107'41.4371 °W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
2
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19 15.17.11 NMAC SEP 2009
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.						
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)						
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC						
Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	leration of app	roval.				
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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.						
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	□No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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.	Yes	□No				
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	☐Yes ☐NA	No				
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. 	Yes	□No				
 NM Office of the State Engineer - iWATERS database search; 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 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.	☐Yes ☐Yes	□No				
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological 	Yes	□No				
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	□No				

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment ChecklistSubsection B of 19.15.17.9 NMAC Instructions. Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached.						
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC						
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9						
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
Design Plan - based upon the appropriate requirements of 19.15.17 11 NMAC						
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC						
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of						
19.15.17.9 NMAC and 19.15.17.13 NMAC						
Previously Approved Design (attach copy of design) API or Permit						
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC						
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC						
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17.13 NMAC						
Previously Approved Design (attach copy of design) API						
Previously Approved Operating and Maintenance Plan API						
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC						
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.						
Hydrogeologic Report - based upon the requirements of Paragraph (I) 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: X Drilling Workover Emergency X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative						
Proposed Closure Method: Waste Excavation and Removal						
Waste Removal (Closed-loop systems only)						
X On-site Closure Method (only for temporary pits and closed-loop systems)						
X In-place Burial On-site Trench						
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)						
15 Waste Excavation and Removal Closure Plan Checklist (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.						
Please indicate, by a check mark in the box, that the documents are attached.						
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Bookfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC						
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 I of 19.15.17.13 NMAC						
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

Form C-144 Oil Conservation Division Page 3 of 5

16							
Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions Please identify the facility or facilities for the disposal of liquids, a facilities are required		,					
Disposal Facility Name:	Disposal Facility Permit #:						
Disposal Facility Name:	Disposal Facility Permit #:						
Will any of the proposed closed-loop system operations and associated Yes (If yes, please provide the information No							
Required for impacted areas which will not be used for future service and open Soil Backfill and Cover Design Specification - based upon the a Re-vegetation Plan - based upon the appropriate requirements of S Site Reclamation Plan - based upon the appropriate requirements	ppropriate requirements of Subsection H of 19.15.17.13 N Subsection I of 19 15 17 13 NMAC	NMAC					
17 Siting Criteria (Regarding on-site closure methods only: 19 15 17.10 Instructions Each siting criteria requires a demonstration of compliance in the closure picertain siting criteria may require administrative approval from the appropriate district of office for consideration of approval. Justifications and/or demonstrations of equivalency.	lan Recommendations of acceptable source material are provided below ffice or may be considered an exception which must be submitted to the S						
Ground water is less than 50 feet below the bottom of the buried waste.		Yes X No					
- NM Office of the State Engineer - 1WATERS database search; USGS. D	ata obtained from nearby wells	□N/A					
Ground water is between 50 and 100 feet below the bottom of the burie	ed waste	X Yes No					
- NM Office of the State Engineer - iWATERS database search; USGS, Da		∏ _{N/A}					
Ground water is more than 100 feet below the bottom of the buried water. - NM Office of the State Engineer - tWATERS database search, USGS; Database search, US		Yes X No					
		∐N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark)	significant watercourse or lakebed, sinkhole, or playa lake	Yes XNo					
- 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 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee 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; Visual inspection Within incorporated municipal boundaries or within a defined municipal fresh was	• •	Yes X No					
pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written appro	val obtained from the municipality						
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visi	ual inspection (certification) of the proposed site	Yes X No					
Within the area overlying a subsurface mine.		Yes X No					
Written confirantion or verification or map from the NM EMNRD-Minin Within an unstable area.	g and Mineral Division	Yes X No					
Engineering measures incorporated into the design, NM Bureau of Geolog Topographic map	zy & Mineral Resources, USGS; NM Geological Society;	Tes Aino					
Within a 100-year floodplain - FEMA map		Yes X No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: by a check mark in the box, that the documents are attached.	Each of the following items must bee attached to the clo	osure plan. Please indicate,					
X Siting Criteria Compliance Demonstrations - based upon the app	propriate requirements of 19.15.17.10 NMAC						
X Proof of Surface Owner Notice - based upon the appropriate rec	quirements of Subsection F of 19 15.17.13 NMAC						
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC							
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC							
X Protocols and Procedures - based upon the appropriate requirem	nents of 19.15.17.13 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC							
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC							
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)							
X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

Page 4 of 5

19 Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Marie E. Jagamulo Title: Staff Regulatory, Technician
Signature: January Date: G. S. 199
e-mail address: reariele jaramillo@conocophillips com Telephone: 503-326-9865
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Brangh Jell Approval Date: 9/30/09
Title: OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed
Closure Completion Date:
22 Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
23 <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
were utilized. Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compilane to the items below)
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
24 <u>Closure Report Attachment Checklist:</u> Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude: Longitude: NAD 1927 1983
Operator Closure Certification: The reference will that the information and attackments submitted with the elegans weren't a time accounts and complete to the best of my knowledge and belief. I also exists that
I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 32, 33, 34

Township: 26N

Range: 08W

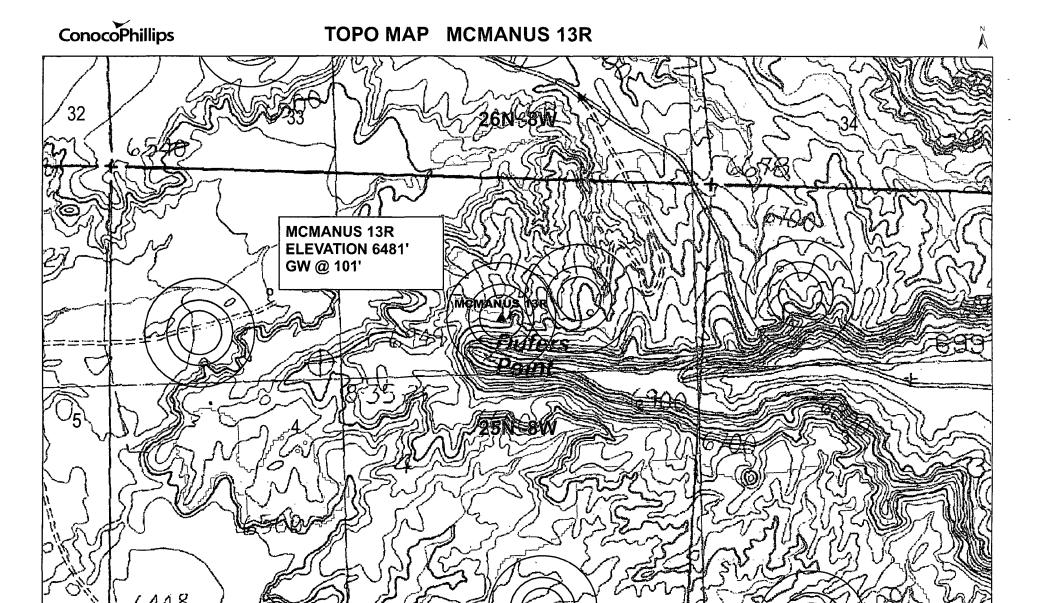


New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 8, 9, 10, 5, 4, 3 Township: 25N Range: 08W



Data Source
Aerial flown locally Sedgewick in 2005.
Wetlands Data Aquired from U.S. Fish
and Wildlife Http://wetlandswms.er usgs.gov
USGS Topo

200FT . Wetlands 300FT . S00FT ***** iWaters **COP *** COP ***** C

iWaters

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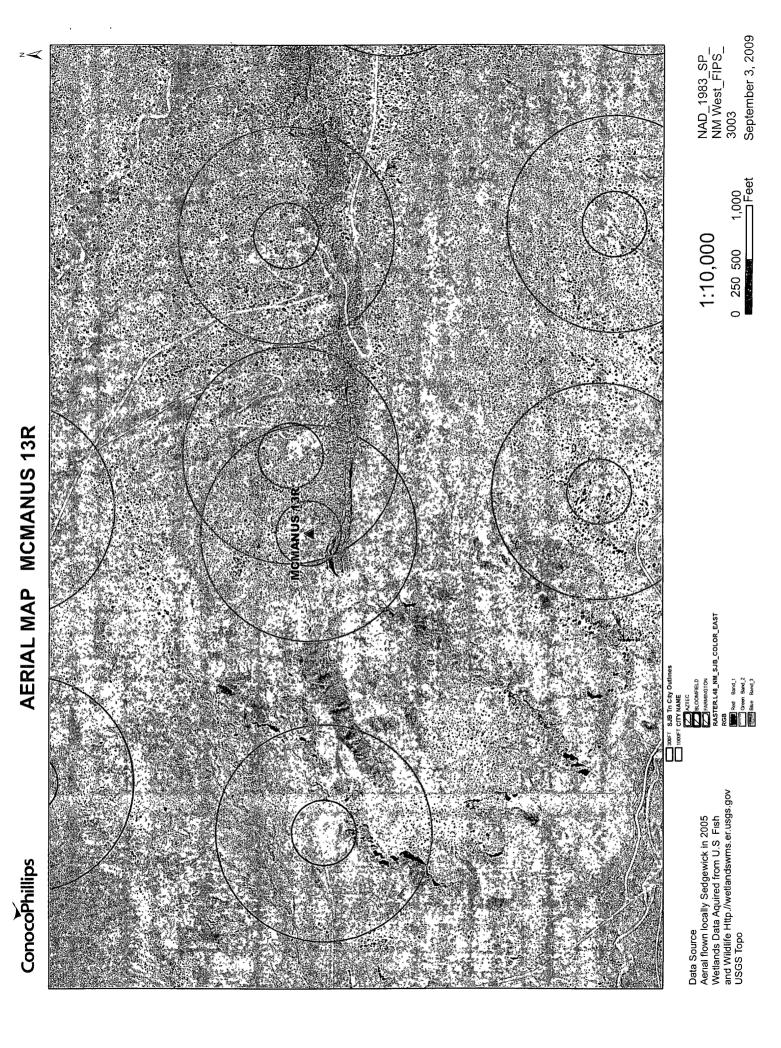
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September 3, 2009

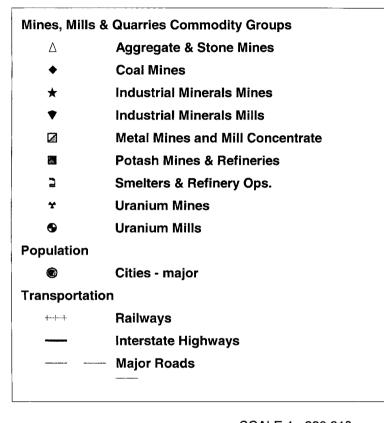
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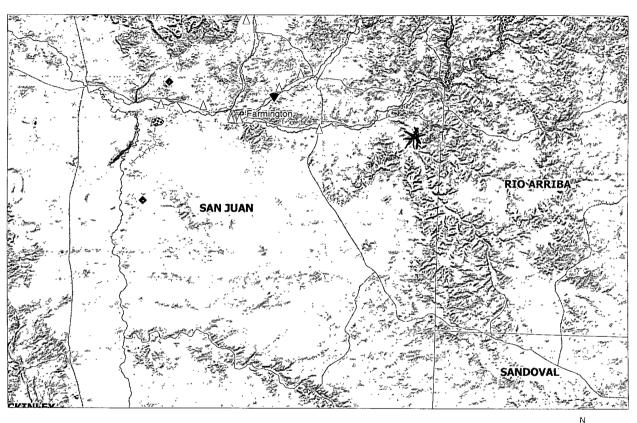
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TOP SIGNT.			pose SAHd Some Shale	35			
TOP SCREEN							
INCH PVC 0.010 SCED 40 FLUSH INT THREADED SCREEN				25			
STM SCREEN F-RIAGE ROO WITH CONCLY ON YEM TOTAL DEPTH			Gray Shale: Some SAND STONE	35			
Well Materials Used: Sks 10-12 Silica Sand			SAND STONY	1/0			
Siks Remionite Chips Siks Class "A" Coment Siks Quickerete			SANDSTONE #5 GRAY Shale DRV. WAIT IAT FOR WATER 65				
Fit Blank Cresing Fit Screen Well Development:			No water				
Balled Panaped Gallens of Water		(S ₁ (u)	Gray Shale Dry Lanted getting moist Dark Gray eatherd Sand Stone	90			
Remarks:			MOIST WEATHERD SANDI STONY	110			
			NOIST SAME WAIT FOR WATER	1/5			
DRILLER: Kelly Padill HIPPER: Kimo / Carlo		ZE: 6" BORING DEF	LOCATION: MAN MC MANUS 13	i R			
DRILLING COMPANY: KYVE DRILLING METHOD: Auger	L DATE ALR SAMPL	STARTED: _ER_TYPE:	8/25/09 DATE COMPLETED 8 /25/10 GEOLOGIST:	<u>9.</u>			
Note: SS = Split Spoon A = A	Auger c5 = 5 ft	Kyvek End	rgy Services, Inc. mental Drilling				
REVISIONS BY DATE JOB #		134 Azte	Road 3000	AGE			



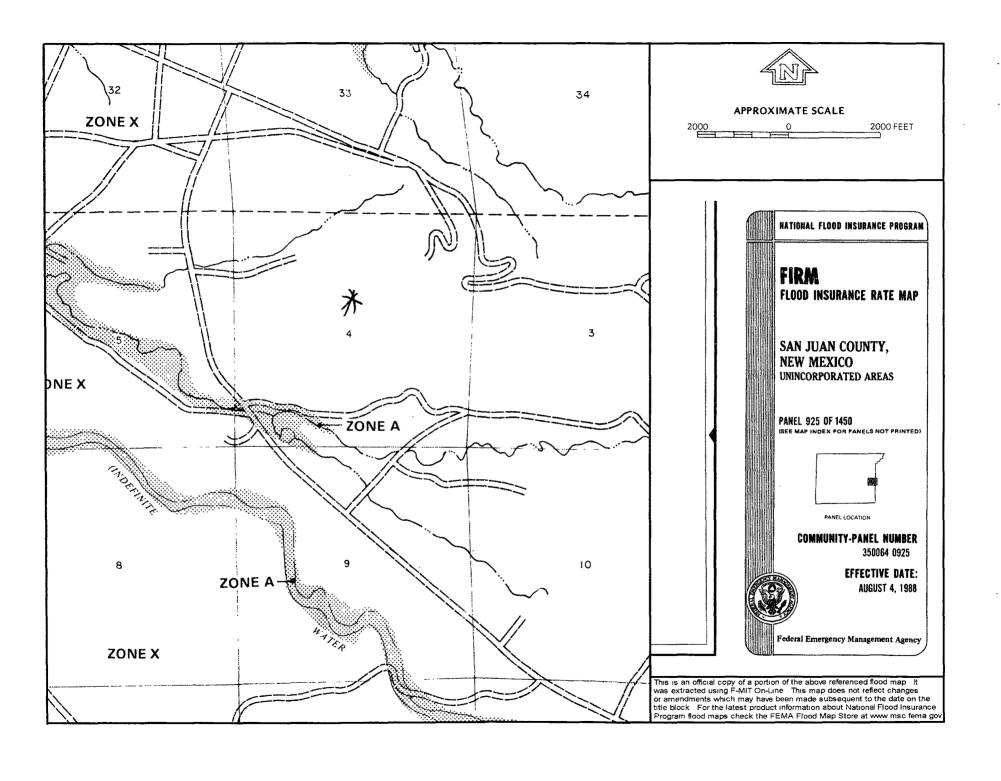
MCMANUS 13R MINES MILLS & QUARRIES











Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The McManus 13R is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. A test well was drilled on the subject well to 115', groundwater was found @ 101', therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

Hydrogeological Report for McManus 13R

Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it commformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper

552, 101 p.

Professional Paper 676, 76 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207. Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230. Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS

Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

Jaramillo, Marie E

From:

Jaramillo, Marie E

Sent:

Tuesday, September 08, 2009 2:22 PM

To:

'mark_kelly@nm.blm.gov'

Subject:

OCD PIT CLOSURE NOTIFICATION 090809

Importance:

High

Mark

The temporary pit at the Well Name will be closed on-site. The new OCD Pit Rule 17 requires the surface owner be notified. Please let me know if you have any questions.

SAN JUAN 31-6 UNIT 39M SAN JUAN 31-6 UNIT 31P MCMANUS 13R SAN JUAN 31-6 UNIT 6F SAN JUAN 28-5 UNIT 91P

Marie Jaramillo

Staff Regulatory Tech. ConocoPhillips Office # (505) 326-9865 Fax # (505) 599-4062 mailto:marie.e.jaramillo@conocophillips.com DISTRICT I 1825 N. Prench Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

- 4

DISTRICT III 1000 Rio Brasos Rd., Astec, N.M. 87410

PC SW/160

2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ^a Pool Code ^a Pool Name						
30-039-	71439 Ballard Pictured Cliffs					
⁴ Property Code	'Pr	operty Name	* Well Number			
7309	Mc)	MANUS	13R			
OGRAD No.	* Op	erator Name	⁹ Elevation			
14538	BURLINGTON RESOURCES	S OIL AND GAS COMPANY LP	6481'			

10 Surface Location

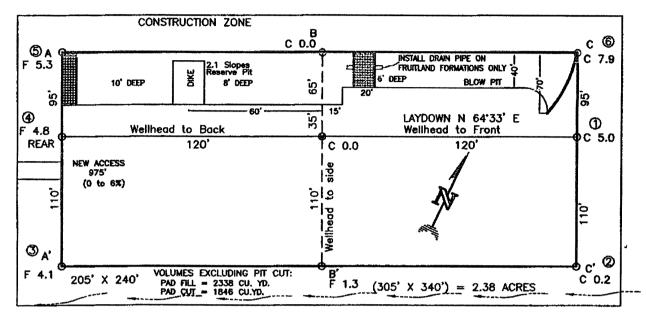
١	UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
	Κ	4	25-N	8W		1810'	SOUTH 1445'		WEST	SAN JUAN
	¹¹ Bottom Hole Location If Different From Surface									
	UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
				<u> </u>						د
	19 Dedicated Acres		18 Joint or	infill	4 Consolidation C	ode	¹⁶ Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

18	OR A NON-STAN	IDARD UNIT HAS B	EEN APPROVED	BY 7	THE DIVISION
LOT 4	FOT 3	LOT 2	LOT 1		17 OPERATOR CERTIFICATION 1 hereby certify that the information contained herein is true and complete to the best of any knowledge and belief
FD 3 1/4" B.L.M. BC 1954					Joni Clark Printed Name Regulatory Specialist Title 3-19-04 Date
USA NM-0 1445' W (X)	4226 LAT: 36'25.6529' ONG: 107'41.437	N. (NAD 27) 71' W. (NAD 27)			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platfed from field notes of actual surveys made by mae or under my supervision, and that the same is true and correct to the best of my beltaf. Date of Supply Bignature and Sahl bi Princepaginal Surveyor:
N 00-12-33 E 2639.24' (M) 81. M B.L.	5 89-23-50 E 2614.08' (C)	CALC'D CORNER WITNESS C FD 3 1/4' BLM 1954 N 89-23- 99.0' (C)	ORNER 'BC		Signature and sold of Pricessianal Surveyor:

BURLINGTON RESOURCES OIL & GAS COMPANY LP McMANUS No. 13R, 1810 FSL 1445 FWL SECTION 4, T-25-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6481, DATE: FEBRUARY 19, 2004

1



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE), BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. C/L ELEV. A-A 6490 6480 6470 6460 C/L ELEV. B-B' 6490 6480 6470 6460 ELEV. C-C' C/L 5 6490 6480 # (§ 6470 6460 NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Burlington Resources Oil & Gas Company, LP San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000(500)

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A 3.0
Western wheatgrass	Arriba	
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.