r <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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 July 21, 2008 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.
	Pit, Closed-Loop System, Below-Grad	
<u>Propos</u>	ed Alternative Method Permit or Closur	re Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade ta Closure of a pit, closed-loop system, below-grade t	
	Modification to an existing permit Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one a	pplication (Form C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request
	f this request does not relieve the operator of liability should operations re eve the operator of its responsibility to comply with any other applicable	-
1 Operator: Burlington Resources Oi	l & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingto		
Facility or well name. GRENIER 1		
API Number:	OCD Permit Numbe	er:
U/L or Qtr/Qtr: Section	on: <u>7</u> Township: <u>31N</u> Range: <u>1</u>	1W County: San Juan
Center of Proposed Design: Latitude		-108.03314°W NAD: X 1927 1983
Surface Owner: Federal	X State Private Tribal Trust or Indian	
Pit: Subsection F or G of 19.15.1	7.11 NMAC	
	kover	
	Cavitation P&A	
	ner type: Thickness mil LLDPE	HDPE PVC Other
String-Reinforced		
Liner Seams: Welded F	actory Other Volume:	bbl Dimensions L x W x D
3 Closed-loop System: Subsect Type of Operation: P&A	ion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent)	activities which require prior approval of a permit or
Drying Pad Above Grou	nd Steel Tanks Haul-off Bins Other	· · · ·
		IDPE PVD Other
Liner Seams: Welded F	actory Other	
4 X Below-grade tank: Subsection Volume: 120 bt	I of 19.15.17.11 NMAC bl Type of fluid: Produced Water	
Tank Construction material:	Metal	
Secondary containment with leak d	etection X Visible sidewalls, liner, 6-inch lift and auto	omatic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	
Liner Type: Thickness	milHDPEPVCXOther	Unspecified
5 Alternative Method:		
	quired. Exceptions must be submitted to the Santa Fe Environ	nmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

1						
 <u>Fencing:</u> 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 <u>4' hog wire fencing topped with two strands harbed wire.</u>						
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other						
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: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
¹⁰ <u>Siting Criteria (regarding permitting)</u> : 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	ΧNο				
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	X No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	ΧΝυ				
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image						
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 XNA	□ 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	XNo				
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	XNo				
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo				
Within the area overlying a subsurface mine. 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 Society; Topographic map	Yes	XNo				
Within a 100-year floodplain - FEMA map	Yes	XNo				

Oil Conservation Division

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Temporary Pite Eme		
to provide Fach of the	ergency Pits and Below-grade Tanks Permit Appli	cation Attuchment Checklist: Subsection B of 19.15.17.9 NMAC se indicate, by a check mark in the box, that the documents are attached.
		ments of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
		he requirements of Paragraph (2) of Subsection B of 19.15.17.9
	Compliance Demonstrations - based upon the appropri	• • • •
	ased upon the appropriate requirements of 19.15.17.1	•
	Maintenance Plan - based upon the appropriate require	•
	• • • •	based upon the appropriate requirements of Subsection C of
	AC and 19.15.17.13 NMAC	
Previously Approved	ed Design (attach copy of design) API	or Permit
12 Closed-loon Systems I	Permit Application Attachment Checklist: Subsect	ion B of 19 15 17 9 NMAC
		se indicate, by a check mark in the box, that the documents are attached.
Geologic and Hy	ydrogeologic Data (only for on-site closure) - hased u	pon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria C	Compliance Demonstrations (only for on-site closure)	- based upon the appropriate requirements of 19.15.17.10 NMAC
🔲 Design Plan - ba	ased upon the appropriate requirements of 19.15.17.1	I NMAC
Operating and M	Maintenance Plan - based upon the appropriate require	ments of 19.15.17.12 NMAC
Closure Plan (Pl	lease complete Boxes 14 through 18, if applicable) - t	based upon the appropriate requirements of Subsection C of 19.15.17
NMAC and 19.1	15.17.13 NMAC	
Previously Approved	ed Design (attach copy of design) API	
Previously Approved	ed Operating and Maintenance Plan API	
13		
Permanent Pits Permi	nit Application Checklist: Subsection B of 19.15.1	7.9 NMAC
Instructions: Each of the	e following items must be attached to the application. Ple	ase indicate, by a check mark in the box, that the documents are attached
	Report - based upon the requirements of Paragraph (1)	
<u> </u>	Compliance Demonstrations - based upon the appropri	ate requirements of 19.15.17.10 NMAC
	Factors Assessment	
	eering Design Plans - based upon the appropriate requ	
	and Structural Integrity Design: based upon the appro	
=	Design - based upon the appropriate requirements of tions and Compatibility Assessment - based upon the a	
	Quality Assurance Construction and Installation Plan	
	Maintenance Plan - based upon the appropriate require	
Freeboard and O	Overtopping Prevention Plan - based upon the appropr	iate requirements of 19.15.17.11 NMAC
Nuisance or Haz	zardous Odors, including H2S, Prevention Plan	
Emergency Resp	ponse Plan	
Emergency Resp	Stream Characterization	
Emergency Resp Oil Field Waste S Monitoring and I	Stream Characterization Inspection Plan	
Emergency Resp Oil Field Waste \$ Monitoring and I Erosion Control	Stream Characterization Inspection Plan Plan	
Emergency Resp Oil Field Waste \$ Monitoring and I Erosion Control	Stream Characterization Inspection Plan	C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Proposed Closure: 19	Stream Characterization Inspection Plan Plan vased upon the appropriate requirements of Subsection	
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Instructions: Please comp	Stream Characterization Inspection Plan Plan Deased upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar	ds to the proposed closure plan.
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Instructions: Please comp	Stream Characterization Inspection Plan Plan Deased upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar	
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative	Stream Characterization Inspection Plan Plan pased upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A	ds to the proposed closure plan.
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling	Stream Characterization Inspection Plan Plan Pased upon the appropriate requirements of Subsection 9.15.17.13 NMAC Papete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A Cavitation P&A	ds to the proposed closure plan.
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative	Stream Characterization Inspection Plan Plan Pased upon the appropriate requirements of Subsection 9.15.17.13 NMAC Paper the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A Cavitation P&A Waste Excavation and Removal (Belo Waste Removal (Closed-loop systems only)	rds to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System w-Grade Tank)
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative	Stream Characterization Inspection Plan Plan based upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p	rds to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems)
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative	Stream Characterization Inspection Plan Plan Pased upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tree	rds to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench
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Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba I4 Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho	Stream Characterization Inspection Plan Plan Pased upon the appropriate requirements of Subsection [9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must	rds to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration)
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho Sate Excavation and	Stream Characterization Inspection Plan Plan Pased upon the appropriate requirements of Subsection [9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must d Removal Closure Plan Checklist: (19.15.17.13 NMA	rds to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho 15 Waste Excavation and Please indicate, by a chece	Stream Characterization Inspection Plan Plan Passed upon the appropriate requirements of Subsection [9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must d Removal Closure Plan Checklist: (19.15.17.13 NM. ck mark in the box, that the documents are attached.	rds to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration) AC) Instructions: Each of the following items must be attached to the clo
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho S Waste Excavation and Please indicate, by a chee X Protocols and Pro	Stream Characterization Inspection Plan Plan Passed upon the appropriate requirements of Subsection 9.15.17.13 NMAC aplete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must d Removal Closure Plan Checklist: (19.15.17.13 NM. teck mark in the box, that the documents are attached. rocedures - based upon the appropriate requirements of	rds to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration) AC) Instructions: Each of the following items must be attached to the classif 19.15.17.13 NMAC
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho 15 Waste Excavation and Please indicate, by a chece X Protocols and Pro X Confirmation Sar	Stream Characterization Inspection Plan Plan Plan Seased upon the appropriate requirements of Subsection 9.15.17.13 NMAC Sease applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A Od: XWaste Excavation and Removal Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Code mark in the box, that the documents are attached. Focedures - based upon the appropriate requirements of Code ampling Plan (if applicable) - based upon the appropriate	rds to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration) AC) Instructions: Each of the following items must be attached to the cla of 19.15.17.13 NMAC ate requirements of Subsection F of 19.15.17.13 NMAC
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho Is Waste Excavation and Please indicate, by a chece X Protocols and Pro X Confirmation Sar X Disposal Facility	Stream Characterization Inspection Plan Plan Plan Seased upon the appropriate requirements of Subsection 9.15.17.13 NMAC splete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A Od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Coccdures - based upon the appropriate requirements o Compliant Plan (if applicable) - based upon the appropriate Name and Permit Number (for liquids, drilling fluids)	rds to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration) AC) Instructions: Each of the following items must be attached to the clo of 19.15.17.13 NMAC ate requirements of Subsection F of 19.15.17.13 NMAC is and drill cuttings)
Emergency Resp Oil Field Waste S Monitoring and I Erosion Control I Closure Plan - ba Id Proposed Closure: 19 Instructions: Please comp Type: Drilling Alternative Proposed Closure Metho Sold State Excavation and Please indicate, by a checo X Protocols and Prev Soil Backfill and	Stream Characterization Inspection Plan Plan Plan Seased upon the appropriate requirements of Subsection 9.15.17.13 NMAC splete the applicable boxes, Boxes 14 through 18, in regar Workover Emergency Cavitation P&A Od: XWaste Excavation and Removal (Belo Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary p In-place Burial On-site Tre Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Alternative Closure Method (Exceptions must Coccdures - based upon the appropriate requirements o Compliant Plan (if applicable) - based upon the appropriate Name and Permit Number (for liquids, drilling fluids)	rds to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System w-Grade Tank) its and closed-loop systems) ench be submitted to the Santa Fe Environmental Bureau for consideration) AC) Instructions: Each of the following items must be attached to the cla of 19.15.17.13 NMAC ate requirements of Subsection F of 19.15.17.13 NMAC is and drill cuttings) priate requirements of Subsection H of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.45.17.13.D NMAC Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two) o 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 activities occur on or in areas that will not be used for future Yes (If yes, please provide the information No	service and op	erations?
Required for impacted areas which will not be used for future service and operations:		
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NM Re-vcgetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	AC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC		•
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided b		
certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to t for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	he Santa Fe Envira	onmental Bure
Ground water is less than 50 feet below the bottom of the buried waste.	Yes	N₀
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells		
Ground water is between 50 and 100 feet below the bottom of the buried waste	□ □ Yes	
- 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.		ΠNο
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		
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).		∐N₀
- Topugraphic 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.	Yes	No
- 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		
 NM Office of the State Engineer - iWATERS database; 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	Yes	∏ No
pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Written approval obtained from the municipality		
Within 500 feet of a wetland	Yes	ΠNο
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		_
Within the area overlying a subsurface mine.	Yes	No
- Written confiramtion 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 Society;		
Topographic map		_
Within a 100-year floodplain. - FEMA map	Yes	∐No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the close	Piece	. in dianta
by a check mark in the box, that the documents are attached.	we puint. Theas	e marcare,
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 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	10.16.17.1.17	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	19.15.17.11 NM	IAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	•	
Waste Material Sampling Plan - 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 or in case on-site closure standards control of the standards of the stan	annot be achiev	ed)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC		

aplete to the best of my knowledge and belief. :: Regulatory Technician :: 12/22/2008 hone: 505-326-9837 Plan (only) OCD Conditions (see attachment) Approval Date: CDPermit Number: CDPermit Number: S.17.13 NMAC ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) ee Above Ground Steel Tanks or Haul-off Bins Only: and drill cuttings were disposed. Use attachment if more than two facilities
Regulatory Technician Image: 12/22/2008 hone: 505-326-9837 Plan (only) OCD Conditions (see attachment) Image: Approval Date: Completion Date: Complete this section of the form until an S.17.13 NMAC ng any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date:
Regulatory Technician Image: 12/22/2008 hone: 505-326-9837 Plan (only) OCD Conditions (see attachment) Image: Approval Date: Completion Date: Complete this section of the form until an S.17.13 NMAC ng any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date:
hone: 505-326-9837 Plan (only) OCD Conditions (see attachment) Approval Date: ZAPEB 17 OCD Permit Number: MA 5.17.13 NMAC ing any closure activities and submitting the closure report. The closure iure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) ee Above Ground Steel Tanks or Haul-off Bins Only:
Plan (only) OCD Conditions (see attachment) Approval Date: 23496 17 OCD Permit Number: MA S.17.13 NMAC Ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) Re Above Ground Steel Tanks or Haul-off Bins Only:
Approval Date: CBNG 17 OCD Permit Number: MA 5.17.13 NMAC ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) the Above Ground Steel Tanks or Haul-off Bins Only:
Approval Date: CBACH 17_ OCD Permit Number: MA 5.17.13 NMAC ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) 2.23 2.2
Approval Date: CBACH 17_ OCD Permit Number: MA 5.17.13 NMAC ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) 2.23 2.2
OCD Permit Number: \overline A 5.17.13 NMAC
OCD Permit Number: \overline A 5.17.13 NMAC
5.17.13 NMAC ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) Re Above Ground Steel Tanks or Haul-off Bins Only:
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ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) Re Above Ground Steel Tanks or Haul-off Bins Only:
ing any closure activities and submitting the closure report. The closure aure activities. Please do not complete this section of the form until an Closure Completion Date: tive Closure Method Waste Removal (Closed-loop systems only) Re Above Ground Steel Tanks or Haul-off Bins Only:
Closure Completion Date: Waste Removal (Closed-loop systems only) We Above Ground Steel Tanks or Haul-off Bins Only:
tive Closure Method Waste Removal (Closed-loop systems only)
tive Closure Method Waste Removal (Closed-loop systems only)
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ze Above Ground Steel Tanks or Haul-off Bins Only:
osal Facility Permit Number:
osal Facility Permit Number:
s that will not be used for future service and opeartions?
must be attached to the closure report. Please indicate, by a check mark in
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re, accurate and complete to the best of my knowledge and belief. I also certify the
approved closure plan.
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Form C-144

Oil Conservation Division

	New	Mexico	Office	of th	e State	Engineer
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SJ 01551	31N	11W 1						64	42	22	
SJ 00560	31N	11W 1						39	25	14	
SJ 01729	31N	11W 1						48	28	20	
SJ 01541	31N	11W 1	-	-				52	30	22	
SJ 01539	31N	11W 1						. 52	30	22	
SJ 00946	31N	11W 1		3				135	100	35	
SJ 01540	31N	11W 1		5				52	30	22	•
SJ 01879	31N	11W 1						26	8	18	
SJ 01801	31N	11W 1						22	15	7	
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SJ 03264	31N	11W 1		22				20	11	9	
SJ 03124	31N	11W 1		24				20	5	15	
SJ 03125	31N	11W 1						20	5	15	
SJ 03712 POD1	31N	11W 1		31				19	11	8	
SJ 03018	31N	11W 1		34				20	8	12	
SJ 03670	31N	11W 1		34				26	10	16	
SJ 01538	31N	11W 1						52	30	22	
SJ_01683	31N	11W 1						45	25	20	
SJ 01731	31N	11W 1						43	25	18	
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SJ 01537	31N	11W 13	44				52	28	24
SJ 01542		11W 13	44						
SJ 01663	31N	11W 13	44				45	25	20
SJ 02093	31N	11W 13	44	W	470700	2143800	40	20	20
SJ 03440	31N	11W 13	441				20	6	14
SJ 03084	31N	11W 13	442				19	11	8
SJ 03085	31N	11W 13	442				18	8	10
SJ 02801	31N	11W 13	4 4 3				36	5	31
SJ 03064	31N	11W 13	443				45	-	• -
SJ 01142	31N	11W 13	444				30	8	22
SJ 02838	31N	11W 13	444				38	10	28
SJ 02855	31N	11W 13	444				31	10	20
SJ 01173	31N	11W 13	444				46	28	18
SJ 02289	31N	11W 13	444				45	16	29
SJ 03458	31N	11W 19	334				140	10	27
SJ 02978	31N	11W 23	213				800		
SJ 01817	31N	11W 23	2 4				65	20	45
SJ 02129	31N	11W 23	24				72	35	37
SJ 02161	31N	11W 23	34				40	25	15
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SJ 03695 POD1	31N	11W 24	142		207112	2142037	25	13	12
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SJ 01986	31N	11W 24	222				38	21	17
SJ 00555	31N	11W 24	224				60	19	41
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SJ 02846	_ 31N	11W 24	233				45	18	27
SJ 02888	31N	11W 24	233			·	65		
SJ 03650	31N	11W 24	233				32	15	17
<u>SJ 00555 X</u>	_ 31N	11W 24	24	•			58	39	19
SJ 02839	31N	11W 24	241				55	19	36
SJ 03707 POD1	_ 31N	11W 24	241				60	40	20
SJ 02758	_ 31N	11W 24 11W 24	242				69	- 51	18
<u>SJ 02791</u>	31N	11W 24 11W 24	242 244				74	54	20
SJ 00379		11W 24 11W 24	244				65 71	40 40	25 31
SJ 00365 SJ 01670		11W 24 11W 24	244 3				45	40 27	18
SJ 00287	31M	11W 24 11W 24	324				38	6	32
SJ 01553		11W 24	34				44	35	9
SJ 02171		11W 24	343				45	25	20
SJ 01366	31N	11W 24	41				30	11	19
SJ 02644	31N	11W 24	414				45	18	27
SJ 00913		11W 24	43				81	55	26
SJ 01405	31N	11W 24	43				30	9	20
SJ 01455	31N	11W 24	434				101	66	35
SJ 01047		11W 24	434				205	70	135
SJ 00405		11W 24	434				69	42	27
SJ 03438		11W 24 11W 24	444				40	14	21
SJ 03045		11W 25	144				200		
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SJ 02499	31N	11W 25	211		66	45	21
SJ 03198	31N	11W 25	331		600	100	500
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SJ 03450	31N	11W 25	3 3 3		144	95	49
SJ 03126	31N	11W 26	$1 \ 1 \ 1$		41	21	20
SJ 01233	31N	11W 26	14		49	27	22
SJ 03158	31N	11W 26	142		280	25	255
SJ 00675	31N	11W 26	143	·	36	22	14
SJ 02887	31N	11W 26	$1 \ 4 \ 4$	*	51	28	23
SJ 02898	31N	11W 26	214		50		
SJ 01789	31N	11W 26	31		29	12	17
SJ 00705	31N	11W 26	3 1 1		18	8	10
SJ 00371	31N	11W 26	3 1 2		29	9	20
SJ 03323	31N	11W 26	3 1 4		30	6	24
SJ 00363	31N	11W 26	3 1 4		25	5	20
SJ 01545 X	31N	11W 26	3 3		27	10	17
SJ 00926	31N	11W 26	4 1		62	32	30
SJ 01519	31N	11W 26	4 2		69	47	22
SJ 01620	31N	11W 26	42		67	26	41
SJ 00610	31N	11W 26	42		80	50	30
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SJ 01628	31N	11W 26	42		66	25	41
SJ 03697 POD1	31N	11W 26	423		80	50	30
SJ 00562	31N	11W 26	43		40	20	20
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SJ 01042	31N	11W 26	4 4		100	30	70
SJ 00494	31N	11W 26	4 4		88	60	28
SJ 02482	31N	11W 27	412		75	55	20
SJ 03600	31N	11W 27	421		51	39	12
SJ 03540	31N	11W 27	421		40	21	19
SJ 03772 POD1	31N	11W 27	4 2 1	268239 2135717	41	30	11
SJ 02914	31N	11W 27	4 2 3		25	15	10
SJ 02468	31N	11W 27	4 2 3		49	30	. 19
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SJ 02871	31N	11W 27	4 2 4		22	11	11
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SJ 02549	31N	11W 27	433		49	30	19
SJ 02853	31N	11W 27	434		22	6	16
SJ 02984	31N	11W 27	441		20		
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SJ 01884	31N	11W 30	423		71	30	41
SJ 01739	31N	11W 30	424		98	30	68
SJ 01154	31N	11W 30	424		190	150	40
SJ 01834	31N	11W 30	424		103	30	73
<u>SJ 01797</u>	31N	11W 30	44		100	40	60
SJ 01396	31N	11W 30	441		80	57	23
SJ 00970	31N	11W 30	444		110	80	30
SJ 01811	31N	11W 31	22		89	50	39
SJ 02994		11W 33	432		300	200	100
SJ 02993		11W 33	432		280	160	·120
SJ 01137		11W 33	444		37	19	18
SJ_02277		11W 34	12		16	7	9
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SJ 01533		11W 34	14		58	40	18
SJ 01251	31N	11W 34	14		79	65	14
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SJ 01125	31N	11W 34	142			59	42	17
SJ 01657	- 31N	11W 34	2			20	6	14
SJ 01675	31N	11W 34	2			33	7	26
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SJ 00632	-							
SJ 01656	31N	11W 34	2			20	6	14
SJ 00656	31N	11W 34	2			30	8	22
SJ 00631	_ 31N	11W 34	2			30	11	19
SJ 03448	31N	11W 34	2 1			41	21	20
SJ 01267	. 31N	11W 34	2 1		*	65	45	20
<u>SJ 01618</u>	_ 31N	11W 34	2 1			28	8	20
SJ 01840	31N	11W 34	2 1 1			65	25	40
<u>SJ 03316</u>	_ 31N	11W 34	2 1 1			30	10	20
SJ 00660	_ 31N	11W 34	2 1 1			50	30	20
SJ 01768	31N	11W 34	22			20	6	14
SJ 01721	31N	11W 34	2 2			22	10	12
SJ 03172		11W 34	222			19	7	12
SJ 03047		11W 34	224			19	6	13
SJ 02119	31N	11W 34	2 3			11	3	8
SJ 02113	31N	11W 34	2 3			12	4	8
SJ 00659	31N	11W 34	2 3			33	11	22
SJ 00661	31N	11W 34	231			52	32	20
SJ 02972		11W 34	234			15	5	10
SJ 03107	31N	11W 34	2 4 1			18	8	10
SJ 03106	- 31N	11W 34	2 4 1			25	0	10
SJ 03183	- 31N	11W 34	2 4 4				6	1 3
SJ 03780 POD1	- 31N	11W 34 11W 34	3 1 2	267922	2130341	19	6 12	13
SJ 02859	_ 31N	11W 34 11W 34	3 1 4	201922	2130341	28		16
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<u>SJ 02967</u>	_ 31N	11W 34	323			20	5	15
SJ 02856	_ 31N	11W 34	3 2 3			24	6	18
SJ 02852	_ 31N	11W 34	3 2 3			23	7	16
SJ 03065	_ 31N	11W 34	3 2 3			22	7	15
SJ 03025	_ 31N	11W 34	3 2 3			22	5	17
SJ 03014	_ 31N	11W 34	3 2 4			30	5	25
SJ 03002	31N	11W 34	3 2 4			22	_	
SJ 02861	_ 31N	11W 34	3 3 1			21	7	14
SJ 03220	31N	11W 34	3 3 1			20	6	14
SJ 03042	31N	11W 34	3 3 2			23	6	17
SJ 03710 POD1	_ 31N	11W 34	3 3 2		·	20	4	16
SJ 03048	_ 31N	11W 34	334			21	4	17
<u>SJ 02857</u>	_ 31N	11W 34	341.			23	6	17
SJ 03492	_ 31N	11W 34	3 4 2			30	_	
<u>SJ 03631</u>	31N	11W 34	3 4 2			27	6	21
SJ 03493	_ 31N	11W 34	3 4 2			25	. 15	10 .
<u>SJ 03357</u>	_ 31N	11W 34	3 4 2			22	6	16
SJ 03260	_ 31N	11W 34	344			41	3	38
SJ 03609	_ 31N	11W 34	344			27	6	21
SJ 01608	_ 31N	11W 34	4			48	17	31
SJ 03720 POD1	31N	11W 34	413			21	6	15
SJ 03497	_ 31N	11W 34	414			30	10	20
SJ 03402	31N	11W 34	414			25		
SJ 03377	_ 31N	11W 34	424			20	2	18
SJ 03016	31N	11W 34	431			35		
SJ 03739 POD1	31N	11W 34	431			25	3	• 22
SJ 02966	24	11W 34	433			48	20	28
SJ 00985	31N	11W 34	4 4			40	16	24
SJ 02827	31N	11W 35	1 1 2			40 60		
SJ 03371	31N	11W 35	1 1 3			21	5	16
SJ 02902	31N	11W 35	1 1 3			19	5	14
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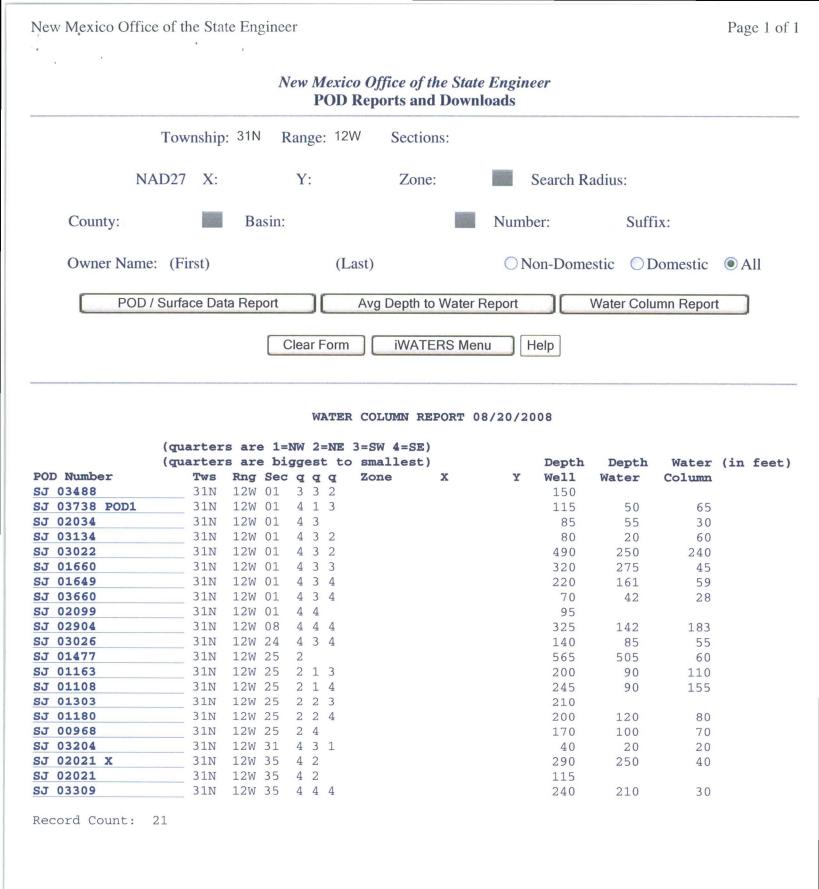
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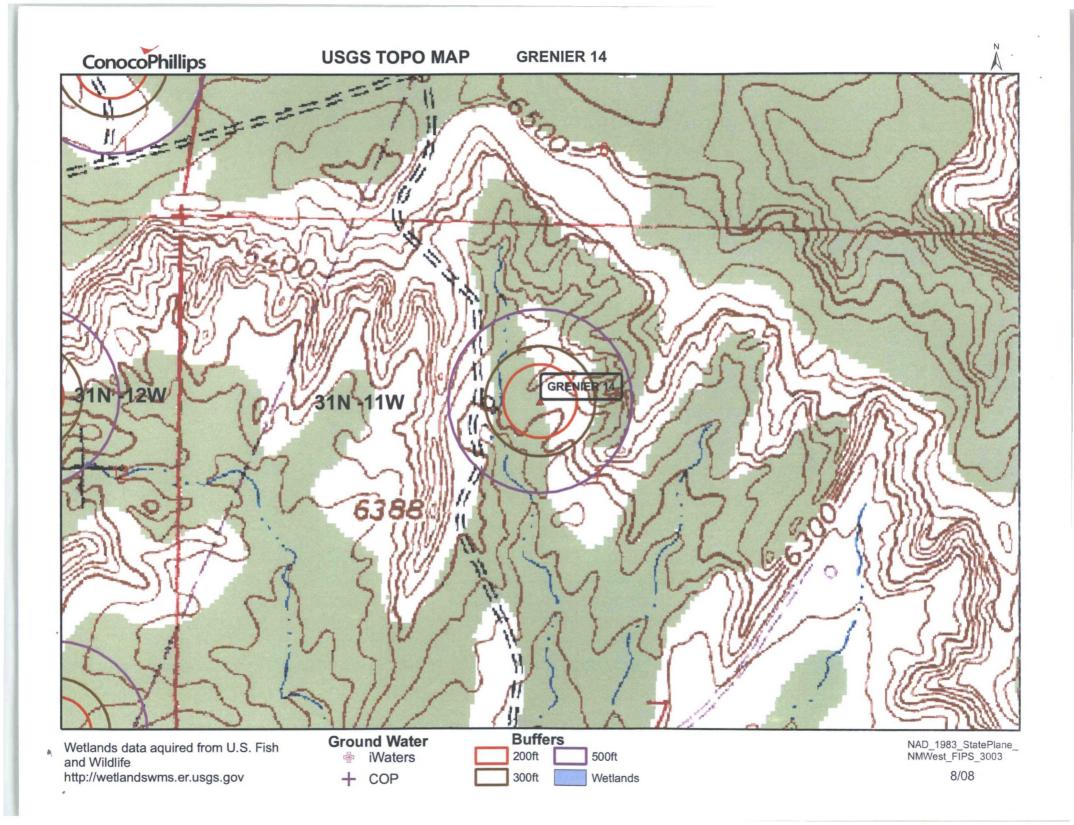
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SJ 01319	21 N	11W 35	222
SJ 00185	31N	11W 35	23
SJ 03676	31N	11W 35	231
<u>SJ 03560</u>	31N	11W 35	232
SJ 03165	31N	11W 35	244
SJ 03166	31N	11W 35	244
SJ 00983	31N	11W 35	3
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SJ 00940	31N	11W 35	31
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SJ 02933	31N	11W 35	312
SJ 03574	31N	11W 35	314
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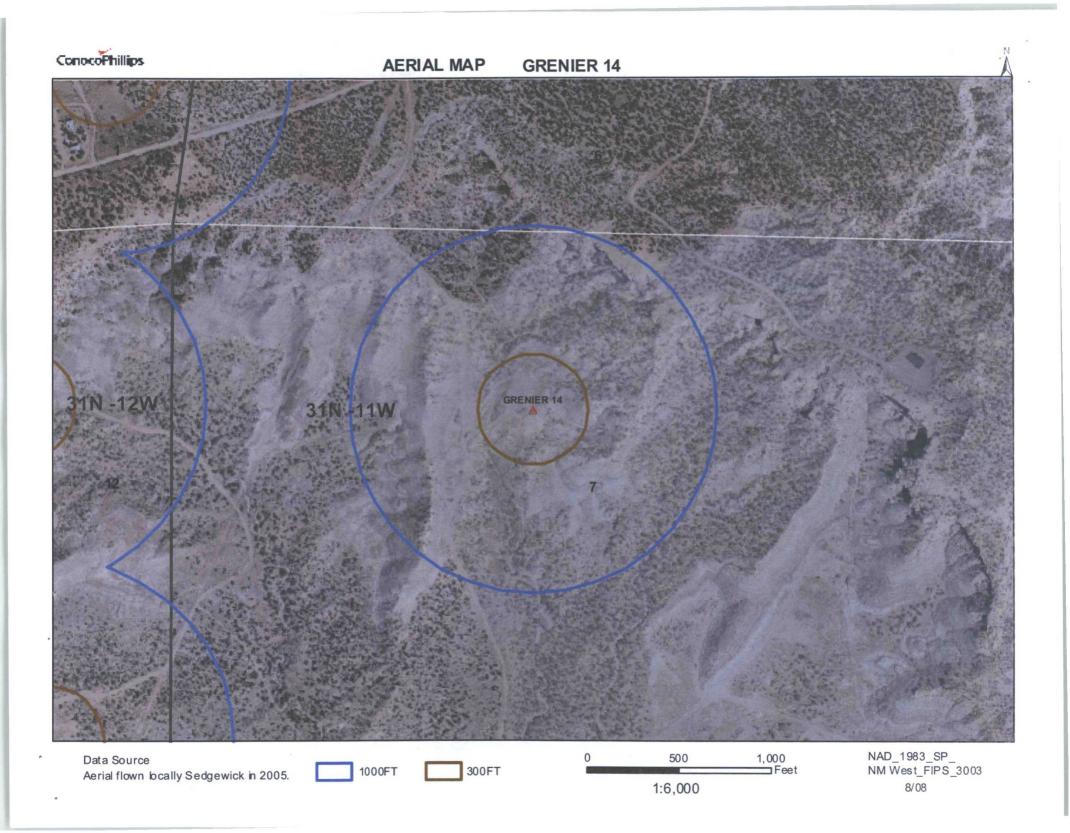
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268465	2130772	43	12	31
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		110	70	40
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		64	15	49
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Record Count: 229





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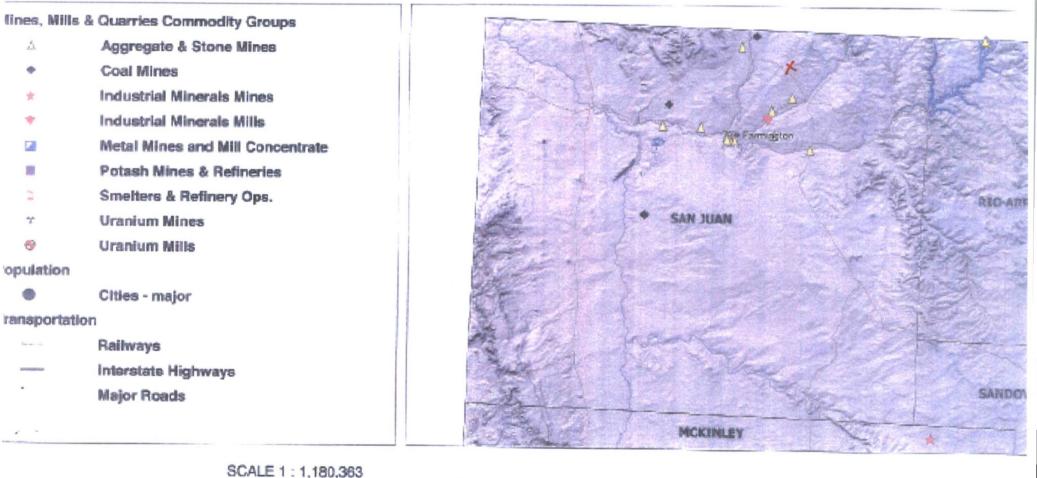
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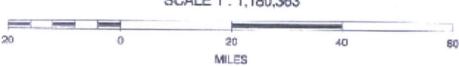
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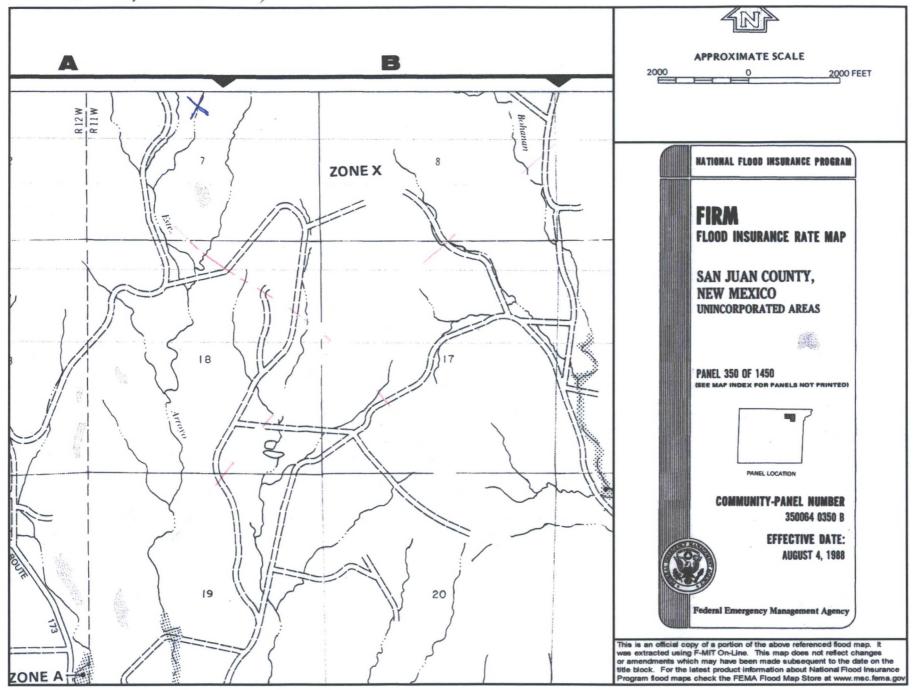
Mines, Mills and Quarries Web Map

Unit Letter: C, Section: 07, Town: 031N, Range: 011W





Grenier 14



GRENIER 14

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'GRENIER 14', which is located at 36.91762 degrees North latitude and 108.03314 degrees West longitude. This location is located on the Abode Downs Ranch 7.5' USGS topographic quadrangle. This location is in section 7 of Township 31 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan county, New Mexico. The nearest town is Aztec, located 7.0 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 15.9 miles to the southwest (National Atlas). The nearest highway is State Highway 574, located 2.1 miles to the southwest. The location is on BLM land and is 2,252 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 99 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 403 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,113 feet to the southeast. The nearest water body is 4,063 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 16,343 feet to the east. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,133 feet to the northwest. There is no wetland data available for this area. The slope at this location is 6 degrees to the west as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 4.6 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

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 conformably 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:

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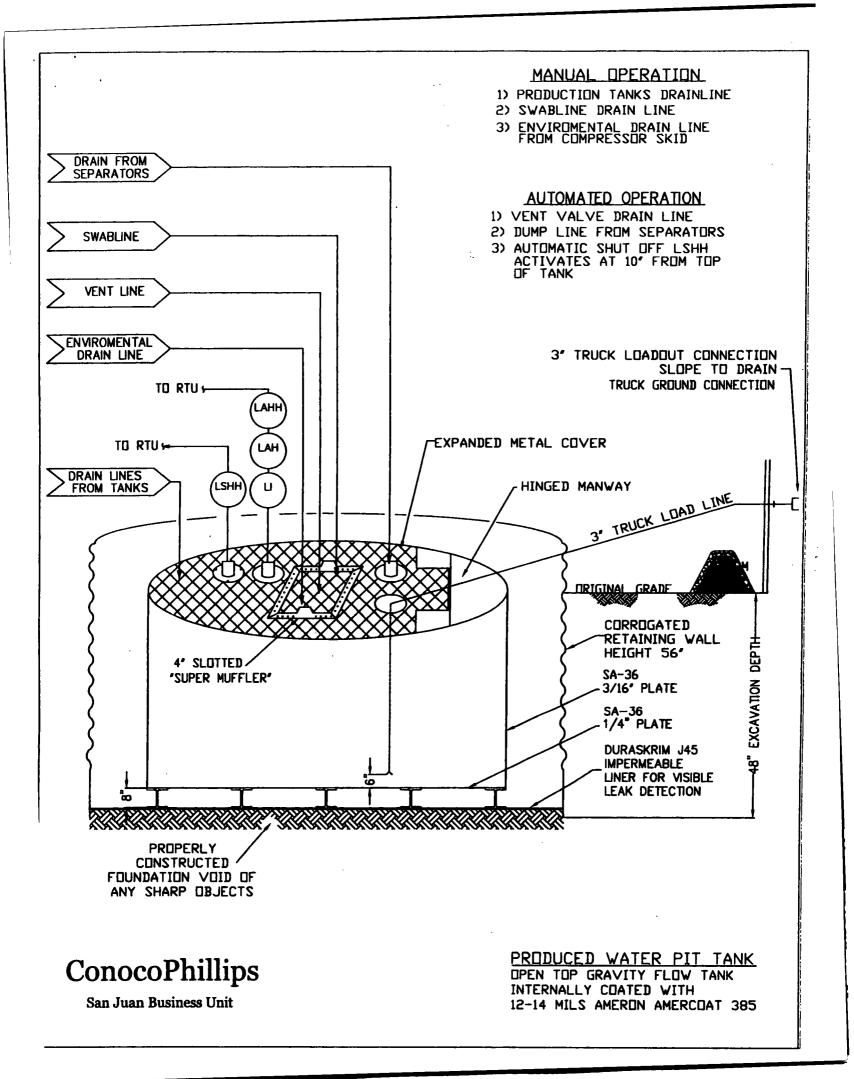
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.





PROPERTIES	TEST METHOD	J3	OBB	J36	8 8	J45	8 8
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 ibs	24 lbs	25 lbs	31 lbs
1* Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @. Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 ibf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

MD = Machine Direction DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

*Dimensional Stability Maximum Value

**DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO: no guarantee of satisfactory results from reliance upon contained information or recommendations and discialins all liability for resulting loss or damage.

PLANT LOCATION

SALES OFFICE

Sioux Falls, South Dakota

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX 800-635-3456

RAVEN INDUSTRIES

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or other EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

11/5/2008

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. 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
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping 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.
- 11. 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 federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. 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.
- 13. 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 the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice

30.045.10952

OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19.15.17.9 Permit application

Signed C-144 (Page 5 of C-144)

Site Specific Hydrogeology

19.15.17.10 Siting requirements

New Mexico Office of State Engineer attachment
 USGS TOPO map
 Aerial Map
 Mines, Mills and Quarries Web Map
 FIRM map (flood insurance rate map from Federal Emergency Management Agency)

19.15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

Requirements: None

Registration Date: 23Feb17