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-14 July 21, 200 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. Flatois Dr., Sana P., 144 07505	Pit, Closed-Loop System, Below-Grad	e Tank, or
Prope	osed Alternative Method Permit or Closur	
Type of action:	X Permit of a pit, closed-loop system, below-grade to	ank or proposed alternative method
Type of denom	Closure of a pit, closed-loop system, below-grade	
	Modification to an existing permit	
	Closure plan only submitted for an existing permit	ted or non-permitted nit closed-loon system
	below-grade tank, or proposed alternative method	and of non permitted pity closed roop systems,
Instructions: Please submit one	application (Form C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request
Please be advised that approva	l of this request does not relieve the operator of liability should operations n	esult in pollution of surface water, ground water or the
environment. Nor does approval r	elieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources (Dil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farming		14556
Facility or well name: SHIOTAN		
	And the second sec	
API Number:	3004533183 OCD Permit Number	
	I 0	2W County: San Juan -108.12509°W NAD: X 1927 1983
Center of Proposed Design: Latitu	de: 36.74395°N Longitude:	-108.12509°W NAD: X 1927 1983
Surface Owner: Federal	State X Private Tribal Trust or Indian	
Surface Owner: Federal Pit: Subsection F or G of 19.15 Temporary: Drilling Wei Permanent Emergency Image: Constrained Lined Unlined String-Reinforced Image: Constrained	State X Private Tribal Trust or Indian	
Surface Owner: Federal Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded	State X Private Tribal Trust or Indian Trust or Indian Trust or Ind	HDPE PVC Other
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling W4 Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded 3 Closed-loop System: Subse	State X Private Tribal Trust or Indian Trust or Ind	Allotment
Surface Owner: Federal Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded	State X Private Tribal Trust or Indian Trust or Ind	HDPE PVC Other
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wa Permanent Emergency Wa Lined Unlined String-Reinforced Liner Seams: Welded Main 3 Closed-loop System: Subset Type of Operation: P&A	State X Private Tribal Trust or Indian Trust	Allotment
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wu Permanent Emergency Wu Lined Unlined Unlined String-Reinforced Unlined String-Reinforced Liner Seams: Welded Subsection 3 Closed-loop System: Subsection Type of Operation: P&A Drying Pad Above Group	State X Private Tribal Trust or Indian Trust or Indian Trust or Ind	Allotment
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wa Permanent Emergency Wa Lined Unlined Wa String-Reinforced Unlined Walded 3 Closed-loop System: Subset Type of Operation: P&A Drying Pad Above Grader Lined Unlined Lined	State X Private Tribal Trust or Indian Trust or Indian Trust or Ind	Allotment HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Weiling Permanent Emergency Weilined Lined Unlined Weilined String-Reinforced Unlined String-Reinforced Liner Seams: Weilded Weilded 3 Closed-loop System: Subsector Type of Operation: P&A Drying Pad Above Greation Lined Unlined Lined Lined Weilded Mediced	State X Private Tribal Trust or Indian State X Private Tribal Trust or Indian (17.11 NMAC Orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume: Ction H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) ound Steel Tanks Haul-off Bins Other ner type: Thickness mil LLDPE H	Allotment HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wa Permanent Emergency Wa Lined Unlined Wa String-Reinforced Unlined Walded 3 Closed-loop System: Subset Type of Operation: P&A Drying Pad Above Grader Lined Unlined Lined	State X Private Tribal Trust or Indian .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume: ction H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) ound Steel Tanks Haul-off Bins Other her type: Thickness mil LLDPE Factory Other	Allotment HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wa Permanent Emergency Wa Lined Unlined Wa String-Reinforced Unlined Wa Iter Seams: Welded Wa 3 Closed-loop System: Subset Type of Operation: P&A P&A Drying Pad Above Grading Liner Liner Seams: Welded Mathematical String 4 4 Mathematical String Mathematical String	State X Private Tribal Trust or Indian .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume: ction H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) ound Steel Tanks Haul-off Bins Other her type: Thickness mil LLDPE Factory Other	Allotment HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wu Permanent Emergency Wu Lined Unlined Wu String-Reinforced Liner Seams: Welded 3 Closed-loop System: Subsection 7ype of Operation: P&A Drying Pad Above Grade Liner Seams: Welded Liner Seams: Welded	State X Private Tribal Trust or Indiar .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume:	Allotment HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Weiling Permanent Emergency Weiling Lined Unlined String-Reinforced Liner Seams: Welded Weilined 3 Closed-loop System: Subset Type of Operation: P&A Drying Pad Above Growth Liner Seams: Welded Liner Seams: Welded	State X Private Tribal Trust or Indiar .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume:	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Weights Permanent Emergency Weights Lined Unlined String-Reinforced Liner Seams: Welded Weights 3 Closed-loop System: Subsection Type of Operation: P&A Drying Pad Above Grade Liner Seams: Welded 4 X Below-grade tank: Subsection Volume: 120 Tank Construction material: Test State	State X Private Tribal Trust or Indiar .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume:	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling With Permanent Emergency With Lined Unlined Unlined String-Reinforced Liner Seams: Welded 3 Closed-loop System: Subsection Type of Operation: P&A Drying Pad Above Grade Liner Seams: Welded 4 X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak	State X Private Tribal Trust or Indiar .17.11 NMAC orkover Cavitation P&A Liner type: Thickness mil LLDPE Factory Other Volume: Image: Construction of the construp of the construction of the construction of the con	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Weiling Permanent Emergency Weilined Lined Unlined Weilined String-Reinforced Unlined Weilined 3 Closed-loop System: Subsection 7 Drying Pad Above Grade 1 Lined Unlined Line 2 Drying Pad Above Grade Line 4 X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak Visible sidewalls and liner Liner Type: Thickness Subsection	State X Private Tribal Trust or Indiar .17.11 NMAC orkover	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other matic overflow shut-off
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Weiling Permanent Emergency Weilined Lined Unlined Weilined String-Reinforced Unlined Weiled 3 Closed-loop System: Subsection 7 Drying Pad Above Greater Lined Unlined Line Liner Seams: Weided Weided Lined Unlined Line Lined Unlined Line Lined Unlined Line Volume: 120 Tank Construction material: Secondary containment with leak Visible sidewalls and liner	State X Private Tribal Trust or Indiar .17.11 NMAC orkover	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other matic overflow shut-off
Surface Owner: Federal 2 Pit: Subsection F or G of 19.15 Temporary: Drilling Wi Permanent Emergency Wi Lined Unlined Wind String-Reinforced Liner Seams: Welded 3 Closed-loop System: Subsection 7 Drying Pad Above Grade 1 Drying Pad Above Grade 2 Drying Pad Subsection 4 Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak Visible sidewalls and liner Liner Type: 5 Alternative Method:	State X Private Tribal Trust or Indiar .17.11 NMAC orkover	Allotment HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other matic overflow shut-off nspecified

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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, in	ustitution or chi	urch)
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 barbed wire.</u>		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)	_	
Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
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:		2
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	nsideration of a	pproval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
	T	
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	XNo
 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	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- 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.	Yes	No
(Applied to permanent pits)	XNA	
- 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.	2.4	
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
 Written confirmation of verification from the municipality; written approval obtained from the municipality 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 	Yes	XNo
Within an unstable area.	TYes	X No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		<u>ا</u>
Within a 100-year floodplain - FEMA map	Yes	XNo

the second s		and the second se		Subsection B of 19.15.17.9 NMAC	
-	rt (Below-grade Tanks) - based upo				
	(Temporary and Emergency Pits) -				
	liance Demonstrations - based upo				
	upon the appropriate requirements				
	enance Plan - based upon the appro				
	complete Boxes 14 through 18, if a			uirements of Subsection C of	
	nd 19.15.17.13 NMAC	application) - based up	on the appropriate requ		
Previously Approved De	sign (attach copy of design)	API		or Permit	
Instructions: Each of the follow	geologic Data (only for on-site close	plication. Please indica ure) - based upon the	te, by a check mark in the requirements of Paragr	e box, that the documents are attached. aph (3) of Subsection B of 19.15.17.9 equirements of 19.15.17.10 NMAC	
Design Plan - based u	upon the appropriate requirements	of 19.15.17.11 NMA	С		
	enance Plan - based upon the appro				
Closure Plan (Please	complete Boxes 14 through 18, if a			uirements of Subsection C of 19.15.17.	9
NMAC and 19.15.17					
	sign (attach copy of design)	API			
Previously Approved Op	erating and Maintenance Plan	API		and the film of the second second	
	oplication Checklist: Subsection owing items must be attached to the a			the box, that the documents are attached.	
Hydrogeologic Repor	rt - based upon the requirements of	Paragraph (I) of Sub	section B of 19.15.17.9	NMAC	
Siting Criteria Comp	liance Demonstrations - based upor	n the appropriate requ	irements of 19.15.17.1	0 NMAC	
Climatological Factor					
	g Design Plans - based upon the app				
	Structural Integrity Design: based u		Contraction of the second s	7.11 NMAC	
	gn - based upon the appropriate req			IS 17 11 NIMAG	
	and Compatibility Assessment - bas ity Assurance Construction and Ins		ate requirements of 19	.13.17.11 NMAC	
	enance Plan - based upon the appro		F 19 15 17 12 NMAC		
	opping Prevention Plan - based upo			UNMAC	
	us Odors, including H2S, Preventio				
Emergency Response					
Oil Field Waste Strea					
Monitoring and Inspe					
Erosion Control Plan					
Closure Plan - based	upon the appropriate requirements	of Subsection C of 19	9.15.17.9 NMAC and 1	9.15.17.13 NMAC	
14			2 10 10 10 10		
Proposed Closure: 19.15.1					
	the applicable boxes, Boxes 14 throu				
Type: Drilling Wor Alternative	kover Emergency Cavitation	on P&A Pe	rmanent Pit X Below	-grade Tank Closed-loop System	
Proposed Closure Method:	X Waste Excavation and Removal	(Below-Grad	le Tank)		
	Waste Removal (Closed-loop sy				
	On-site Closure Method (only fo	or temporary pits and c	losed-loop systems)		
8 - C - C - C - C - C - C - C - C - C -	In-place Burial	On-site Trench			2.0
and the state of the state	Alternative Closure Method (Ex	ceptions must be subn	nitted to the Santa Fe Er	nvironmental Bureau for consideration)	
Please indicate, by a check ma	urk in the box, that the documents are	e attached.		llowing items must be attached to the close	ure plan.
Ξ	ures - based upon the appropriate re				
	ng Plan (if applicable) - based upon			F of 19.15.17.13 NMAC	
	ne and Permit Number (for liquids.			on H of 10 15 17 12 NB 44	
=	er Design Specifications - based up				
=	based upon the appropriate requirer				
X Site Reclamation Plan	 based upon the appropriate require 	irements of Subsectio	n G of 19.15.17.13 NN	IAC	

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		and an end of the second se
16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S</u> Instructions: Please identify the facility or facilities for the disposal of liquids, drilli are required.	iteel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) ing fluids and drill cuttings. Use attachment if more than two	facilities
Disposal Facility Name:	Disposal Facility Permit #:	
	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activi Yes (If yes, please provide the information No	ities occur on or in areas that will not be used for future	service and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specification - based upon the approp Re-vegetation Plan - based upon the appropriate requirements of Sub Site Reclamation Plan - based upon the appropriate requirements of Sub	priate requirements of Subsection H of 19.15.17.13 NMA section I of 19.15.17.13 NMAC	AC
17		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NM Instructions: Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district offi for consideration of approval. Justifications and/or demonstrations of equivalency are requi	 Recommendations of acceptable source material are provided being the provided being on the submitted to the subm	
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data o	btained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried wa	ste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data of		N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data of	stained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign (measured from the ordinary high-water mark).	ificant watercourse or lakebed, sinkhole, or playa lake	Yes No
 Topographic map; Visual inspection (certification) of the proposed site 		
Within 300 feet from a permanent residence, school, hospital, institution, or church i - Visual inspection (certification) of the proposed site; Aerial photo; satellite ima		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less purposes, or within 1000 horizontal fee of any other fresh water well or spring, in ex - NM Office of the State Engineer - iWATERS database; Visual inspection (certi Within incorporated municipal boundaries or within a defined municipal fresh water pursuant to NMSA 1978, Section 3-27-3, as amended.	istence at the time of the initial application. ification) of the proposed site well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written approval of Within 500 feet of a wetland 		Yes No
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual in 	spection (certification) of the proposed site	
Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and	Mineral Division	Yes No
Within an unstable area.		Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & Topographic map 	Mineral Resources: USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
¹⁸ On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	h of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropria		1 A A
Proof of Surface Owner Notice - based upon the appropriate requirement	ents of Subsection F of 19.15.17.13 NMAC	1. 1. 1. 1. A.
Construction/Design Plan of Burial Trench (if applicable) based upon	the appropriate requirements of 19.15.17.11 NMAC	14 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Construction/Design Plan of Temporary Pit (for in place burial of a dry		9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of		11 A.
Confirmation Sampling Plan (if applicable) - based upon the appropria	te requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requireme	nts of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids		nnot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subse		
Re-vegetation Plan - based upon the appropriate requirements of Subse	Action Lot 19 15 17 13 NMAC	

19		
perator Application Certification:		
hereby certify that the information submitted with this application is true, a	occurate and complete to the b	est of my knowledge and belief.
Name (Print): Crystal Tafoya	Title:	Regulatory Technician
Signature: antal Tologo	Date:	12/22/2008
e-mail address: grystal atoya@conocophillips.com	Telephone:	505-326-9837
0 <u>OCD Approval:</u> Permit Application (including closure plan) [Closure Plan (only)	OCD Conditions (see attachment)
CD Representative Signature:	0°	Approval Date:
itle:	OCD Permi	t Number:
21		
Closure Report (required within 60 days of closure completion): instructions: Operators are required to obtain an approved closure plan prior report is required to be submitted to the division within 60 days of the compl approved closure plan has been obtained and the closure activities have been	or to implementing any closur letion of the closure activities. n completed.	
22 Closure Method: Waste Excavation and Removal If different from approved plan, please explain.	Alternative Closure M	fethod Waste Removal (Closed-loop systems only)
23		
Closure Report Regarding Waste Removal Closure For Closed-loop Syst <i>instructions: Please identify the facility or facilities for where the liquids, a</i> <i>ere utilized.</i>		
Disposal Facility Name:	Disposal Facility P	ermit Number:
Disposal Facility Name: Disposal Facility Name:	Disposal Facility P Disposal Facility P	
	Disposal Facility P	ermit Number:
Disposal Facility Name:	Disposal Facility P	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed	Disposal Facility P ed on or in areas that will not	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate compliane to the items below)	Disposal Facility P ed on or in areas that will not	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate compliane to the items below) Required for impacted areas which will not be used for future service and	Disposal Facility P ed on or in areas that will not	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation)	Disposal Facility P ed on or in areas that will not	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for the box, that the documents are attached.	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure)	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the fact 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)	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for 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)	Disposal Facility P ed on or in areas that will not No d operations:	ermit Number:
Disposal Facility Name: Were the closed-loop system operations and associated activities performed Yes (If yes, please demonstrate complilane to the items below) Required for impacted areas which will not be used for future service and Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the for 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 P ed on or in areas that will not No d operations:	ermit Number:
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	New Mexico Office of the State Engineer POD Reports and Downloads
	Township: 29N Range: 12W Sections:
	NAD27 X: Y: Zone: Search Radius:
C	ounty: Basin: Number: Suffix:
Ov	oner Name: (First) (Last) O Non-Domestic O Domestic @ All
	POD / Surface Data Report Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 08/20/2008

(qu	arters	s are	1=	NW	2:	=NE	3=SW 4	=SE)								
(qu	arters	s are	bi	gge	est	t to	o small	lest)			Depth	Depth	Water	(in	feet)	
POD Number	Tws	Rng	Sec	q	g	P	Zone	х		Y	Well	Water	Column			
RG 13104	29N	12W	01								70	35	35			
RG 42195	29N	12W	01	2	2	2					100	40	60			
RG 27250	29N	12W	02	1							85	40	45			
RG 36980	29N	12W	02	1							113	40	73			
RG 42665	29N	12W	13								140	105	35			
SJ 03277	29N	12W	01	1		4					180	120	60			
SJ 01031	29N	12W	04		1						. 275	172	103			
SJ 01504	29N	12W	04	2	1						180	155	25			
SJ 02851	29N	12W	04	2	1	1					370	310	60			
SJ 03293	29N	12W	05	1	1	4					68	45	23			
SJ 00881	29N	12W	06	1	2	2				*)	137	18	119			
SJ 03528	29N	12W	06	1	2	4					21	5	16			
SJ 01894	29N	12W	06	1	3						29	28	1			
SJ 01385	29N	12W	06	1	3	4					31	4	27			
SJ 03529	29N	12W	06	1	4	1					21	5	16			
SJ 03186	29N	12W	06	2	4	1					21	8	13			
SJ 01662	29N	12W	06	3	3	1					25	8	17			
SJ 00254	29N	12W	06	3	3	2					90	26	64			
SJ 03205	29N	12W	06	3	3	4					127	118	9			
SJ 01383	29N	12W	07	1							125	80	45			
SJ 00121	29N	12W	07	1	1						160	90	70			
SJ 03553	29N	12W	07	1	2	2					150					
SJ 03061	29N	12W	07	3	1	2					280	180	100			
SJ 01566 CLW227534	29N	12W	08	3	1	2					105	60	45			
SJ 01566	29N	12W	08	3	1	3					105	60	45			
SJ 01839	29N	12W	10	1	4						212	175	37			
SJ 03410	29N	12W	11	3	3	4					75					
SJ 00548	29N	12W		1	1						180	60	120			
SJ 03414	29N	12W		1	1	2		265266	2086	5208	25					
SJ 01510	29N	12W		1					100000		155	75	80			
SJ 03569	29N	12W		2	1.1	2					150					
SJ 03370	29N	12W		2		2					166	86	80			
					-								50			

New Mexico Office of the State Engineer

Page 2 of 4

1												
SJ 03388	29N	12W	15	2	2	2		÷		159	80	79
SJ 02070	29N	12W		3		4				21	6	15
SJ 00567	29N	12W		3		4				28	28	1.5
SJ 03564	29N	12W		4	1					100	20	
SJ 03563	29N	12W		4	1	3				100		
SJ 00657	29N	12W		4		4				85	38	47
SJ 03363	29N	12W		4						19	3	16
SJ 01070	29N	12W		4		1				38	14	24
SJ 03151	29N	12W		4					4	50		21
SJ 03270	29N	12W		4	3				*	43	24	19
SJ 03255	29N	12W		4		4				17	5	12
SJ 00952	29N	12W		4						76	40	36
SJ 03372	29N	12W		4	4	3				10	2	8
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SJ 00617	29N	12W	25	1	4	3				47	20	27
SJ 01466	29N	12W	25	2	4					27	14	13
SJ 00570	29N	12W	25	3	1					36	18	18
SJ 03340	29N	12W	25	3	3	3				45	12	33
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SJ 00763	29N	12W		4	3					60	20	40
SJ 02132	29N	12W		4	3	1				· 40	12	28
SJ 02496	29N	12W		1	1	4				35	20	15
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SJ 03339	29N	12W		1	2					50		
SJ 03338	29N	12W		1		2				50		1.00
SJ 00777	29N	12W		2		4	5 T			47	20	27
SJ 01109	29N	12W			1	1				100	70	30
SJ 01194	29N	12W			4					38	12	26
SJ 01954 SJ 01956	29N	12W			1					55	20	35
SJ 01956 SJ 03052	29N 29N	12W 12W			1 1	Λ				50	18	32
SJ 03052 SJ 01996	29N	12W		3		4				29	15	14
SJ 00112	29N	12W			4					75	17	58
SJ 01326	29N	12W			2					47 50	26 27	21 23
SJ 01802	29N	12W			2					50	18	52
SJ 00399	29N	12W			2	2				45	25	20
SJ 01802 POD2	29N	12W			2			265547	2072216	34	11	23
SJ 03789 POD1	29N	12W			2			265592	2072210	40	14	26
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SJ 03327	29N	12W		4		1				95	70	25
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SJ 03341	29N	12W			4					50	12	20
SJ 02169	29N	12W		1	-	5				36	19	17
SJ 02058	29N	12W								60	25	35
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SJ 022	And the second se	29N		7 2	3	4	
SJ 033		29N		7 2	4	4	
SJ 017		29N		7 3	1		
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SJ 009	terre and the second	_ 29N		7 3	1	1	
SJ 009		_ 29N		7 3	1	3	
	92 POD1	_ 29N		7 3	3	1	
SJ 031		_ 29N		7 3	3	2	
SJ 021		_ 29N		7 4	1	~	
SJ 025		_ 29N		7 4	1	23	
SJ 025 SJ 026		_ 29N 29N		7 4	1	3	
		29N		7 4	1	3	
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SJ 029	New States and States	29N	12W 2		1	4	
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SJ 028	64	29N		8 4	2	2	
SJ 022	28	29N	12W 2	9 1			
SJ 022	99	29N	12W 2	9 1	1	3	
SJ 007	99	29N	12W 2	9 1	1	4	~ *
SJ 007	86	29N		9 1	1	4	
SJ 008		29N		9 1	1	4	
SJ 014		29N		9 1	1	4	
SJ 031	New York Street	_ 29N		9 1	2	1	
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SJ 031					2	2	
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SJ 0023		29N		19 1	2	4	
		29N		.9 1	3	2	
SJ 008		29N		19 1	3	2	
SJ 024		29N		19 1	3	2	
SJ 025		29N		19 1	3	2	
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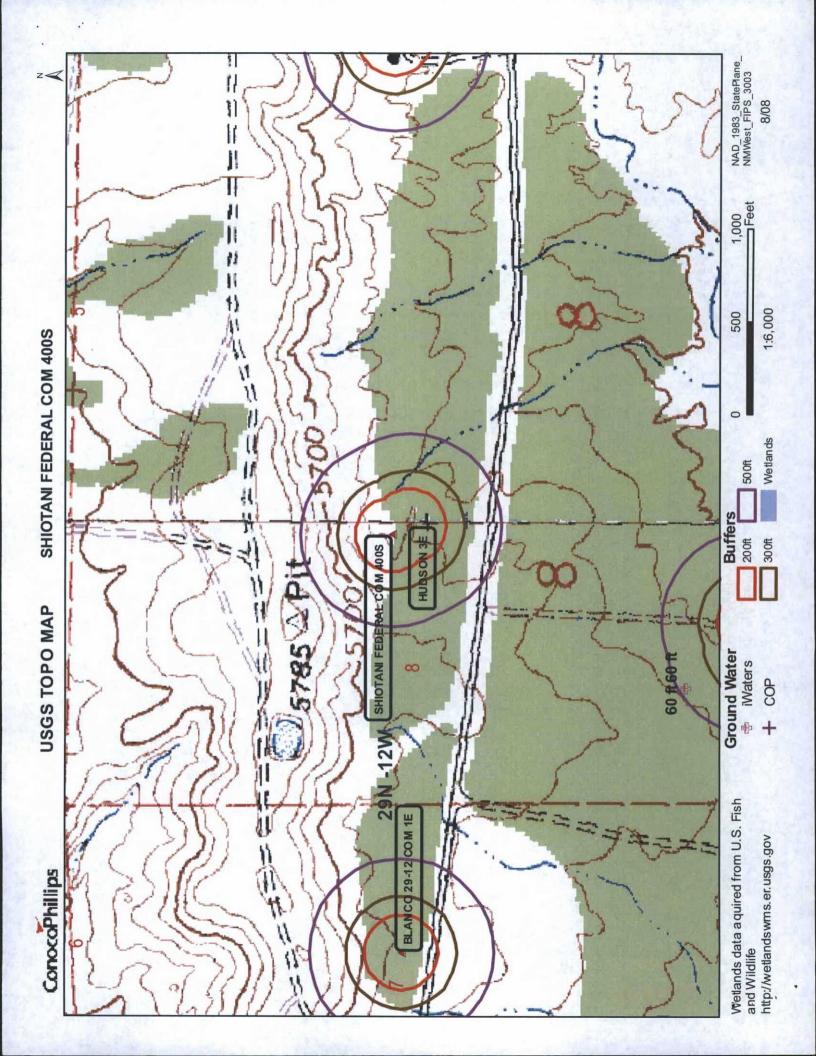
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		35	28	7
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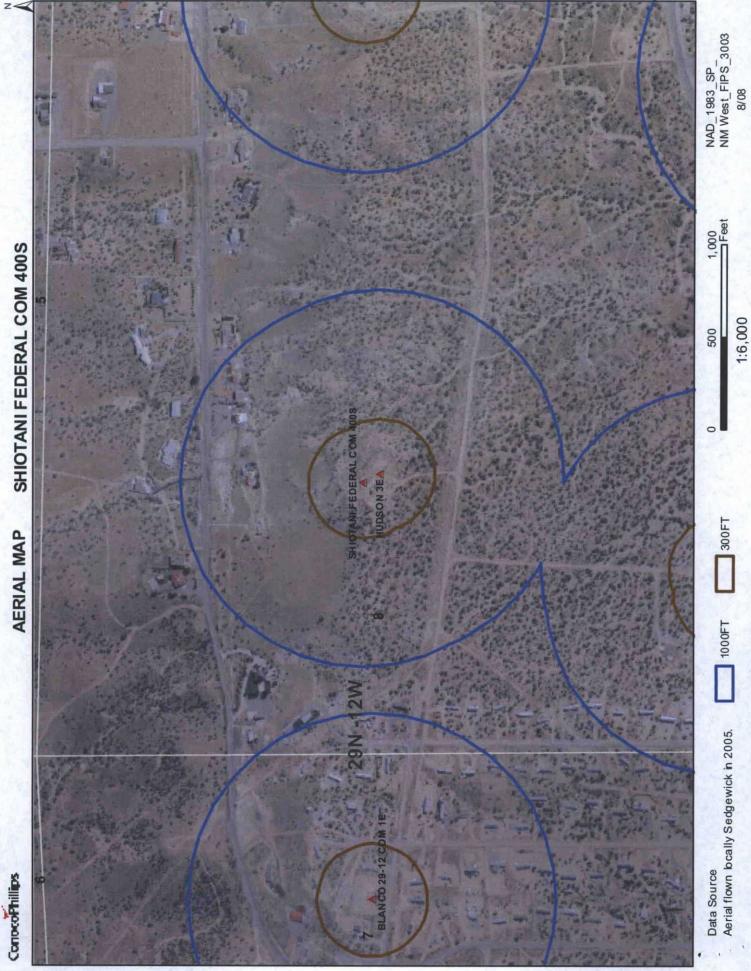
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SJ	02638	× 1 1	29N	12W	35	4	1	1	
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SJ	02830		29N	12W	36	1	4	1	
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Record Count: 180

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

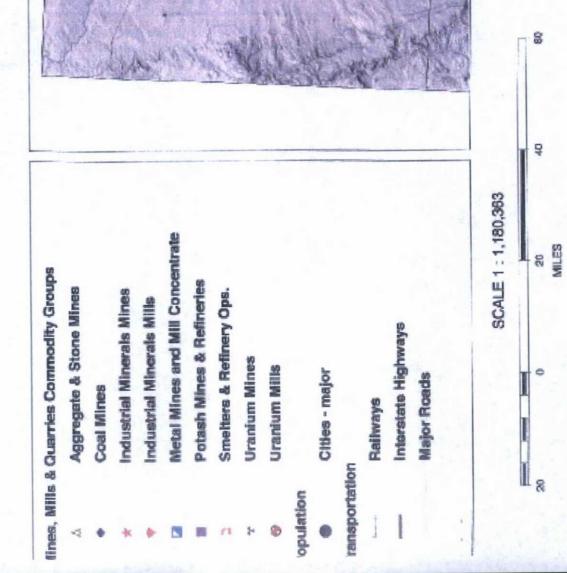




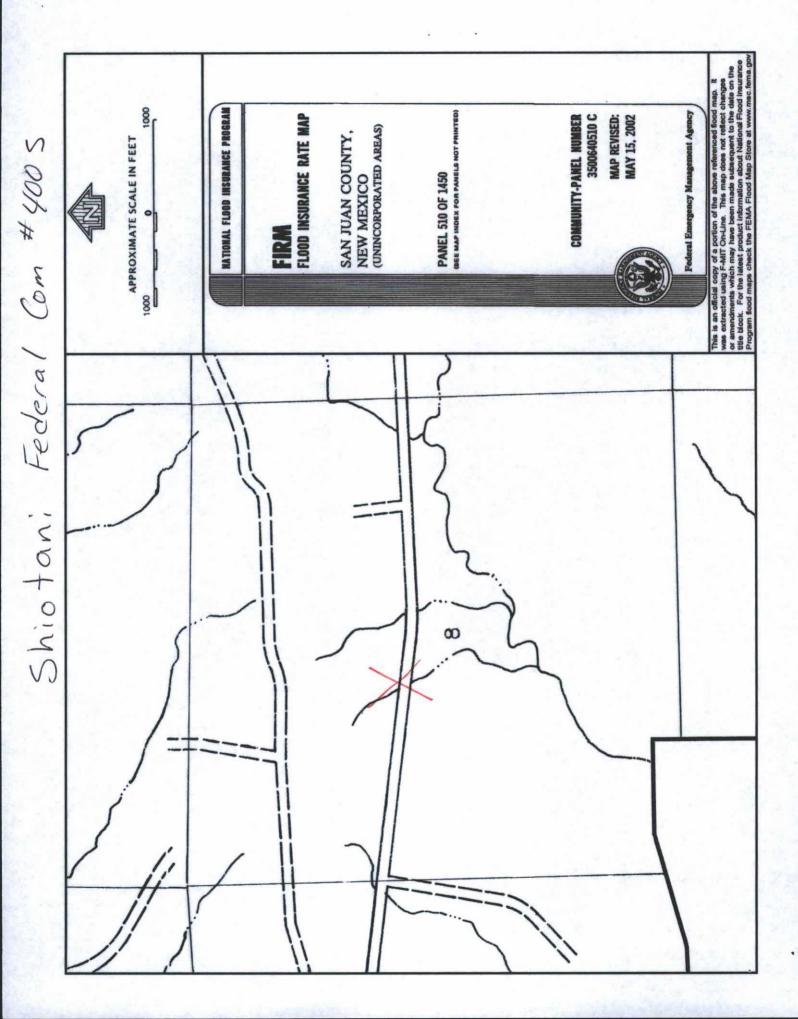
Mines, Mills and Quarries Web Map SHIOTANI FEDERAL COM 400S

Unit Letter: F, Section: 08, Town: 029N, Range: 012W

LDDA



MCKINLEY



SHIOTANI FEDERAL COM 400S

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SHIOTANI FEDERAL COM 400S', which is located at 36.74395 degrees North latitude and 108.12509 degrees West longitude. This location is located on the Farmington South 7.5' USGS topographic quadrangle. This location is in section 8 of Township 29 North Range 12 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 Farmington, located 4.5 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 4.5 miles to the west (National Atlas). The nearest highway is US Highway 550, located 1.9 miles to the west. The location is on Private land and is 1,918 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 located 1735 meters or 5690 feet above sea level and receives 9.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 134 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 22 feet to the south and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 4,964 feet to the east. The nearest water body is 1,348 feet to the northwest. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 12,760 feet to the northeast. 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 2,370 feet to the southwest. The nearest wetland is a 35.2 acre Ravine located 5,830 feet to the northwest. The slope at this location is 6 degrees to the southeast 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 'Fruitland-Persavo-Sheppard complex, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 8.0 miles to the southwest 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 comnformably 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, eastcentral San Juan Basin, New Mexico: USGS Professional Paper 552, 101 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 Professional Paper 676, 76 p. 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.

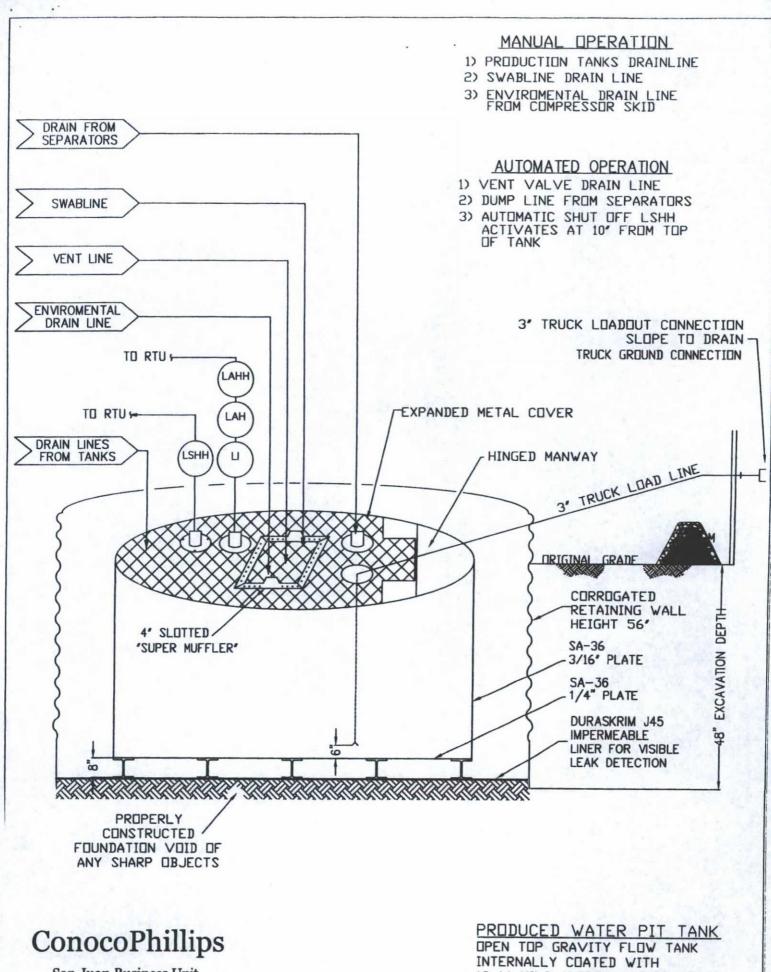
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- 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.
- 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.
- 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.
- 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.
- The general specification for design and construction are attached in the BR document.



San Juan Business Unit

12-14 MILS AMERON AMERCOAT 385

PROPERTIES TEST METHOD J30BB **J36BB** J45BE Typical Roll Typical Roll Min. Roll Min. Roll Typical Roll Min, Roll Averages Averages Averages Averages Averages Averages Black/Black Black/Black Black/Black Appearance Thickness **ASTM D 5199** 27 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs 151 lbs 168 lbs 189 lbs 210 lbs ASTM D 5261 (oz/yd²) (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement **ASTM D 413** 16 lbs **Ply Adhesion** 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 88 lbf MD 110 lbf MD 90 lbf MD 113 lbf MD 110 lbf MD 138 lbf MD 1" Tensile Strength **ASTM D 7003** 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD 750 MD 550 MD 750 MD 550 MD 750 MD **ASTM D 7003** Break % (Film Break) 750 DD 750 DD 550 DD 550 DD 750 DD 550 DD 1" Tensile Elongation @ 20 MD 33 MD 20 MD 30 MD 20 MD 36 MD **ASTM D 7003** Peak % (Scrim Break) 20 DD 33 DD 20 DD 31DD 20 DD 36 DD 75 lbf MD 97 lbf MD 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD **Tongue Tear Strength ASTM D 5884** 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD 180 lbf MD 218 lbf MD 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD Grab Tensile ASTM D 7004 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD 120 lbf MD 146 lbf MD 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD Trapezoid Tear ASTM D 4533 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD * Dimensional Stability ASTM D 1204 <1 <0.5 <1 <0.5 <1 <0.5

64 lbf

180° F

-70° F

Minimum Use Temperature MD = Machine Direction

Maximum Use Temperature

DD = Diagonal Directions

Puncture Resistance

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

65 lbf

180° F

-70° F

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

50 lbf

180° F

-70° F

**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 disclaims all liability for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

80 lbf

180° F

-70° F

130. J36 a J45

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

99 lbf

180° F

-70° F



ASTM D 4833

I SI

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 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.
- 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.
- 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 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; 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 the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 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.

- 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.
- 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.
- 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

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:

Registration Date: 717-16