D <u>istrict 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District 11</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District 111</u> 1000 Rio Brazos Rd., Aztec, NM 87410	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr, Santa Fe, NM 87505	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
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		Environmental Burcau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Francis DL. Santa FC, INVI 67505	Pit, Closed-Loop System, Below-Grad	
Propo	sed Alternative Method Permit or Closur	
	_	
Type of action:	X Permit of a pit, closed-loop system, below-grade t	
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	
	application (Form C-144) per individual pit, closed-lo	
Please be advised that approval	of this request does not relieve the operator of liability should operations r	esult in pollution of surface water, ground water or the
	lieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt		
Facility or well name: PAYNE FE		
	3004523910 OCD Permit Numbe	
U/L or Qtr/Qtr: D Secti		
Center of Proposed Design: Latitud		0W County: San Juan -107.8927°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or Indian	
Permanent Emergency C	rkover Cavitation P&A	HDPE PVC Other
3		
Closed-loop System: Subsect Type of Operation: P&A	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	
Lined Unlined Line	r type: Thicknessmi! LLDPE H	DPE PVD Other
Liner Seams: Welded Fa	actory Other	
<u></u>		
X Below-grade tank: Subsection	Lof 19.15.17.11 NMAC	
	bl Type of fluid: Produced Water	
Tank Construction material:	Metal	
Secondary containment with leak de		matic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	
Liner Type: Thickness		Ispecified
5		
Alternative Method:		
Submittal of an exception request is rec	uired. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.
		·····

Encing: Subsection D of 19 15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chan link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, Pour foot height, four strands of barbed wire evenly spaced between one and four feet XAlternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire</u> .	institution or c	hurch)
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Other Monthly inspections (If netting or screening is not physically feasible)	<u>.</u>	
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		
 <u>Administrative Approvals and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the fallowing is requested, if not leave blank:</i> [X] Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for co (Fencing/BGT Liner) [X] Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	onsideration of	approval.
10 <u>Siting ('riteria (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 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).	∏Yes ∏Yes	XN0 XN0
 Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) 	□Yes □NA	X No
 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) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes XNA	[]No
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 Within the area overlying a subsurface mine.	Yes	X No
 Written confirmation or verification or map from the NM EMNRD · Mining and Mineral Division Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources: USGS: NM Geological 	Yes Yes	X No X No
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19,15,17.9 NMAC
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19,15,17,12 NMAC
1 G · · · · · · · · · · · · · · · · · ·
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) APl or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) APl Previously Approved Operating and Maintenance Plan APl
13 Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S. Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions; Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Y Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize A</u> Instructions: Please identify the facility or facilities for the disposal are required.	Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC of liquids, drilling fluids and drill cuttings. Use attachment if more than tw	2) ro facilides
	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
	ssociated activities occur on or in areas that <i>will not</i> be used for future No	e service and operations?
Required for impacted areas which will not be used for future servic Soil Backfill and Cover Design Specification - based u Re-vegetation Plan - based upon the appropriate requir Site Reclamation Plan - based upon the appropriate requirements	pon the appropriate requirements of Subsection H of 19.15.17.13 NM rements of Subsection 1 of 19.15.17.13 NMAC	IAC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> Instructions. Each siting criteria requires a demonstration of compliance i certain sating criteria may require administrative approval from the approp for consideration of approval. Justifications and/or demonstrations of equi-	n the closure plan. Recommendations of acceptable source material are provided h	elow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the burn		
 NM Office of the State Engineer - iWATERS database search 	-	
Ground water is between 50 and 100 feet below the bottom of		
 NM Office of the State Engineer - iWATERS database search; 		
Ground water is more than 100 feet below the bottom of the bu		Yes No
NM Office of the State Engineer - iWATERS database search;		
(measured from the ordinary nigh-water mark).	f any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
Topographic map: Visual inspection (certification) of the prope		
Within 300 feet from a permanent residence, school, hospital, institut - Visual inspection (certification) of the proposed site; Aerial pho	ion, or church in existence at the time of initial application. to: satellite image	Yes No
 NM Office of the State Engineer - iWATERS database; Visual i 	spring that less than five households use for domestic or stock watering or spring, in existence at the time of the initial application, nspection (certification) of the proposed site ipal fresh water well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Wri 	tten 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 No
Within the area overlying a subsurface mine. • Written confirmation or verification or map from the NM EMNE	RD-Mining and Mineral Division	Yes No
Within an unstable area.	of Geology & Mineral Resources; USGS: NM Geological Society;	Yes No
Within a 100-year floodplain. FEMA map		Yes No
FEMA map IN On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instru- by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon Proof of Surface Owner Notice - based upon the appropriate Construction/Design Plan of Burial Trench (if applicable) Construction/Design Plan of Temporary Pit (for in place) Protocols and Procedures - based upon the appropriate ree Confirmation Sampling Plan (if applicable) - based upon	iate requirements of Subsection F of 19.15.17.13 NMAC) based upon the appropriate requirements of 19.15.17.11 NMAC burial of a drying pad) - based upon the appropriate requirements of 1 quirements of 19.15.17.13 NMAC the appropriate requirements of Subsection F of 19.15.17.13 NMAC	re plan. Please indicate.
Waste Material Sampling Plan - based upon the appropria	ate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, c	frilling fluids and drill autoines as is some a site of	

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Decrator Application Cer	tification:		
Name (Print):	ation submitted with this application is true.		
Signature:		Title:	Regulatory Technician
e mail address:) the category of a constrainty of the category		12/22/2008
	21141141144 & CONCUBUINDE NOT	Telephone:	505-326-9837
20 <u>OCD Approval:</u> Pern OCD Representative Signa		Closure Plan (only)	OCD Conditions (see attachment) Approval Date:
Title:		OCD Perm	it Number:
21			
<u>Closure Report (required</u> Instructions: Operators are req report is required to be submitt	within 60 days of closure completion); mired to obtain an approved closure plan pr ed to the division within 60 days of the comp a obtained and the closure activities have be	ior to implementing any closus pletion of the closure activities, en completed.	re activities and submitting the closure report. The closure . Please do not complete this section of the form until an Completion Date:
12			
Closure Method: Waste Excavation and I If different from approv		d Alternative Closure N	Method Waste Removal (Closed-loop systems only)
were utilized. Disposal Facility Name: Disposal Facility Name:		drilling fluids and drill cutting Disposal Facility F Disposal Facility F	gs were disposed. Use attachment if more than two facilities Permit Number:
Yes (If yes, please demo	operations and associated activities perform instrate complitane to the items below) which will not be used for future service an	No	be used for future service and opeartions?
Site Reclamation (Phote	Documentation)	,	
34			
Closure Report Attachm the box, that the documents	ent Checklist: Instructions: Each of the , are attached.	following items must be attacl	hed to the closure report. Please indicate, by a check mark in
Proof of Closure Notic	e (surface owner and division)		
	required for on-site closure)		
Plot Plan (for on-site c	losures and temporary pits)		
	g Analytical Results (if applicable)		
	ing Analytical Results (if applicable)		
Disposal Facility Name			
Soil Backfilling and Co			
—	ion Rates and Seeding Technique		
Site Reclamation (Phot	-		
On-site Closure Location	on: Latinide:	Longitude:	NAD [] 1927 [] 1983
25		·····	
<u>Operator Closure Certificat</u>	on:		
hereby certify that the information the closure complies with all app	ion and attachments submitted with this clos licable closure requirements and conditions	ure report is ture, accurate an specified in the approved clos	d complete to the best of my knowledge and belief. I also certify that
lame (Print):	-	Title:	
Signature:		Date:	
-mail address:		Telephone:	
	······································		

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New Mexico Office of the State Engineer POD Reports and Downloads									
Township: 32N	Range: 10W	Sections:		· · · …					
NAD27 X:	Y:	Zone:	Search Radiu	s:					
County: Bas	in:		Number:	Suffix:					
Owner Name: (First)	(Last)		() Non-Domestic	ODomestic • All					
POD / Surface Data Repo	rt Avg	Depth to Water	Report Wate	er Column Report					
[Clear Form	iWATERS Men	iu Heip						
· ····		· .		· · ·					

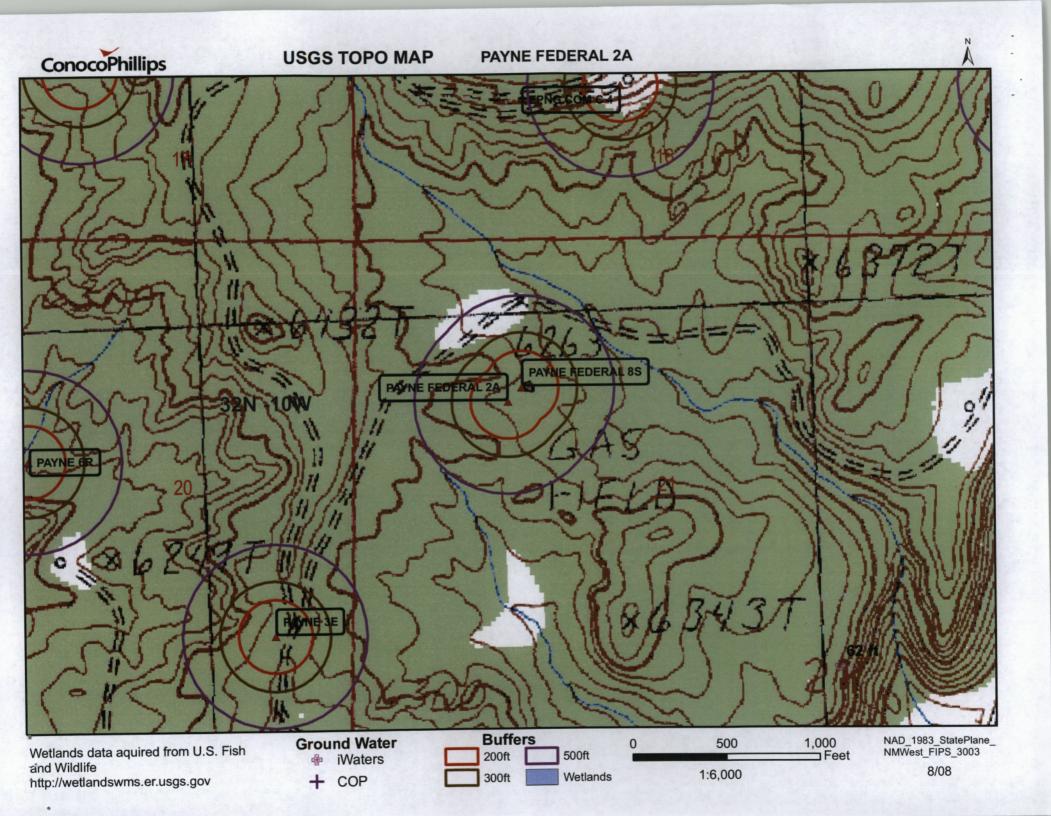
WATER COLUMN REPORT 08/20/2008

					3=SW 4=SE)						
PO	D Number	\quarter Tws		uggest to ta a a	smallest) Zone	x	Y	Depth Well	Depth Water		(in feet)
	01424	32N	10W 10	• • • •	Dome	A	Ŧ	164	94	Column 70	
SJ	00528	32N	10W 10	112				240	100	140	
SJ	00263	32N	10W 10	3 2 2				108	50	58	
SJ	01177	32N	10W 10	34				83	38	45	
SJ	01688	32N	10W 10	433				23	6	4J 17	
SJ	01153	32N	10W 15	1				100	47	53	
SĴ	03078		10W 15	122				21	18	3	
SJ	03527	32N	10W 15	141				80	10	J	
SJ	01290	32N	10W 15	3				105	20	85	
នូភ	02845	32N	10W 15	3 2 3				11	5	6	
SJ	01157	32N	10W 15	42					4	0	
SJ	03429	32N	10W 20	313				103	54	49	
SJ	02144	32N	10W 21					87	62	25	
SJ	01512	32N	10W 21	2 3				77	67	10	
SJ	00446	32N	10W 21	234				76	60	16	
	03483	32N	10W 21	241				90		10	
	02381	32N	10W 21	243				65			
	01435	32N	10W 21	43				70	40	30	
	00489	32N	10w 21	441				65	30	35	
	03072	32N	10W 22	1 1 1				80	62	18	
	02980	32N	10W 22	1 1 3				65	36	29	
	03307	32N	10W 22	114				60	20	40	
	03000	32N	10W 22	114				105	19	86	
	00153	32N	10W 28	4 1				23	14	9	
	01356	32N	10W 31	33				65	50	15	
	00323	32N	10W 33					25	15	10	
	01546	32N	10W 33	2 2 3				230	160	70	
	01897	32N	10W 33	24				54	25	29	
	00231	32N	10W 33	4				50	27	23	
	01346	32N	10W 33	4 1				70	40	30	
	01222	32N	10W 33	4 1				41	34	7	
SJ	02733	32N	10W 33	413				28	16	12	

SJ	00860	32N	10W 33	4 2			70	28	42
SJ	01110	32N	10W 33	4 2 4			60	20	40
SJ	01577	32N	10W 33	4 3			44	20	24
SJ	03495	32N	10W 33	4 3 3			40	6	34
SJ	03568	32N	10W 33	4 3 3			80	8	72
SJ	03778 POD1	32N	10W 33	434	270831	2159896	60	30	30
SJ	02789	32N	10W 33	4 4 4			31	18	13
SJ	00718	32N	10W 34	1 3			31	13	18
SJ	00586	32N	10W 34	3			34	8	26
SJ	00534	32N	10W 34	3			28	12	16
SJ	01490	32N	10W 34	3 1			48	20	28
SJ	01029	32N	10W 34	3 1			31	7	24
SJ	03067	32N	10W 34	3 1 1			20		24
SJ	02809	32N	10W 34	3 1 1			30		
ŞJ	03672	32N	10W 34	3 1 2			25	10	15
SJ	02757	32N	10W 34	3 1 2			29	12	17
SJ	03068	32N	10w 34	3 1 4			35	ΤZ	1
\mathbf{SJ}	00921	32N	10W 34	3 3 1			60	40	20
SJ	01389	32N	10W 34	3 3 1			35	40 6	20
SJ	03731 POD1	32N	10W 34	3 3 3			22	12	10
							20	+ L	

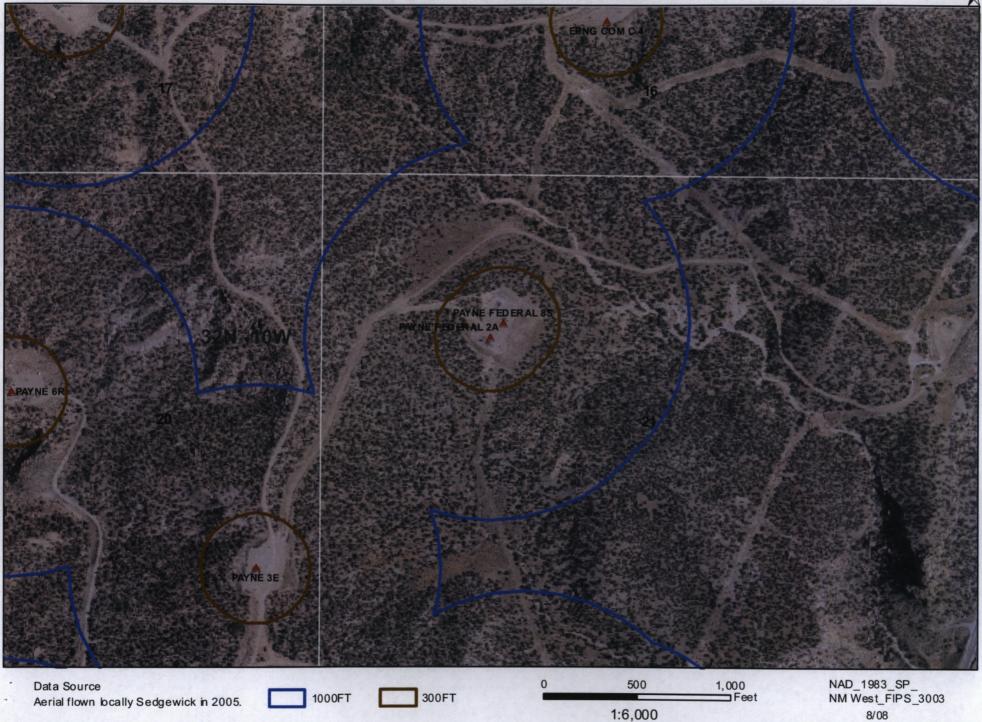
Record Count: 52

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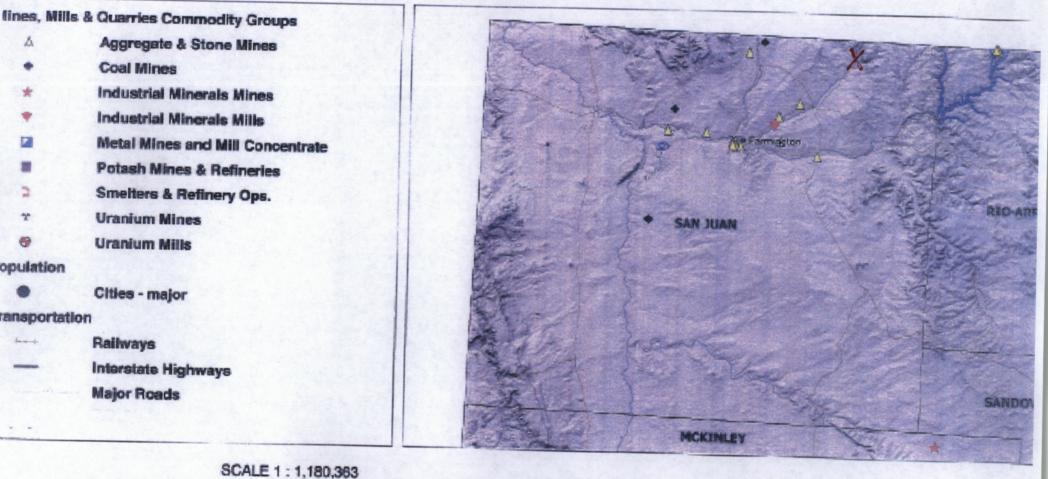
AERIAL MAP PAYNE FEDERAL 2A

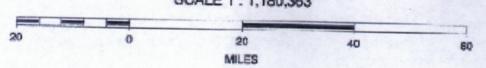


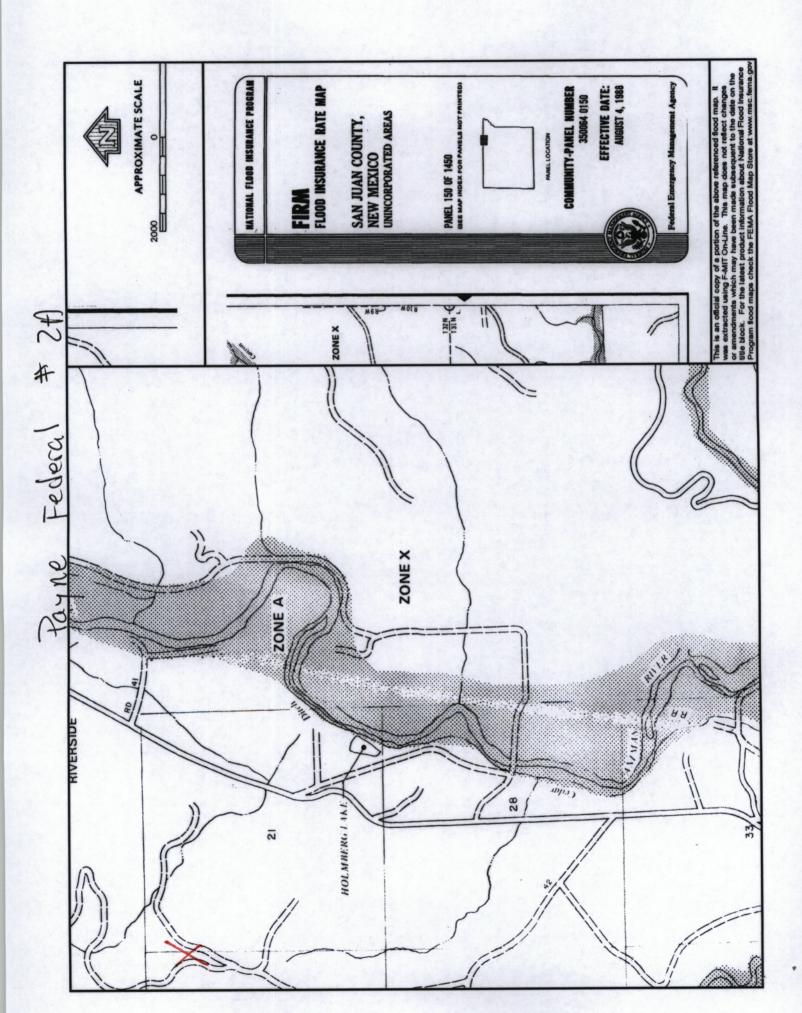
Mines, Mills and Quarries Web Map

PAYNE FEDERAL 2A

Unit Letter: D, Section: 21, Town: 032N, Range: 010W







PAYNE FEDERAL 2A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'PAYNE FEDERAL 2A', which is located at 36.97539 degree, North latitude and 107.8927 degree, West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 21 of Township 32 North Range 10 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 Cedar Hill, located 2.5 miles to the south. The nearest large town (population greater than 10,000) is Durango, located 20.7 miles to the north (National Atlas). The nearest highway is US Highway 550, located 0.6 miles to the southeast. The location is on BLM land and is 872 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 1914 meters or 6277 feet above sea level and receives 13.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 213 feet. This estimation is based on the data published on the New Mexico Engineer's Waters 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 487 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,019 feet to the southwest. The nearest water body is 4,922 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 8,441 feet to the southwest. 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 2,212 feet to the southeast. The nearest wetland is a 12.5 acre Freshwater Forested/Shrub Wetland located 4,984 feet to the southeast. The slope at this location is 3 degree, to the northeast 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 'Travessilla-Weska-Rock outcrop complex, moderately steep' 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 0.8 miles to the south 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:

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.

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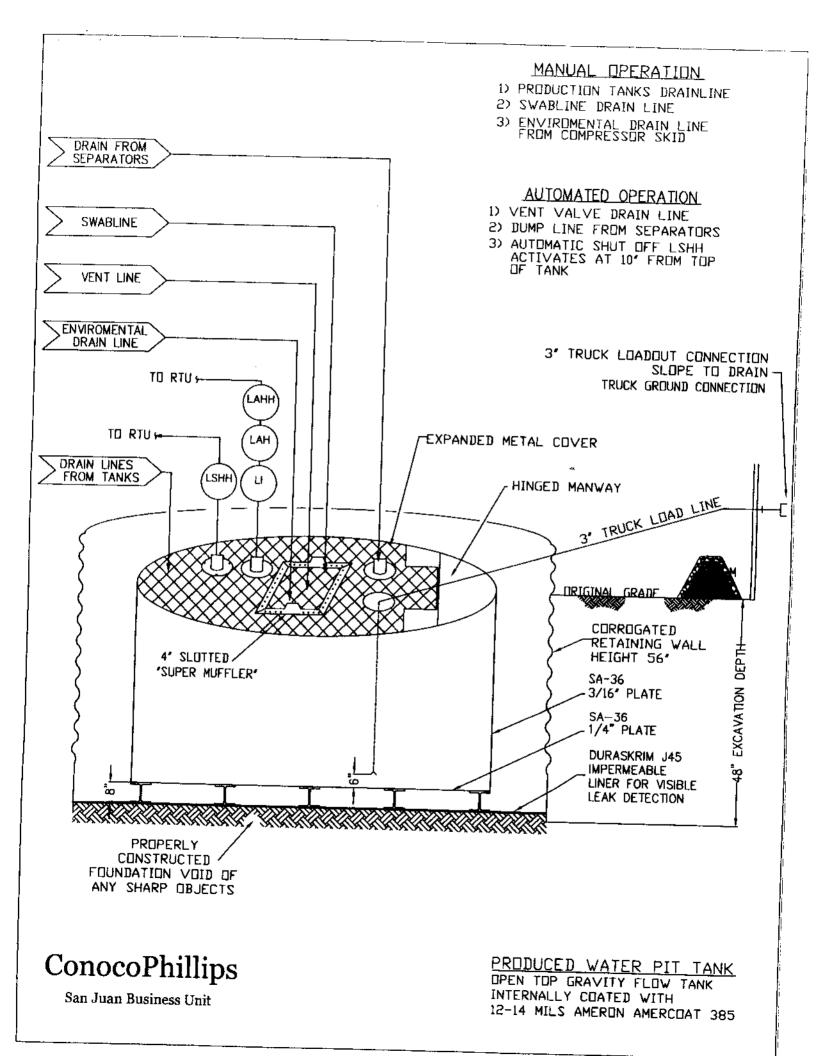
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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
- 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** J30BB J368E J4588 Min, Roll Typical Roll Min. Roll Typical Roll Min. Roll Averages Typical Roll Averages Averages Averages Averages 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 126 lbs 140 ibs ASTM D 5261 151 lbs (oz/yd²) 168 lbs 189 lbs 210 ibs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion ASTM D 413 16 lbs 20 lbs 19 /bs 24 lbs 25 lbs 31 ibs 1" Tensile Strength 88 /bf MD 110 lbf MD ASTM D 7003 90 lbf MD 113 Ibf MD 110 (bf MD 138 lbf MD 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 ASTM D 7003 550 MD Break % (Film Break) 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD ASTM D 7003 Peak % (Scrim Break) 20 MD 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 100 lbf MD 117 Ibf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 lbf MD 180 lbf DD 257 lbf MD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD ASTM D 4533 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD 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 **Puncture Resistance** ASTM D 4833 50 lbf 64 lbf 65 lbf 83 lbf

MD = Machine Direction **DD = Diagonal Directions**

Maximum Use Temperature

Minimum Use Temperature

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

*Dimensional Stability Maximum Value

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

180° F

-70° F

180° F

-70° F

Note: IRAVEN 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 companed information or recommendations and

AVEN INDUSTRIES

PLANT LOCATION

180° F

-70° F

Sioux Falls, South Dakota

SALES OFFICE

80 lbf

180° F

-70° F

99 lbf

180° F

-70° F

136214

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



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.

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 safe 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, at its 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 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 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 tieu 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 WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY 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 o f19.15.17.11 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 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.
- 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.

- 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.
- 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

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

19.15.17.10 NMAC SITTING REQUIREMENTS

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

19.15.17.11 NMAC DESIGN PLAN CONTENTS

Below Grade Tank Design and Construction Plan

19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

REGISTRATION DATE:

10/06/2015

NOTES: