1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	Form C-14
<u>Di</u>	ment	For temporary pits, closed-loop sytems, and below-grade
BEGIST	ERED -ion Division	tanks, submit to the appropriate NMOCD District Office.
	Francis Dr.	For permanent pits and exceptions submit to the Santa Fe
District IV 1220 S. St. Empris Dr., Sente En. NM, 82505		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Flancis DL., Santa PC, NM 87505	Pit, Closed-Loop System, Below-Grad	le Tank, or
Propo	sed Alternative Method Permit or Closu	re Plan Application
Type of action:	X Permit of a pit closed-loop system below-grade	ank or proposed alternative method
Type of detion	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	tted or non-permitted pit, closed-loop system,
Instructions: Please submit one	application (Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request
Please be advised that approval environment. Nor does approval re	of this request does not relieve the operator of liability should operations elieve the operator of its responsibility to comply with any other applicable	result in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources O)il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: HARE 13		
API Number:	3004508655 OCD Permit Numb	er:
U/L or Qtr/Qtr: 0 Sect	ion: <u>3</u> Township: <u>29N</u> Range:	10W County: San Juan
Center of Proposed Design: Latitud	le: Longitude:	-107.869°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or India	In Allotment
Temporary: Drilling Wo Permanent Emergency Permanent Lined Unlined L String-Reinforced Liner Seams: Welded H 3 Closed-loop System: Subsect Type of Operation: P&A [rkover 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	HDPE PVC Other bbl Dimensions L x W x D
	notice of intent)	
Drying Pad Above Grou	und Steel Tanks Haul-off Bins Other	
Liner Seams: Welded F	Factory Other	HDPE PVD Other
4 4 X Below-grade tank: Subsection	1 of 19.15.17.11 NMAC	
4 X <u>Below-grade tank:</u> Subsection Volume: <u>120</u>	bbl Type of fluid: Produced Water	
4 X <u>Below-grade tank:</u> Subsection Volume: <u>120</u> Tank Construction material:	bl of 19.15.17.11 NMAC bbl Type of fluid: <u>Produced Water</u> <u>Metal</u>	
4 X Below-grade tank: Subsection Volume: 120 120 Tank Construction material:	I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and aut	omatic overflow shut-off
4 X Below-grade tank: Subsection Volume: 120 Tank Construction material:	I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other	omatic overflow shut-off
4 X Below-grade tank: Subsection Volume: 120 120 Tank Construction material:	I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other	omatic overflow shut-off Unspecified
4 X Below-grade tank: Subsection Volume: 120 Tank Construction material:	h I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal detection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other	omatic overflow shut-off Unspecified
4 X Below-grade tank: Subsection Volume: 120 Tank Construction material:	A I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other equired. Exceptions must be submitted to the Santa Fe Enviro	omatic overflow shut-off Unspecified nmental Bureau office for consideration of approval.

 <u>Fencing:</u> 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 (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>) 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 If 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC									
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
	1								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.									
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	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. (Applied to permanent pits)	Yes XNA	No							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo							
• NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo							
- written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	TYes	XNo							
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site									
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. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo							
Society; Topographic map	—								
- FEMA map	Yes	XNo							

¹¹ <u>Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist:</u> 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 (2) of Subsection B of 19.15.17.9
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
X Operating and Maintenance Plan - based upon the appropriate requirements of 19,15,17,12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
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 Siling Criteria Complexity Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
String Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
В
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 (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 10.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Closure Plan, based upon the appropriate requirements of Submation C of 10, 15, 17, 0, NMAC, and 10, 15, 17, 13, NMAC
Closure Fian 2 based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.18 NMAC
14 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 XBelow-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)
15
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
$\overline{\mathbf{x}}$ Protocols and Procedures - based upon the appropriate requirements of 1945 1743 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection E 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 Above Ground Steel Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMA Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than a are renared.	C) wo facilities									
Disposal Facility Name: Disposal Facility Permit #										
Disposal Facility Name: Disposal Facility Permit #										
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information No										
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC										
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered on exception which must be submitted a for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	below. Requests regarding changes to othe Santa Fe Environmental Bureau office									
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 obtained from nearby wells 										
Ground water is between 50 and 100 feet below the bottom of the buried waste										
NM Office of the State Engineer - iWATERS database search: USGS: Data obtained from nearby wells										
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No									
- NM Office of the State Engineer - two FERS database search; USGS; Data obtained from nearby wells	∐N/A									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No									
- Topographic map; Visual inspection (certification) of the proposed site										
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No									
	Yes No									
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site										
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No									
Within 500 feet of a wetland										
· US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site										
Within the area overlying a subsurface mine.	Yes No									
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division										
Within an unstable area.	Yes No									
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 										
Within a 100-year floodplain. • FEMA map	Yes No									
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the close by a check mark in the box, that the documents are attached.	ure plan. Please indicate,									
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC										
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	- 1									
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC										
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC	19.15.17.11 NMAC									
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection E of 19 15 17 13 NMA(
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 10.15.17.13 NMAC										
Disposal Facility Name and Permit Number (for liquids, drilling fluids, and drill outlings on in good on site along the design of the second s	annot be achieved									
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	annot be achieved)									
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 I 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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19 Operator Application Cortification		
Thereby certify that the information submitted with this application is true acc	units and complete to the ba	at a Construction of the Conference of the Confe
Name (Print): Constal Toface	mate and complete to the be	st of my knowledge and benef.
Crystal railoya	Hue:	Regulatory Technician
Signature:	Date:	12/22/2008
e-mail address: crystal.tatoya@conocophillips.com	Telephone:	505-326-9837
20		_
<u>QCD Approval:</u> Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		Annroval Date
Title:	OCD Permit	Number:
21		
Closure Bonort (required within 60 down of elegans correlation).		
Instructions: Operators are required to obtain an approved closure plan prior t	ection K of 19.15.17.13 NMAC o implementing any closure	activities and submitting the closure report. The closure
report is required to be submitted to the division within 60 days of the completion	on of the closure activities.	Please do not complete this section of the form until an
approved closure plan has been obtained and the closure activities have been c	ompleted.	
	Closure C	Completion Date:
22 Closure Method:		
Waste Excavation and Removal On-site Closure Method	Alternative Closure M	what Wasta Removal (Claused land wastern and)
If different from approved plan planta available		waste Removal (Closed-loop systems only)
In unretent nom approved plan, prease explain.		
23		
Closure Report Regarding Waste Removal Closure For Closed-loop System	s That Utilize Above Grou	nd Steel Tanks or Haul-off Bins Only:
instructions: reease mentify the facility or facilities for where the liquids, drill were utilized.	ling fluids and drill cuttings	s were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Pe	rmit Number:
Disposal Facility Name:	Disposal Facility Pe	mit Number:
Were the closed-loop system operations and associated activities performed	on or in areas that will not b	e used for future service and opeartions?
Yes (If yes, please demonstrate compliane to the items below)	No	
Required for impacted areas which will not be used for future service and or	erations	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
24		
Closure Report Attachment Checklist: Instructions: Each of the follo	wing items must be attache	ed to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.		
Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Confirmation Sampling Analytical Results (if applicable)		
Waste Material Sampling Analytical Results (if applicable)		
Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude:	Longitude:	NAD 1927 1983
25		
Operator Closure Certification:		
I hereby certify that the information and attachments submitted with this closure	report is ture, accurate and	complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions spe	cified in the approved closu	ire plan.
Name (Print):	Title	
Signature:	Date:	
e-mail address:	Telephone:	

New Mexico Office of the State Engineer

Τον	wnship: 29N	Range: 10W	Sections:			
NAD2	7 X:	Y:	Zone:	- Se	earch Radius:	
County:	Basi	n:	V	Number	Suffix:	-
wner Name: (F	irst)	(Last)		C Nor	n-Domestic C Domestic C	All
POD / Surfa	ace Data Repor	t Avg	Depth to Water	Report	Water Column Report	1

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	a 1=)	NW 2	=NE	3=SW 4=5	E)						
	(quarter	s are	a big	gges	st to	smalles	st)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	a d	PI	Zone	x	Y	Well	Water	Column		
RG 36732 DCL	29N	10W	25	2					500	450	50		
SJ 00785 S	29N	10W	04	24	2				20				
SJ 00680	29N	10W	13	2 2	}				40	10	30		
SJ 00785 NEW	29N	10W	13	4					60	20	40		
SJ 00785 S-2	29N	10W	13	4					60	20	40		
SJ 03023	29N	10W	18	1 3	1				90	65	25		
SJ 03502	29N	10W	18	1 3	1				150				
SJ 03081	29N	10W	18	3 1	4				20				
SJ 02078	29N	10W	19	3 1	1				40	9	31		
SJ 00303	29N	10W	19	3 3					20	5	15		
SJ 02860	29N	10W	19	4 4	4				21	2	19		
SJ 02900	29N	10W	20	3 1	2				70				
SJ 01140	29N	10W	20	3 2	2				25	6	19		
SJ 01990	29N	10W	20	4 1					40	12	28		
SJ 02548	29N	10W	20	4 4					12	2	10		
SJ 02547	29N	10W	20	44					12	2	10		
SJ 03535	29N	10W	21	3 2	3				15				
SJ 03455	29N	10W	21	33	1				20	17	3		
SJ 03456	29N	1.0W	21	3 3	2				20	17	3		
SJ 03441	29N	10W	21	4 3	3				40	30	10		
SJ 03470	29N	10W	21	4 3	4				20	7	13		
SJ 01474	29N	10W	21	4 4					25				
SJ 03180	29N	10W	21	4 4	4				50	15	35		
SJ 03713 POD1	29N	10W	22	2 3					265	20	245		
SJ 02820	29N	10W	23	4 1	1				82	16	66		
SJ 02896	29N	10W	24	1 4	1				110	34	76		
SJ 02275	29N	10W	24	1 4	2				40	20	20		
SJ 00092	29N	10W	24	2 4	2				33				
SJ 02802	29N	10W	24	3 1	2				132	30	102		
SJ 02907	29N	10W	24	3 2	3				60				
SJ 02122	29N	10W	25	4 1					60	12	48		
SJ 01019	29N	10W	26	4 3	3				50	4	46		

		•							
SJ	01056		29N	10W	27	3	2		
SJ	02216		29N	10W	28	1	2		
SJ	03582		29N	10W	28	1	3	3	
SJ	02151		29N	10W	28	2	1	2	W
SJ	03652		29N	10W	28	2	2	1	
SJ	03142		29N	10W	2.8	2	2	2	
SJ	03637		29N	10W	28	2	3	1	
SJ	03582	POD2	29N	10W	28	2	3	3	
SJ	02840		29N	10W	28	3	4	1	
SJ	00506		29N	10W	28	4	3		
SJ	00662		29N	10W	28	4	4	3	
SJ	00497		29N	10W	29	3	2	3	
SJ	03777 1	POD1	29N	10W	29	4	4	2	
SJ	00473		29N	10W	30	2	4		
SJ	03743 1	POD1	29N	10W	33	4	4	3	
SJ	01051		29N	10W	35	2	2	2	
SJ	01050		29N	10W	36	1	4		
1.0									

			50	31	19
			30	7	23
			10	4	6
W	484600	2075600	37	20	17
			34	6	28
			3.8	22	16
			21	10	11
			28	5	23
			55	3.2	23
			78	55	23
			93	70	23
			85	35	50
	270344	2071311	100	50	50
			5.8	10	48
			490	140	350
			90	30	60
			85	38	47

Record Count: 49

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New Mexico Office	of the State Engineer
POD Reports	and Downloads

NAD27 X:	Y: Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic C A
POD / Surface Data Report	Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 08/21/2008

	(quarters	are	1=	NW	2=	NE	3=SW 4=	=SE)							
	(quarters	are	bi-	gge	вt	to:	smalle	est)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	Q	P	a	Zone		x	Y	Well	Water	Column		
SJ 00050	30N	10W	02	1	3	2					520	306	214		
SJ 03460	30N	10W	02	1	3	2					520	500	20		
SJ 03230	30N	10W	03	1	2	1					120	70	50		
SJ 03113	30N	10W	05	4	1	4					42	30	12		
SJ 00589	30N	10W	80	1	1	1					175	150	25		
SJ 00774	30N	10W	80	1	2	1					195	160	35		
SJ 02316	3'0N	10W	80	1	3						210	98	112		
SJ 02102	30N	10W	08	1	3	4					190	90	100		
SJ 01527	30N	10W	08	2	2						120	60	60		
SJ 01193	30N	10W	80	2	2						100	70	30		
SJ 02808	30N	10W	08	2	3	4					165	105	60		
SJ 01102	30N	10W	80	2	4						200	159	41		
SJ 02998	30N	10W	80	3	3	1					260	117	143		
SJ 02772	30N	10W	08	4	2	2					200	160	40		
SJ 00523	30N	10W	80	4	4						160	120	40		
SJ 01362	3 0 N	10W	20	1	3	3					238	190	48		
SJ 03442	30N	10W	20	1	4	1					200				
SJ 02782	30N	10W	20	1	4	4					250				
SJ 02797	30N	10W	20	2	4	1					70				
SJ 00024	30N	10W	23	2	4	2					305				
SJ 00051	30N	10W	23	2	4	2					305				
SJ 00197	30N	10W	23	4	2						975	500	475		
SJ 00010	30N	10W	24	2							292				
SJ 01116	30N	10W	33	2	1						105	45	60		
SJ 01059	30N	10W	34	1	2	4					115	75	40		
SJ 01182	30N	10W	34	1	3	3					235	125	110		

Record Count: 26





Mines, Mills and Quarries Web Map

Unit Letter: O, Section: 03, Town: 029N, Range: 010W

HARE 13







HARE 13

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Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HARE 13', which is located at 36.75095 degrees North latitude and 107.869 degrees West longitude. This location is located on the Turley 7.5' USGS topographic quadrangle. This location is in section 3 of Township 29 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 Blanco, located 2.9 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 18.7 miles to the west (National Atlas). The nearest highway is State Highway 575, located 0.1 miles to the northeast. The location is on BLM land and is 1,599 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1794 meters or 5884 feet above sea level and receives 11 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 94 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 29 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 2,022 feet to the west. The nearest water body is 1,935 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 7,709 feet to the west. 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 4,527 feet to the northwest. The nearest wetland is a 3.3 acre Ravine located 1,710 feet to the west. The slope at this location is 1 degree to the south 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-Slickspots complex, 0 to 3 percent slopes' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.7 miles to the north 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.

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:

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- 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 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.
- 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.

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- 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 J36BE J45BE Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Typical Roll Averages 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 lbs ASTM D 5261 151 lbs (oz/vd²) 168 lbs 189 lbs 210 lbs (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 lbs 24 lbs 25 lbs 31 /bs 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 lbf MD 113 lbf MD 110 lbf 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 550 DD 750 MD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD **ASTM D 7003** 20 MD 30 MD Peak % (Scrim Break) 20 MD 20 DD 36 MD 33 DD 20 DD 31DD 20 DD 36 DD **Tongue Tear Strength** 75 lbf MD 97 lbf MD 75 lbf MD **ASTM D 5884** 104 lbf MD 100 lbf MD 117 lbf 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 257 lbf MD 180 lbf DD 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

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.

65 lbf

180° F

-70° F

83 lbf

180° F

-70° F

*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 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 discraims all liability for resulting loss or damage.



PLANT LOCATION

180° F

-70° F

Sioux Falls, South Dakota

SALES OFFICE

80 lbf

180° F

-70° F

99 lbf

180° F

-70° F

4175

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 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, 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 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 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:

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- 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:

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- 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.
- 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 50 mg/kg; or other EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name

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- 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