District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

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

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

Proposed Alternative Method Permit or Closure Plan Application
Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: KOCH STATE COM 1
API Number: 3004507680 OCD Permit Number:
U/L or Qtr/Qtr: G Section: 36 Township: 29N Range: 9W County: San Juan Center of Proposed Design: Latitude: 36.68402°N Longitude: -107.73257°W NAD: X 1927 1983 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
X Below-grade tank: Subsection of 19.15.17.11 NMAC
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15-17.11 NMAC (Applies to permanent pat, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a perminent residence, school, hospital four foot height, four strands of barbed wire evenly spaced between one and four feet	wal, institution or charch)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
and with the strands barbed wire.	
Netting: Subsection F of 19.45.47.13 NAAG (2)	
Netting: Subsection E of 19.45.47.13 NMAC (Applies to permanent pits and permanent open top tanks) X Screen	
Monthly inspections (If netting or wreening is not physically feasible)	-
8	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
X Signed in compliance with 19.15.3.103 NMAC	
9	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
the three a box if one or more of the following is requested, if not leave blank,	
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for the Santa Fe E	Corneidumin- C
[Exception(s): Requests must be submitted to the Sagra Ex Carlo	· sansacration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
INSTRUCTIONS: The applicant must demonstrate and the contract of the contract	
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 Second district office or may be considered an exception which must be submitted to the Second district of the Secon	
Consideration of approval. Applicant must established for the Santa fee Environmental Bureau ()ffice for	
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 to-	
Salabase scalen, USGS, Data obtained from nearby walls	Yes X No
Within 300 feet of a continuously flowing watercourse, and 200 feet of a continuously flowing watercourse, and a continuously flowing watercou	
luke (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	Yes X No
Within 100 four forms and	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	
- visual inspection (certification) of the proposed site; Aerial photo: Satellite image	□ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
Colfinea to fermanent pits)	Yes No
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA
Within 500 horizonal feet of a peivate deposit 5t	
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes X No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	
Transa accorporated municipal boundaries or within a defined and the control of t	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes X No
Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	
	Yes X No
- 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
vicini an unstante area.	
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes X No
Within a 100-year floodplain	
- FEMA map	Yes X No

	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.	
	N Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
	Trydrogeologic 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	
1	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	
	Provinces V Approved Design (attach come of design)	
Ĺ	Previously Approved Design (attach copy of design) API or Permit	
	Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.11 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	
1	Previously Approved Design (attach copy of design) API	
ı	Previously Approved Operating and Maintenance Plan API	
Ľ		
	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. [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. [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.	
l	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	1
١	Unmatological Factors Assessment	1
۱	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15-17.11 NMAC	1
l	Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.14 NATAC	١
L	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	
ľ	Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	ı
	Freeboard and Overtopping Prevention 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	ı
	Nuisance or Hazardous Odors, including H2S, Prevention Plan	l
	Emergency Response Plan	l
ľ	Oil Field Waste Stream Characterization	l
	Monitoring and Inspection Plan	ļ
	Erosion Control Plan	
	Closure Plan - based upon the appropriate requirements of Subsection C of 19,15,17.9 NMAC and 19,15,17.13 NMAC	
	Proposed Closure: 19.15.17.13 NMAC	i I
Ĩ	nstructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
	ype: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative	
P	roposed 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 BurialOn-site Trench	
	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
- Li		
VI	ease indicate, by a check mark in the bax, that the documents are attached	
r-1	ease indicate, by a check mark in the box, that the documents are attached. [X] Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	
	X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subscriptor Confirmation Sampling Plan (if applicabl	
	X 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)	
	Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
	Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	
	Site Reclamation Plan - hased upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
_		

ler		
Waste Remayal Clasure for Classifican Systems That Dillian Alice	se Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC liquids, drilling fluids and drill cuttings. Use attachment if mare than to	Z) vo facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and assoc Yes (If yes, please provide the information N	fiated activities occur on or in areas that will not be used for futur	e service and operations?
Required for impacted areas which will not be used for future service a Soil Backfill and Cover Design Specification - based upon Re-vegetation Plan - based upon the appropriate requirement	the appropriate requirements of Subsection 11 of 10 15 17 13 MB	1AC
Site Reclamation Plan - based upon the appropriate require	ements of Subsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.1 Instructions: Fach string criteria requires a demonstration of compliance in the certain sating criteria may require administrative approval from the appropriat for consideration of approval. Justifications analor demonstrations of equivale	closure plan. Recommendations of acceptable source material are provided b e district office or may be consulered an esception which must be submitted to t mey are required. Please refer to 19,15-17,10 NMAC for guidance	velow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried v		Yes No
 NM Office of the State Engineer - iWATERS database search; US 	GS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the		Yes No
 NM Office of the State Engineer - iWATERS database search; US 	GS; Data obtained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buriet		Yes No
- NM Office of the State Engineer - iWATERS database search; US	GS; Data obtained from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any (measured from the ordinary high-water mark).		Yes No
- Topographic map; Visual inspection (certification) of the proposed		
Within 300 feet from a permanent residence, school, hospital, institution, - Visual inspection (certification) of the proposed site; Aerial photo; s	or church in existence at the time of initial application. atellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or sprin purposes, or within 1100 horizontal fee of any other fresh water well or sp +NM Office of the State Engineer - WATERS database: Visual inspe	oring, in existence at the time of the initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written	fresh water well field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland	• •	
 US Fish and Wildlife Wetland Identification map: Topographic map 	; Visual inspection (certification) of the proposed site	LITES LINO
Within the area overlying a subsurface mine, - Written confirantion or verification or map from the NM EMNRD-N		Yes No
Within an unstable area.	Aiming and Mineral Division	
 Fugineering measures incorporated into the design; NM Bureau of G Topographic map 	eology & Mineral Resources; USGS; NM Geological Society;	YesNo
Within a 100-year floodplain FEMA map		Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached.	ns: Each of the following items must bee attached to the closur	e 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	
Construction/Design Plan of Burial Trench (if applicable) has	sed upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place buri	al of a drying pad) - based upon the appropriate requirements of 19) 15 17 II NMAC
rrotocols and Procedures - based upon the appropriate requin	ements of 19.15.17.13 NMAC	THE PROPERTY OF THE PARTY OF TH
Confirmation Sampling Plan (if applicable) - based upon the	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilli	ng fluids and drill cuttings or in case on-site closure standards can	not 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 Site Reclamation Plan - based upon the appropriate requireme	of Subsection Lof 19.15.17.13 NMAC	
—	ue or agreement of the 10-11/12 NMVC.	

19				
Operator Applicatio	n Certification:			
Hieseby certify that the	information submitted with this application is true, a	ccurate and complete to the i	pest of my knowledge and belief,	
Name (Print):	Crystal Fafoya	1811.4	Regulatory Technician	
Signature:	agatal Talo	Date:	12/22/2008	
e-mail address;	Crystal tatoya & conocophilips.com	Telephone:	505-326-9837	
20 OCD Approval:	Permit Application (including closure plan)	7		
		Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative	Signature:		Approval Date:	
Title:		OCD b		_
		OCD Permi	t Number:	
21				
Instructions: Operators a	tree within 60 days of closure completion); so	ubsection K of 19 15 17 13 NMAC		
			e activities and submitting the closure report. The closure Please do not complete this section of the form until an	
approved closure plan h	is been obtained and the closure activities have been	completed,	1 is an end complete this section of the form until an	
		Closure	Completion Date:	
22				
Closure Method:				
Waste Excavation	n and Removal On-site Closure Method	Alternative Closure M	ethod Waste Removal (Closed-loop systems only)	
If different from a	ipproved plan, please explain,			
23				
Closure Report Regardi	ng Waste Removal Closure For Closed-loop System	ms That Utilize Above Grou	and Steel Tanks or Haul-off Bins Only:	
unstructions: Please iden. were utilized,	tify the facility or facilities for where the liquids, dri	illing fluids and drill cutting	ind Steel Tanks or Haul-off Bins Only: s were disposed. Use attachment if more than two facilities	
Disposal Facility Nam		Disposal Facility Pr		
Disposal Facility Name	e:	Disposal Facility Pe		
Were the closed-loop s	system operations and associated activities performed	I on or in areas that will not b	or used for future service and amendious?	
res tir yes, piease	(demonstrate compliane to the items below)	No	to the service and operations;	
Required for impacted	areas which will not be used for future service and o	perations.		
	Photo Documentation) ad Cover Installation			
	dication Rates and Seeding Technique			
24	termique			
	achment Checklist: Instructions: Each of the foil	awing itams must be sweet.	d to the closure report. Please indicate, by a check mark in	
		owing uems musi pe anache	a to the closure report. Please indicate, by a check mark in	7
Proof of Closure	Notice (surface owner and division)			
	otice (required for on-site closure)			
	site closures and temporary pits)			
	npling Analytical Results (if applicable)			
Waste Material Sa	ampling Analytical Results (if applicable)			
	Name and Permit Number			
	nd Cover Installation plication Rates and Seeding Technique			
	(Photo Documentation)			
On-site Closure L		I amateu ta		
		Longitude:	NAD	
5				
Derator Closure Certif	fication:			
hereby certify that the info	rmation and attachments submitted with this closure	report is ture, accurate and e	complete to the best of my knowledge and belief. I also certif	6) churc
ie ciosure complies with al	l applicable closure requirements and conditions spe	cified in the approved closur	e plan.	s inul
lame (Print):		Title:		
ignature:				
		Date:		
mail address:		Telephone:		
				- 1

County: Basin: Number: Suffix:				NAD27 V
		ch Radius:	Zone: Sear	NAD27 X: Y:
Owner Name: (First) (Last) C Non-Domestic C Domest		Suffix:	Number:	County: Basin:
(Cast)	ic © Al	Domestic O Domestic	C Non-l	Owner Name: (First)
POD / Surface Data Report Avg Depth to Water Report Water Column Re	ort	Water Column Report	Pepth to Water Report	POD / Surface Data Report

WATER COLUMN REPORT 08/20/2008

						3=SW 4=5							
	(quarte:					smalles	st)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	Q C	PI	Zone	x	Y	Well	Water	Column	•	
SJ 01874	29N	09W	02						28	8	20		
SJ 02347	29N	09W	02	1					25	4	21		
SJ 01983	29N	09W	02	1					25	3	22		
SJ 02346	29N	09W	02	1					25	4	21		
SJ 03138	29N	09W	02	1 1	. 1				11	5	6		
SJ 03044	29N	09W	02	1 1	. 2				10	-			
SJ 03396	29N	09W	02	1 1	. 2				10	4	6		
SJ 02677	29N	09W	02	1 1	. 3				21	7	14		
SJ 02492	29N	09W	02	1 1	. 3				13	5	8		
SJ 02478	29N	09W	02	1 1	. 3				16	8	8		
SJ 02096	29N	09W	02	1 1	4				27	11	16		
SJ 01067	29N	09W (02	1 1	. 4				25	10	15		
SJ 01066	29N	09W (02	1 1	4				25	10	15		
SJ 01183	29N	09W (02	1 1	4				24	11	13		
SJ 03632	29N	09W (02	1 2	2				27	7	20		
SJ 01232	29N	09W (02	1 3					25	9	16		
SJ 03080	29N	09W (02	1 3					35		_ +		
SJ 01210	29N	09W (02	1 3	1				26	10	16		
SJ 01460	29N	09W (02	1 3	1				19	8	11		
SJ 01430	29N	09W (02	1 3	1				24	11	13		
SJ 01203	29N	09W (02	1 3	1				25	12	13		
SJ 01392	29N	09W (02	1 3	2				25	11	14		
SJ 03003	29N	09W (02	1 3	2				19	6	13		
SJ 01867	29N	09W (02	1 3	2				25	71	-46		
SJ 01579	29N	09W (02	1 3	2				25	12	13		
SJ 03253	29N	09W ()2	1 3	2				16	9	7		
SJ 02600	29N	09W (1 4	3				18	8	10		
SJ 03687	29N	09W (02	1 4	3				18	10	8		
SJ 03687 POD1	29N	09W ()2	1 4	3				18	10	8		
SJ 03127	29N	09W 0)2	2 1	2				17	10	7		
SJ 02376	29N	09W C)3	1 2	4				13	10	3		
SJ 02369	29N	09W C	03	1 2	4				23		3		

Township: 28N Rang	e: 08W Sections:	
NAD27 X: Y:	Zone: Sea	rch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-	-Domestic © Domestic © All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear	Form iWATERS Menu Help	

WATER COLUMN REPORT 08/21/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)

(व्ययः	arter	s are	e big	399	est	: to	smallest)			Depth	Depth	Water (i	in
POD Number	Tws	Rng	Sec	P	Q	Q	Zone	x	Y	Well	Water	Column	
SJ 02283	28N	08W	14	4	2	1				540	480	60	
SJ 00209	28N	08W	17	3	2	1				15			
SJ 00209 -AMENDED-S	28N	08W	17	4	1	1				15			
SJ 00209 S	28N	08W	17	4	1	1				15		15	
SJ 00163 S	28N	08W	18	4	4	2				1450	800	650	

Record Count: 5

Township: 28N Range:	99W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic All
POD / Surface Data Report	Avg Depth to Water Report Water Column Report
Clear F	form iWATERS Menu Help

WATER COLUMN REPORT 08/21/2008

	(quarter	s are	1=1	W	2=	NE :	$3=SW \ 4=SE)$						
	(quarter	s are	big	jg e	est	to	smallest)			Depth	Depth	Water (in	a
Number	Tws	Rng	Sec	q	q	Q.	Zone	x	Y		_	Column	_
03746 POD1	28N	09W	20	1	2	3				190	40	150	

 SJ 03746 POD1
 28N 09W 20 1 2 3
 190 40 150

 SJ 00018
 28N 09W 20 3 1 4
 135 71 64

 SJ 02800
 28N 09W 24 4 2 3
 200

Record Count: 3

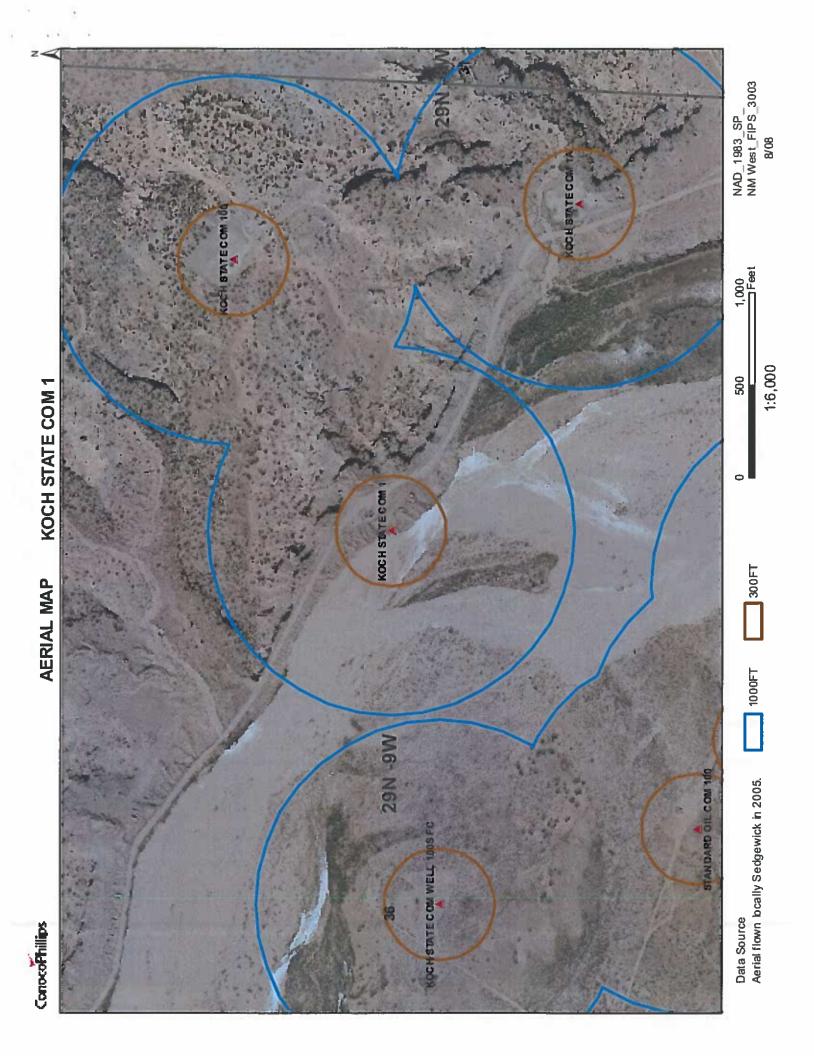
POD

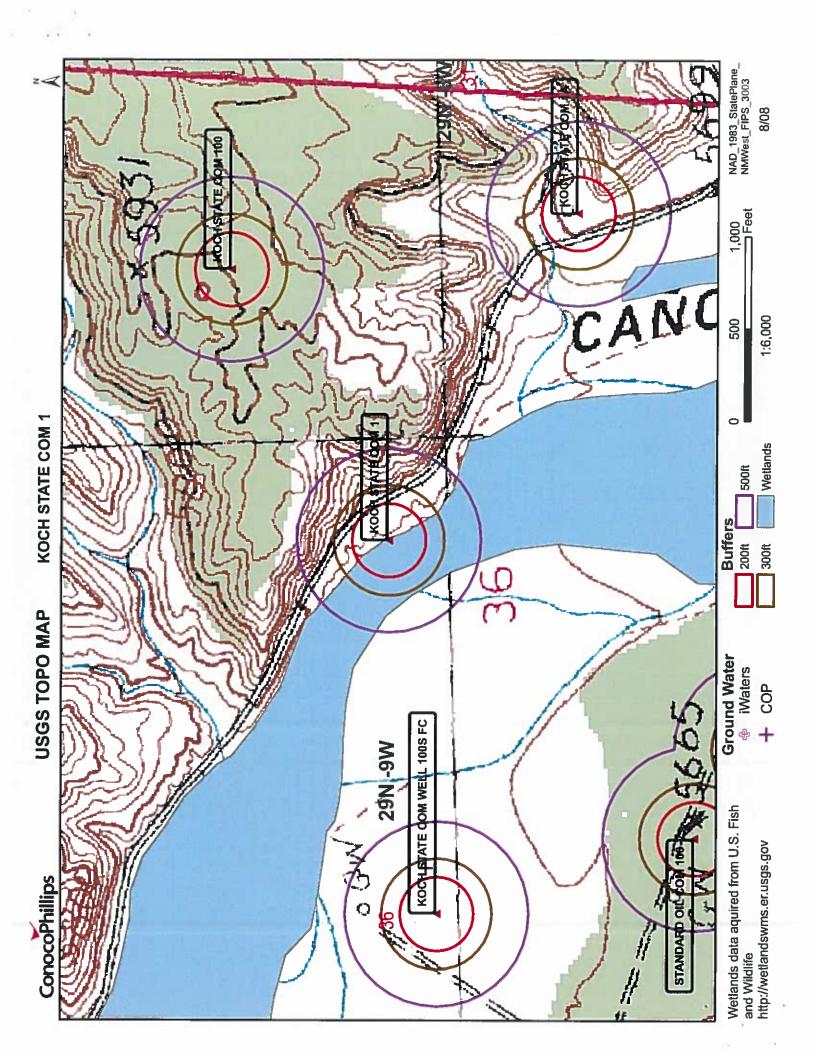
NAD27 X: Y:	Zone: Search Radius:	
County: Basin:	Number: Suffix:	
Owner Name: (First)	(Last) C Non-Domestic C Domestic	Al
POD / Surface Data Report	Avg Depth to Water Report Water Column Report	

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	a 1=1	NW	2=	NE	3=SW 4=SE)							
	(quarter	s are	e bi	gge	est	to	smallest)			Depth	Depth	Water	(in f	eet)
POD Number	Tws	Rng	Sec	q	Q.	Q.	Zone	X	Y	Well	Water	Column		
SJ 00028	29N	08W	01	2	1	4				606	300	306		
SJ 00196	29N	08W	09	3						1624	500	1124		
SJ 00003	29N	08W	18	1						525				
SJ 00004	29N	08W	18	1						591	70	521		
SJ 03050	29N	08W	18	2	3	2				600				
SJ 00019	29N	W80	21	2						502				
SJ 00005	29N	08W	21	3						606	406	200		
SJ 00025	29N	08W	21	3						606	406	200		
SJ 00006	29N	08W	26	2						560				

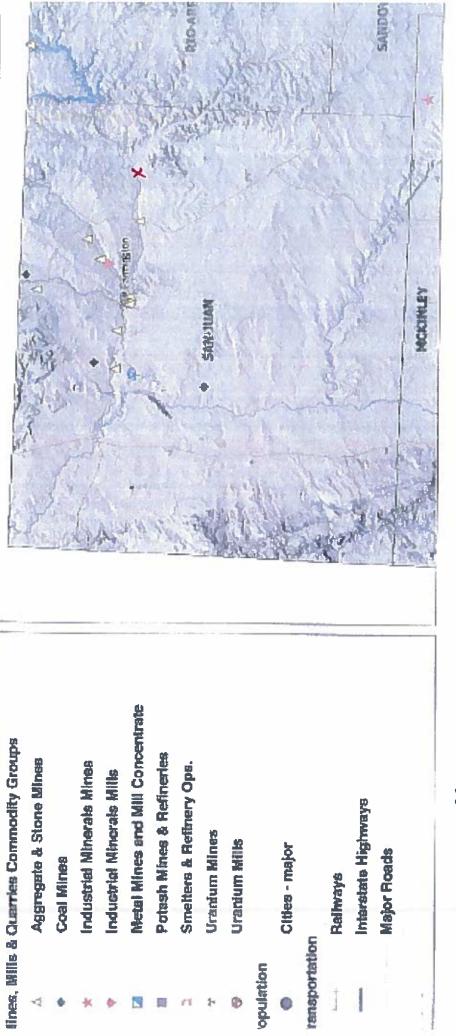
Record Count: 9





Mines, Mills and Quarries Web Map

KOCH STATE COM 1 Unit Letter: G, Section: 36, Town: 029N, Range: 009W







APPROXIMATE SCALE NATIONAL FLOOD INSURANCE PROGRAM EFFECTIVE DATE: AUGUST 4, 1988 FIRM FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 350084 0575 SAN JUAN COUNTY, NEW MEXICO UNINCORPORATED AREAS PAREL 575 OF 1450 DRIE MAY INDEX FOR FARELS HOT FY MART, LOCATION 25 129N 23 92 TON **ZONE X** ZONE A

KocH State Com 1

KOCH STATE COM 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'KOCH STATE COM 1', which is located at 36.68402 degrees North latitude and 107.73257 degrees West longitude. This location is located on the Cutter Canyon 7.5' USGS topographic quadrangle. This location is in section 36 of Township 29 North Range 9 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 Turley, located 5.3 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 26.5 miles to the west (National Atlas). The nearest highway is US Highway 64, located 3.6 miles to the north. The location is on State land and is 1,935 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 1724 meters or 5654 feet above sea level and receives 12 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Mixed Bedrock Canyon and Tableland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is -20 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 379 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,972 feet to the southeast. The nearest water body is 5,790 feet to the west. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 4,351 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 2,145 feet to the west. The nearest wetland is a 845.9 acre Ravine located 156 feet to the west. The slope at this location is 19 degrees to the west as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is MODERN ALLUVIUM--Includes Piney Creek Alluvium and younger deposits with a Quaternary age younger alluvium and surficial deposits substrate. The soil at this location is 'River wash' and is poorly drained and all hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 21.2 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

Quaternary and recent deposits in the San Juan Basin include stream-deposited alluvium and older terrace deposits, landslide deposits, and Aeolian sand. Most Quaternary and younger deposits area unconsolidated and form a thin covering over older bedrock sediments.

Stream-deposited alluvium and older terrace deposits are associated with major streams and rivers in the San Juan Basin. The alluvium consists of unconsolidated sediments that range from silt to cobbles in size but predominantly are sand and gravel. Along major streams the alluvium is varied in composition, depending on the mix of material from the various erosion source areas and fluvialy-driven sorting. Alluvial deposits also occur as a thin veneer of fine-grained sediments in the valleys of intermittent streams. Landslide deposits are mapped on the northeastern flank of the Chuska Mountains and locally in the San Juan Mountains. These colluvial deposits consist of material derived from the topographically higher source areas. The landslide material on the flank of Chuska Mountains consists of reworked sand from the Chuska Sandstone; the deposits in the San Juan Mountains primarily are derived from volcanic or volcaniclastic sources.

Unconsolidated wind-blown deposits are common in the central part of the basin, although they generally are not mapped on small scale geologic maps. Typically, these deposits are very thin, but local dunes near dry washes, which are excellent sources of fine-grained material, may reach heights of 20 feet. These recent Aeolian deposits are not known to yield water to wells.

Hydraulic Properties:

In the absence of other sources of water, alluvial deposits, where present, are commonly relied upon as a source of water for domestic and livestock use. Along the major rivers and streams, wells are of conventional vertical design, whereas in the valleys of intermittent streams, where the hydraulic conductivities and saturated thickness are generally small, most wells are constructed as galleries of horizontal drains feeding to a central collector. Reported well yields range from less than 1 gallon per minute to as much as 1,100 gallons per minute. The median yield of 48 wells is 15 gallons per minute. Hydraulic conductivities of sand and gravel can vary from 10 to 1,000,000 gallons per day per foot squared (roughly 1 to 100,000 feet per day) (Freeze and Cherry, 1979, table 2.2.) but a more typical range is from 15 feet per day for fine sand to about 1,000 feet per day for coarse gravel (Lohman, 1972, table 17). Tests along the San Juan River upstream from Farmington indicate that the hydraulic conductivity of alluvium ranges from 0.006 to 220 feet per day (Peter et al, 1987, p. 29). The thickness of alluvium at this site was reported to range from about 14 to 61 feet, and the saturated thickness was less than 25 feet in all 13 test holes. Water occurs in the alluvium under unconfined conditions. No tests have been made where the storage coefficient of the alluvium was determined. However, a typical specific yield for moderate to well-sorted unconsolidated sediments would be in the range of 0.1 to 0.25.

No known hydraulic data exists for the landslide and recent Aeolian deposits in the basin. No instances are known where these deposits are used as a source of water.

References:

Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood cliffs, N.J., Prentice-Hall, Inc., 604 p. Lohman, S.W., 1972, Ground-water hydraulics: U.S.G.S. Professional Paper 708, 70 p. Peter, K.D., Williams, R.A., and King, K.W., 1987, Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S.G.S. Water Resources Investigations Report 87-4246, 69 p.

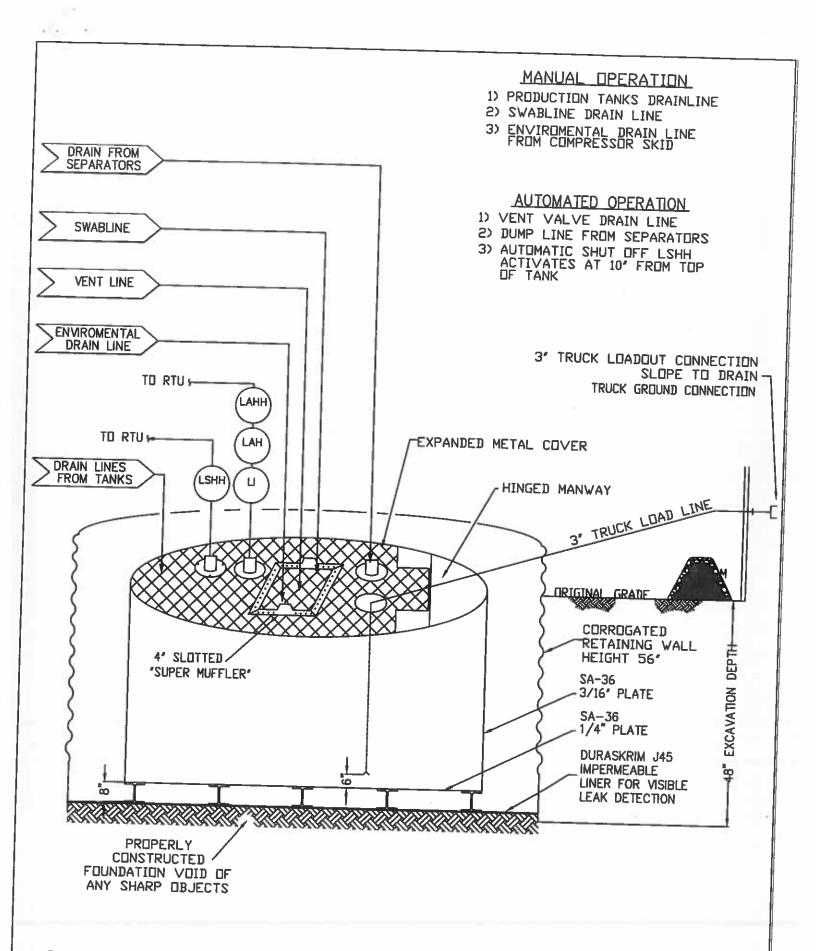
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

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

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



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK OPEN TOP GRAVITY FLOW TANK INTERNALLY COATED WITH 12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J	30BB	J3	6BB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance		Blac	ck/Black	Black	k/Black	Black/Black		
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil		
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	45 mil	
Construction	•	**Ext	rusion laminated				(30.24)	
Ply Adhesion ASTM D 413		16 lbs	20 lbs	19 lbs				
	9			19 lbs	24 lbs 113 lbf MD 87 lbf DD 750 MD 750 DD	25 lbs 110 lbf MD 84 lbf DD 550 MD 550 DD	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD 550 MD 550 DD			138 lbf MD 105 lbf DD 750 MD 750 DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD					
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezold Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD <0.5 99 lbf 180° F	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1		
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf				
Maximum Use Temperature					83 lbf	80 lbf		
		180° F	180° F	180° F	180° F	180° F		
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F	

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

RAVEN

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain
 the integrity of the liner, liner system and secondary containment system to
 prevent contamination of fresh water and protect public health and environment.
 BR will accomplish this by performing an inspection on a monthly basis, installing
 cathodic protection, and automatic overflow shutoff devices as seen on the
 design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 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:

- 1. 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 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 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
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade 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

Burlington Resources /Conoco Phillips BGT REGISTRATION

✓ 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
19.15.17.13 NMAC CLOSURE PLAN
✓ Below Grade Tank Closure Plan
REGISTRATION DATE:
07/16/2015
NOTES: