District J

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

Form C-144

tanks, submit to the appropriate NMOCD District Office

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

4204	-1
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Pit, Closed-Loop System, Below-Grade Tank, or 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 hability 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 applic	able 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: SCOTT 103	
API Number: 30-045-34568 OCD Permit Nu	imber.
U/L or Qtr/Qtr: B(NW/NE) Section: 12 Township: 30N Range:	12W County: San Juan
Center of Proposed Design: Latitude: 36.831986 °N Longitude:	108.047209 °W NAD: ☐ 1927 🗶 1983
Surface Owner: Federal State X Private Tribal Trust or In	dian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary. Drilling Workover Permanent Emergency Cavitation P&A	
	HDPE PVC Other
String-Reinforced	
	bbl Dimensions L x W x D
3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation. P&A Drilling a new well Workover or Drilling (Applie notice of intent)	es to activities which require prior approval of a permit or
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE Liner Seams: Welded Factory Other	& DECEIVED
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC	automatic overflow shut-off OCT 2009
Volume: 120 bbl Type of fluid: Produced Water	
Tank Construction material Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and	automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other	4.08 L 9
Liner Type: Thickness 45 mil HDPE PVC X Other	LLDPE
5 Alternative Method:	
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Env	ironmental Bureau office for consideration of approval
Deceptions of an exception request is required. Exceptions must be submitted to the Sama Pe Env	nonmental Bureau office for consideration of approval

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.								
Netting: Subsection E of 19 15.17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)								
Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19 15.3 103 NMAC								
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consi (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	deration of ap	proval.						
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. 	Yes	No						
(Applied to permanent pits)	XNA							
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. 	Yes	XNo						
 NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Written approval obtained from the municipality 	Yes	XNo						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	X No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	X No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	XNo						
Within a 100-year floodplain - FEMA map	Yes	XNo						

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions. Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
Trydrogeologic Data (Temporary and Emergency Firs) - based upon the requirements of Faragraph (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 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 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 19.15.17.10 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
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15 17.9 NMAC
Stung Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15.17 11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
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
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
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method. X Waste Excavation and Removal
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.
Please 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 Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 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		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings.	<u>s Only:</u> (19.15.17.13.D NMAC) Use attachment if more than two facilities	
are required.		
	nit #:	
	nit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas the Yes (If yes, please provide the information No	at will not be used for future service and oper	ations?
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 I of 19.15.17.13 N Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17.1	MAC	
17		
Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMAC Instructions Each string criteria requires a demonstration of compliance in the closure plan Recommendations of accepta certain string criteria may require administrative approval from the appropriate district office or may be considered an exc for consideration of approval. Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 10	ception which must be submitted to the Santa Fe Environ	
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	∐N/A	
Ground water is between 50 and 100 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 more than 100 feet below the bottom of the buried waste.	Yes	No
- NM Office of the State Engineer - ıWATERS 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 lakebe (measured from the ordinary high-water mark)	ed, sınkhole, or playa lake	No
- Topographic map, Visual inspection (certification) of the proposed site	ital and assista	□No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of ini - Visual inspection (certification) of the proposed site, Aerial photo; satellite image	itial application. Yes Yes	□No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the init - 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 repursuant to NMSA 1978, Section 3-27-3, as amended.	domestic or stock watering tual application.	□No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland	Yes	□No
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of th Within the area overlying a subsurface mine. 	e proposed site	П
Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division		
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; l	Yes NM Geological Society;	No
Topographic map		
Within a 100-year floodplain FEMA map	,Yes	∐No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items	must bee attached to the closure plan. Please	indicate,
by a check mark in the box, that the documents are attached. 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		`
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirem		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the		1AC
Protocols and Procedures - based upon the appropriate requirements of 19 15.17.13 NMAC	•	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subse	ection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19	9.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in c	ase on-site closure standards cannot be achieve	ed)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 N		
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 N		
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.1	13 INIVIAC	

Form C-144 Oil Conservation Division

19 Operator Application	Certification:		
	nformation submitted with this application is	true, accurate and complete to the	e best of my knowledge and belief.
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Constal Taloya	Date:	10/22/2009
e-mail address:	crystal tafoya@conocophillips.com		505-326-9837
20 OCD Approval: OCD Representative		Zell	OCD Conditions (see attachment) Approval Date: 11/2/09
Title:	Enviro Bpcc	OCD Peri	mit Number:
Instructions. Operators of the contraction of the second is required to be s		an prior to implementing any clos completion of the closure activiti we been completed.	sure activities and submitting the closure report. The closure es Please do not complete this section of the form until an
		Closur	re Completion Date:
Closure Method: Waste Excavatio If different from	n and Removal On-site Closure Mapproved plan, please explain.	Aethod Alternative Closure	e Method Waste Removal (Closed-loop systems only)
23			
	ing Waste Removal Closure For Closed-loo ntify the facility or facilities for where the liq		round Steel Tanks or Haul-off Bins Only: tings were disposed. Use attachment if more than two facilities
Disposal Facility Nan	ie	Disposal Facilit	y Permit Number:
Disposal Facility Nan	ne:	Disposal Facility	y Permit Number:
Were the closed-loop	system operations and associated activities p	erformed on or in areas that will n	tot be used for future service and opeartions?
Yes (If yes, pleas	e demonstrate complilane to the items below) No	
	d areas which will not be used for future serv	ice and operations	
=	(Photo Documentation)		
= -	and Cover Installation oplication Rates and Seeding Technique		
	opineation Rates and Securing Technique		
24 Closure Report At	itachment Checklist: Instructions: Each of	of the following items must be att	ached to the closure report. Please indicate, by a check mark in
the box, that the doci			
=	e Notice (surface owner and division)		
=	Notice (required for on-site closure)		
=	n-site closures and temporary pits)		
=	ampling Analytical Results (if applicable)		
=	Sampling Analytical Results (if applicable	e)	
= '	y Name and Permit Number		
= *	and Cover Installation		
= 1	Application Rates and Seeding Technique		
	on (Photo Documentation)		N. D. 1007 D. 1000
On-site Closure	Location: Latitude:	Longitude	NAD
25 Operator Closure Ce I hereby certify that the i	<u>-</u>	his closure report is ture, accurate	e and complete to the best of my knowledge and belief. I also certify that
he closure complies with	all applicable closure requirements and con	uditions specified in the approved	
Name (Print):		Title:	·
Signature:		Date:	
e-mail address:		Telephone:	



Record Count:7

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are	1=NW 2=NE 3=	SW 4=SE)
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	(quarters are smallest to largest)					(NAD83 UTI	vi in meters)		In feet)			
	en de la companya de La companya de la co	Q	Q	Q				ai dhail		DepthD	epth '	Water
POD Number	County	64	16	4	Sec	Tws	Rng	X	Ϋ́	WellW	ater C	olumn
SJ 00322	Şan Juan	1	4	4	12	30N	12W	228453	4079478	66	40	26
SJ 00384	San Juan	2	3	4	12	30N	12W	228258	4079493	57	20	37
SJ 00643	San Juan		4	4	12	30N	12Ŵ	228554	4079379	75	51	24
SJ 03020	San Juan	4	3	4	12	30 <u>N</u>	12W	228258	4079293	52	30	22
SJ 03027	San Juan	3	4	3	12	30N	12W	227663	4079309	1Ô0		
SJ 03129	San Juan	2	4	3	12	30N	12W	227863	4079509	44	35	9
SJ 03757 POD1	San Juan		4	4	12	30N	12W	228428	4079356	22	12	10

Average Depth to Water: 31 feet

Minimum Depth: 12 feet

Maximum Depth: 51 feet



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

	(quarter	s are	sma	llest t	o large:	st)	(NAD83 UT	M in meters)		In feet)	
POD Number	County		a Q 64	4.41.2	Tws	Rng;	X	The state of the s	Depth D Well W		
SJ 00135	San Juan		1 4	07	30N	11W	229764	4079745	180	23	157
SJ 00162	San Juan	**3	1 4	07	30N	11W	229663	4079644	58	23	3 5
SJ 00259	Şan Juan		4 2	07	30N	11W	230184	4080137	25	12	13
SJ 00329	San Juan	3	1 4	07	:30N	11W	229663	4079644	6 3	20	43
SJ 00358	San Juan	3	4 1	07	30N	11W	229289	4080055	61	38	23
SJ 00387	San Juan	3 4	4 1	07	30N	11W	229289	4080055		•	
SJ 00389	San Juan	3 4	4 1	07	30N	11Ŵ	229289	4080055	53		
SJ 00397	San Juan	3 4	4 1	.07	30N	11W	229289	4080055	56	35	21
SJ 00415	San Juan	3 4	4 1	07	30N	11W	229289	4080055	53	40	13
SJ 00601	San Juan	2	3 4	07	30N	11W	229844	4079443.	40	22	18
SJ 00604	San Juan	2 :	3 4	07	30N	11W	229844	4079443	38	22	16
SJ 00620	Sạn Juan	3	1 4	07	30N	11W	229663	4079644	52	35	1,7
SJ 00679	San Juan	3	1 4	07	30N	11W	229663	4079644	48	22	26
SJ 00688	San Juan	3 4	1 1	07	30N	11W	229289	4080055	70	58	12
SJ 00689	San Juan	3 4	1 1	07	30N	11W	229289	4080055	78	65	13
SJ 00690	Şan,Jua <u>n</u>	3 4	4. 1	07	30N	11W	229289	4080055	60		
SJ 00739	San Juan	3 4	1 1	07	30N	11W	229289	4080055	70	58	12
SJ 00748	Sạn Juan,	3 4	1 1	07	30N	11.W	229289	4080055	60	41	19
SJ 00769	San Juan	•	1 4	07	30N	11W	229764	4079745	50	14	36
ŜJ 00806	San Juan	3 4	1 1	07 [.]	30N	<u>1</u> 1W	229289	4080055	38	2 0	18
SJ:00882	San Juan	3 4	4 1	07	30 <i>N</i>	11W	229289	4080055	.60	50	10
SJ 00889	San Juan	3 4	4 1	07	30N	11W	229289	4080055	55		
SJ 00893	San Juan	:	2 4	07	30N	11W	230166	4079735	80	40	40
SJ 00918	San Juan	2 :	3 4	.07	30N	11,W	229844	4079443	35	14	21
SJ 00919	San Juan	2	3 4	.07	30N	11W	229844	4079443	35	12]	23
SJ 00920	San Juan	2 ;	3. 4	07	30 <u>N</u>	11W	229844	4079443	35	12	23
SJ 01172	San Juan	21	2 3	07	30N	11W	229375	4079755	50	30	20
SJ 01310	San Juan	,	3 3	.07	30N	11W	228950	4079364	80	50	30

POD Number	County	Q Q 0	Ell word to	Tws	Rng	×	Y.	Depth D Well W	epth V /ater©o	Sac 28 (3) 13
SJ 01404	San Juan	3 4	c1935-shion-ren-ren-ren-	30N	11W	229745	4079344	40	15	25
SJ 01406	San Juan	1 4	07	30N	11W	229764	4079745	45	1,2	33
SJ 01425	San Juan	4 3	07	30N	11W	229361	4079353	55	25	30,
SJ 01468	San Juan	4 3	07	30N	11W	229361	4079353	6 0	25	35
- SJ 01475	`~ 'San'Juan'	3.3 2	. 107	*-30N*	- 11W	229682	4080046	49	27	22
SJ 01484	San Juan	3 3	07	30N	11W	228950	4079364	61	10	51
SJ 01492	San Juan	3	07	30N	11W	229151	4079565	60	22	38
SJ 01567	San Juan	2 4 4	07	30N	11W	230247	4079431	35	14	21
SJ 01667	San Juan	3 4	07	30N	11W	229745	4079344	41	21	20
SJ 02005	San Juan	4 4 3	07	30N	11W	229460	4079252	55	20	35
SJ 02006	San Juan	2 4 3	07	30N	11W	229460	4079452	50	24	26
SJ 02140	Sạn Juạn	1 1 1	∕07	30N	11W	228886	4080666	70	60 ~	10
SJ 02194	San Juan		07	30N	11W	229553	4079967	59	22	37
SJ 02715	San Juan	4 4 3	07	30N	11W	229460	4079252	68	20	48
SJ 02906	San Juan	4 1 4	07	30N	11W	229863	4079644	45	24	21
SJ 02936	San Juan	1 1 4	07	30N	11W	229663	4079844	38	30	8
SJ 03271	San Juan	2 3 2	07	30N	11W	229882	4080246			
SJ 03465	San Juan	4 3 2	07	30N	11W	229882	4080046	· 80		
SJ 03484	San Juan	3 4 3	07	30N	11W	229260	4079252	75		
SJ 03630	San Juan	3 3 3	07	30N	11W	228849	4079263	68	24	44
SJ 03794 POD1	San Juan	3 1 3	07	30N	11W	228894	4079721	44	27	17
Record Count:49						1	Average Depth	ı to Water	: 28 feet	

Minimum Depth: 10 feet

Maximum Depth: 65 feet

⊐ Feet

Mar 6, 2009

USGS Topo

TIERRA CORROSION CONTROL, INC. DRILLING LOG

COMPANY: Conoco Phillips LOCATION: Utton 100S

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 2" X 60" Duriron DATE: April 21, 2008 LEGALS: S7 T30N R11W

DRILLER: Gilbert Peck
CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300'

_ANODE,AMOUNT:-10-

COUNTY: San Juan

DEPTH: 300' COKE TYPE: Asbury

PERF PIPE: 140'

BOULDER DRILLING: 54'

ne i	DEPTH	DRILLER'S	S ĻŌG	AMPS	DEPTH	DRILLER'S LOG	AMPS
*19.1	. 20	Bou	lders	The second	310		
	25	1 200			315		
	30			-	320	months of the second se	1
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,	≈35 mg ==	- 1111111111111111111111111111111111111	Andrew Control of the		325	The state of the s	Largestangereri*
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	45	,			335		
	- 50	Service of the servic	-		340===	The state of the s	1
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WATER DEPTH: 50' ISOLATION PLUGS: None LOGING VOLTS: 11:84

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 20.3

TOTAL GB RESISTANCE: 58

REMARKS:

Submit to Appropriate

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revisèd 1-1-89

District Office
State Lease - 6 copies
Fee Lease - 5 copies

DISTRICT I								. =	x .				
P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION									WELL API NO.				
DISTRICT II P. O. Box 2089									30-045-33717				
P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088									5. Indicate Type of Lease				
ਜ ਸਮਾਜਕਾਰ ਸਾ ਦੇ ਸਕਦਾਰ ਸਮਾਜਕਾਰ ਦੀ ਵਿੱਚ ਦੇ ਸਕਦਾ										STATE FEE X			
DISTRICT III								<u>-6</u>	State (Oil & Gas Lease No).		
1000 Rio Brazos Rd.,								<u> </u>	,,,,,,,				
WELL COM	PLETION O	RRECO	MPLE	TION RI	EPOR	RT ANI) LOG						
18 TYPE OF WELL		ora'						7	Lease	Name or Unit Agre	sement Name		
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WELL X OVER DEEPEN BACK RESVR OTHER										Utton			
2 Name of Operator									8/ Well No." 100S				
Burlington Resources 3 Address of Operator									9. Pool name or Wildcat				
PO BOX 4289, Farmington, NM 87499										Basin Fruitland Coal			
1 4 Well Location		_				•					* :		
Unit Let	ter , D	940 Feet	From The	North		Line and		.1190	Feet F	rom The We	est Line		
		- 	_			-			_				
Section		Town			Range ·			NMPM	San	Juan	County		
10. Date Spudded	11 Date T.D. F		12. Date C	cmpl. (Ready	to Prod.)	13. Eleva		RKB, RT, GR, e	tc.)	14. Elev. Casinghe	ead		
#/?8/07 15. Total Depth	1/29/0			107 4/2/07		18, Inte	5707' GF	<u> </u>	لــــــــــــــــــــــــــــــــــــــ		(I) (CIA)		
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19. Producing Interval(s), of this completion - Top, Bottom, Name 20. Was Di									onal Su	vey Made	Fr3		
	d Coal 1816' - 2	58'							No				
21. Type Electric and	-	*2						22 Was Well (12 4 TeV + T T				
Cased Hole ra	in GR/CCL.	040W6	DEAA	DD /D		4		No.	<u> </u>				
23				RD (Rep	··		<u> </u>	n well)					
CASING SIZE	WEIGHT	LB/FT. `		DEPTH SET HOLE SIZE			<u>E .</u>	CEMENTING RECORD			AMOUNT PULLED		
7" 20# J-55		133'				8 3/4" 6 1/4"		34 sx (5		4 cf)	4 bbls		
41/2"	10.5# J-55	2452'			0 1/4		340 sx (673 cf)		· · · · · · · · · · · · · · · · · · ·	50 bbls			
		100	7 5 7 2 4										
24.		LINER RE	CORD					25.		TUBING RECO	ORD		
SIZE	TOP	BOT	TOM	SACKS CE	MENT	SCR	EEN "	SIZE		DEPTH SET	PACKER SET		
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26. Perforation	record (interval	, size, and	(unitiber)		SHOT,			IENT, SQUEE.					
2000' - 2008' = 16	nofes			2000 - 20					% HCL Acid. Pumped 2000 gal 25#				
2035' - 2058' = 46	noles						X-Link P	re-Pad follow	lowed by 21546 Gal 25# Linear 75%				
UFC 1914' - 1934'	= 40 holes								20/40 Brady Sand & 676700 scf N2.				
@1SPF UFC 1816' - 1905 =	žÉ ĥolom			1816' - 19	34"				5% HCL Acid. Pumped 2000 gal 20# lowed by 20832 gal 25# Linear 70% N2				
Total holes = 13										Sand. 641300 s			
28.	*		<u>.</u>	PROD	UCTIC								
Date First Production	Pro	duction Metho	d (Flowing. c	gas lift, pumpin			mp)	Well S	tatus (F	rod. or Shut-in			
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Date of Test	Hours Tested	Choke Size		Oil - E	3 b 1.	Gas	MCF	Water - Bbl	. 1	Gas	s - Oil Ratio		
6/26/07	1 .	1/2"	Test Period	.]		10.42 m		6 bw			•		
Flow Tubing Press.	Casing Pressure	Calculated 24	F	Oil - Bbi	Gas	- MCF		-, ,	Gravity -	API - (Corr):	•		
	249#	Hour Rate			250	mcf/d	144 bwpc	<u>i </u>					
29. Disposition of Ga	, ,	l, vented, etc.)					Test Witnessed	Ву	F 4.5%			
To be sold													
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This will be a stand alone Basin Fruitland Coal well. Well making an excessive amount of water, may not test well. 31. / hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief													
31. I hereby certify th	at the information st	own on both,			d complete	e to the be	st of my kn	owledge and beli	of				
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Signature -	, were	11 com	Nam	e Tracey N.	MONTO		Title	Regulatory T	ecnnic	iia()	Date 6/28/07		





Data Source
Aerial flown locally Sedgewick in 2005
Wetlands Data Aquired from U.S. Fish
and Wildlife Http://wetlandswms er.usgs gov
USGS Topo

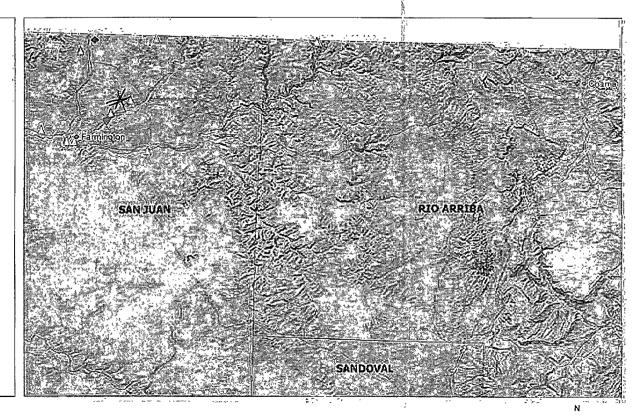
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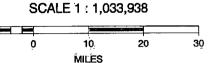
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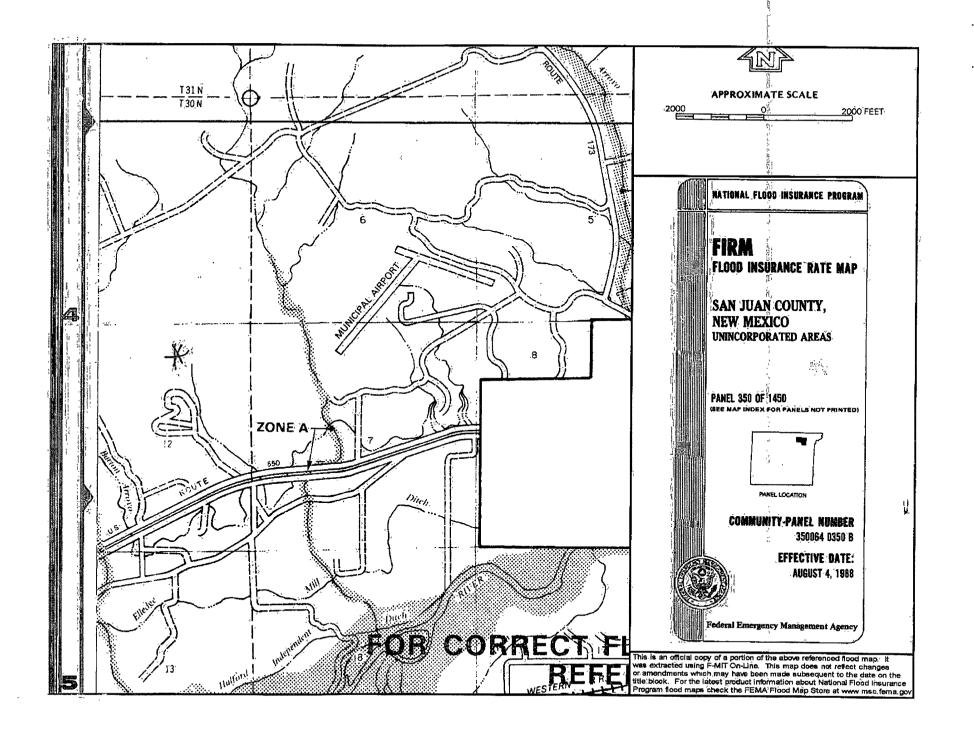
SCOTT 103 Mines, Mills & Quarries

Mines, Mills & Quarries Commodity Groups **Aggregate & Stone Mines** Ά **Coal Mines** * Industrial Minerals Mines Industrial Minerals Mills Metal Mines and Mill Concentrate **Potash Mines & Refineries** Smelters & Refinery Ops. **Uranium Mines Uranium Mills** Population Cities - major Transportation Railways Interstate Highways Major Roads









Hydrogeological Report for Scott 103

Regional Geological context:

The Nacimiento Formation is of Paléocene 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.

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The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it commformably 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, east-central 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 Mineral Resources, Hydrologic Report 6.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Scott 103 is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the Utton 100S has an elevation of 5707' and groundwater depth of 50'. The subject well has an elevation of 5816' which is greater than the Utton 100S, therefore the groundwater depth is greater than 150'. There are iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

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.

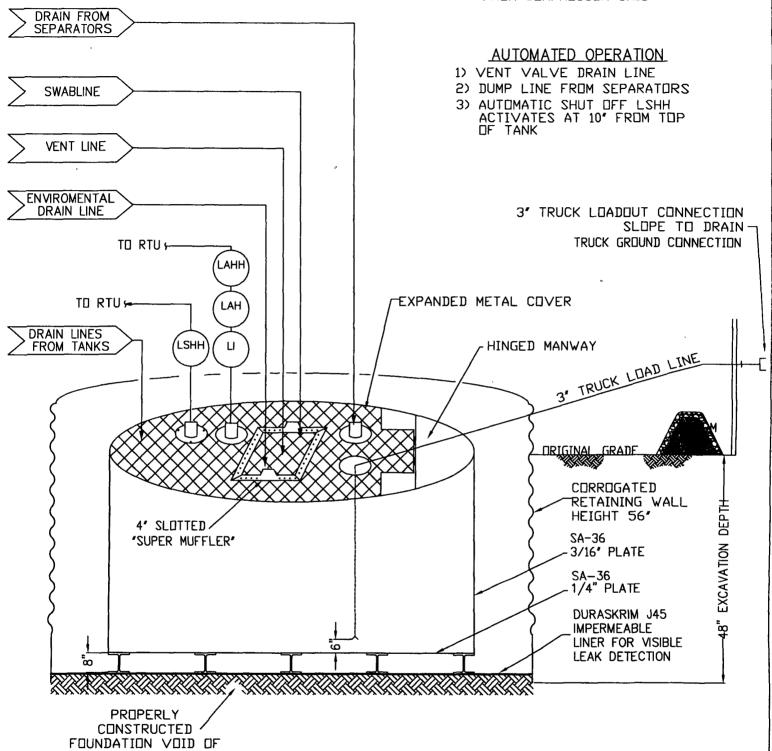
General Plan:

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

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

MANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID



ConocoPhillips

ANY SHARP DBJECTS

San Juan Business Unit

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

DURA-SKRIM®

180,186&145

PROPERTIES	TEST METHOD	J3	0BB	: J36	BB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance	TO TO THE		√Black	Black	Black	Black/Black		
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21,74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Extr	usion laminated	with encapsula	al scrim reinforcement			
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1"Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break! %" (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1-Tensile Elongation @ Peak % (Sorim 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	
Grabi Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-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

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

08/06

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.

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

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

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

General Plan:

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

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

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

General Requirements:

- 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 of 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
 - 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