District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District II

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

Form C-144 July 21, 2008

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

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

# 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 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: CHILDERS 1	
API Number: 3004510989 OCD Permit Number	ber:
	11W County: San Juan
	-107.94432°W NAD: X 1927 1983
Surface Owner: Federal X State Private Tribal Trust or Indi	an Allotment
String-Reinforced	HDPE PVC Other bbl Dimensions L x W x D
notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other	to activities which require prior approval of a permit or  HDPE PVD Other
4 X Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 120 bbl Type of fluid: Produced Water  Tank Construction material: Metal  Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and au  Visible sidewalls and liner Visible sidewalls only Other  Liner Type: Thickness mil HDPE PVC X Other	utomatic overflow shut-off  Unspecified
5  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envir	onmental 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, ins  Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	stitution or ch	urch)
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  X Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)		
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		
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:  X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Fencing/BGT Liner)	sideration of a	ipproval.
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 compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes X NA	No
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map  Within a 100-year floodplain  - FEMA map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X   Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19:15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API
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
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
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
14 Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Everystian and Removal Closure Plan Checklists (19.15.17.13 NMAC) Instructions: Each of the following items must be estanded to the closure plan.
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 I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C-144

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks o Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and are required.	r Haul-off Bins Only: (19.15.17.13.D NMAC) drill cuttings. Use attachment if more than two facilities	
Disposal Facility Name: Disposal	Facility Permit #:	
	Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur of Yes (If yes, please provide the information No	1/22	perations?
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specification - based upon the appropriate require  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of I  Site Reclamation Plan - based upon the appropriate requirements of Subsection G	9.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommenda certain siting criteria may require administrative approval from the appropriate district office or may be consideration of approval. Justifications and/or demonstrations of equivalency are required. Please re-	onsidered an exception which must be submitted to the Santa Fe Envir	
Ground water is less than 50 feet below the bottom of the buried waste.	Yes	s No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from	nearby wells N/A	1
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes	s No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from r	nearby wells N/A	`
Ground water is more than 100 feet below the bottom of the buried waste.	Tyes	s $\square$ No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from r		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercoursed from the ordinary high-water mark).		
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at  - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	the time of initial application.	No No
	Yes	No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five hous purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the	time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well field co- pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from		No
Within 500 feet of a wetland	Yes	□No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (cert	ification) of the proposed site	- July 1
Within the area overlying a subsurface mine.	Yes	No
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Div	sion V <sub>2</sub>	
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resort Topographic map	arces; USGS; NM Geological Society;	□ <sub>N0</sub>
Within a 100-year floodplain FEMA map	Yes	No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following	owing items must bee attached to the closure plan. Plea	se indicate,
by a check mark in the box, that the documents are attached.		
Siting Criteria Compliance Demonstrations - based upon the appropriate requirem		
Proof of Surface Owner Notice - based upon the appropriate requirements of Subs		
Construction/Design Plan of Burial Trench (if applicable) based upon the appropri		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - b		MAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.1  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.1		
Waste Material Sampling Plan - based upon the appropriate requirements of Subse		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cu		ved)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 1		veu)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19		
Site Reclamation Plan - based upon the appropriate requirements of Subsection G		

Operator Application	Certification:			
I hereby certify that the inf	formation submitted with this application is true, acc	curate and complete to the	best of my knowledge and belief.	
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician	
Signature:	Candal Tales	Date:	12/22/2008	
e-mail address:	crystal.tato a@conocophillips.com	Telephone:	505-326-9837	
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative S	ignature:		Approval Date:	_
Title:		OCD Perr	nit Number:	_
21				
Closure Report (requir	ed within 60 days of closure completion): Sub	section K of 19.15.17.13 NMA	c	
report is required to be sub	e required to obtain an approved closure plan prior omitted to the division within 60 days of the completi been obtained and the closure activities have been o	on of the closure activitie completed.	ure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an	3v.
		Closur	e Completion Date:	
22				
Closure Method:  Waste Excavation:  If different from ap	and Removal On-site Closure Method oproved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
23				
Closure Report Regardin	g Waste Removal Closure For Closed-loop System			
Instructions: Please identi, were utilized.	fy the facility or facilities for where the liquids, dril	lling fluids and drill cutti	ings were disposed. Use attachment if more than two facilities	
Disposal Facility Name		Disposal Facility	Permit Number:	
Disposal Facility Name		The state of the s	Permit Number:	4-6
Were the closed-loop sy	stem operations and associated activities performed	on or in areas that will no	ot be used for future service and opeartions?	
Yes (If yes, please	demonstrate complilane to the items below)	No		1 2
	areas which will not be used for future service and of	perations:		
The state of the s	Photo Documentation)			
Soil Backfilling and				
Re-vegetation Appl	ication Rates and Seeding Technique			
Closure Report Atta	chment Checklist: Instructions: Each of the foll	owing items must be atta	sched to the closure report. Please indicate, by a check mark in	n
the box, that the docum				
The second secon	Notice (surface owner and division) tice (required for on-site closure)			
	site closures and temporary pits)			
	AND TO SERVICE OF THE REAL PROPERTY OF THE PARTY OF			
	npling Analytical Results (if applicable)			
	ampling Analytical Results (if applicable)  Name and Permit Number			
The second secon	nd Cover Installation			
	plication Rates and Seeding Technique			
	(Photo Documentation)			
On-site Closure L		Longitude:	NAD   1927   1983	
			1727 1703	
25				
			and complete to the best of my knowledge and belief. I also cert losure plan.	tify that
Name (Print):		Title:		
Signature:		Date:		
-		_		
e-mail address:		Telephone:		1

# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31N Range: 11W Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All POD / Surface Data Report Avg Depth to Water Report Water Column Report Help Clear Form iWATERS Menu

### WATER COLUMN REPORT 08/20/2008

POD Number						smallest)				Depth	Depth	Water	(in	feet)
SJ 02395	31N	Rng 11W	1		_	Zone	X		Y	<b>Well</b> 95	Water	Column		
SJ 01640	31N	11W	2	4	2						35 7	60		
SJ 01551	31N	11W	2	4						32		25		
SJ 00560	31N	11W	2	4						64 39	42 25	22		
SJ 01729	31N	11W	2	4						48	28	14		
SJ 01541	31N	11W	3	4						52	30	20 22		
SJ 01539	31N	11W	3							52	30			
SJ 00946	31N	11W		3						135	100	22		
SJ 01540	31N	11W	4	5						52	30	35		
SJ 01879	31N	11W	4							26		22		
SJ 01801	31N	11W	4							22	8 15	18		
SJ 03413	31N	11W	4	2						60	15	1		
SJ 03412	31N	11W	4	2						60				
SJ 03736 POD1	31N	11W	4		1					19	6	13		
SJ 02495	31N	11W	4		1					28	12	16		
SJ 03623	31N	11W	4		1					30	16	14		
SJ 03264	31N	11W	4	2	2					20	11	9		
SJ 03124	31N	11W	4	2	4					20	5	15		
SJ 03125	31N	11W	4		4					20	5	15		
SJ 03712 POD1	31N	11W	4	3	1					19	11	8		
SJ 03018	31N	11W	4	3	4					20	8	12		
SJ 03670	31N	11W	4	3	4					26	10	16		
SJ 01538	31N	11W	4							52	30	22		
SJ 01683	31N	11W		4						45	25	20		
SJ 01731	31N	11W	4							43	25	18		
SJ 01644	31N	11W	4							23	6	17		
SJ 02149	31N	11W	4							35	0	11		
SJ 01645	31N	11W	4							22	6	16		
SJ 01767	31N	11W		4						42	18	24		
SJ 01730	31N	11W		4						40	24			
SJ 01699	31N	11W	4							42		16		
SJ 01609	31N	11W	4							40	12 18	30 22		

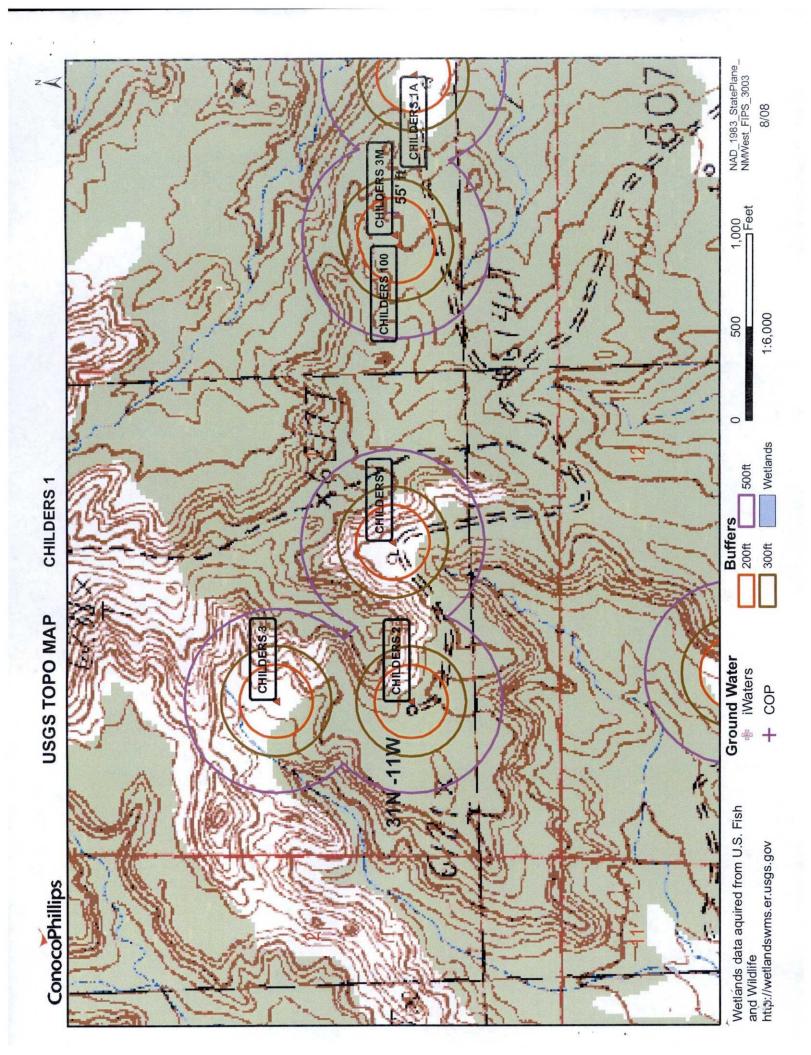
Silvania - July											
SJ 01537	31N	11W 13	4	4					52	28	24
SJ 01542	31N	11W 13	4	4							
SJ 01663	31N	11W 13	4	4					45	25	20
SJ 02093	31N	11W 13	4	4		W	470700	2143800	40	20	20
SJ 03440	31N	11W 13	4	4	1				20	6	14
SJ 03084	31N	11W 13	4	4	2				19	11	8
SJ 03085	31N	11W 13	4	4	2				18	8	10
SJ 02801	31N	11W 13	4		3				36	5	31
SJ 03064	31N	11W 13	4	4	3				45		
SJ 01142	31N	11W 13	4	4	4				30	8	22
SJ 02838	31N	11W 13	4	4	4				38	10	28
SJ 02855	31N	11W 13	4	4	4				31		
SJ 01173	31N	11W 13	4	4	4				46	28	18
SJ 02289	31N	11W 13	4	4	4				45	16	29
SJ 03458	31N	11W 19	3	3	4				140		
SJ 02978	31N	11W 23	2	1	3				800		
SJ 01817	31N	11W 23	2	4					65	20	45
SJ 02129	31N	11W 23	2	4					72	35	37
SJ 02161	31N	11W 23	3	4					40	25	15
SJ 01600	31N	11W 24	1						30	6	24
SJ 02124	31N	11W 24	1	1					55	40	15
SJ 03755 POD1	31N	11W 24	1	4			269112	2142037	27	7	20
SJ 03695 POD1	31N	11W 24	1	4					25	13	12
SJ 03695 POD	31N	11W 24	1	4	2				25	13	12
SJ 03696	31N	11W 24	1	4	2				24	12	12
SJ 03695	31N	11W 24	1	4	2				25	13	12
SJ 03696 POD1	31N	11W 24	1	4	2				24	12	12
SJ 01559	31N	11W 24	2	_					50	27	23
SJ 01744	31N	11W 24	2	2					44	20	24
SJ 01375	31N	11W 24	2	2	0				30	11	19
SJ 01986 S	31N	11W 24	2	2	2				45	30	15
SJ 01986	31N	11W 24	2	2	2				38	21	17
SJ 00555	31N	11W 24 11W 24	2	2	4				60 26	19 11	41 15
SJ 03408	31N 31N	11W 24	2	3	2				70	11	13
SJ 02928 SJ 02924	31N	11W 24	2	3	2				33	15	18
SJ 02924	31N	11W 24	2	3	3				45	18	27
SJ 02888	31N	11W 24	2		3				65	10	4
SJ 03650	31N	11W 24	2		3				32	15	17
SJ 00555 X	31N	11W 24	2	4	-				58	39	19
SJ 02839	31N	11W 24	2	4	1				55	19	36
SJ 03707 POD1	31N	11W 24	2	4					60	40	20
SJ 02758	31N	11W 24	2	4					69	51	18
SJ 02791	31N	11W 24	2	4					74	54	20
SJ 00379	31N	11W 24	2	4	4				65	40	25
SJ 00365	31N	11W 24	2	4	4				71	40	31
SJ 01670	31N	11W 24	3						45	27	18
SJ 00287	31N	11W 24	3	2	4				38	6	32
SJ 01553	31N	11W 24	3	4					44	35	9
SJ 02171	31N	11W 24	3	4	3				45	25	20
SJ 01366	31N	11W 24	4	1					30	11	19
SJ 02644	31N	11W 24	4	1	4				45	18	27
SJ 00913	31N	11W 24	4	3					81	55	26
SJ 01405	31N	11W 24	4	3					30	9	21
SJ 01455	31N	11W 24	4	3	4				101	66	35
SJ 01047	31N	11W 24	4	3	4				205	70	135
SJ 00405	31N	11W 24	4	3	4				69	42	27
SJ 03438	31N	11W 24	4	4	4				40		
SJ 03045	31N	11W 25	1	4	4				200		

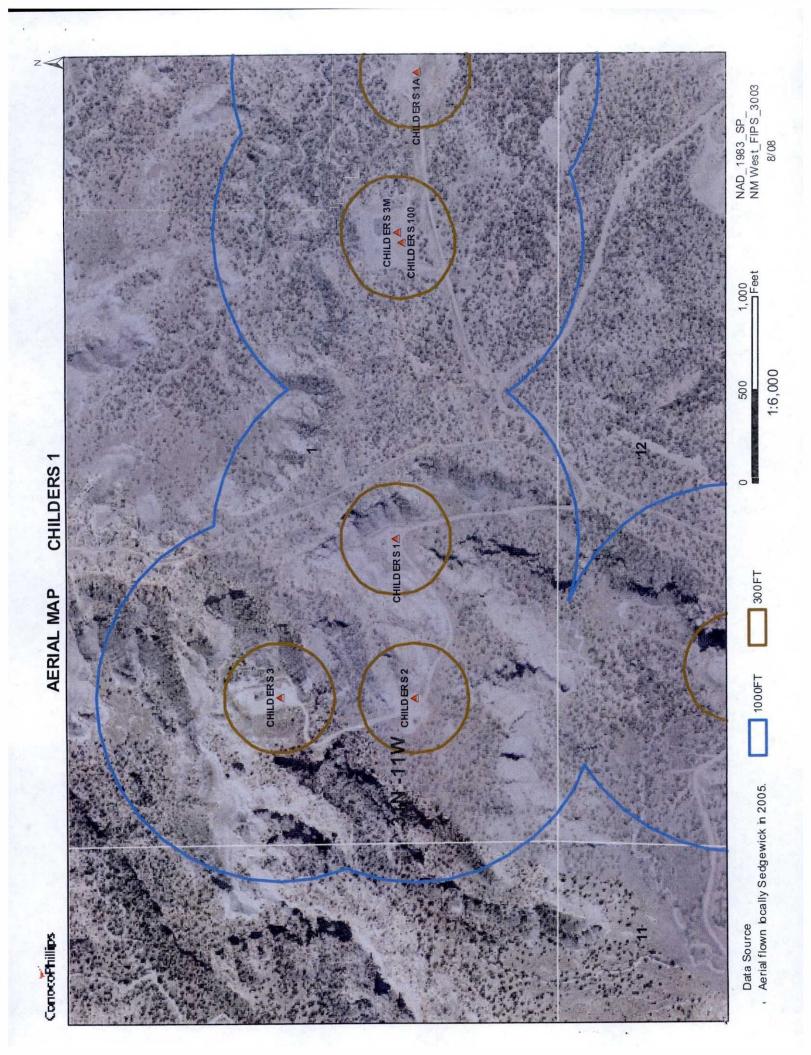
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SJ 03198	31N	11W 25	3	3	1		600	100	500
SJ 02834	31N	11W 25	3	3	3		200	160	40
SJ 03450	31N	11W 25	3	3	3		144	95	49
SJ 03126	31N	11W 26	1	1	1		41	21	20
SJ 01233	31N	11W 26	1	4			49	27	22
SJ 03158	31N	11W 26	1	4	2		280	25	255
SJ 00675	31N	11W 26	1	4	3		36	22	14
SJ 02887	31N	11W 26	1	4	4		51	28	23
SJ 02898	31N	11W 26	2	1	4		50		
SJ 01789	31N	11W 26	3	1			29	12	17
SJ 00705	31N	11W 26	3	1	1		18	8	10
SJ 00371	31N	11W 26	3	1	2		29	9	20
SJ 03323	31N	11W 26	3	1	4		30	6	24
SJ 00363	31N	11W 26	3	1	4		25	5	20
SJ 01545 X	31N	11W 26	3	3	-		27	10	17
SJ 00926	31N	11W 26	4	1			62	32	30
SJ 01519	31N	11W 26	4	2			69	47	22
SJ 01620	31N	11W 26	4	2			67	26	41
SJ 00610	31N	11W 26	4	2			80	50	30
SJ 02011	31N	11W 26	4	2			55	38	17
SJ 01628	31N	11W 26	4	2			66	25	41
SJ 03697 POD1	31N	11W 26	4		3		80	50	30
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	31N	11W 26	4	3			38	20	18
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SJ 03540		11W 27	4	2	1	268239 2135717	41	30	11
SJ 03772 POD1	31N 31N	11W 27	4	2	3	200239 2133/1/	25	15	10
SJ 02914	31N	11W 27	4	2	3		49	30	19
SJ 02468 SJ 02656	31N	11W 27	4	2	4		21	9	12
SJ 02871	31N	11W 27	4	2	4		22	11	11
SJ 02215	31N	11W 27	4	3	4		54	23	31
SJ 02676	31N	11W 27	4	3			19	7	12
SJ 03247	31N	11W 27	4		1		70	,	12
SJ 03505	31N	11W 27	4	3			50	14	36
Service of the Control of the Contro	31N	11W 27	4		3		49	30	19
SJ 02549 SJ 02853	31N	11W 27	1	3			22	6	16
SJ 02984	31N	11W 27	4	4			20		10
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SJ 01154	31N	11W 30	4	2			190	150	40
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SJ 01811	31N	11W 31	2				89	50	39
SJ 02994	31N	11W 33	4	3	2		300	200	100
SJ 02993	31N	11W 33	4	2011			280	160	120
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	31N	11W 34	1	4			58	40	18
SJ 01533			- 2				79	65	14
SJ 01251	31N 31N	11W 34 11W 34	1	4	1		24	14	10
SJ 03211	2 TIN	11W 34	1	4	1		44	14	10

SJ 01125	31N	11W 34	1	4	2			59	42	17
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SJ 02113	_ 31N	11W 34	2	3				12	4	8
SJ 00659	_ 31N	11W 34	2	3	1			33	11	22
SJ 00661	_ 31N	11W 34	2	3	1			52	32	20
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SJ 03780 POD1 SJ 02859	31N	11W 34	3	1	4	201922	2130341	22	6	16
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SJ 02856	31N	11W 34	3	2	3			24	6	18
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SJ 03710 POD1	31N	11W 34	3	3	2			20	4	16
SJ 03048	31N	11W 34	3	3	4			21	4	17
SJ 02857	31N	11W 34	3	4	1			23	6	17
SJ 03492	31N	11W 34	3	4	2			30		
SJ 03631	31N	11W 34	3	4	2			27	6	21
SJ 03493	31N	11W 34	3		2			25	15	10
SJ 03357	_ 31N	11W 34	3	4	2			22	6	16
SJ 03260	_ 31N	11W 34	3	4				41	3	38
SJ 03609	31N	11W 34	3	4	4			27	6	21
SJ 01608	_ 31N	11W 34	4	7	2			48	17	31
SJ 03720 POD1	_ 31N	11W 34		1				21	6	15
SJ 03497	31N	11W 34		1				30 25	10	20
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SJ 03016	31N	11W 34		3	1			25	3	22
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SJ 00985	_ 31N	11W 34		4	2			40	16	24
SJ 02827	31N	11W 35		1	2			60	E	16
SJ 03371	31N	11W 35		1				21	5	16
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SJ 02897	31N	11W 35	Τ	3	1			17	6	11

SJ 00333	31N	11W	35	1	3	4			30	6	24
SJ 03760 POD1	31N	11W	35	1	4	1	268465	2130772	43	12	31
SJ 03543	31N	11W	35	1	4	4			61	30	31
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SJ 00939	31N	11W	35	3					60	30	30
SJ 00940	31N	11W	35	3	1				64	15	49
SJ 01580	31N	11W	35	3	1	1			65	30	35
SJ 02932	31N	11W	35	3	1	2			27	14	13
SJ 02933	31N	11W	35	3	1	2			37	24	13
SJ 03574	31N	11W	35	3	1	4			100		
SJ 00591	31N	11W	35	3	1	4			83	54	29
SJ 00939 1	31N	11W	35	3	2				60	30	30
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Record Count: 229

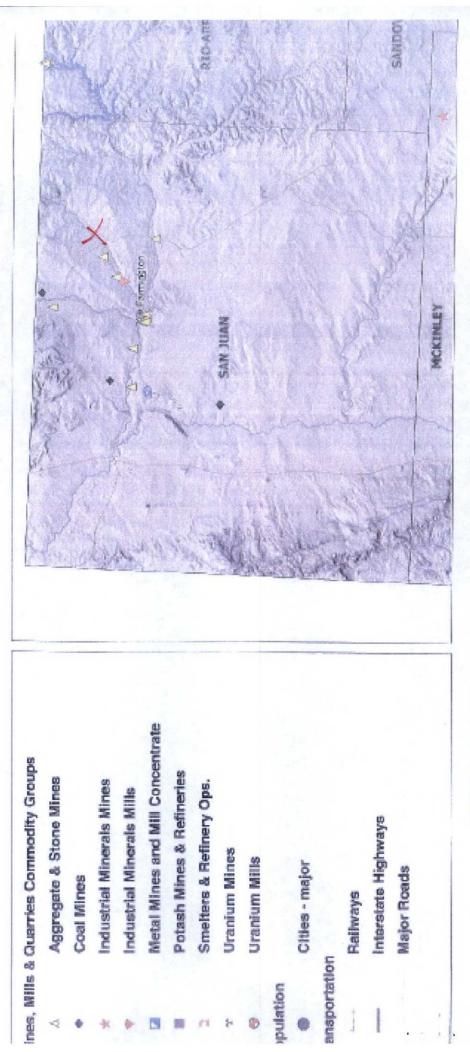




# Mines, Mills and Quarries Web Map

CHILDERS 1

Unit Letter: N, Section: 01, Town: 031N, Range: 011W



SCALE 1:1,180,363



APPROXIMATE SCALE EFFECTIVE DATE: August 4, 1988 NATIONAL FLOOD INSURANCE PROGRAM **FIRM** FLOOD INSURANCE RATE MAP PANEL 150 OF 1450 (SEE MAP INDEX FOR PANELS NOT PRINTED) COMMUNITY-PANEL NUMBER 350064 0150 SAN JUAN COUNTY, NEW MEXICO UNINCORPORATED AREAS PANEL LOCATION R 110 W T31 N ZONE X RIOW JOINS PANEL 0350 -(INDEFINITE WATER COURSE) 35 ZONE A **ZONEX** 

### **CHILDERS 1**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'CHILDERS 1', which is located at 36.92247 degrees North latitude and 107.94432 degrees West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 1 of Township 31 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 3.3 miles to the east. The nearest large town (population greater than 10,000) is Farmington, located 19.5 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 2.1 miles to the east. The location is on BLM land and is 1,955 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1864 meters or 6113 feet above sea level and receives 12 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 80 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 415 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,227 feet to the northeast. The nearest water body is 3,128 feet to the east. It is classified by the USGS as an intermittent lake and is 0.4 acres in size. The nearest spring is 6,001 feet to the west. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 1,409 feet to the east. The nearest wetland is a 58.7 acre Ravine located 4,298 feet to the southwest. The slope at this location is 7 degrees to the southwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Badland' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 4.0 miles to the northeast as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

### Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

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The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

# Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

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Territo Plateau: Four Corners

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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 Mines and Mineral Resources, Hydrologic Report 6.

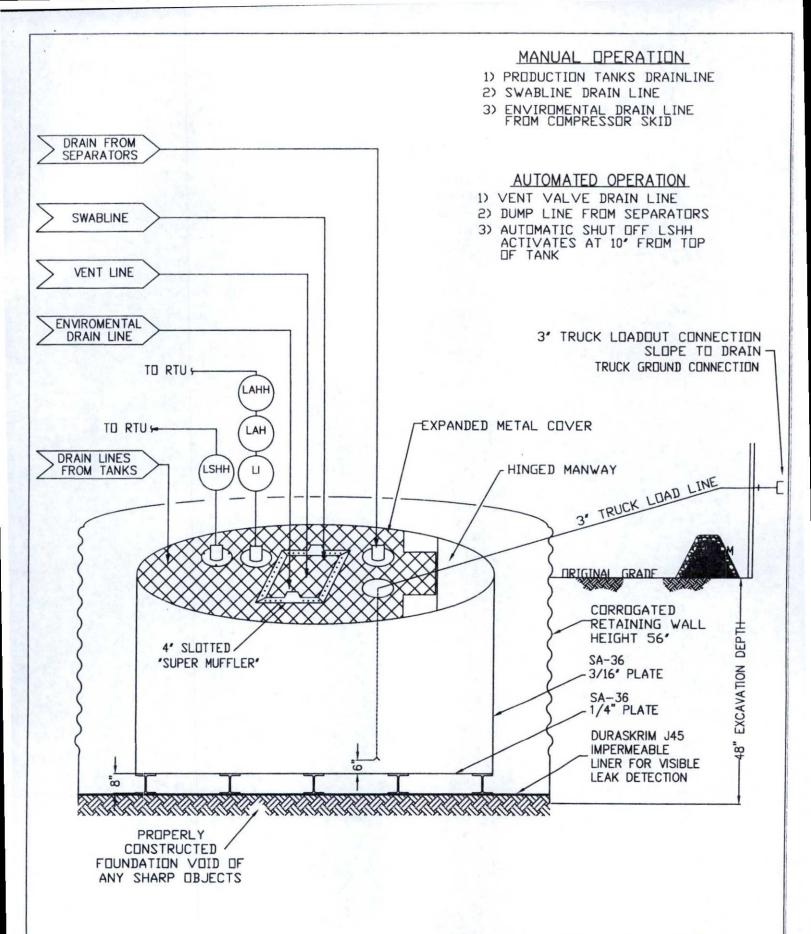
# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

# General Plan:

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

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



# ConocoPhillips

San Juan Business Unit

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

# DURA-SKRW®

# J30. J36 a J45

PROPERTIES	TEST METHOD	J3	OBB	J3(	BB	J45	BB
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Blac	k/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	9875p# T	**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinford	ement
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 % (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
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

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.
- 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 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 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

# OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19,15.17.9 Permit application
Signed C-144 (Page 5 of C-144)
Site Specific Hydrogeology
19.15.17.10 Siting requirements
New Mexico Office of State Engineer attachment
USGS TOPO map
Aerial Map
Mines, Mills and Quarries Web Map
FIRM map (flood insurance rate map from Federal Emergency Management Agency)
19.15.17.11 Design Plan Contents
Below Grade Tank Design and Construction Plan.
19.15.17.12 Operating and Maintenance Plan
Below Grade Tank Operating and Maintenance Plan
19.45.17.13 Closure Plan
Below Grade Tank Closure Plan
Requirements:
Registration Date: 2 13 2017 KC
Registration Date: 01/5 201/ NC