District I

1625 N French Dr., Hobbs, NM 88240

District II 1301 W Grand Ave , Artesia, NM 88210

District III 1000 Rio Brazos Rd , Aztec, NM 87410

District IV

State of New Mexico **Energy Minerals and Natural Resources** 

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

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

Form C-144

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

1220 S St Francis Dr , Santa Fe, NM 87505	appropriate NMOCD District Office									
9990	Pit, Closed-Loop System, Below-Grade Tank, or									
Prop	osed 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,									
Instructions, Planta submit on a	below-grade tank, or proposed alternative method									
	pplication (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request f this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the									
	eve 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										
Facility or well name: Sullivan 210										
API Number: 36	0-045-27082 OCD Permit Number:									
U/L or Qtr/Qtr: G(SW/NE) Section	on: 7 Township: 30N Range: 10W County: San Juan									
Center of Proposed Design: Latitude:	<b>36.9411950°N</b> Longitude: <b>107.5497580°W</b> NAD: <b>X</b> 1927 1983									
Surface Owner: Federal	X State Private Tribal Trust or Indian Allotment									
Permanent Emergency C Lined Unlined Li String-Reinforced	Actory Other Volume: bbl Dimensions L x W x D									
Type of Operation: P&A   Drying Pad Above Grou  Lined Unlined Line	tion H of 19.15 17 11 NMAC  Drilling a new well  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  and Steel Tanks  Haul-off Bins  Other  r type: Thickness  mil  LLDPE  HDPE  PVD Other									
X Below-grade tank: Subsection I Volume: 120 b Tank Construction material Secondary containment with leak de Visible sidewalls and liner Liner Type: Thickness 45	bl Type of fluid: Produced Water  Metal									

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15 17.11 NMAC (Applies to permanent 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, 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)	hospital, institution or church)
8	
Signs: Subsection C of 19.15.17.11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  X Signed in compliance with 19.15.3.103 NMAC	
9  Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance.	
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 of	ffice for consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10	
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 accept 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 critical does not apply to drying pads or above grade-tanks associated with a closed-loop system.	ne for
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 pla lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	laya Yes XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes X No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	XNA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock water purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	watering Yes X No
- 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 ordinand adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes X No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed s</li> </ul>	Yes XNo
Within the area overlying a subsurface mine.	Yes XNo
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area.	Yes X No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources, USGS; NM Geolog Society; Topographic map</li> </ul>	gical
Within a 100-year floodplain - FEMA map	Yes XNo

Form C-144 Oil Conservation Division Page 2 of 5

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 Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
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
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
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)
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   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   Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.13.17.13 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 Oil Conservation Division Page 3 of 5

16  Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S Instructions: Please identify the facility or facilities for the disposal of liquids, drilli	steel Tanks or Haul-off Bins Only: (19 15.17 13.D NMAC) In and the street of the stree	acılıties							
are required.	,								
Disposal Facility Name:	<del></del>								
Disposal Facility Name: Disposal Facility Permit #:									
Will any of the proposed closed-loop system operations and associated activity Yes (If yes, please provide the information No		ervice and operations?							
Required for impacted areas which will not be used for future service and operation  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Sub.  Site Reclamation Plan - based upon the appropriate requirements of Sub.	oriate requirements of Subsection H of 19.15.17 13 NMA6 section I of 19 15 17 13 NMAC	С							
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NM  Instructions Each siting criteria requires a demonstration of compliance in the closure plat certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are required.	n Recommendations of acceptable source material are provided belo ce or may be considered an exception which must be submitted to the								
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 of	blained from nearby wells	∐ <sup>N/A</sup>							
Ground water is between 50 and 100 feet below the bottom of the buried wa		Yes No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data of	otained from nearby wells	∐N/A							
Ground water is more than 100 feet below the bottom of the buried waste		Yes No							
- NM Office of the State Engineer - 1WATERS database search; USGS; Data of	otained from nearby wells	□N/A							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign (measured from the ordinary high-water mark)	ificant watercourse or lakebed, sınkhole, or playa lake	Yes No							
<ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church</li> </ul>	un existence at the time of initial application	Yes No							
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo, satellite ima</li> </ul>	••								
		Yes No							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less purposes, or within 1000 horizontal fee of any other fresh water well or spring, in ex - NM Office of the State Engineer - iWATERS database; Visual inspection (cert Within incorporated municipal boundaries or within a defined municipal fresh water	tistence at the time of the initial application.  ification) of the proposed site	∏Yes ∏No							
<ul> <li>pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval of</li> </ul>	obtained from the municipality								
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual in		☐Yes ☐No							
Within the area overlying a subsurface mine.	ispection (continuation) of the proposed site	☐Yes ☐No							
- Written confiramtion or verification or map from the NM EMNRD-Mining and	d Mineral Division								
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology &	Mineral Resources; USGS; NM Geological Society;	Yes No							
Topographic map									
Within a 100-year floodplain FEMA map		Yes No							
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each	ch of the following items must bee attached to the closur	e plan. Please indicate,							
by a check mark in the box, that the documents are attached.	into annihimanta e610.15.17.10.20.15.15								
Siting Criteria Compliance Demonstrations - based upon the appropriate requiren	•								
Construction/Design Plan of Burial Trench (if applicable) based upon									
Construction/Design Plan of Temporary Pit (for in place burial of a d	•• •	9.15.17.11 NMAC							
Protocols and Procedures - based upon the appropriate requirements									
Confirmation Sampling Plan (if applicable) - based upon the appropri									
Waste Material Sampling Plan - based upon the appropriate requirem	•								
Disposal Facility Name and Permit Number (for liquids, drilling fluid		nnot be achieved)							
Soil Cover Design - based upon the appropriate requirements of Subs									
Re-vegetation Plan - based upon the appropriate requirements of Sub									
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									

19 <b>Operator Applicat</b>	tion Certification:			
	he information submitted with this application	on is true, accurate and complete to th	e best of my knowledge and belief	
Name (Print)	Ethel Tally	Title:	Staff Regulatory Technician	
Signature.	The fell	Date:	10-24-08	
e-mail address:	Ethel Tally@ConocoPhillips.	Telephone:	505-599-4027	
20 OCD Assessed	Permit Application (including closur	o alon)	)	0
v		re plan) Closure Plan (only		
OCD Representati	ve Signature:	f-dl	Approval Date:	10/19/09
Title:	Enviro/spec	OCD Per	mit Number:	
	parene, specific			
Instructions: Operato report is required to be	equired within 60 days of closure com ors are required to obtain an approved closu be submitted to the division within 60 days of in has been obtained and the closure activition	re plan prior to implementing any clo of the completion of the closure activiti es have been completed.	sure activities and submitting the closure	•
22				
Closure Method:				
Waste Excava	ation and Removal On-site Close	ure Method Alternative Closur	e Method Waste Removal (Closed	-loop systems only)
If different fro	om approved plan, please explain.			
23				
	arding Waste Removal Closure For Close identify the facility or facilities for where the			
were utilized.	dentify the facility of facilities for where the	ie uquias, aritung jiutas ana artu cut	ungs were aisposea. Use anachmeni ij n	tore than two jacuties
Disposal Facility	Vame:	Disposal Facilit	y Permit Number:	1000
Disposal Facility	•		y Permit Number:	
	pop system operations and associated activit		not be used for future service and opeartic	ons?
	lease demonstrate complilane to the items be	_		
	icted areas which will not be used for future tion (Photo Documentation)	service and operations:		
=	ng and Cover Installation			
Re-vegetation	Application Rates and Seeding Technique			
24				
	Attachment Checklist: Instructions: E	ach of the following items must be at	tached to the closure report. Please indi	cate, by a check mark in
<b>—</b> ′	documents are attached.  Sure Notice (surface owner and division)	<b>.</b>		
	sure Notice (surface owner and division) ed Notice (required for on-site closure)	,		
=	or on-site closures and temporary pits)			
	n Sampling Analytical Results (if application	able)		
=	rial Sampling Analytical Results (if appli			
=	cility Name and Permit Number			
Soil Backfill	ling and Cover Installation			
Re-vegetatio	on Application Rates and Seeding Techni	ique		
_	ation (Photo Documentation)		_	
On-site Clos	ture Location: Latitude	Longitude:	NAD	7 🔲 1983
,				
25 O	Control			
Operator Closure  I hereby certify that to	Certification: he information and attachments submitted w	outh this closure report is ture, accurat	e and complete to the best of my knowled	ge and belief. I also certify that
	with all applicable closure requirements and	· · · · · · · · · · · · · · · · · · ·		y some somey man
Name (Print):		Title:		
_				
Signature:		Date:		
e-mail address:		Telephone:		

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

Township: 30N Range: 10W	Sections: 5,6,7,8,17,18									
NAD27 X: Y:	Zone: Search Radius:									
County: Basin:	Number: Suffix:									
Owner Name: (First) (Last)	○ Non-Domestic ○ Domestic ● All									
POD / Surface Data Report Avg	Depth to Water Report Water Column Report									
Clear Form iWATERS Menu Help										

#### WATER COLUMN REPORT 10/24/2008

	(quarte	rs ar	e 1=	NW :	2=NE	3=SW 4=SE)	+					
	(quarte	rs ar	e bi	gge	st to	smallest)	ŧ.		Depth	Depth	Water (i	n
POD Numb	er Tws	Rng	Sec	q e	a a	Zone	x	Y	Well	Water	Column	
SJ 03113	30N	10W	05	4	1 4				42	30	12	
SJ 00589	3.0N	1.0W	08	.1_	1 1				175	(150)	25	
SJ 00774	3:0N	10W	0.8	1	2_17				195	国60	35	
SJ 02316	30N	10W	80	1 :	3				210	98	112	
SJ 02102	30N	10W	80	1 :	3 4				190	90	100	
SJ 01527	30N	10W	80	2	2				120	60	60	
SJ 01193	30N	10W	80	2	2				100	70	30	
SJ 02808	30N	10W	80	2	3 4				165	105	60	
SJ 01102	30N	10W	80	2 -	4				200	159	41	
SJ 02998	30N	10W	80	3 :	3 1				260	117	143	
SJ 02772	30N	10W	80	4	2 2				200	160	40	
SJ 00523	30N	10W	80	4	4				160	120	40	

Record Count: 12

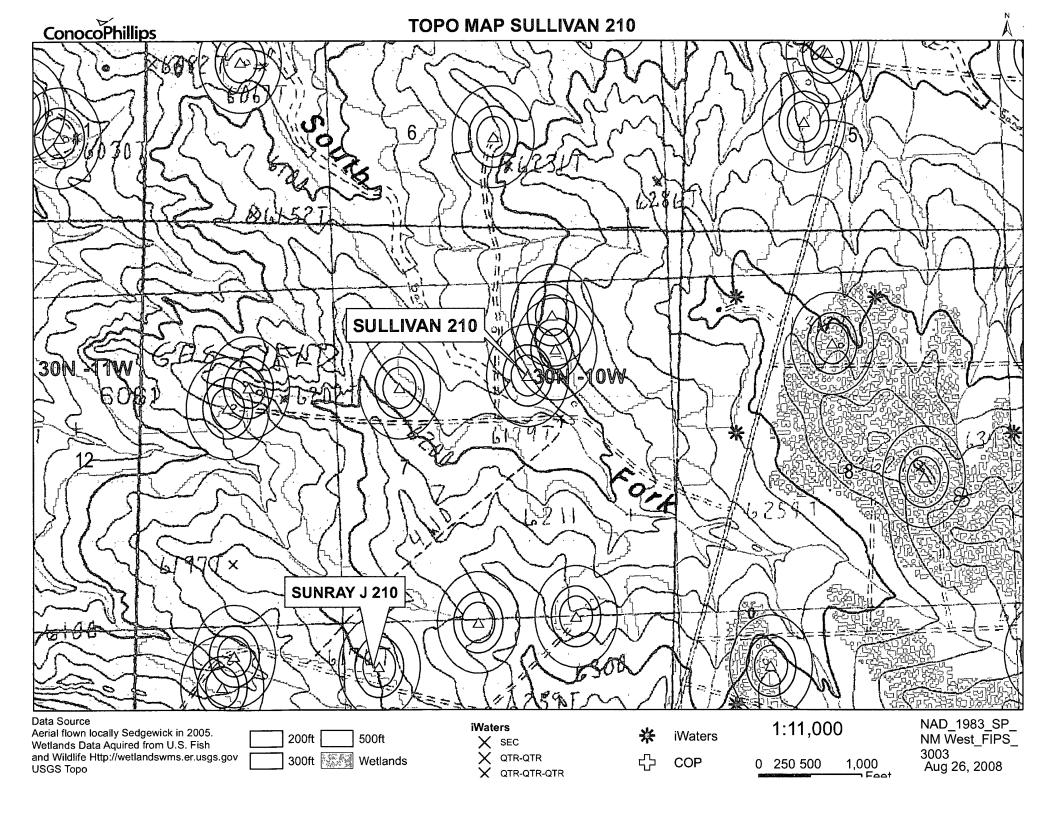
## New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30	N Range: 11W	Sections: 1,12	2,13						
NAD27 X:	. Y:	Zone:	Search Radius:						
County: I	Basin:		Number: Suffix:						
Owner Name: (First)	(Last)		ONon-Domestic ODomestic OAll						
POD / Surface Data Report Avg Depth to Water Report Water Column Report									
Clear Form iWATERS Menu Help									
encension amonatura encolorida Sancia e eleccricio que a mante en el mel Nerrado destrado de la materia e el m Encension									

#### WATER COLUMN REPORT 10/24/2008

	(quarter	s are	9 I=	TAM.	<b>4</b> =1	NE	3=5W 4=5E)					
	(quarter	s are	e bi	gge	est	to	smallest)			Depth	Depth	Water (in
POD Number	Tws	Rng	Sec	a	q (	a.	Zone	x	Y	Well	Water	Column
SJ 01720	30N	11W	13							225	90	135
SJ 03745 POD1	30N	11W	13	1	1	2				325	150	175
SJ 01693	30N	11W	13	1	3					225	89	136
SJ 01672	30N	11W	13	1	3					180	80	100
S.T. 01294	30N	1 1 W	13	1	3	3				9.2	52	40

Record Count: 5



#1 30-045-09617 #210 30-045-27082

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## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS. NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC.	Location: Unit SW Sec. 7 Twp30 Rng 10
Name of Well/Wells or Pipeline Servi	ced SUNRAY J #1, #210
	cps 2065w
Elevation6137' Completion Date 5/20/63	Total Depth 200' _Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have been N/A	en placed, show depths & amounts used
Depths & thickness of water zones wiferesh, Clear, Salty, Sulphur, Etc.	th description of water when possible:
	.^
Depths gas encountered: N/A	
Type & amount of coke breeze used:	1445 lbs.
Depths anodes placed: 175', 135', 129',	in the second se
Depths vent pipes placed: N/A	MAY 2 2 200
Vent pipe perforations: N/A	MAY31 1991
Remarks: (gb #1 ; gb#2, gb#	S DIL CON. DIV

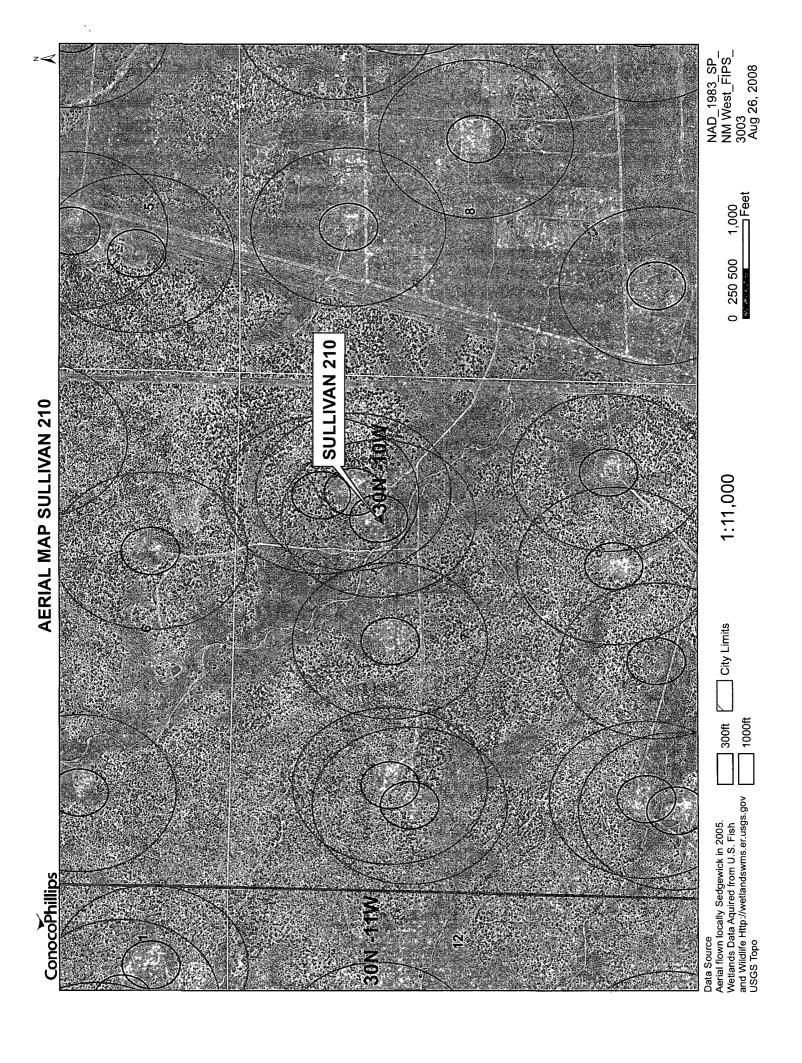
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

<sup>\*</sup>Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

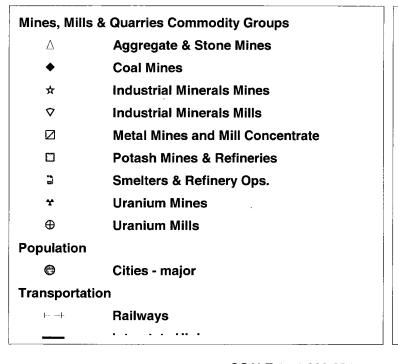
	WELL NAME SUNTON THOSI-J + + 20 CPS NO. 361-KI DO
	LOCATION SKIE Sec 7738 N. PIOW
	WORK ORDER NUMBER 139- 40542-50-02
	ANODE HOLE DEPTH 200
	TOTAL DRILLING RIG TIME 6/2 14 rs
	DRILLING TIME FOR RECTIFIER POLE HOLE O
Mint .	TYPE AND SIZE BIT USED 6/4 Rock -1/X/M. 3500 X
<b>.</b> .	NUMBER SACKS MUD USED /
	NUMBER SACKS LOST CIRCULATION MAT'L USED 2
	ANODE DEPTHS #1 175, #2 135, #3 129, #4 120 5 114
	TOTAL LBS. COKE USED 1445 1750cks
	ANODE OUTPUTS 12.0 VOLTS, #1 43 , #2 4.6 , #3 4.4 , #4 4.6 #5 4.0
	TOTAL CIRCUIT RESISTANCE: VOLTS 11.4 AMPERES 10.5 OHMS 1.08 -
	NUMBER FEET SURFACE CABLE CONDUCT 520.
	DRILLING LOG (ATTACH HERETO).
	FORMATION LOG (ATTACH HERETO).
	REMARKS: 5 to tic 93 = ,90 P. 600' 5E
	Good All Rectifier 28 112A Sor. # 6266144
	ALL CONSTRUCTION COMPLETED
•	Harrels SIGNATURE
	GROUND BED LAYOUT SKETCH
1/	\ 'S

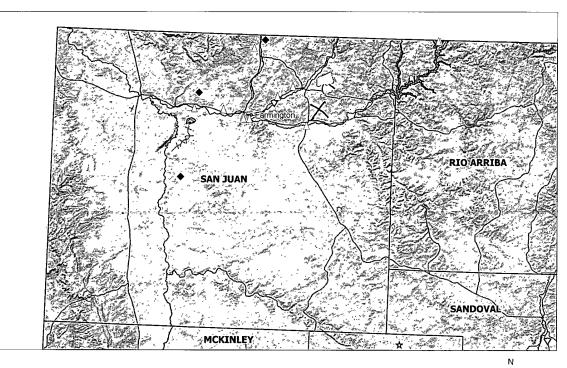
# EL PASO NATURAL GAS COMPANY

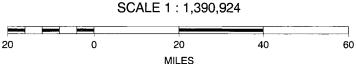
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T. C.			Total Men in	Crew	Driller 1	O.	Total Men	In Crew	Driller	医髓髓		Total Men Ir	
	<b>建阳, [[TO</b>		, FORMATION "	WT-BIT . R.P.M.	FROM	то	FORWATION "	學句章 WT-BIT _R.P.M.	FROM		то	FORMATION	
	20		SAND	75002	103	160	Shale	3530.1			•	<u> </u>	
)	75	٠ .	As clos & Soud	17	160	170	das ship			13.5			
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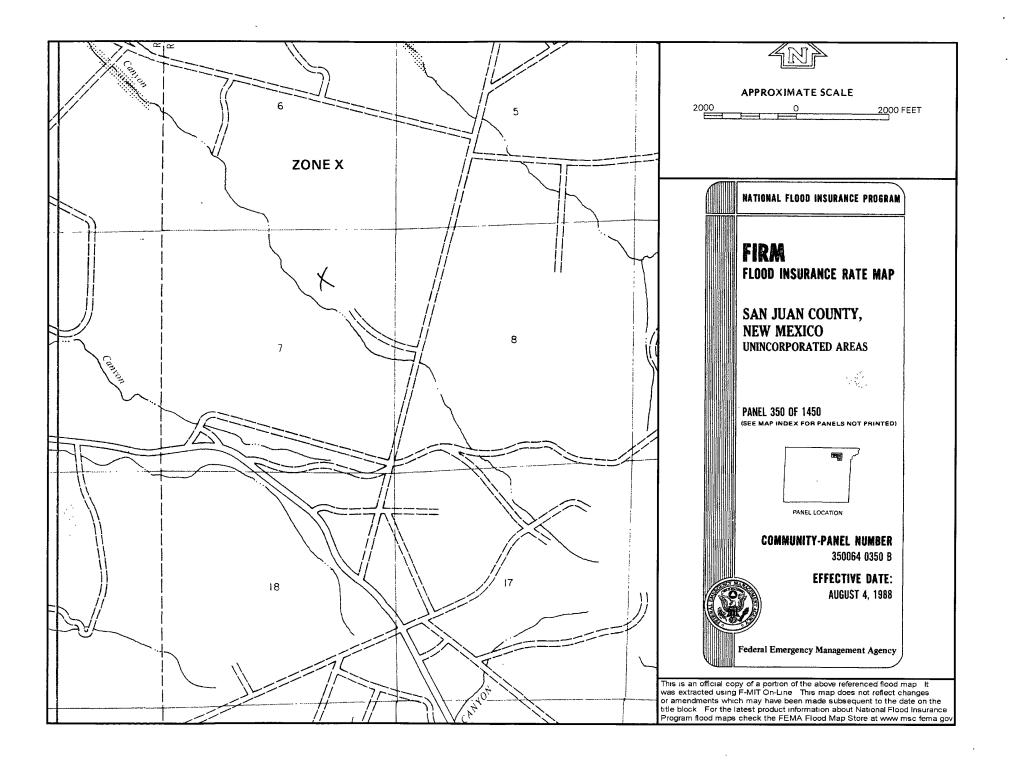
## SULLIVAN 210/MINES, MILLS AND QUARRIES MAP











#### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Sullivan 210 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 groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the Sunray J 210 with an elevation of 6137' and groundwater depth of 360'. The subject well has an elevation of 6174' which is greater than the Sunray J 210, therefore the groundwater depth is greater than 100'. The iWATERS data points are located in section 8 and depths of 150' and 160' as indicated on the TOPO Map. Using these data points and the cathodic data provided the indication of groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

#### Hydrogeological report for Sullivan 210

#### **Regional Hydrogeological context:**

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

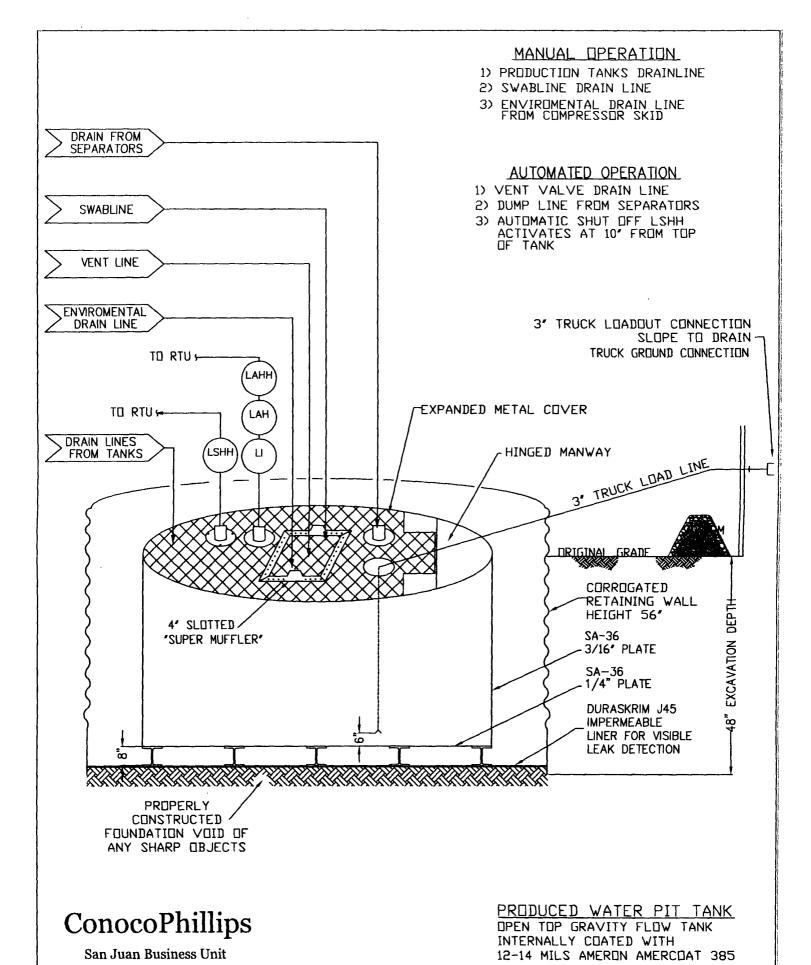
# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

#### General Plan:

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

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 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.



# TUTA-SKHM® 130:156:2145

PROPERTIES .	TEST METHOD	J3	0B <b>ë</b>	J36	88.	) J45	aa
		Min Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min Roll Averages	Typical Roll Averages
Appearance:		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd3)3	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		**Extrusion laminated with encapsulated tri-directional 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 % (Elim 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	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

MD = Machine Direction DD = Diagonal Directions



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

\*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

South Dakota

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



### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. 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 the items in the attached checklist. 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 be maintained for five years.
- 5. BR shall require and maintain a Twenty-Four Inch (24") 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
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the 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