1625 N. Franch Dr. Hobbs NM 88240	State of New Mexico	Form C-14
1025 IN FIGHCH DL., HODDS, INM 88240	Energy Manager and Natural Resources	July 21, 200
REGISTE	RED —vation Division St. Francis Dr	tanks, submit to the appropriate NMOCD District Office.
District IV	Santa re, NM 87505	For permanent plts 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.
	Pit, Closed-Loop System, Below-Grad	de Tank, or
Propos	sed Alternative Method Permit or Closu	re 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	e tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing perm	itted or non-permitted pit, closed-loop system,
Instructions, Disco submit and	below-grade tank, of proposed anemative method	u
Please be advised that approval re	sppication (form C-144) per individual pit, closed-lo of this request does not relieve the operator of liability should operations ieve the operator of its responsibility to comply with any other amicable	Dop system, below-grade tank or alternative request result in pollution of surface water, ground water or the
1		Contraction and only states, regulators of ortinances.
Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmingto	on, NM 87499	
Facility or well name: SAN JUAN :	30-6 UNIT 98A	
API Number:	3003921905 OCD Permit Numb	er:
U/L or Qtr/Qtr: J Section	on: <u>34</u> Township: <u>30N</u> Range:	7W County: Rio Arriba
Center of Proposed Design: Latitude	e: <u>36.76579°N</u> Longitude:	-107.555°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or India	an Allotment
Permanent Emergency C Lined Unlined Li String-Reinforced Liner Seams: Welded Fi	Cavitation P&A iner type: Thickness mil LLDPE	HDPE PVC Other
³ Closed-loop System: Subsect Type of Operation: P&A	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent)	o activities which require prior approval of a permit or
Drying Pad Above Grou	ind Steel Tanks Haul-off Bins Other	
Lined Unlined Line	r type: Thickness mil LLDPE	HDPE PVD Other
Liner Seams: Welded Fa	actory Other	
4		
X Below-grade tank: Subsection	I of 19.15.17.11 NMAC	
Volume: <u>120</u> b	bl Type of fluid: Produced Water	
	Metal	
Tank Construction material:		
Tank Construction material:	etection X Visible sidewalls, liner, 6-inch lift and aut	tomatic overflow shut-off
Tank Construction material: Secondary containment with leak du Visible sidewalls and liner	etection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other	tomatic overflow shut-off
Tank Construction material: Secondary containment with leak do Visible sidewalls and liner Liner Type: Thickness	etection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other	tomatic overflow shut-off
Tank Construction material: Secondary containment with leak de Visible sidewalls and liner Liner Type: Thickness	etection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other	Unspecified
Tank Construction material: Secondary containment with leak do Visible sidewalls and liner Liner Type: Thickness	etection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other	Unspecified
Tank Construction material: Secondary containment with leak di Visible sidewalls and liner Liner Type: Thickness Alternative Method: Submittal of an exception request is real	etection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other mil HDPE PVC X Other quired. Exceptions must be submitted to the Santa Fe Enviro	Unspecified

d i ï ie; and a second

¹⁶ Y 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, in.	stitution or chu	urch)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
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		
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.		
X Administrative approval(s): Requests must be submitted to the appropriate division division division division for the Sector To Toving and the submitted to the appropriate division division division for the Sector To Toving and the submitted to the appropriate division division division for the Sector To Toving and the submitted to the appropriate division division division for the Sector To Toving and the submitted to the appropriate division di division division di division division di		
(Fencing/BGT Liner)	sideration of a	pproval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10		
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)		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits)	XNA	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal fact of a private demostic fresh under well as arrive that have fee here to be a site; Aerial photo; Satellite image 		
purposes, or within 1000 horizontal feet of any other fresh water well or spring that less than live households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
- written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.		
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		AINO
Within the area overlying a subsurface mine.	Yes	XNo
Within an unstable area.		X No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		
Within a 100-year floodplain - FEMA map	Yes	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 10 15 17 12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 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 19.15.17.10 NMAC
Charles and Mannenance 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 how that the documents are sticated
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 10.15.17.0 NIMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 10.15.17.10 NMAC
Climatological Factors Assessment
Curtified Engineering Design Plans - based upon the appropriate requirements of 1915 1711 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 Below-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15 <u>Waste Excavation and Removal Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
riense indicate, by a check mark in the box, that the documents are attached.
X From the 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)
[A] Soli backful 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

16		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions: Please identify the facility or facilities for the disposed of liquids deiling	el Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)	1
are required.	juaas ana arm (sanngs. ')se anachment ij more man twe) facturies
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activitie Yes (If yes, please provide the information No	es occur on or in areas that will not be used for future	service and operations?
Required for impacted areas which will not be used for future service and operations:		
Soil Backfill and Cover Design Specification - based upon the appropri	ate requirements of Subsection H of 19,15,17,13 NM,	AC
Site Reclamation Plan - based upon the appropriate requirements of Sulse	bsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMA)	c	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan.	 Recommendations of acceptable source material are provided be 	low. Requests regarding changes to
certain sting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are require	or may be considered an exception which must be submitted to th d. Please refer to 19.15.17.10 NMAC for suddance.	he Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste		
 NM Office of the State Engineer - iWATERS database search; USGS; Data obta 	ained from nearby wells	
Cround water is between 50 and 100 5 at 15 at 15 at 15 at 15		
NM Office of the State Engineer - WATERS database search: USCS, Data above		Yes No
And once of the state Engineer - Tw ATERS database search; USUS; Data obta	ined 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 - iWATERS database search; USGS; Data obta 	ined from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark).	cant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in o - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	existence at the time of initial application.	Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less tha purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existe	n five households use for domestic or stock watering ence at the time of the initial application.	
- NM Office of the State Engineer - iWATERS database; Visual inspection (certific	ation) of the proposed site	
Writin incorporated municipal boundaries or within a defined municipal fresh water we pursuant to NMSA 1978, Section 3-27-3, as amended.	ell field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland	ined from the municipality	
 US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspective 	ection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.		
- Written confiramtion or verification or map from the NM EMNRD-Mining and M	lineral Division	
Within an unstable area.		Yes No
 Ingineering measures incorporated into the design: NM Bureau of Geology & Min Topographic map 	neral Resources; USGS; NM Geological Society;	
FEMA man		Yes No
18 On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of	f the following items must be attacked at the	
by a check mark in the box, that the documents are attached.	y me jouowing nems musi bee anachea to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirement	s of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dryin	g pad) - based upon the appropriate requirements of 19	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 1	9.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids an	d drill cuttings or in case on-site closure standards car	nnot be achieved)

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Nume (Print):	recurate and complete to the f	best of my knowledge and benef.
Simularity A. Long A. M. Simularity	Title:	Regulatory Technician
e-mail address:	Date:	<u>12/22/2008</u>
	receptione:	505-326-9837
0 <u>)CD Approval:</u> Permit Application (including closure plan) []	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
l'itle:	OCD Permi	it Number:
21		
<u>Closure Report (required within 60 days of closure completion): substructions: Operators are required to obtain an approved closure plan prior eport is required to be submitted to the division within 60 days of the complete pproved closure plan has been obtained and the closure activities have been proved closure plan has been obtained and the closure activities have been determined and the closure activities have been approved closure plan has been obtained and the closure activities have been approved closure plan has been approved closure activities have been approved closure plan has been approved closure plan has been approved and the closure activities have been approved closure plan has bee</u>	Subsection K of 19.15.17.13 NMAC or to implementing any closur etion of the closure activities, n completed.	te activities and submitting the closure report. The closure Please do not complete this section of the form until an Completion Date:
losure Method:		
Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure N	Method Waste Removal (Closed-loop systems only)
3 Iosure Report Regarding Waste Removal Closure For Closed-Ioon Syste	ems Thut Utilize Above Cro	und Steel Tonko en Haul aff Pine Only
istructions: Please identify the facility or facilities for where the liquids, d	rilling fluids and drill cutting	gs were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility P	Permit Number
Disposal Facility Name:	Disposal Facility P	Permit Number:
Were the closed-loop system operations and associated activities performe	ed on or in areas that will not	be used for future service and opeartions?
Yes (If yes, please demonstrate complilane to the items below)	No	
Required for impacted areas which will not be used for future service and	operations:	
Site Reclamation (Photo Documentation)		
Soil Backrining and Cover Installation		
Construction Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the fo	lowing items must be attach	and to the element of the state
the box, that the documents are attached.	ntowing uems musi be anach	ted to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Confirmation Sampling Analytical Results (if applicable)		
Waste Material Sampling Analytical Results (if applicable)		
Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude:	Longitude:	NAD [] 1927 [] 1983
perator Closure Certification:		
reeby certify that the information and attachments submitted with this closur	re report is ture, accurate and	d complete to the best of my knowledge and belief. I also certify that
ensure compression an applicable crossine requirements and conditions s	Title	ire plan.
gnature:	Date:	

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New Mexico Office of the State Engineer

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	Township: 30N Range: 07W Sections:
	NAD27 X: Y: Zone: Search Radius:
County:	Basin: Number: Suffix:
)wner N	ame: (First) (Last) ONOn-Domestic ODomestic A
P	OD / Surface Data Report Avg Depth to Water Report Water Golumn Report

WATER COLUMN REPORT 08/21/2008

		(quarter:	s are	• 1=	=NW	2=	NE	3=SW (4=SE)							
		(quarter:	s are	e bi	gg	est	to:	smal:	lest)			Depth	Depth	Water	(in	feet)
POD	Number	Tws	Rng	Sec	P :	Ø	g	Zone	х		Y	Well	Water	Column		
SJ	02698	30N	07W	15	3	1						402	255	147		
SJ	02366	30N	07W	15	3	1		С	114800	2117	300	345	225	120		
SJ	03640	30N	07W	15	3	1	1					433	241	192		
SJ	00837	30N	07W	17	4	4						400				
SJ	03385	30N	07W	17	4	4	4					520	460	60		
SJ	03006	30N	07W	24	1	3	3					100				
SJ	03082	30N	07W	24	3	1	1					98	61	37		
SJ	03485	30N	07W	24	3	1	1					· 126	60	66		
SJ	02818	30N	07W	24	3	1	2					. 86	42	44		
SJ	03773 POD1	30N	07W	24	3	1	2		126639	2112	238	120	70	50		
SJ	03053	30N	07W	24	3	4	4					200				
SJ	03075	30N	07W	25	1	2	1					165	78	87		
SJ	03774 POD1	30N	07W	25	1	3	3 -	- ,1	126554	2107	670	300	220	80		
SJ	02983	30N	07W	25	1	4	3					262	40	222		
SJ	00035	30N	07W	33	4	2	2					547	467	80		
SJ	03301	30N	07W	34	4	4	4					21	10	11		

Record Count: 16

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	New	Mexico	Office	of	the	State	Enginee
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	POD Re	ports and Down	lloads	
Township: 29	N Range: 07W	Sections:		
NAD27 X:	Y:	Zone:	Search Radiu	s:
County:	Basin:	間載	Number:	Suffix:
Owner Name: (First)	(Last		O Non-Domestic	C Domestic @ All
POD// Surface Data R	eport A	vg Depth to Water	Report Wat	er Golumn Report
	ClantForm	WATEDS MA		

WATER COLUMN REPORT 08/20/2008

(quarter	s are	- 1=	NW	2=	NE	3=SW 4=S	E)		_				
(quarter	s are	e bi	gge	est	to:	smalles	t)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	a d	P	g	Zone	x	Y	Well	Water	Column		
SJ 00580	29N	07W	05	2	3						160			
SJ 02636	29N	07W	05	3	1	2				300	200	100		
SJ 03453	29N	07W	05	4	1	4				355	20	335		
SJ 00541	29N	07W	06	1	4	4				360	360			
SJ 00807	29N	07W	06	2	4					290	255	35		
SJ 01199	29N	07W	09	3	2	4				265	125	140		
SJ 03390	29N	07W	13	1	2	4				320	120	200		
SJ 00053	29N	07W	13	3						536	460	76		
SJ 01228	29N	07W	23	2	1					285	205	80		
SJ 02891	29N	07W	24	2	3	2				210	160	50		•
SJ 03391	29N	07W	24	2	3	2			•.	210				
SJ 03573	2.9N	07W	24	2	4	1				900				
SJ 01112	29N	07W	28	2	4	4				2453	900	1553		
SJ 00039	29N	07W	29	3	2					585	435	150		

Record Count: 14

8/20/2008

3



AERIAL MAP SAN JUAN 30-6 UNIT 98A

ConocoPhillips



Mines, Mills and Quarries Web Map

SAN JUAN 30-6 UNIT 98A

Unit Letter: J, Section: 34, Town: 030N, Range: 007W

SAN JUAN 30-6 UNIT 98A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 30-6 UNIT 98A', which is located at 36.76579 degrees North latitude and 107.555 degrees West longitude. This location is located on the Navajo Dam 7.5' USGS topographic quadrangle. This location is in section 34 of Township 30 North Range 7 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Turley, located 12.6 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 36.2 miles to the west (National Atlas). The nearest highway is US Highway 64, located 2.1 miles to the southwest. The location is on BLM land and is 2,165 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1951 meters or 6399 feet above sea level and receives 14.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 118 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 838 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 2,520 feet to the west. The nearest water body is 2,490 feet to the west. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 24,432 feet to the southeast. 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 1,694 feet to the southeast. The nearest wetland is a 0.6 acre other located 7,511 feet to the west. The slope at this location is 8 degrees to the northwest 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 SAN JOSE FORMATION-Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Rock outcrop-Vessilla-Menefee complex, 15 to 45 percent slopes' and is well drained and not hydric with not rated erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.1 miles to the east as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

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.

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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:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a 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.
- 11. The general specification for design and construction are attached in the BR document.

PROPERTIES TEST METHOD J30BB J36BE **J45BE** Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Typical Roll Averages **Averages** Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs ASTM D 5261 151 lbs 168 ibs (oz/yd²) 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement **Ply Adhesion** ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 88 lbf MD 1" Tensile Strength 110 lbf MD 90 lbf MD **ASTM D 7003** 113 lbf MD 110 lbf MD 138 lbf MD 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD 750 MD **ASTM D 7003** 550 MD 750 MD Break % (Film Break) 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD **ASTM D 7003** 20 MD Peak % (Scrim Break) 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD **Tongue Tear Strength** 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 100 lbf MD 75 lbf DD 117 lbf MD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD 120 lbf MD Trapezoid Tear 146 lbf MD 130 lbf MD ASTM D 4533 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD * Dimensional Stability ASTM D 1204 <1 < 0.5 <1 <0.5 <1 <0.5 Puncture Resistance **ASTM D 4833** 50 lbf 64 lbf 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 fabrity for resulting loss or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- 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 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; or other EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice