625 N. French DT., Hobbs, NM 88240	State of New Mexico	Form C-1
	Energy Minerals and Natural Resources	July 21, 2
- REGISTERE	Dtion Division	tanks, submit to the appropriate NMOCD District Office.
District IV	Junu . J, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
220 S. St. Francis Dr., Santa Fe, NM 87505		
<u>Pit,</u> Proposed A	Closed-Loop System, Below-Grad	e lank, or e Plan Application
Turne of options		
	losure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Indification to an existing permit	
L_IC b	elow-grade tank, or proposed alternative method	tted or non-permitted pit, closed-loop system,
Instructions: Please submit one applica	tion (Form C-144) per individual pit, closed-loo	op system, below-grade tank or alternative requ
Please be advised that approval of this rec environment. Nor does approval relieve the	uest does not relieve the operator of liability should operations r operator of its responsibility to comply with any other applicable	esult in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
Dperator: Burlington Resources Oil & G	as Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM	1 87499	
acility or well name: SAN JUAN 27-5 U	NIT 86M	
API Number: 300392	OCD Permit Numbe	r:
J/L or Qtr/Qtr: Section:	9 Township: 27N Range:	W County: Rio Arriba
Center of Proposed Design: Latitude:	36.58539°N Longitude:	-107.35948°W NAD: X 1927 19
Surface Owner: X Federal	State Private Tribal Trust or Indian	Allotment
Pit: Subsection F or G of 19.15.17.11 N	MAC	
Pit:       Subsection F or G of 19.15.17.11 Ni         Temporary:       Drilling         Permanent       Emergency         Lined       Unlined         String-Reinforced         Liner Seams:       Welded         Factory         Glosed-loop System:         Subsection H of         Type of Operation:       P&A	MAC on P&A e: Thickness mil LLDPE Other Volume: of 19.15.17.11 NMAC ing a new well Workover or Drilling (Applies to notice of intent)	HDPE PVC Other
Pit:       Subsection F or G of 19.15.17.11 Ni         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type         String-Reinforced       Liner Seams:       Welded       Factory         Closed-loop System:       Subsection H of Type of Operation:       P&A       Drilling         Drying Pad       Above Ground Steet         Lined       Unlined       Liner type:         Liner Seams:       Welded       Factory	MAC on P&A e: Thickness mil LLDPE Other Volume: of 19.15.17.11 NMAC ing a new well Workover or Drilling (Applies to notice of intent) el Tanks Haul-off Bins Other Thickness mil LLDPE H Other	HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
Pit:       Subsection F or G of 19.15.17.11 Ni         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type         String-Reinforced       Liner Seams:       Welded       Factory         Closed-loop System:       Subsection H of Type of Operation:       P&A       Drilling         Drying Pad       Above Ground Steat       Liner type:       Liner type:         Lined       Unlined       Liner type:         Liner Seams:       Welded       Factory         Image: Subsection I of 19.       Volume:       120         Secondary containment with leak detection       Visible sidewalls and liner       Image: Subsection I of 19.	MAC on P&A e: Thickness mil LLDPE Other Volume: of 19.15.17.11 NMAC ing a new well Workover or Drilling (Applies to notice of intent) el Tanks Haul-off Bins Other thickness mil LLDPE H Other 15.17.11 NMAC Type of fluid: Produced Water Metal n X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other nil HDPE PVC X Other L	HDPE PVC   Other   bbl Dimensions L   x W x D   activities which require prior approval of a permit or   IDPE PVD   Other   omatic overflow shut-off
Pit:       Subsection F or G of 19.15.17.11 Ni         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation         Lined       Unlined       Liner type         String-Reinforced       Liner Seams:       Welded       Factory         Closed-loop System:       Subsection H of Type of Operation:       P&A       Drilling         Drying Pad       Above Ground Steat       Liner type:       Liner type:         Lined       Unlined       Liner type:         Lined       Unlined       Factory         X       Below-grade tank:       Subsection I of 19.         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Iner Type:         Thickness       m         Submittal of an exception request is required.	MAC on P&A e: Thickness mil LLDPE Other Volume: of 19.15.17.11 NMAC ing a new well Workover or Drilling (Applies to notice of intent) el Tanks Haul-off Bins Other Thickness mil LLDPE H Other 15.17.11 NMAC Type of fluid: Produced Water Metal N X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other nil HDPE PVC X Other L Exceptions must be submitted to the Santa Fe Enviro	HDPE       PVC       Other         bbl       Dimensions L       x W       x D         activities which require prior approval of a permit or         IDPE       PVD       Other         omatic overflow shut-off         Inspecified

6 <u>Fencing:</u> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)								
Cham link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)								
Four foot height, four strands of barbed wire evenly spaced between one and four feet								
X Alternate. Please specify <u>4' hog wire fencing topped with two strands harbed wire.</u>								
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to parameteric and a sector of the sector of th								
X       Screen       Netting       Other								
Monthly inspections (If netting or screening is not physically feasible)								
8 Signs: Subsection C of 10.15.17.11.53.444								
12" X 24". 2" lettering, providing Operator's name, site location, and americana delate								
X Signed in compliance with 19.15.3.103 NMAC								
9								
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Planet effects 10.15.15.55.5.5.5.								
Please check a box if one or more of the following is requested, if not leave blank.								
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for ( (Fencing/BGT Liner)	consideration of approval.							
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							
- 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 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							
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No							
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes XNo							
Within an unstable area.								
- 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							

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Temporary Pits, En Instructions: Each of th		
V the	nergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19, 15, 17,0 MAAC	
LAL LIVERBRADORE	Provent (Below must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.	
Hydrogeologic	Data (Temporary and Emprovements) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
X Siting Criteria	Compliance Dumonstrations (19:15.17.9) - based upon the requirements of Paragraph (2) of Subsection B of 19:15.17.9	
X Design Plan - F	based upon the appropriate requirements of 19.15.17.10 NMAC	
X Operating and (	Majotonamas Plan, but the second	
X Closure Plan (E	Diamentatice Fian - based upon the appropriate requirements of 19.15.17.12 NMAC	
19.15.17.9 NM	Asse complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of	
Previously Approve	ed Design (attach conv of dovice)	
	or Permit	_
Closed-loop Systems Instructions: Each of the Geologic and Hy Siting Criteria C	Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. ydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9	
Design Plan - ba	ased upon the appropriate requirements of 19.15.17.10 NMAC	
Operation and M	Aniptanaeus Discuster and an anti-	
	Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
NMAC and 19.1	tease complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17. 15.17.13 NMAC	9
Previously Approved	d Design (attach copy of design) API	
Previously Approved	d Operating and Maintenance Plan API	
13		
Permanent Pits Permi	it 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	
Hydrogeologic R	report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	
Siting Criteria Co	ompliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC	
Climatological Fa	actors Assessment	
Certified Enginee	ering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
Dike Protection a	the standard line is the stand	
Lugh Dutantin D	and Subtrural integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC	
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Leak Detection D     Liner Specificatio     Quality Control/Q     Operating and Ma     Freeboard and Ow     Nuisance or Hazar     Emergency Respon     Oil Field Waste Su     Monitoring and Ins     Erosion Control Pla     Closure Plan - base     roposed Closure: 19.1:     structions: Please comple     //pe: Drilling DW     DAlternative	A structural integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC besign - based upon the appropriate requirements of 19.15.17.11 NMAC ons and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC builty Assurance Construction and Installation Plan aintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC spectra Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC structure is the applicable bases, Bases 14 through 18, in regards to the proposed closure plan. /orkoverCavitationP&APermanent PitX_Below-grade TankClosed-loop System	
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Leak Detection D     Liner Specificatio     Quality Control/Q     Operating and Ma     Freeboard and Ov     Nuisance or Hazar     Emergency Respon     Oil Field Waste Su     Monitoring and Ins     Erosion Control Pla     Closure Plan - base     Toposed Closure: 19.1:     Istructions: Please comple     ype: Drilling W	A studential integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC besign - based upon the appropriate requirements of 19.15.17.11 NMAC ons and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC builty Assurance Construction and Installation Plan aintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC eretopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retors of upon the appropriate requirements of 19.15.17.12 NMAC retors of upon the appropriate requirements of 19.15.17.11 NMAC setting Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC retors of upon the appropriate requirements of 19.15.17.12 NMAC retors of upon the appropriate requirements of 19.15.17.13 NMAC setting Plan tream Characterization spection Plan lan ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 5.17.13 NMAC tet the applicable bases, Baxes 14 through 18, in regards to the proposed closure plan. //orkover  Emergency  Cavitation  P&A  Permanent Pit  Below-grade Tank  Closed-loop System  SWaste 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 Ex Equirement I for the	
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Leak Detection D     Liner Specificatio     Quality Control/Q     Operating and Ma     Freeboard and Ov     Nuisance or Hazar     Emergency Respon     Oil Field Waste St     Monitoring and Ins     Erosion Control Pla     Closure Plan - base     Toposed Closure: 19.1:     tstructions: Please comple     ype: Drilling DW     DAlternative     oposed Closure Method:     aste Excavation and Re     rase indicate, by a check m     X Protocols and Proceed     X Confirmation Sampl     X Soil Backfill and Com     Soil Backfill and Com	and studtural integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC         besign - based upon the appropriate requirements of 19.15.17.11 NMAC         builty Assurance Construction and Installation Plan         aintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         certopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         retopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         retopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         retopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         retopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         return Characterization         spection Plan         lan         ed upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC         5.17.13 NMAC         tet the applicable baxes, Boxes 14 through 18, in regards to the proposed closure plan.         /orkover       Emergency         Cavitation       P&A         Permanent Pit       XBelow-grade Tank         // Waste Excavation and Removal       (Below-Grade Tank)         // Don-site Closure Method (only for temporary pits and closed-loop systems)	plan.
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10	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMA Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than a are required.	C)
Disposal Facility Name:	na anns
Disposal Facility Name:	
Will any of the proposed closed-loop system operations and accurate the proposed closed-loop system operations and accurate the proposed closed loop system operations and accurate the proposed close	
Yes (If yes, please provide the information Invasion and associated activities occur on or in areas that will not be used for future Required for impacted areas which will not be used for future service and operations:     Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NM AC     Site Reclamation 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	re service and operations?
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC	
certain situag criteria may require a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided b for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19,15,17,10 NMAC for guidance.	vlow. Requests regarding changes to the Santa Fe Environmental Biovan 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 obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste	
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste	
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
Within 200 Sea Sea	
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo: satellite image</li> </ul>	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database: Visual inspection (certification) of the proposed site	Yes No
whithis incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality: Written approval obtained from the municipality.	Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map: Topographic map: Visual increasing (c. 15)	
Within the area overlying a subsurface mine.	
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.	
Topographic map	
- FEMA map	Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure by a check mark in the box, that the documents are appeared.	plan. Please indicate
Siting Criteria Compliance Demonstrations - based upon the server in	i and i could indicate,
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection Fact to the Appropriat	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate paper of 19.15.17.13 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad), based upon the appropriate requirements of 19.15.17.11 NMAC	
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	5.17.11 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 and drill cuttings or in case on-site closure standards cannot and a standards of the st	the achimed
Be-vepetation Plan, based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	n oc acilieved)
Site Reclamation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC	

<b>Operator</b> Applicatio	n Certification:
Thereby certify that the	information submitted with this application is true accurate and some latered to be the state of the state of the
Name (Print):	Crystal Tafova
Signature	Regulatory Technician
a mail a bla and	Date:12/22/2008
c-man address:	Telephone: 505-326-9837
20	
OCD Approval:	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative	Signature:
	Approval Date:
Title:	OCD Permit Number:
21	
Closure Report (requined to be structions: Operators of the struction of the structure of t	tired within 60 days of closure completion); Subsection K of 19.15.17.13 NMAC are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure abmitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an as been obtained and the closure activities have been completed.
	Closure Completion Date:
22	
Closure Method:	
Waste Excavation	and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from :	approved plan, please explain.
23	
Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam	tify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities  e: Disposal Facility Permit Number: e: Disposal Facility Permit Number:
Were the closed-loop	system operations and associated activities performed on or in areas that will not be used for future period.
Yes (If yes, please	e demonstrate compliane to the items below)
Required for impacted	areas which will not be used for future service and operations
Site Reclamation	(Photo Documentation)
Soil Backfilling a	ad Cover Installation
Re-vegetation App	plication Rates and Seeding Technique
24	
Closure Report Att	achment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
	nenis are attached
the box, that the docur	Notice (surface - unit of the second
Proof of Closure	Notice (surface owner and division)
Proof of Closure Proof of Deed No Plot Plan (for one)	Notice (surface owner and division) ptice (required for on-site closure) site closures and temporary pite)
Proof of Closure Proof of Deed No Proof of Deed No Plot Plan (for on-	Notice (surface owner and division) otice (required for on-site closure) site closures and temporary pits)
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New Mexico Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads									
Townshi	p: 27N	Range: 05W	Sections:						
NAD27 X		Y:	Zone:	Search Radius:					
County:		Basin:		Number:	Suffix:				
Owner Name: (Firs	st)	: (L	ast)	○ Non-Domest	ic O Domestic				
	POD / Sui	rface Data Report	t Av	g Depth to Water Report					
		Clear Form	iWATERS M	enu Help					

### WATER COLUMN REPORT 12/17/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth V							Wate					
POD Number	Tws	Rng	Sec	P	q	q	Zone	x	Y	Well	Water	Colum
RG 81026	27N	05W	27	4	4	3				460	186	27
SJ 00199	27N	05W	03	2	1					1840		
SJ 00046	27N	05W	04	4	4					506	260	24

Record Count: 3



ConocoPhillips

### AERIAL MAP SAN JUAN 27-5 UNIT 86M



8/08

# Mines, Mills and Quarries Web Map

## SAN JUAN 27-5 UNIT 86M

Unit Letter: J, Section: 09, Town: 027N, Range: 005W







### SAN JUAN 27-5 UNIT 86M

### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 27-5 UNIT 86M', which is located at 36.58539 degree, North latitude and 107.35948 degree, West longitude. This location is located on the Vigas Canyon 7.5' USGS topographic quadrangle. This location is in section 9 of Township 27 North Range 5 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 26.1 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 48.1 miles to the west (National Atlas). The nearest highway is US Highway 64, located 7.3 miles to the north. The location is on BLM land and is 1,708 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 1,005 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 1,173 feet to the north and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4.246 feet to the northeast. The nearest water body is 4,145 feet to the west. It is classified by the USGS as a perennial lake and is 1.0 acres in size. The nearest spring is 18,809 feet to the northeast. 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 4,380 feet to the north. The nearest wetland is a 0.5 acre other located 4,219 feet to the northeast. The slope at this location is 1 degree, to the southeast 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 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 17.2 miles to the north 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.

# 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
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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

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- 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 Averages Averages **Typical Roll** 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 (oz/yd²) 168 lbs 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 Tensile Strength 88 lbf MD **ASTM D 7003** 110 lbf MD 90 lbf MD 113 lbf MD 110 INF MD 400 0 4 4 4

		63 lbf DD	79 lbf DD	70 lbf DD	87 lbf DD	84 lbf DD	105 Ibt MD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD	750 MD
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		
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	CE IL	-0.5	<1	<0.5
Maximum Use Temperature		100% 5		TON CO	83 lbf	80 lbf	99 lbf
Minimum Lise Temperature		180' F	180° F				
		-70° F					

DD = Diagonal Direction

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.

Table: FAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITMERS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, to guarantee of satisfactory results from telance upon contained information or recommendations and associations all tablity for resulting loss or damage.

# RAVEN INDUSTRIES

# PLANT LOCATION

Sioux Falls, South Dakota

# SALES OFFICE

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



# RAVEN 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

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, at its 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 property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, 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:

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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:

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- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 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; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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, nonwaste 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
  - 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