District I

1625 N French Dr., Hobbs, NM 88240

District II

1301 W Grand Ave , Artesia, NM 88210

District III 1000 Rio Brazos Rd , Aztec, NM 87410

District IV

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

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

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

Form C-144

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

1220 S St. Francis Dr., Santa Fe, NM 87505	
2000	tem, Below-Grade Tank, or
	od Permit or Closure Plan Application
	system, below-grade tank, or proposed alternative method
	p system, below-grade tank, or proposed alternative method
☐ Modification to an existing	•
Closure plan only submitte below-grade tank, or propo	d for an existing permitted or non-permitted pit, closed-loop system, used alternative method
Instructions: Please submit one application (Form C-144) per in	dividual pit, closed-loop system, below-grade tank or alternative request
	of liability should operations result in pollution of surface water, ground water or the mply with any other applicable governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: San Juan 30-6 Unit 012A	
API Number: 30-039-25700	OCD Permit Number:
U/L or Qtr/Qtr: D(NW/NW) Section: 26 Township: 3	ON Range: 6W County: Rio Arriba
Center of Proposed Design: Latitude: 36.7884800°N	Longitude: 107.4367600°W NAD: 1927 X 1983
Surface Owner: Federal X State Private	Tribal Trust or Indian Allotment
Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness String-Reinforced Liner Seams: Welded Factory Other	mil LLDPE HDPE PVC Other Volume: bbl Dimensions L x W x D
	over or Drilling (Applies to activities which require prior approval of a permit or of intent)
	mil LLDPE HDPE PVD Other
	s, liner, 6-inch lift and automatic overflow shut-off Other PVC X Other LLDPE
Tank Construction material: Metal	—— \E OILLUIG.
	s, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only	Other Votes LIDBE
Liner Type Thickness 45 mil HDPE	PVC X Other LLDPE
Submittal of a continuous time and Francisco was beautiful.	
Submittal of an exception request is required. Exceptions must be submitted.	ed to the Santa Fe Environmental Bureau office for consideration of approval.

ď.		1					
Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)							
Chain link (iv fact in bought true strands of howhed must at tan (Beauward of located within 1000 fact of a particularly excidence (chaol bounted mountain as church)							
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)							
Four foot height, four strands of barbed wire evenly spaced between one and four feet							
X Alternate Please specify 4' hogwire fence with a single strand of barbed wire on top.							
7							
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
Screen Netting Other	•						
Monthly inspections (If netting or screening is not physically feasible)							
8 Signs: Subsection C of 19 15.17.11 NMAC							
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
X Signed in compliance with 19.15.3.103 NMAC							
A Signed in compliance with 19.15.5.103 NMAC							
9							
Administrative Approvals and Exceptions:							
Justifications and/or demonstrations of equivalency are required. Please refer to 19 15.17 NMAC for guidance.							
Please check a box if one or more of the following is requested, if not leave blank:							
Administrative approach (a). Beginst, must be subjected to the appropriate division district of the Soute Ea Engineering Option for cons	daration of an	nroval					
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons	detation of ap	piovai.					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10							
Siting Criteria (regarding permitting): 19.15.17.10 NMAC							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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		ì					
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	X No					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	X No					
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	l						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	X No					
application.							
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	_	_					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	∐No					
(Applied to permanent pits)	XNA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes	X No					
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.							
NNAOSC CALCARA NATURA N							
- 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	Yes	X No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland.	□Yes	X No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗀 🍱	22 1.10					
Within the area overlying a subsurface mine.	∏Yes	X No					
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division		ا ```					
Within an unstable area.	∏Yes	X No					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		_					
Society; Topographic map		ļ					
Within a 100-year floodplain	Yes	XNo					
- FEMA man	i						

Form C-144 Oil Conservation Division Page 2 of 5

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17.13 NMAC
Previously Approved Design (attach copy of design) API 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
Situng Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17 11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 19.15 17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15 17.11 NMAC
☐ Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15 17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17 11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17 11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19.15 17.13 NMAC
14
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method. X Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
☐ In-place Burtal ☐ On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC X Disposed Facility Name and Parmit Number (for liquids, drilling fluids and drill cuttings)
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17 13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C-144 Oil Conservation Division

Page 3 of 5

Weste Romand Change For Chied has System That Helling About Canada Starl	Teals on Houl off Ping Only (10.15.17.12 D.NMAC)						
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions: Please identify the facility or facilities for the disposal of liquids, drilling flo	<u>Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) uids and drill cuttings. Use attachment if more than two fa	cilities					
are regulared.	Diamond Famility Domest #.						
Disposal Facility Name. Disposal Facility Permit #: Disposal Facility Permit #:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?							
Yes (If yes, please provide the information No							
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 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC							
Site Reclamation Plan - based upon the appropraite requirements of Subse	ection G of 19.15.17.13 NMAC						
Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMAC Instructions Each sting criteria requires a demonstration of compliance in the closure plan Recertain sting criteria may require administrative approval from the appropriate district office or for consideration of approval Justifications and/or demonstrations of equivalency are required	may be considered an exception which must be submitted to the						
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search, USGS: Data obtain	ned from nearby wells	Yes No					
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No					
- NM Office of the State Engineer - 1WATERS database search; USGS; Data obtain	ed 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 obtain	ed from nearby wells	□N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signification (measured from the ordinary high-water mark).	nt 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 ex - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	istence 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 than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exister - NM Office of the State Engineer - iWATERS database; Visual inspection (certifica	nce at the time of the initial application. tion) of the proposed site						
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended.		YesNo					
 Written confirmation or verification from the municipality; Written approval obtain Within 500 feet of a wetland 	ned from the municipality	∏yes ∏No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspec	ction (certification) of the proposed site						
Within the area overlying a subsurface mine		Yes No					
- Written confirmation or verification or map from the NM EMNRD-Mining and Mi	neral Division	∏Yes ∏No					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Min Topographic map	eral Resources, USGS; NM Geological Society;	resno					
Within a 100-year floodplain FEMA map		Yes No					
On-Site Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	f the following items must bee attached to the closur	e 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							
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		9.15.17.11 NMAC					
Protocols and Procedures - based upon the appropriate requirements of 1	•						
Confirmation Sampling Plan (if applicable) - based upon the appropriate							
Waste Material Sampling Plan - based upon the appropriate requirements		anot ha aghiguad)					
Disposal Facility Name and Permit Number (for liquids, drilling fluids an	_	moi de acmeveu)					
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							

Oil Conservation Division Page 4 of 5

Form C-144

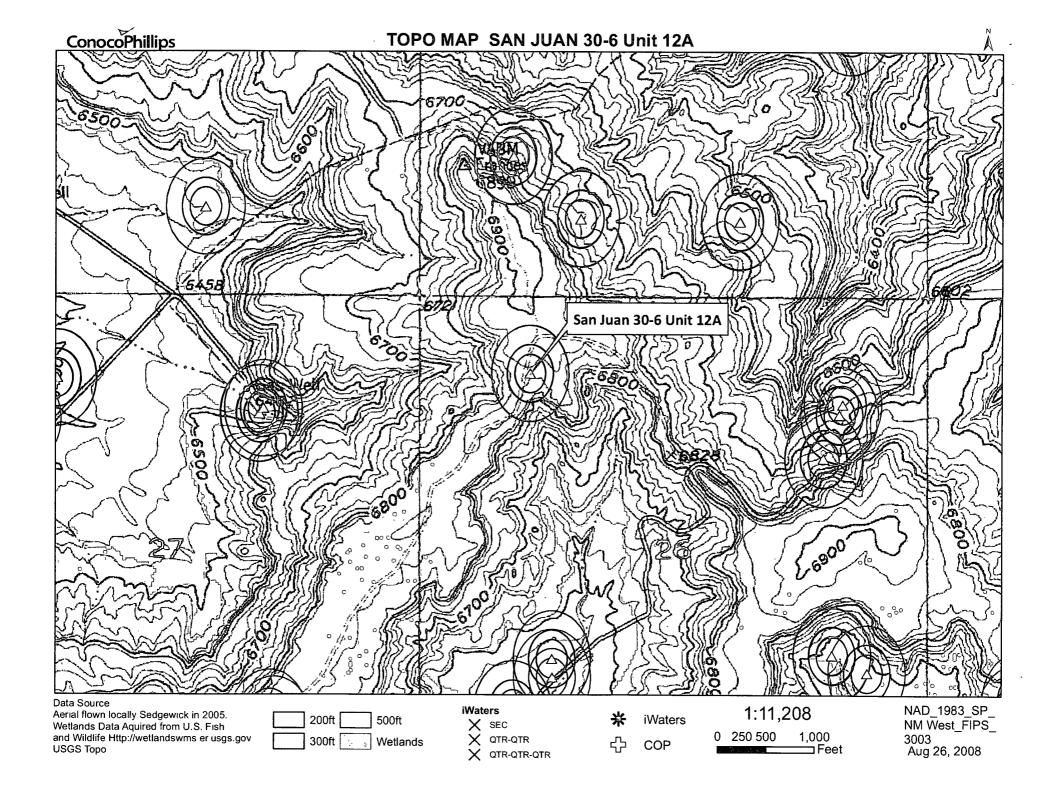
Operator Application Certification: Thereby certify that the information submitted with this application is true, accurate	e and complete to the best of my knowledge and belief
Name (Print). Ethel Tally	Title: Staff Regulatory Technician
Signature Schil Tally	Date: 10-14-08
e-mail address: Ethel Tally@ConocoPhillips.com	Telephone: 505-599-4027
c-man address.	200 277 1021
20 OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: 10/19/09
Title: Enviro/spec	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions Operators are required to obtain an approved closure plan prior to in report is required to be submitted to the division within 60 days of the completion of approved closure plan has been obtained and the closure activities have been completed.	nplementing any closure activities and submitting the closure report. The closure of the closure activities Please do not complete this section of the form until an
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 Closure Report Regarding Waste Removal Closure For Closed-loop Systems T Instructions: Please identify the facility or facilities for where the liquids, drilling were utilized.	That Utilize Above Ground Steel Tanks or Haul-off Bins Only: g fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Permit Number.
Disposal Facility Name:	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 service and opeartions?
Yes (If yes, please demonstrate compliane to the items below)	No
Required for impacted areas which will not be used for future service and opera	ations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24 <u>Closure Report Attachment Checklist:</u> Instructions: Each of the following the box, that the documents are attached.	ing items must be attached 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
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure rethe closure complies with all applicable closure requirements and conditions specified.	eport is ture, accurate and complete to the best of my knowledge and belief. I also certify that thed in the approved closure plan
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

Form C-144 Oil Conservation Division Page 5 of 5

New Mexico Office of the State Engineer POD Reports and Downloads

То	ownship: 30N Range: 06W	Sections: 22,23,24,	25,26,27,34,35,	36	
NAD2	27 X: Y: Y	Zone:	Search Radi	us:	
County:	Basin:	Nur	mber:	Suffix:	r
Owner Name: (1	First) (Las	st)) Non-Domest	ic O Domestic	e © All
POD / Sur	face Data Report	Avg Depth to Water Repor	t][Wa	ater Column Rep	ort
	Clear Form	iWATERS Menu	Help		
	and the state of t				ne augu que ann e ann l e ann an ann an ann an ann an ann an ann an a
	WAT (quarters are 1=NW 2=N	ER COLUMN REPORT 10 E 3=SW 4=SE)	/13/2008		
POD Number	(quarters are biggest Tws Rng Sec q q q		Deptl Y Well	n Depth W Water Co	ater (in lumn

No Records found, try again



DATA SHEET FOR DEEP GROUND BED CATEODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

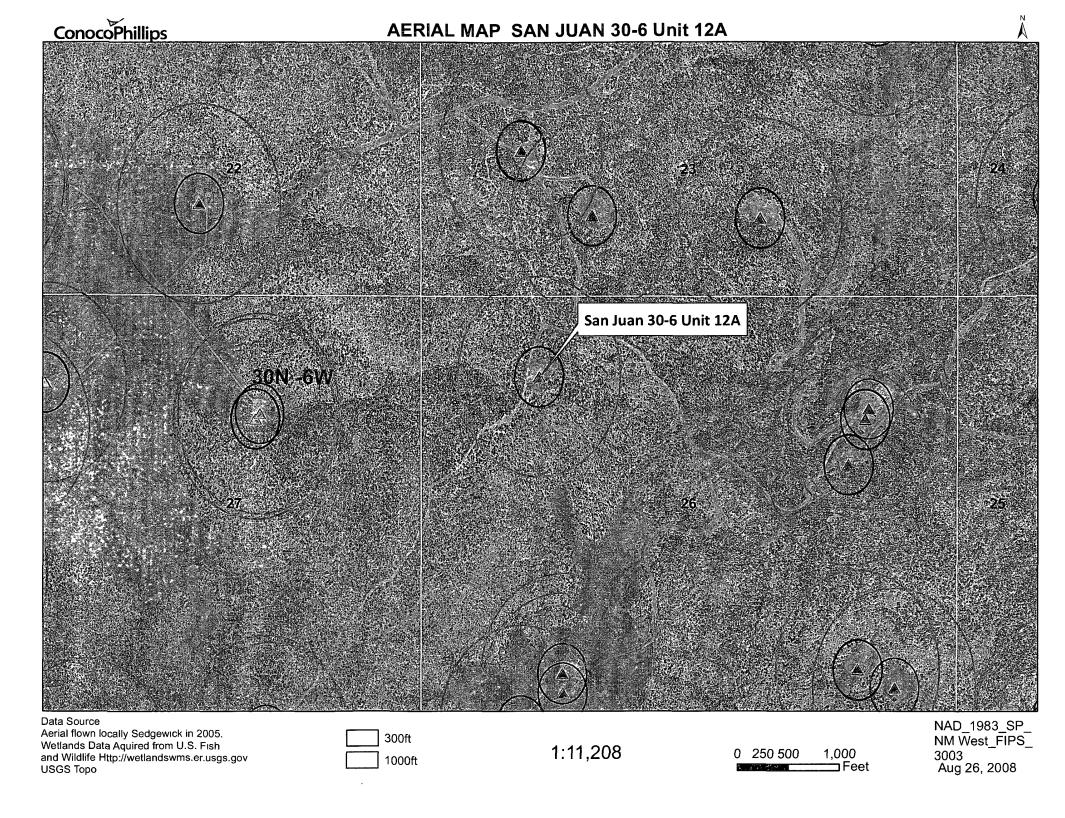
Operator Burlington Resources Location: Unit D Sec. 26 Twp 30 Rng 6 Name of Well/Wells. or Pipeline Serviced 51. 30-6 # 12 A 30-039-25700
Elevation 686 Completion Date 3-17-98 Total Depth 300' Land Type 5 F
Casing Strings, Sizes, Types & Depths 8" PVc x 20'
If Casing Strings are cemented, show amounts & types used 4 Bags Portland Cement
If Cement or Bentonite Plugs have been placed, show depths & amounts used
Depths & thickness of water zones with description of water: Fresh, Clear
Salty, Sulphur, Etc. 100', Seep
Depths gas encountered: 10NL
Ground bed depth with type & amount of coke breeze used: 300', 1800 1bs
Intesco Swicoke breeze
Depths anodes placed: 290', 280', 270', 260', 250', 240, 230', 215'
Depths vent pipes placed: 300' DECENVED
Vent pipe perforations: 6 Ham 150' MAR - 9 1999
Remarks: OIL COM. DIV. DIST. 3
Energe 6

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

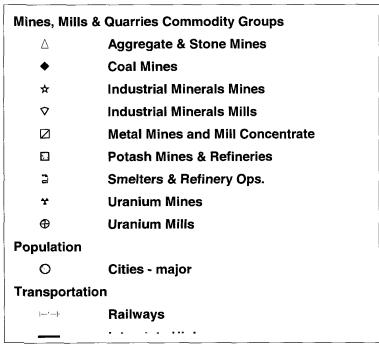
Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

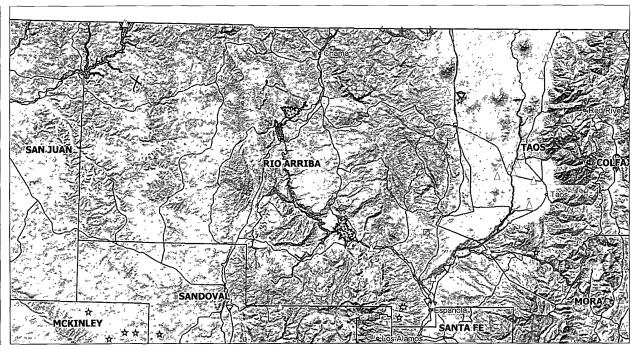
706/2-18 135

		COMPA			DEEP W	ELL GRO	UNDED L	OG DATA	SHEET	SF-6	7874	
:OMPAN	YNAME	Buck	na tox	Resi	arces	الروب الماليات الماليات				Eku.	6868	
VELL IV	WE	:573	ofu *	12A				سوبور ساسي		18.	· · · · · · · · · · · · · · · · · · ·	
EGAL L	OCATIO	t D- 5	26-31	0-6			COUNT	Y. Rio	Atabe			
ATE:	3-17-	98					TYPE O	F COKE:	Lores	co S	W	
DEPTH: 300' AMT. OF COKE BACKFILL:								1800	16s			
IT SIZE	64	4					VENT P	PE: 3	90'			
RILLER	NAME:	JUK	Ledbe	ther			PERF. F	MPE: B	tom 1	50'		
IZE AN	DTYPE	OF CASIN	G: 8 1	PUC X	20'		ANODE	AMT. & T	PE: A	eatec.	- Durit	ou
							BOULD	ER DRILLI	NG: 6)		
DEPTH			DEPTH			DEPTH			COMPLE			
₹	LOG	ANODE	FI.	LOG	ANODE	FT.	LOG	ANODE	WATER D			20
									ISOLATIC	M PLUG	3:	
100			265	10		430					_	
105			270	1.0	3	435					OUTPUT	
110			275	1.3		440			ANODE#		NO COK	
115			280	1.7	2	445			1	290		60
120			285	1.60		450			2	220	1.7	Caro
125			290	1,9		455			3	270	10	13.6
130			295	1.1		460			4	260	1.3	Sil
135			300	TO.		465			5	250	47	7.5
140			305			470			6	240		2.4
145			310			475			7	230	1,8	S.a
150	1,3		315			480			8	215	1.9	7.6
155	118		320			485			9			
160	1/8	<u> </u>	325	<u> </u>	<u> </u>	490			10			
165	1.6	<u> </u>	330			495	<u> </u>		11		<u> </u>	<u> </u>
170	47		335	ļ		500			12	<u> </u>		<u> </u>
175	16	4	340	<u> </u>		505			13			
180	2.0	<u> </u>	345	 		510			14			
185	1.3		350	} _	}	515	 		15			1
190		4	355	 _		520	 	- 	16		<u> </u>	
195	1.4		360	<u> </u>	 	525			17	<u> </u>		——
200	1 - 7		365	 	 	530		- 	18			
205 210	143	+	370 375	 	 	535 540	+		19		 	+
215	1:3	12	380	 	 	545	+		20 21	 	 	
220	1,8	+-*-	385	 	+	550	 	 	22	+	 	+
225	1.4	+	390	 	+	555	+		23	 	+	+
230	1.8	+-	395	 	 	560	+	+	24	 	 	+
235	1/8	+	400	+	1	565	 		25	+	 	+
240	15.9	6	405	 	1	570	+		26	+	+	+
245	7.7	1 "	410	1		575	+-		27	 		
250	Vila	1 2	415	1	1	580			28	 	 	+
255	1/2	 	420	 	+	585	+		29	+	+	1
260	1/3	4	425	1	1	590	 		30	1	1	+-
	1	1	1	1	1	595	1		1	1	1	1
LOGINO	VOLTS	: 11.6	07		VOLTA	GE SOU	RCE: Z	1+10			_ 	
TOTAL		14,1				G/B RES		E: . 82	· ····			
REMAR										7102		
		Ì	p# 34	157A					á	2680.00		
<u> </u>	HICKLA	رند)p# 34 c;# 38	rsJ						150.75	[RAC	,
(5), ,		171		.,,,,,,						830.75	-	
										050.13	<u> </u>	



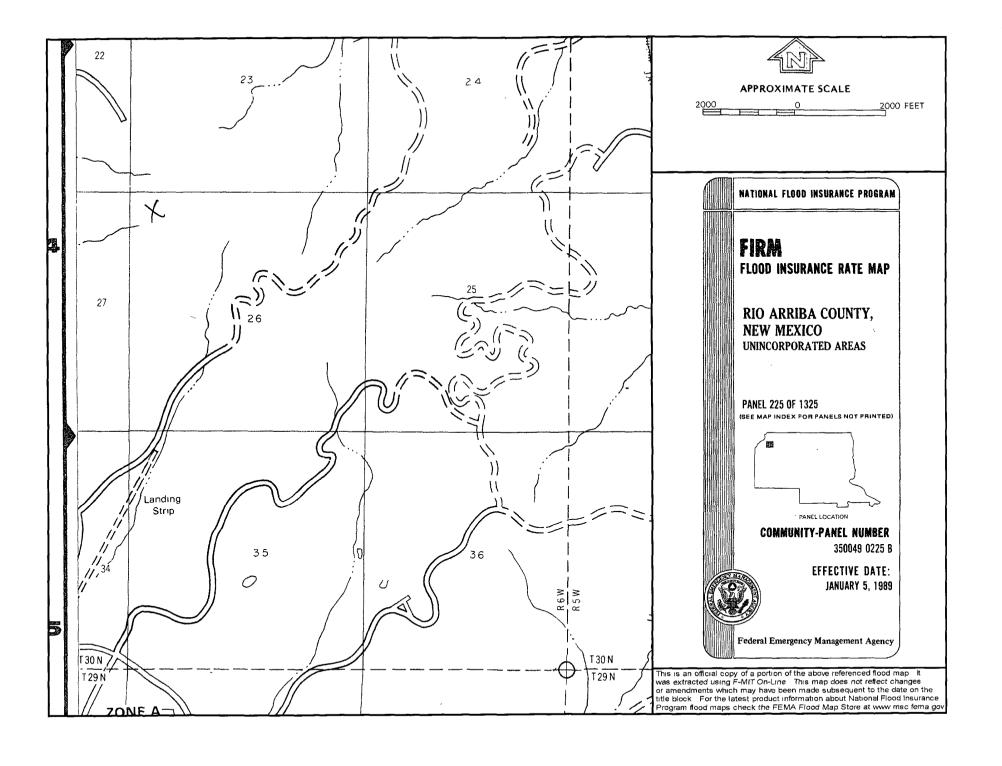
SJ 30-6 Unit 12A / Mines, Mills and Quarries Map











Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 30-6 Unit 12A is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data with an elevation of 6868' and groundwater depth of 100'. Using this cathodic data point the indication of groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

Hydrogeological report for San Juan 30-6 Unit 12A

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:

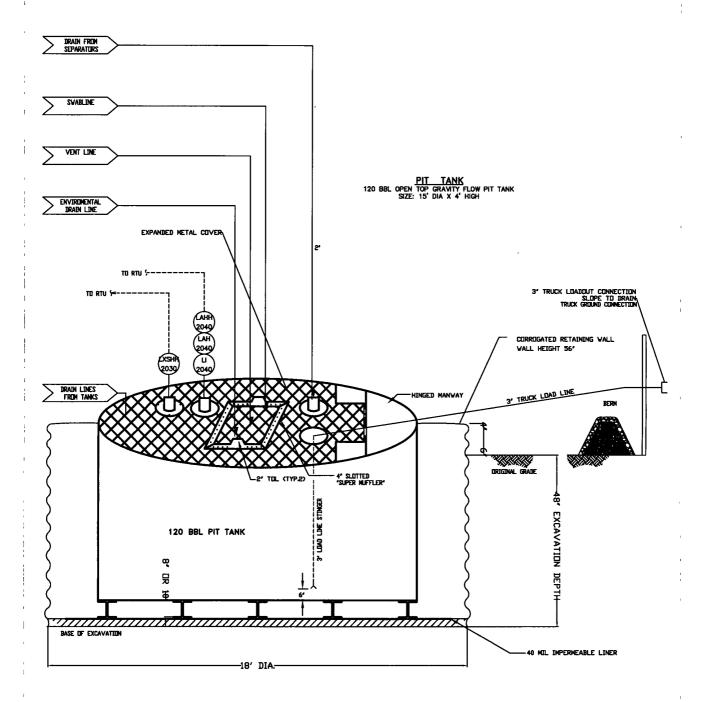
- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 3. BR shall construct fencing around 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.
- 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.
- 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.
- 7. BR shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 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 RUFCO 4000B. This product provides a level of UV and harsh weather conditions protection. It is rated to a Low temperature impact failure of -94°F. It exceeds ASTMD3083 standard by 10%. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached.
- 11. The general specification for design and construction are attached in the BR document.

MANUAL OPERATIONS PRODUCTION TANKS DRAINLINE SWABLINE DRAIN LINE ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID

AUTOMATED OPERATION VENT VALVE DRAIN LINE DUMP LINE FROM SEPARATORS



ConocoPhillips San Juan Business Unit

BOJEGEJAF

PROPERTIES	TEST METHOD	3U	088	J36	вв	J45	38
		Mın Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black/Black		Black/Black		Black/	Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	usion laminated	with encapsulat	ed tri-direction	al scrim reinforc	ement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1: Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

800-635-3456

08/06



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:

- 1. 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.
- 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 shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 4. BR shall continuously 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.
- 5. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 6. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.
- 7. If a leak develops below the liquid's level, BR shall remove all liquids within 48 hours and repair the damage or replace the below-grade tank. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation. The closure report will be filed on C-144
- 3. 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 will be disposed of at the San Juan County Landfill located on CR 3100.
- 4. 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.
- 5. 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.
- 6. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 7. 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.

- 8. 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.
- 9. 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.
- 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.
- 11. 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.
- 12. 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 or Forest Service stipulated seed mixes will used on federal 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.
- 13. 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.
- 14. 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