	r., Hobbs, NM 88240	Energ	State of New Mexico	Form C-1 July 21, 2
<u>Di</u>	REGIST	ERED	ment —ion Division . Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
District JV District JV 1220 S. St. Francis Dr., Santa Fe, NM, 87505			заша ге, 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.
		Pit, Closed	-Loop System, Below-Grad	le Tank, or
	Propo	sed Alternati	ve Method Permit or Closur	re Plan Application
	Type of action:	X Permit of a Closure of a Modificatio Closure plan below-grade	pit, closed-loop system, below-grade t i pit, closed-loop system, below-grade in to an existing permit n only submitted for an existing permit e tank, or proposed alternative method	tank, or proposed alternative method e tank, or proposed alternative method itted or non-permitted pit, closed-loop system,
Instruction	ns: Please submit one	application (Form	n C-144) per individual pit, closed-lo	op system, below-grade tank or alternative requ
P	lease be advised that approval ronment. Nor does approval ro	of this request does not elieve the operator of its	relieve the operator of liability should operations a responsibility to comply with any other applicable	result in pollution of surface water, ground water or the e governmental authority's rules, regulations or ordinances.
1				
Operator: Bu	Irlington Resources (Dil & Gas Compa	ny, LP	OGRID#: 14538
Facility or we	and the second s	A 8		
API Number		3004522727	OCD Permit Numbe	
U/L or Otr/Of	T' K Sect	ion: 9 To	wnshin: 31N Range	10W County: Sen Juan
Center of Pro	nosed Design: Latitu	le: 360	90971°N Longitude:	-107 89122°W NAD: ¥1927
Surface Owne	er: X Federal	State	Private Tribal Trust or India	in Allotment
Permaner	nt Emergency	Cavitation P&		
Lined String-Re	Unlined I einforced : Welded	Factory Othe	r Volume:	bbl Dimensions Lx Wx D
Lined String-Re Liner Seams Closed Type of Ope Drying Lined	Unlined I cinforced : Welded I I-loop System: Subsect ration: P&A ; Pad Above Groups Unlined Lir	Factory Other Cation H of 19.15.17. Drilling a new w und Steel Tanks [her type: Thickn	r Volume: 11 NMAC 'ellWorkover or Drilling (Applies to notice of intent) Haul-off BinsOther ess milLLDPEH	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams	Unlined I inforced : Welded I Helded I Helded I Helded I Composition: P&A Composition: PAA Composition: PAA Com	Factory Othe Cation H of 19.15.17. Drilling a new w und Steel Tanks [her type: Thickn Factory Other	r Volume: Il NMAC 'ellWorkover or Drilling (Applies to notice of intent) Haul-off BinsOther lessmilLLDPEH	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume:	Unlined I inforced : Welded I 	Factory Othe Cation H of 19.15.17. Drilling a new w und Steel Tanks [her type: Thickn Factory Other A I of 19.15.17.11 Ni bbl Type of fl	r Volume: r Volume: 11 NMAC /ell Workover or Drilling (Applies to notice of intent) Haul-off BinsOther Haul-off BinsOther uess milLLDPEF MAC luid: <u>Produced Water</u>	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume: Tank Constm	Unlined I inforced : Welded I Helded I Helded I Helded I Back A Back A	Factory Other	Il NMAC Volume: Volume	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume: Tank Constru Secondar	Unlined I inforced : Welded I t-loop System: Subsection aration: P&A yead Above Green Unlined Lire : Welded I grade tank: Subsection 120 uction material: y containment with leak	Factory Other Cation H of 19.15.17. Drilling a new w und Steel Tanks [Factory Other Factory Other I of 19.15.17.11 Ni bbl Type of find Metection X	r Volume: r Volume: 11 NMAC /ell Workover or Drilling (Applies to notice of intent) Haul-off BinsOther Haul-off BinsOther ess milLLDPEH MAC luid: Produced Water <u>/etal</u> Visible sidewalls, liner, 6-inch lift and auto	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume: Tank Constru Secondar Visible Liner Type:	Unlined I inforced : Welded I H-loop System: Subsection ration: P&A g Pad Above Group Unlined Lir : Welded I grade tank: Subsection 120 uction material: y containment with leak is sidewalls and liner Thickness	Factory Other Cation H of 19.15.17. Drilling a new we und Steel Tanks [Thicknew Content Factory Other I of 19.15.17.11 Ni bbl Type of fleven detection X Visible side mil	Il NMAC Volume: Volume: Volume: Volume: Viell Workover or Drilling (Applies to notice of intent) Haul-off Bins Other Usss MAC NAC	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume: Tank Constru Secondar, Visible Liner Type: Altern	Unlined I inforced : Welded I -loop System: Subsec ration: P&A Pad Above Gro Unlined Lir : Welded I grade tank: Subsection 120 uction material: y containment with leak sidewalls and liner Thickness ative Method:	Liner type: Thick Factory Other Stion H of 19.15.17. Drilling a new w und Steel Tanks [und Steel Tanks [ter type: Thicknew Factory Other I of 19.15.17.11 NI [bbl Type of flag detection X	r Volume: r Volume: 11 NMAC rell Workover or Drilling (Applies to notice of intent) Haul-off BinsOther Haul-off BinsOther milLLDPEH MAC MAC MAC MAC Mac MAC National State of the state	HDPE PVC Other
Lined String-Re Liner Seams Closee Type of Ope Drying Lined Liner Seams 4 X Below- Volume: Tank Constru- Secondar Visible Liner Type: 5 Alterna Submittal of	Unlined I inforced Unlined I I-loop System: Subsection I-loop System: S	Liner type: Thick Factory Other Stion H of 19.15.17. Drilling a new w und Steel Tanks [und Steel Tanks [ter type: Thickn Factory Other I of 19.15.17.11 NI Dther detection X	Il NMAC Volume: Volume: Volume: Volume: Vell Volume: Vell Volume: Vell Vell Vell Vell Vell Vell Vell Ve	HDPE PVC Other

6. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)							
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, 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 barbed wire.</u>							
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
X Screen Netting Other							
Monthly inspections (If netting or screening is not physically feasible)							
8 Signs: Subsection C of 19.15.17.11 NMAC							
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
X Signed in compliance with 19.15.3.103 NMAC							
9 Administrative Approvals and Exceptions							
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.							
Please check a box if one or more of the following is requested, if not leave blank:							
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	sideration of a	pproval.					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10 Siting Criteria (recording permitting): 10.15.17.10.NMAC							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	X No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
(Applied to permanent pits)							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	AITA	1					
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 Witten confirmation or varification from the municipality. Written confirmation or varification from the municipality.	Yes	XNo					
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map: Topographic map: Visual inspection (certification) of the proposed site 	Yes	XNo					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo					
Within an unstable area.	Yes	XNo					
- 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					

11 <u>Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist:</u> Subsection B of 19.15.47.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the bay, that the documents are attached
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19,15,17,9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenañce Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boyes 14 through 18, if applicable), based upon the appropriate requirements of 19.15.17.12 NMAC
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
Linux Specifications and Compatibility A
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
Closure Plan based upon the appropriate requirements of Subsection C of 10.15.17.0 MMAAC - 140.15.17.10 MMAAC
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 Pronosed 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
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
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.
Image: reuse indicate, by a check mark in the dox, that the documents are attached. Image:
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection E of 10.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

. ¢

.

f

16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Groun</u> Instructions: Please identify the facility or facilities for the disposal of liquids, du are required	d Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) illing fluids and drill cuttings. Use attachment if more than twe	Jucilities
Disposal Facility Name:	Disposal Facility Permit #	
Disposal Facility Name:	Disposal Facility Permit #	
Will any of the proposed closed-loop system operations and associated act	ivities occur on or in areas that will not be used for future	service and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specification - based upon the appropriate requirements of S Re-vegetation Plan - based upon the appropriate requirements of S Site Reclamation Plan - based upon the appropriate requirements of S	ions: ropriate requirements of Subsection H of 19.15.17.13.NM ubsection 1 of 19.15.17.13 NMAC f Subsection G of 19.15.17.13 NMAC	AC
¹⁷ Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 N Instructions: Each siting criteria requires a demonstration of compliance in the closure p certain siting criteria may require administrative approval from the appropriate district of for consideration of approval. Justifications and/or demonstrations of equivalency are re-	IMAC Ian. Recommendations of acceptable source material are provided be iffice or may be considered an exception which must be submitted to the equired. Please refer to 19.15.17.10 NMAC for guidance.	low. Requests regarding changes to te Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data	a obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried w	vaste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	
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	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si (measured from the ordinary high-water mark).	gnificant 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 churce - Visual inspection (certification) of the proposed site; Aerial photo; satellite in	h in existence at the time of initial application. nage	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le purposes, or within 1000 horizontal fee of any other fresh water well or spring, in - NM Office of the State Engineer - iWATERS database: Visual inspection (or	ss than five households use for domestic or stock watering existence at the time of the initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh wa pursuant to NMSA 1978, Section 3-27-3, as amended.	ter well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality: Written approva Within 500 first of a worldard 	l obtained from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual	inspection (certification) of the proposed site	
Within the area overlying a subsurface mine. • Written confiramtion or verification or map from the NM EMNRD-Mining a	nd Mineral Division	Yes No
Within an unstable area.		
- Engineering measures incorporated into the design; NM Bureau of Geology a Topographic map	& Mineral Resources; USGS; NM Geological Society:	
Within a 100-year floodplain. - FEMA map		Yes. No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Edite by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the approp Proof of Surface Owner Notice - based upon the appropriate require Construction/Design Plan of Burial Trench (if applicable) based upon Protocols and Procedures - based upon the appropriate requirements Construction/Design Plan of Temporary Pit (for in place burial of a construction/Design Plan of Temporary Pit (for in place burial of a construction/Design Plan of Temporary Pit (for in place burial of a construction Sampling Plan (if applicable) - based upon the appropriate requirements Confirmation Sampling Plan - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling fluid)	ach of the following items must bee attached to the closur riate requirements of 19.15.17.10 NMAC ments of Subsection F of 19.15.17.13 NMAC on the appropriate requirements of 19.15.17.11 NMAC drying pad) - based upon the appropriate requirements of 1 of 19.15.17.13 NMAC riate requirements of Subsection F of 19.15.17.13 NMAC ments of Subsection F of 19.15.17.13 NMAC ds and drill cuttings or in case on-site closure standards can	re plan. Please indicate, 9.15.17.11 NMAC nnot be achieved)

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

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

, I

la I			
Operator Application	Certification:		
Thereby certify that the in	formation submitted with this application is tr	aie, accurate and complete to the	: best of my-knowledge and belief.
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician
Signature:	Cupital Jalaya	Date:	12/22/2008
e-mail address:	crystal uticized conceptings.com	Telephone:	505-326-9837
20			
OCD Approval:	Permit Application (including closure plan	i) Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative S	Signature:		4 10.1
			Approval Date:
Title:		OCD Peri	nit Number:
21			
Closure Report (requi	red within 60 days of closure completion	n): Subsection K of 19.15.17.13 NMA	c
report is required to be su	e required to obtain an approved closure plan buitted to the division within 60 dows of the co	a prior to implementing any close completion of the closure activities	ure activities and submitting the closure report. The closure
approved closure plan has	been obtained and the closure activities have	been completed.	s. rieuse do noi complete tius section of the form until an
			e Completion Date:
			e completion pare:
20			
Closure Method:	_		
Waste Excavation	and Removal On-site Closure Me	thod Alternative Closure	Method Waste Removal (Closed-loop systems only)
If different from a	pproved plan, please explain.		
73			
Closure Report Regardin	g Waste Removal Closure For Closed-loop	Sustains That Heiling About C	round Steel Tanks or Houl off Bine Only
		SYSTEMS I HAL OTHIZE ADDVP L-	
Instructions: Please ident	ify the facility or facilities for where the liqui	ds, drilling fluids and drill cutti	ngs were disposed. Use attachment if more than two facilities
Instructions: Please identi were utilized.	ify the facility or facilities for where the liqui	ds, drilling fluids and drill cutti	ings were disposed. Use attachment if more than two facilities
Instructions: Please identi were utilized. Disposal Facility Name	fy the facility or facilities for where the liqui	ids, drilling fluids and drill cutti Disposal Facility	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name	ify the facility or facilities for where the liqui	ids, drilling fluids and drill cutti Disposal Facility Disposal Facility	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy	ify the facility or facilities for where the liqui	Disposal Facility Disposal Facility Disposal Facility Disposal Facility	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please	ify the facility or facilities for where the liqui 	Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility No	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of	ify the facility or facilities for where the liqui : : ystem operations and associated activities perf demonstrate compliane to the items below) areas which will not he used for future service	<u> Systems That Othize Above G</u> Disposal Facility Disposal Facility Disposal Facility No No and operations:	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of Site Reclamation (ify the facility or facilities for where the liqui	<u> Systems I nat Othize Above G</u> Disposal Facility Disposal Facility Disposal Facility No No and operations:	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation	Systems 1 nut Ottilize Above G. ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Ormed on or in areas that will no No and operations:	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complitane to the items below) areas which will not he used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility	Permit Number:
Instructions: Please identivere utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of Site Reclamation (I Soil Backfilling an Re-vegetation App 24	ify the facility or facilities for where the liqui	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility	Permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique	Systems 1 nut Utilize Above G ds, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility No and operations: he following items must be atta	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: pt be used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation Appl 24 Closure Report Atta the box, that the docum	ify the facility or facilities for where the liqui	Systems 1 nut Otilize Above G. ids. drilling fluids and drill cutti Disposal Facility Disposal Facility Ormed on or in areas that will no No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: prove be used for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation () Soil Backfilling an Re-vegetation Appl 24 Closure Report Atta the box, that the docum Proof of Closure 1	ify the facility or facilities for where the liqui	<u>Systems I nut Otilize Above G</u> <u>ids</u> , drilling fluids and drill cutti Disposal Facility Disposal Facility iormed on or in areas that will no No and operations: the following items must be attac	cheed to the closure report. Please indicate, by a check mark in
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure Proof of Deed No Delo Pleo for a	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique Achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) bits also was and tameson with the	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: proceed for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s	ify the facility or facilities for where the liqui	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: pr be used for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure Proof of Deed No Plot Plan (for on-s Confirmation San	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not he used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique echment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) apling Analytical Results (if applicable)	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility On no no and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: pr be used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique echement Checklist: Instructions: Each of t teents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) apling Analytical Results (if applicable) ampling Analytical Results (if applicable)	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: pr be used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted of Site Reclamation (I Soil Backfilling an Re-vegetation App) 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Ptot Plan (for on-s Confirmation San Waste Material Sa	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) apling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number	Systems 1 nut Otilize Above G. ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Ormed on or in areas that will no No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: pr be used for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I) Soil Backfilling an Re-vegetation Appi 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) stice (required for on-site closure) site closures and temporary pits) appling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation	Systems 1 nut Otilize Above G. ids. drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility On or in areas that will no No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: prove be used for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I Soil Backfilling an Re-vegetation App) 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) ampling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique	Systems 1 nut Otilize Above G. ids. drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility On or in areas that will no No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: provide used for future service and opeartions?
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I Soil Backfilling an Re-vegetation App) 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sz Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not he used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) mpling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation)	Systems 1 nut Otilize Above G. ids. drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility Disposal Facility Disposal Facility On or in areas that will no No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: by be used for future service and opeartions? cheed to the closure report. Please indicate, by a check mark in
Instructions: Please identivere utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted i Site Reclamation () Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation to On-site Closure L	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) ampling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude:	Longitude:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: provide used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in NAD 1927 1983
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted i Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation On-site Closure L	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique achment Checklist: Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) appling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude:	Disposal Facility Disposal Facility Disposal Facility Disposal Facility No No and operations:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: or be used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in ched to the closure report. NAD 1927 1983
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation On-site Closure L	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique <u>achment Checklist:</u> Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) appling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number nd Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude:	<u> Systems 1 nut Offize Above G</u> <u> ids. drilling fluids and drill cutti </u> Disposal Facility Disposal Facility Disposal Facility ormed on or in areas that will no or and operations: the following items must be attack the following items must be attack Longitude:	NAD19271983
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the bax, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation to On-site Closure L	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique <u>achment Checklist:</u> Instructions: Each of the tents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) appling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude: fication:	<u> Systems I nut Utilize Above G</u> <u> ids. drilling fluids and drill cuttility</u> Disposal Facility Disposal Facility corned on or in areas that will no No r and operations: the following items must be attack the following items must be attack Longitude:	permit Number:
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I) Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-si Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation On-site Closure L	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the service of the service of the service photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the service of the servi	Systems I nut Utilize Above G ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility ormed on or in areas that will no No and operations: the following items must be atta Longitude: Longitude:	Permit Number:
Instructions: Please identivere utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted i Site Reclamation (I Soil Backfilling an Re-vegetation App) 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation San Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation On-site Closure L Disposal Facility I	ify the facility or facilities for where the liqui system operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the service of the service of the service photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the service of the serv	Systems I nut Utilize Above G ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility No and operations: the following items must be atta Longitude: Longitude:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: or be used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in ched to the closure report. Please indicate, by a check mark in nd complete to the best of my knowledge and belief. 1 also certify that sure plan.
Instructions: Please identivere utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted i Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation Sam Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation (On-site Closure L Disposal Facility I Construction Sam Con-site Closure L Construction Sam Con-site Closure L Con-site Closure L Site Reclamation (On-site Closure L Construction Sam Con-site Closure L Construction Sam Con-site Closure L Construction Sam Con-site Closure L Con-site Closure L Con-site Closure L Construction Sam Con-site Closure L Con	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the checklist: Instructions: Each of the nents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) ampling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude: fication: primution and attachments submitted with this of It applicable closure requirements and conditi	Systems I nut Offize Above G ds, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility No and operations: the following items must be atta Longitude: Longitude:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: provide used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in ched to the closure report. Please indicate, by a check mark in NAD 1927 1983 nad complete to the best of my knowledge and belief. I also certify that sure plan.
Instructions: Please identivere utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted i Site Reclamation (I Soil Backfilling an Re-vegetation App 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation Sam Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation (On-site Closure L Disport Closure L Compared Closure Certify that the infi- the closure complies with at Name (Print):	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate complilane to the items below) areas which will not be used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique whether the checklist: Instructions: Each of the nents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) mpling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude: fication: rimution and attachments submitted with this of It applicable closure requirements and conditi	Systems I nut Utilize Above G ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility No and operations: the following items must be attact the following items must be attact Longitude: Longitude: Title:	ngs were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: provide used for future service and opeartions? ched to the closure report. Please indicate, by a check mark in ched to the closure report. Please indicate, by a check mark in NAD 1927 1983 nal complete to the best of my knowledge and belief. I also certify that sure plan.
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I) Soil Backfilling an Re-vegetation Appl 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation San Waste Material Sz Disposal Facility I Soil Backfilling an Re-vegetation Appl Site Reclamation On-site Closure L Site Reclamation On-site Closure L	ify the facility or facilities for where the liqui ystem operations and associated activities perf demonstrate compliane to the items below) areas which will not he used for future service Photo Documentation) d Cover Installation lication Rates and Seeding Technique <u>achment Checklist:</u> Instructions: Each of the itents are attached. Notice (surface owner and division) tice (required for on-site closure) site closures and temporary pits) mpling Analytical Results (if applicable) ampling Analytical Results (if applicable) ampling Analytical Results (if applicable) Name and Permit Number and Cover Installation plication Rates and Seeding Technique (Photo Documentation) ocation: Latitude: <u>fication:</u> mution and attachments submitted with this of Il applicable closure requirements and conditi	Systems I nut Utilize Above G ds. drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility No and operations: the following items must be attact the following items must be attact Longitude: Longitude: Title: Date: Date:	Interviewer disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: Image: were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Image: were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Image: were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Image: were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Image: were disposed. Permit Number: Image: were disposed. Image: were disposed. Image: were disposed. NAD 1927 1983 Image: were disposed. 1983 Image: were disposed. 1983 Image: were disposed. 1927 1983 1983 Image: were disposed. 1983 Image: were disposed. 1983 Image: were disposed. 1983 Image: were disposed. 1983 Image: were disposed
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I) Soil Backfilling an Re-vegetation Appl 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation San Waste Material S2 Disposal Facility I Soil Backfilling an Re-vegetation Appl Site Reclamation to On-site Closure L Site Reclamation to On-site Closure L Properator Closure Certify that the infolie the closure complies with an Name (Print): Nignature:	ify the facility or facilities for where the liqui	Systems I nut Utilize Above G ids, drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility ormed on or in areas that will no no n and operations: the following items must be attacted the following items must be attacted Longitude: L	Index over the disposed. Use attachment if more than two facilities Permit Number: Permit Number: Permit Number: Image were disposed. Use attachment if more than two facilities Permit Number: Permit Number: Image were disposed. Use attachment if more than two facilities Permit Number: Image were disposed.
Instructions: Please ident were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please Required for impacted in Site Reclamation (I) Soil Backfilling an Re-vegetation Appl 24 Closure Report Atta the box, that the docum Proof of Closure I Proof of Closure I Proof of Deed No Plot Plan (for on-s) Confirmation San Waste Material S2 Disposal Facility I Soil Backfilling an Re-vegetation Appl Site Reclamation to On-site Closure L Site Reclamation to On-site Closure L Properator Closure Certif Thereby certify that the info he closure complies with at Name (Print): Signature:	ify the facility or facilities for where the liqui	Systems I nut Utilize Above G ds. drilling fluids and drill cutti Disposal Facility Disposal Facility Disposal Facility ormed on or in areas that will no no n and operations: the following items must be attacted the following items must be attacted Longitude: Lo	ngs were disposed. Use attachment if more than two facilities Permit Number: Perm

New Mexico Office of the State Engineer



WATER COLUMN REPORT 08/20/2008

(97	uarter	s are	a 1=1	NW 2	=NE	3=SW 4=SI	E)					
(97	uarter	s are	big	gges	st to	smalles	t)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	a d	PI	Zone	х	Y	Well	Water	Column	
SJ 00498	31N	10W	04	1 2) ,				26	8	18	
SJ 03062 CLW263578	31N	10W	04	1 2	2				47	40	7	
SJ 03062	31N	10W	04	1 2	2				55	46	9	
SJ 02844	31N	10W	04	1 2	2 4				37	21	16	
SJ 00573	31N	10W	04	1 4	ļ.				37	12	25	
SJ 00595	31N	10W	04	1 4	2				90	12	78	
SJ 00595 S	31N	10W	04	1 4	2				70	10	60	
SJ 00175	31N	10W	04	2					28	13	15	
SJ 01563	31N	10W	04	2 1					44	28	16	
SJ 02089	31N	10W	04	2 1	. 1				55	40	15	
SJ 03033	31N	10W	04	2 1	. 1				52	30	22	
SJ 03034	31N	10W	04	2 1	. 2				45	23	22	
SJ 01564	31N	10W	04	2 2	2				34	10	24	
SJ 00128	31N	10W	04	2 2	2				70	21	49	
SJ 02044	31N	10W	0.5	1 3	3				22	12	10	
SJ 01370	31N	10W	05	1 3	3 2				48	28	20	
SJ 01967 X	31N	10W	05	1 3	3 2				25	10	15	
SJ 02843	31N	10W	05	1 3	3 2				25	10	15	
SJ 02044 X	31N	10W	05	1 3	3 4				28	14	14	
SJ 02083	31N	10W	05	2 2	2 1				23	10	13	
SJ 02069	31N	10W	05	2 2	2 1				22	9	13	
SJ 03013	31N	10W	05	2 2	2 3				19	7	12	
SJ 03109	31N	10W	05	2 2	2 3				21	2	19	
SJ 03004	31N	10W	05	2 2	2 4				18	6	12	
SJ 02945	31N	10W	05	2 2	2 4				17	5	12	
SJ 03368	31N	10W	05	2 2	2 4				19	6	13	
SJ 03549	31N	10W	05	2 4	4				42	35	7	
SJ 02884	31N	10W	05	2 4	1 4				75			
SJ 00304	31N	10W	05	3 4	1				18	5	13	
SJ 02399	31N	1.0W	05	3 4	1 1				40	14	26	
SJ 02944	31N	10W	05	3 4	12				100			
SJ 03112	31N	10W	05	3 4	1 2				45	33	12	

SJ	01373	x	31N	10W	05	3	4	3				35	10	25
SJ	02107		31N	10W	05	4	3					35	16	19
SJ	01373		31N	10W	05	4	3					6	3	3
SJ	02037		31N	10W	05	4	3					39	11	28
SJ	03452		31N	10W	05	4	4	2				61	30	31
SJ	03336		31N	100	05	4	4	3				58	28	30
SJ	03246		31N	10W	05	4	4	3				65	15	50
SJ	01958		31N	10W	0,6	2	-					103	83	20
SJ	01977		31N	10W	06	2	3					93	33	60
SJ	03308		31N	10W	06	2	4	3				100	60	40
SJ	02150		31N	10W	07	2	2	2				41	23	18
SJ	02389		31N	TOW	07	2	2	3				48	31	1 /
SJ	03079		31N	TOM	07	2	2	3				50		
SJ	03330		31N	LOW	07	3	3	T				400	2.0	1.0
SJ	01521		31N	LOW	07	4	2	0	260707	-	2140004	45	29	15
SJ	03802	PODI	31N	1 OW	07	4	3	2	26.9793	3	2149984	41	24	17
SJ	00585		31N	LOW	08	1	2					40	23	17
SJ	02304		3 IN	LOW	08	1	2	٨				35	29	10
SJ	03057	2021		100	00	2	2	4				19	6	15
50	03/14	PODI		100	10	2	T	T				21	0	C T
50	00054	EVELOP		1.0147	15	2						400		
50	01108	-EXPLOR	2 1 M	1.0W	17	2	Λ					150	07	61
50	02624		31N	1 0 10	1.8	1	1					295	125	170
<u>о</u> е т	01616		31N	1.01	1.8	1	1 2					18	225	10
<u>50</u> 9 T	01534		31N	1.01	18	1	2	1				31	23	11
90 G.T	03345		31N	1 0107	18	1	2	2				21	11	10
S.T	01796		31N	100	18	1	3	ร				32	20	12
S.T	01598		31N	100	18	1	4	5				30	5	25
S.T	01587		31N	1.0W	18	1	4					35	5	30
S.T	03163		31N	100	18	1	4	3				19	5	14
SJ	01747		31N	100	18	1	4	3				20	6	14
SJ	01718		31N	10W	18	2	1	4				30	4	26
SJ	03813	POD1	31N	10W	18	2	1	4	269778	8	2148065	16	6	10
SJ	03070		31N	10W	18	2	3	2				21	1	20
SJ	03324		31N	10W	18	2	3	2				43	20	23
SJ	03474		31N	10W	18	2	4	2				35		
SJ	01625		31N	10W	18	3	1					21	6	15
SJ	01500		31N	10W	18	3	1					26	15	11
SJ	01550		31N	10W	18	3	1					22	7	15
SJ	02821		31N	10W	18	3	1	1				24	8	16
SJ	03119		31N	10W	18	3	1	2				10	8	2
SJ	01552		31N	10W	18	3	1	4				30	22	8
SJ	03114		31N	10W	18	3	2	1				1.6	8	8
SJ	02749		31N	10W	18	3	2	2				16	10	6
SJ	03722	POD1	31N	10W	18	3	2	3				20	6	14
SJ	03721	POD1	31N	10W	18	3	2	3				25	10	15
SJ	03435		31N	100	18	3	2	3				10	6	4
SJ	03622		31N	10W	18	3	2	3				20	6	14
SJ	00611	S	31N	10W	18	3.	3	2				65	25	40
SJ	00611		31N	LOW	18	3.	3	3				58	46	14
SJ	00555	CLW225581	31N	TOM	19	1	4	1				10	45	25
SJ	02909		31N	10W	19	1	1	1				60	4 /	13
SJ	02929		31N	TOM	19	1	1	L				58	40	14
SJ	02979		31N	10W	19	1	1	1				57	43	14
SJ	03103		31N	LOW	19	1	1	1				53	55	20
SJ	03359		31N	10W	19	1	1	1				/0	57	10
SJ	03705	POD1	31N	TOM	19 19	1	1	2				69	56	13
SJ	03487		31N	TOM	19	T	Т	3				C.O	45	20

SJ	03086		31N	10W 19	1 1 3
SJ	03486		31N	10W 19	1 1 3
SJ	01428		31N	10W 19	1 3
SJ	01349		31N	10W 19	1 3 3
SJ	03285		31N	10W 19	3 1 1
SJ	02084		31N	10W 25	4 4 2
SJ	00967		31N	10W 27	4 3
SJ	00990		31N	10W 27	4 3
SJ	01483		31N	10W 27	4 4 1
SJ	02960		31N	10W 27	4 4 2
SJ	03178		31N	10W 27	4 4 2
SJ	03539		31N	10W 27	4 4 3
SJ	00163		31N	10W 28	1 4 1
SJ	00163	EXPL	31N	10W 28	1 4 3
SJ	03459		31N	10W 32	3 3 2
SJ	00981		31N	10W 34	2 1
SJ	01480		31N	10W 34	2 1
SJ	03624		31N	10W 34	2 1 2
SJ	03387		31N	10W 34	2 2 1
SJ	03728	POD1	31N	10W 35	1 3 3
SJ	03545		31N	10W 35	1 4 3
SJ	03544		31N	10W 35	144
SJ	03571		31N	10W 35	144
SJ	03576		31N	10W 35	2 3 3
SJ	03570		31N	10W 35	2 4 4
SJ	03554		31N	10W 35	4 2 1

61	44	17
65	45	20
65	45	20
78	67	11
40		
315		
130	90	40
162	110	52
195	150	45
200	150	50
235	150	85
205	124	81
1538		
1538		
185	175	10
164	118	46
245	125	120
165	65	100
250	200	50
365	230	135
455	317	138
325	220	105
250		
450	137	313
250		
454	317	137

Record Count: 117





Mines, Mills and Quarries Web Map

LUCERNE A 8

Unit Letter: K, Section: 09, Town: 031N, Range: 010W









LUCERNE A 8

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LUCERNE A 8', which is located at 36.90971 degrees North latitude and 107.89122 degrees West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 9 of Township 31 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 2.1 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 21.2 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 1.0 miles to the west. The location is on BLM land and is 1,623 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1878 meters or 6159 feet above sea level and receives 12.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

A state in the state of the

The estimated depth to ground water at this point is 326 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 558 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,284 feet to the northwest. The nearest water body is 6,042 feet to the north. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 7,028 feet to the east. 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 4,455 feet to the northeast. The nearest wetland is a 31.0 acre Ravine located 1,204 feet to the northeast. The slope at this location is 1 degrees to the north as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION -- Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Doak-Avalon association, gently sloping' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 3.7 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3:500 feet.

Hydraulic Properties:

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

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, eastcentral San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

icwévén, **tří**eligna ter do vhivans**ive**rtipei

e el com**de de B**arriero. Not en entre de Barriero de

计图4日1033年5

initial is highly one dible, one conductive to

to, Golagedo, Millonia,

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.
- 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 **Typical Roll** Averages Averages Averages Averages Appearance **Averages** 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 (OZ/yd²) 151 lbs 168 lbs 189 lbs (18.14)210 lbs (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 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 lbf MD 113 lbf MD 110 lbf MD 63 lbf DD 138 lbf MD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD Break % (Film Break) 750 MD ASTM D 7003 550 MD 750 MD 550 MD 550 DD 750 MD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD ASTM D 7003 33 MD Peak % (Scrim Break) 20 MD 30 MD 20 MD 20 DD 36 MD 33 DD 20 DD 31DD 20 DD 36 DD **Tongue Tear Strength** 75 lbf MD 97 lbf MD **ASTM D 5884** 75 lbf MD 104 lbf MD 100 lbf MD 75 lbf DD 117 lbf MD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD ASTM D 4533 146 lbf MD 130 lbf MD 189 lbf MD 160 lbf MD 120 lbf DD 193 lbf MD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 191 lbf DD

< 0.5

64 lbf

180° F

-70° F

MD = Machine Direction

DD = Diagonal Directions

* Dimensional Stability

Maximum Use Temperature

Minimum Use Temperature

Puncture Resistance

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

<1

65 lbf

180° F

-70° F

<0.5

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

<1

50 lbf

180° F

-70° F

**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

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

ASTM D 1204

ASTM D 4833

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

<1

80 lbf

180° F

-70° F

< 0.5

99 lbf

180° F

-70° F

4【計

•

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



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; 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 the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques •
 - Photo documentation of the site reclamation
 - **Confirmation Sampling Results**
 - Proof of closure notice .