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

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

District IV 1220 S St Francis Dr , Santa Fe, NM 87505	,	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
9572 <u>Prop</u>	Pit, Closed-Loop System, Below-Grad osed Alternative Method Permit or Clos	
Type of action:	X Permit of a pit, closed-loop system, below-grade ta Closure of a pit, closed-loop system, below-grade t Modification to an existing permit Closure plan only submitted for an existing permitt below-grade tank, or proposed alternative method	ank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

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perator: Bu	rlington Resources Oil & Gas	Company, LP	OGI	RID#: <u>14538</u>	
ddress: PC	Box 4289, Farmington, NM	87499			
acility or we	ll name: Martin 100				
API Number:	30-045-34		OCD Permit Number:		
/L or Qtr/Qt	r: P(SESE) Section:	34 Township: 30N	Range: 11W	County: San Juan	
enter of Prop	oosed Design: Latitude:	36.76307' N	Longitude: 10	07.97203' W NAI	D: 1927 X 1983
urface Owne	r: X Federal	State Private T	ribal Trust or Indian Allo	tment	
Pit: Su	bsection F or G of 19.15.17.11 NM/ Drilling Workover t Emergency Cavitation				
Lined	Unlined Liner type:	Thickness mil	LLDPE HDPI	E PVC Other	
String-Re	inforced				
Liner Seams	Welded Factory	Other	Volume:bbl	Dimensions Lx	wx D
Closed Type of Ope Drying Lined Liner Seams	ration P&A Drillin Pad Above Ground Steel Unlined Liner type.	notice of in			N 16 17 18 19 20 27
Volume: Tank Constr	uction material: y containment with leak detection	Type of fluid: Produced Metal X Visible sidewalls, lin	er, 6-inch lift and automatic	overflow shut-off	OIL CONS. DIV. DIST.
Liner Type:	Thickness 45 mil		other X Other LLDP	E	
Altern	ative Method:				
	an exception request is required. Fi	cceptions must be submitted to	the Santa Fe Environmental	Bureau office for considera	tion of approval

Fencing: Subsection D of 19 15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate Please specify 4' hog wire with top rail						
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						
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:						
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Fencing/BGT Liner)	ideration of ap	proval				
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
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 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						
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 purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	X No				
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	XYes	No				
 Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 						
Within the area overlying a subsurface mine.						
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area		XNo				
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes	ANO				
Within a 100-year floodplain	Yes	XNo				

Form C-144 Oil Conservation Division Page 2 of 5

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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						
19.15 17.9 NMAC and 19.15.17.13 NMAC						
Previously Approved Design (attach copy of design) API or Permit						
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15 17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC						
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC						
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC						
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19.15.17.13 NMAC						
Previously Approved Design (attach copy of design) API						
Previously Approved Operating and Maintenance Plan API						
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 (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. 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						
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						

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15 17.1)						
Instructions Please identify the faculity or faculities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if m are required.	ore than two facilities					
Disposal Facility Name: Disposal Facility Permit #.						
Disposal Facility Name Disposal Facility Permit #.						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be use Yes (If yes, please provide the information No	d for future service and operations?					
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	5.17.13 NMAC					
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17.13 NMAC						
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions. Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material accertain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	submuted to the Santa Fe Environmental Bureau office e.					
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No					
- NM Office of the State Engineer - IWATERS database search; USGS: Data obtained from nearby wells	□N/A					
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<u> </u> 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 obtained from nearby wells	N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or plays (measured from the ordinary high-water mark).	a 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 existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo; satellite image	Yes No					
	Yes No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock v purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	vatering					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance pursuant to NMSA 1978, Section 3-27-3, as amended.	adopted Yes No					
 Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland 	Yes No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site						
Within the area overlying a subsurface mine.	Yes No					
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division						
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Soc	Yes No					
Topographic map						
Within a 100-year floodplain FEMA map	Yes No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached	d to the closure plan. Please indicate,					
by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC						
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC						
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure	e standards cannot 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						

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Closure Renort Irequired within 60 days of closure completion: Suspection to the best of my knowledge and belief	19						
Signature Capital Talings Title Regulatory Technicium						11) 1 6	
Signature: e-mail address Comparison Comparison Construction Constructio							
email address	· · · · -	Crysta	l Tatoya		 		_
OCD Representative Signature:	Signature:	Cons	al Tajoya	Date·		·	_
OCD Representative Signature: Approval Date: Description Descript	e-mail address	crystal tafoya@c	conocophillips com	Telephone:	/ £05-	326-9837	
OCD Representative Signature: Approval Date: Description Descript	1						
OCD Representative Signature:		[7]n 2 4 12 3 4 4	1 at 1 1 1 1 1	Clarent Diam (and a)	Посрес	1.6: (
Closure Report (required within 60 days of closure completion); So-beacons & of 19 157 13 NAMC instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	OCD Approval:	_		~	OCD Cond	litions (see attachment)	
Closure Report (required within 60 days of closure completion); So-beacons & of 19 157 13 NAMC instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:	OCD Representat	tive Signature:	randon &	K	Аррг	oval Date: /2-3-	<i>ا</i> لان.
Closure Report (required within 60 days of closure completion); So-beacons & of 19 157 13 NAMC instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure report. The closure report is required to the without of the division within 60 days of the completion of the closure activities and submitting the closure of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:			1				
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Institutions: Please identify the facility or facilities for where the liquids, drilling fluids and delities and selections of the closure experts to the closure of the solutions of the closure experts.	Title:	<u>Envirol</u>	spec	OCD Pern	nit Number:		
Closure Report Report and submit of Johns of closure completion); Sub-Sub-New M. 19-13-13-13-13-14-15. Closure Completion are requented to the division within 60 days of the completions of the closure activities and submitting the closure report is required to he submitted to the division within 60 days of the completion of the closure activities. In the closure of the form until an approved closure plan has been obtained and the closure activities, have been completed. Closure Completion Date:							
Institutions: Operators are required to obtain an approved Losure plan prior to implementing any closure activities and submitted the division within 60 days of the completion of the Closure activities in a current services. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:							
report is required to be submitted to the division within 60 days of the completion of the closure activates. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activates have been completed. Closure Completion Date:						ubmitting the closure report	The closure
27 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 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	approved closure pla	n has been obtained and the c	losure activities have been c	ompleted.			
Closure Method:				Closur	Completion Da	ite:	
Closure Method:							
Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)							
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name: Disposal Facility Name in the number: Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations: See Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24 Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (graphical Cosure) Ploa Plan (for on-site closures and temporary pits) Confirmation 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		vation and Ramaus!	On syte Cleaning Marks 1	Alternativa Cla	Mathod Dw	arta Pamoval (Classel 1	sustame only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. 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 operations? Yes (If yes, please demonstrate compliane to the items below) No Required for impacted areas which will not be used for future service and operations? Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Revegelation Application Rates and Seeding Technique 24 Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Deed Notice (required for on-site closure) Proof of Deed Notice (required for on-site closure) Proof and for on-site closures and temporary prits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) 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				Anemative Closure	Method W	asie Kemovai (Ciosed-100p	systems omy)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name:	If different fi	rom approved plan, please exp	lain				<u> </u>
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name: 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 operations? Yes (if yes, please demonstrate compiliane to the items below) No Required for impacted areas which will not be used for future service and operations: Stie Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Proof of Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Decal Notice (surface owner and division) Proof of Decal 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 25 Operator Closure Certification: Title:	23			<u></u>			
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Permit Nu							
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name. Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (if yes, please demonstrate complitane to the items below) No Required for impacted areas which will not be used for future service and operations: Soal Backfilling and Cover Installation Proof of Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility 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		identify the facility or faciliti	es for where the liquids, dril	ling fluids and drill cutti	ngs were disposed	. Use attachment if more th	han two facilities
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 operations? Yes (if yes, please demonstrate compiliane to the items below) No No Required for impracted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24 Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. 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) 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 25 Operator Closure Certification: Thereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan Name (Print): Title:		Name		Dienogal 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 operations? Yes (If yes, please demonstrate compiliane to the items below)	-			•			
Yes (If yes, please demonstrate complilane to the nems below) No Required for impacted areas which will not be used for future service and operations: Soil Backfilling and Cover Installation 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 Certification: Interby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan Name (Print): Title:	-	-	and a stinuture maniferms and	•		ro comuse and anaestians?	
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. 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	_				or be used for futur	e service and opeartions?	
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Re-vegetation Application Rates and Seeding Technique		,					
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On-site Closure Location Latitude Longitude:							
25 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan Name (Print): Title:	_	`	n)	T 1, 1		NAD [1007 [7 1002
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	ine ciosure complies	wun au appucable closure re	quirements and conditions sp	pecifiea in ine approved o	ючиге ріап		
Signature: Date	Name (Print):			Title:			
Signature: Date							
	Signature:			Date			
e-mail address: Telephone:	e-mail address			Telephone:			

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range: 11W Sections: 32					32,33,34,	29,28,27,26,35	
NAD27 X:		Y:	,	Zone:		Search Radius:	
County:		Basin:				Number:	Suffix:
Owner Name: (First)			(Last)	⋑ All		O Non-Domestic	① Domestic
POD / Surface Data Report Avg Depth to Water Report Water Column Report							
Clear Form iWATERS Menu Help							
		жилинден от	WATER	COLUMN	REPORT	10/24/2008	

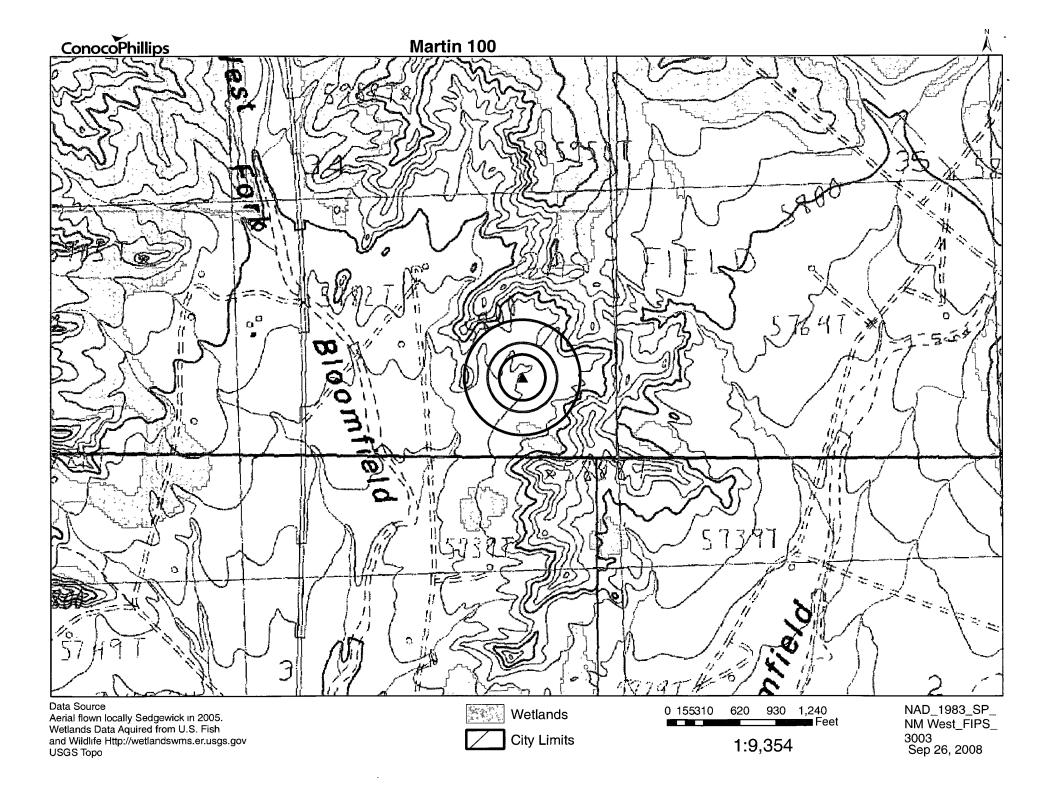
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	(quarter	s are	bie	gge	st	: to	smallest)			Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	đ	đ	q.	Zone	x	Y	Well	Water	Colum
RG 50669	30N	11W	27							360	310	5
SJ 03251	30N	11W	32	3	4	4				150	77	7

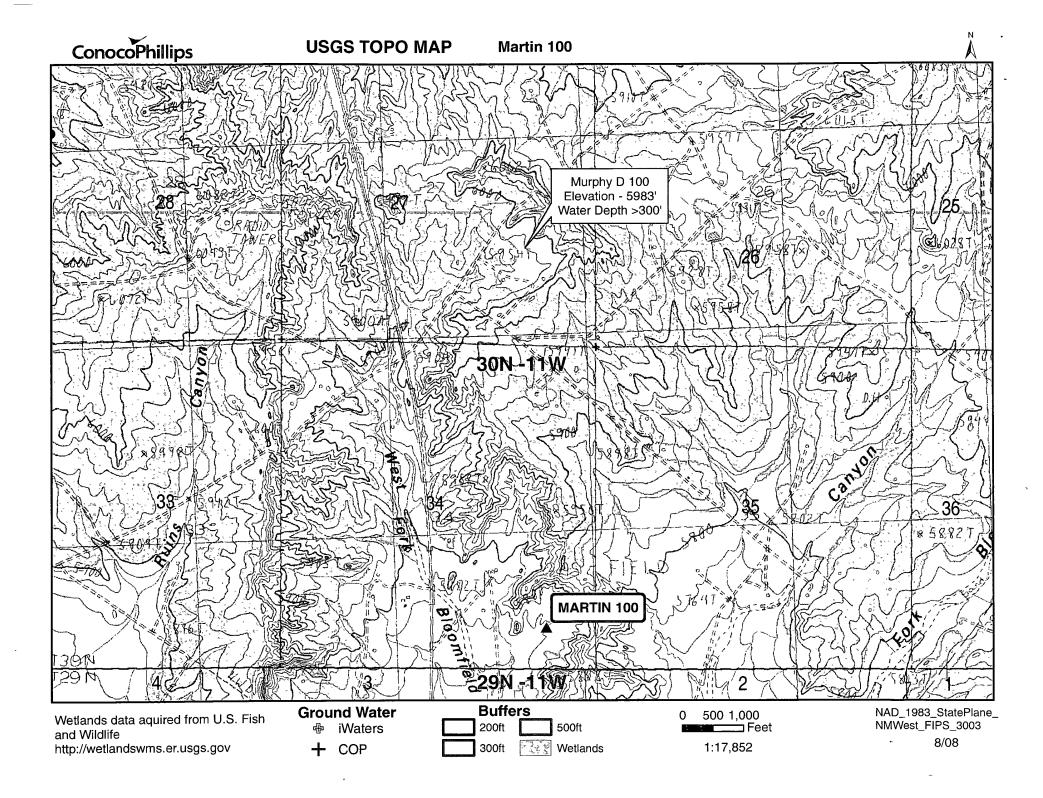
Record Count: 2

New Mexico Office of the State Engineer POD Reports and Downloads

	Professional State	IODIN	cports and bon	moaus			
Towns	hip: 29N	Range: 11W	Sections: 5,	4,3,2	,		
NAD27	X:	Y:	Zone:		Search Radius	::	
County:		Basin:			Number:	Suffix	x:
Owner Name: (F	irst)	()	Last) All		O Non-Domes	tic ①Dome	estic
	POD / Sur	face Data Repo	ort Avater Column Repo		to Water Report	Mes A	
	E.	Clear Form	WATERS M	lenu	Help		
		Ţ	WATER COLUMN	REPORT	10/24/2008		wild yn feldigol fernegy gewinnige
POD Number			2=NE 3=SW 4=SI st to smallest I q Zone		Dept Y Well	_	Wate Colum

No Records found, try again





TIERRA CORROSION CONTROL, INC. <u>DRILLING LOG</u>

COMPANY: Conoco Phillips LOCATION: Murphy D #100

STATE: NM BIT SIZE: 6 3/4"

LBS COKE BACKFILL: 2,100# ANODE TYPE: 2" X 60" Duriron DATE: September 18, 2008 LEGALS: Sec27 T30N R8W

DRILLER: Eugene Silago

CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300' ANODE AMOUNT: 10 COUNTY: San Juan

DEPTH: 300'

COKE TYPE: Asbury PERF PIPE: 180' – 300' BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
20	Sandstone		310		
25		<u> </u>	315		
30			320		
35			325		
40			330		
45	<u> </u>		335		
50	Sandstone/Shale		340		
55			345		
60		2.0	350		
65		1.9	355		
70		2.3	360		
75		2.4	365		
80		1.6	370		
85		4.5	375		
90		2.6	380		
95		2.3	385		
100		2.8	390		
105		1.4	395		
110		1.7	400		
115		1.5	405		
120		1.8	410		
125		1.5	415		
130		1.3	420		
135		1.3	425		
140		1.5	430		T
145		1.8	435		
150		2.1	440		
155		2.3	445		
160		1.8	450		
165	+	1.9	455		
170	Shale	2.0	460		
175		2.8	465		1
180		2.7	470		1
185		3.8	475		
190		3.7	480		
195		3.8	485		
200		3.8	490	······································	1
205		3.9	495		1
210		4.2	500		<u> </u>
215		4.1			†
220		4.1			1
225		4.1			
230		4.2			1
235		4.2			1
240		4.2			
245		4.3	<u> </u>		
250		4.6	 -		†
255	 	4.3			†
260		4.3			t
265		4.7	 		t
270		1.4			
275		4.9			
280		4.1			
		4.6	-		ļ
285					
290		49			
295	-	4.7			
300	▼	TD			ļ
305		<u> </u>	<u>l_</u>		l

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ANODE #	DEPTH	NO COKE	COKE
1	290	4.9	6.3
3	280	4.6	8.5
	270	4.4	9.3
4	260	4.3	8.7
5	250	4.6	9.0
6	240	4.2	8.6
7	230	4.2	8.7
8	220	4.1	8.0
9	210	4.2	8.0
10	200	3.8	7.2
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

WATER DEPTH: None ISOLATION PLUGS: None LOGING VOLTS: 12.4

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 25.4

TOTAL GB RESISTANCE: .48

REMARKS:

OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT PATA SHEET: NORTHWESTERN NEW MEXICO

LOCATION INFORMATION	API Number 30-0	045-34175
WELL NAME OR PIPELINE SERVED: Muphy Dioo LEGAL LOCATION	27, 30, 11 INS	TALLATION DATE 4/15/03
PPCO_RECTIFIER NO.: ADDITIONAL WELLS:		
TYPE OF LEASE: LEASE NUMBER: NM ~ O	2759	
GROUND BED INFORMATION		
TOTAL DEPTH: 300′ CASING DIAMETER: 80′ TYPE OF CASING: 20	C CASING DEPTH 20	CASING CEMENTED:
TOP AMODE DEPTH 2001 BOTTOM ANODE DEPTH 2001		
ANODE DEPTHS: 240, 250, 270, 260, 250, 240, 230, 2	20, 210, 200;	
AMOUNT OF COKE: 2/00/165		
WATER INFORMATION		
WATER DEPTH (1): -U- WATER DEPTH (2): -U-		
CAS DEPTH: -U- CEMENT PLUGS: -U-		
ATIN'N INCANTAL TIAN		
OTHER INFORMATION		
TOP OF VENT PERFORATIONS: 150 VENT PIPE DEPTH: 300 -		
REMARKS:		

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Form 3160-4

(October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other in-

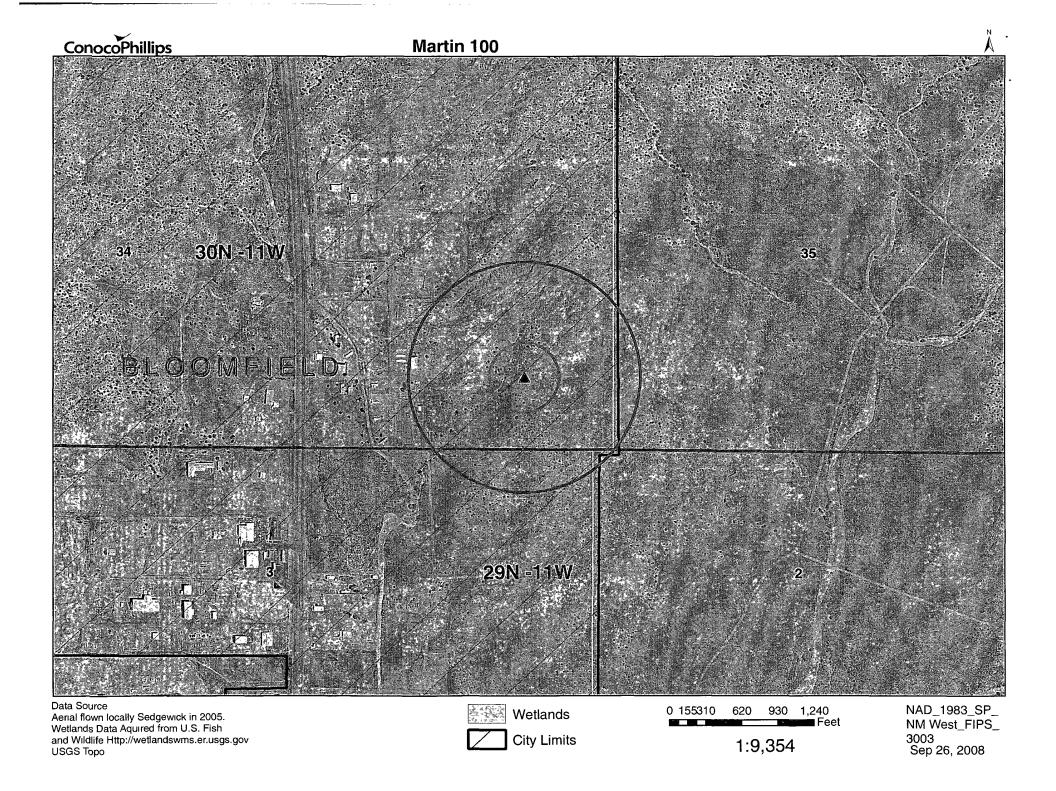
FOR APPROVED OMB NO. 1004-0137

			Expires	Decembe	r 31,	1991	
1	5	LEASE	DESIGNA	TION AND	SER	AL N	O.

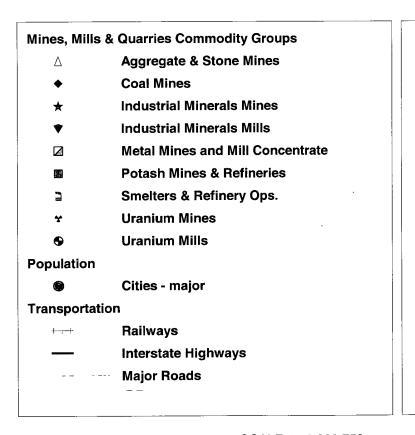
]	NMNM-02	758	
WELL CON	IPLETION OF	RECOM	LETIO	N REP	ORT AND	LOG*	6 IF	INDIAN, ALLOT	FEE OR TRIBE NAME	
ta TYPE OF WEL	L ON	GAS WELL	ORY	Other			1			
b TYPE OF COM	IPLETION:		_				7 U	NIT AGREEMENT	NAME	
NEV WEI		EP- PLUG BACK	DIFF RESVI	Other			8 F	ARM OF LEASE I	NAME, WELL NO	
2 NAME OF OPERATOR BURLINGTON RESOURCES OIL & GAS COMPANY 3 ADDRESS AND TELEPHONE NO. PO BOX 4289, Farmington, NM 87499 (505) 326-9700 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface Unit I (NESE), 1690' FSL & 1090' FEL, At top prod. Interval reported below Same as above At total depth Same as above Bureau of London Field Office								Murphy D	100	
2 NAME OF OPI	HATOR	2011 2010	A		- 9.5		9 A	PI WELL NO	475 4	
3 ADDRESS AN	TELEPHONE NO	S OIL & GAS C	OMPANY				10	30-045-34 FIELD AND POOL	175 - <u>ク</u> ロくス . OR WILDCAT	
PO BO	X 4289, Farmington	, NM 87499(505) 326	-9700		1 3000 out	. _	Basin FC/	Aztec FS	
4 LOCATION OF	WELL (Report location	clearly and in acc	ordance with	any State	(équiréments) • 4	239em	11 5		R BLOCK AND SURVEY	
At surface	Unit I (NESE), 16	90' FSL & 1090	' FEL,		FFD	od Marid Office	ì	OR AREA	30N, R11W, NMPM	
At top prod. int	erval reported below	Same as	above		. 6	Lain File.		RCVD FEB 15 '08		
	C				antegn.	Land Management	1	VOADLED TO AD		
At total depth	Same as abov	ve .			p. 68.			UI	L CONS. DIV.	
			14. PERM	IIT NO.	DATE ISSUI	ED	12 (COUNTY OR	Dist.3	
			1					PARISH	New Mexico	
15 DATE SPUDDED			COMPL (Re	ady to prod.)	18 ELEVATIONS (DF, F			19 ELEV CASINGHEAD	
4/3/07 20 TOTAL DEPTH, M	7/18/07	G, BACK T.D. MD &	/30/08	MULTIPLE C	OMPL	GL - 5983';		5994' RY TOOLS	CABLE TOOLS	
EU TOTAL DEL TITLE	27 7 65	a, Drok , D, MD a		HOW		DRILLED BY	1	11 100,53	CABLE TOOLS	
2580'	TERVAL (S) OF THIS COM	2531'	TOM NAME (1	2		<u> </u>	yes	25 WAS DIREC	TONA	
		PLETION-TOP, BOT	OM, NAME (A	AU AND IVD	,			SURVEY M		
	082' - 2334' AND OTHER LOGS RUN						127 WA	S WELL CORED	No	
GSL	AND OTHER LOGS HON						["	13 WELL CORED	No	
28			CASING	RECORD	(Report all string	s set in well)				
CASING SIZE/GRA		DEPTH SET		OLE SIZE		MENT, CEMENTING RECO	ORD		MOUNT PULLED	
7", J-55 4-1/2", J-55	20# 10.5#	155' 2565'	8-3/4 6-1/4		Surface, 34 s		2 bbis 42 bbis			
SIZE TOP	(MD) BOTTOM (MD)	RECORD SACKS CEME	NT CO	REEN (MD)	30 SIZE	DEPTH SET (BING RECOR	D ACKER SET (MD)	
SIZE TOP	(MD) BOTTOM (MD)	SACKS CEIME	307	IEEA (MD)	2-3/8"	2346'	(WLD)		ACKER SET (IND)	
	ECORD (Interval, size and i 1° holes @ 1 & 3 sp		32 2318	' - 233 4 '	ACII		CEMENT SQUEEZE, ETC. 764 gal 25# X-link pre-pad w/9744			
082' - 2086', 208	•	•				gal 75 Quality N2				
	·10', 2224' - 2236' 8' - 2320', 2330' - 23	241	2066	' - 2236'	20/40 AZ sand					
Total 218 hol	•	34	2000	- 2230	2236' 500 gal 15% HCL; 2016 gal 25# X-link pad w/9744 gal 750 N2 25# linear foamd pad & 120,000# 20/40 AZ sand					
			NOT	E: the FC	and FS interv	als were stimulate	d toge	ther.		
33 ATE FIRST PRODUCT	ION PROD	UCTION METHOD (Flowing, gas lif		ize and type of pum	ρ)		WELL STATUS (Producing or shut-in)	
SI		10000	Flow					SI		
ATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR		BL I	GASMCF	WAIL	R88L	GAS-OIL RATIO	
1/29/08	1	2	<u> </u>	<u>► </u>		5.5 mcf		2 bwph		
LOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OILBBL		GASMCF	WATERBB	L		OIL GRAVITY-API (CORR)	
NA	SI 281#		0		132 mctd	48 bwpd				
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	nted, etc)						TEST WITNESSE	D BY	
35 LIST OF ATTACHN	To be sold									
	ell being DHC per o	rder #3872. O	nce well de	ewaters, \	will be able to	provide a better br	eakdo	wn of produ	ction.	
	the foregoing and attached									
LA	· / //								04460	
IGNED 1/1-L	21_ (1.11	m rm	LE Regu	latory Sp	ecialist		DATE .		2/11/08	
	√ * (!	See Instruction	ns and S	paces fo	r Additional	Data on Reverse	Side) [ACCEPTED FOR RECOR	
tle 18 U S.C. Sec	tion 1001, makes it	a crime for any	erson kno	wingly and	d willfully to ma	ke to any departmer	nt of a	gency of the		

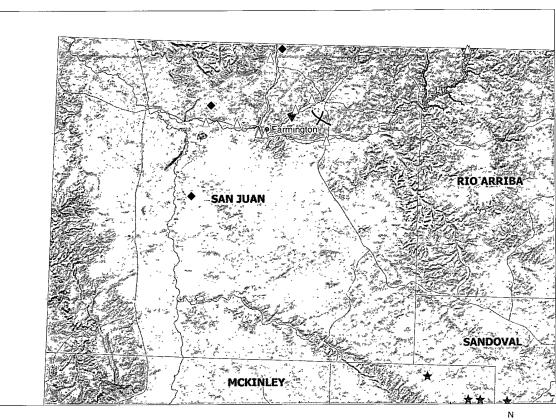
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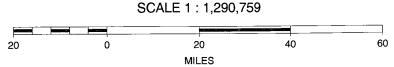
United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



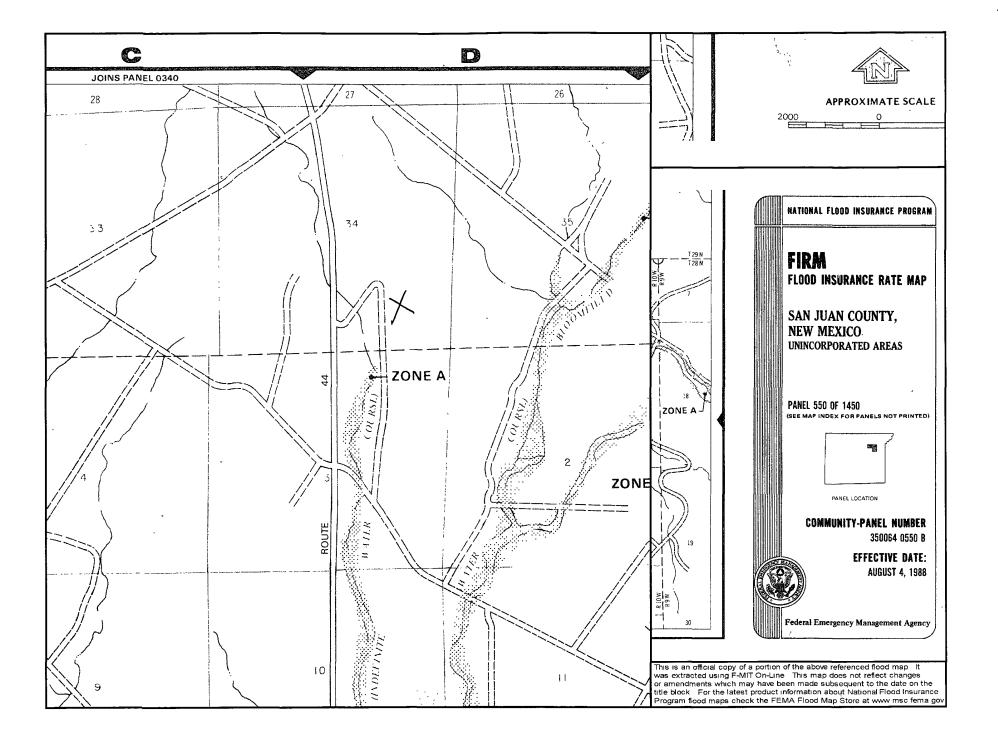
Martin 100 Mines, Mills and Quarries Web Map











Hydrogeological Report for Martin 100

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 commformably 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, east-central 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.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Martin 100 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 Cathodic well data from the Murphy D 100 has an elevation of 5983' and groundwater depth of greater than 300'. The subject well has an elevation of 5764' which is 219' less than the Murphy D 100, therefore the groundwater depth is greater than 80'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

DHITCHET | 1888 K. Kremah Dr., Hadds, U.M. 88240 DESTRUCT III 1990 Ris Brance Rd., Juley, R.M. 87410

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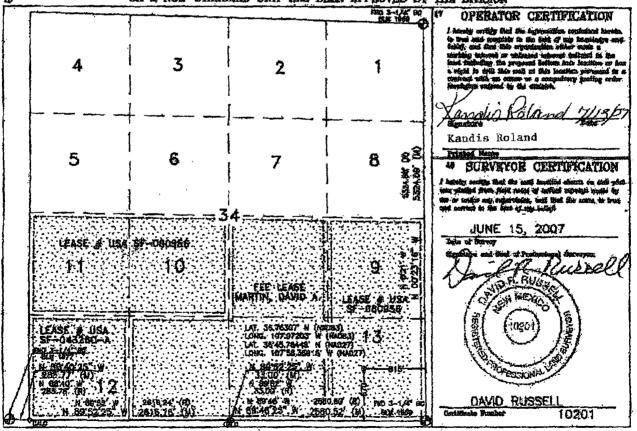
Form C-102 Revised October 12, 2006

WELL LOCATION AND ACREAGE DEDICATION PLAT

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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE HEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



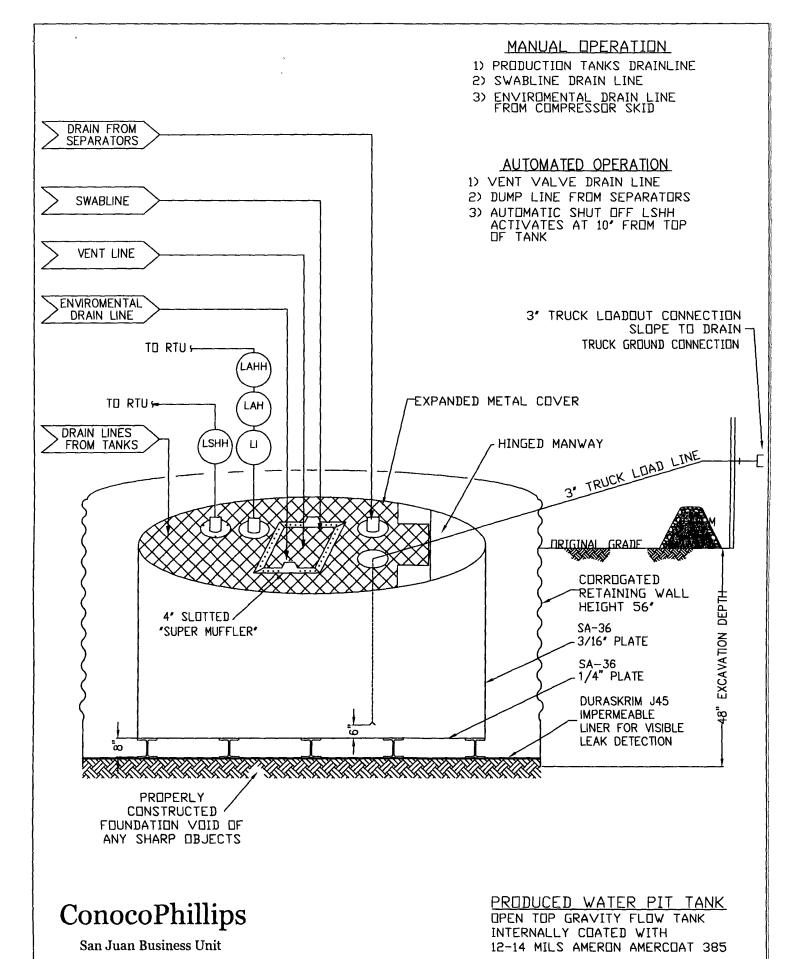
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the BR document.



DUMSAIN®

ISO, ISO CALL

PROPERTIES:	TESTAMETHOD	 	OBBU MEN	1136	BB	J45	3340	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance	pearance		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	**Extrusion laminated with encapsulated tri-directional s				scrim reinforcement	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1, Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (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	
Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F	
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F	

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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



08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

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

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

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

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

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

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

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

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

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain
 the integrity of the liner, liner system and secondary containment system to
 prevent contamination of fresh water and protect public health and environment.
 BR will accomplish this by performing an inspection on a monthly basis, installing
 cathodic protection, and automatic overflow shutoff devices as seen on the
 design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a 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:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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