District I 1625 N French Di , Hobbs, NM 88240

1301 W Grand Ave, Artesia, NM 88210

District IV

State of New Mexico Energy Minerals and Natural Resources

Department Oil Conservation Division

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

Form C-144

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1220 South St. Francis Dr. District III 1000 Rio Brazos Rd, Aztec, NM 87410 For permanent pits and exceptions submit to the Santa Fe Santa Fe, NM 87505 Environmental Bureau office and provide a copy to the appropriate NMOCD District Office 1220 S St Francis Dr , Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 Address: PO Box 4289, Farmington, NM 87499 Facility or well name: SAN JUAN 27-4 UNIT 153B 30-039-30268 API Number: OCD Permit Number. E(SW/NW) Section: Township: 27N U/L or Otr/Qtr: 2 Range: County: Rio Arriba Center of Proposed Design: Latitude: 36.60295833 °N 107.2244388 °W NAD: 1927 X 1983 Longitude: Private Tribal Trust or Indian Allotment Surface Owner: X Federal State Pit: Subsection F or G of 19.15.17 11 NMAC Drilling Workover Temporary. Permanent Emergency Cavitation P&A Thickness mil LLDPE HDPE PVC Other Lined Unlined Liner type: String-Reinforced Welded Liner Seams. Factory Other Volume: Closed-loop System: Subsection H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or Type of Operation: notice of intent)

	10
4 X Below-grade tank: Subsection I of 19.15.17.11 NMAC	A OIL CON SOUR
Volume 120 bbl Type of fluid: Produced Water	15 MS: 01/1
Tank Construction material: Metal	CE OIL CONS. DIV. DIST. 3
Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	68499457
V ₁ sible sidewalls and liner Visible sidewalls only Other	1034567
Liner Type: Thickness 45 mil HDPE PVC X Other LLDPE	

mıl

Other

LLDPE HDPE

Above Ground Steel Tanks Haul-off Bins

Other

Thickness

Liner type:

Factory

Alternative Method:

Drying Pad

Unlined

Welded

Lined [

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration 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' hogwire fence with a single strand of barbed wire on top. Netting: Subsection E of 19 15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)						
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19 15.3 103 NMAC						
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 cons (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap _l	proval.				
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	XNo				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo				
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	ļ				
- 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. (Applied to permanent puts)	Yes XNA	∐No				
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_ 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	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 - Written confirmation or verification from the municipality; Written approval obtained 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. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	X No				
Within a 100-year floodplain - FEMA map	Yes	XNo				

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMAC								
Instructions. Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached								
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC								
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17.9								
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC								
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC								
X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17 12 NMAC								
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
Previously Approved Design (attach copy of design) API or Permit								
12								
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9								
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								
13								
Permanent Pits Permit Application Checklist: Subsection B of 19 15.17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the 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								
Monttoring and Inspection Plan								
Erosion Control Plan .								
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
14 Proposed Closure: 19.15.17.13 NMAC								
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.								
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative								
Proposed Closure Method: X Waste Excavation and Removal								
Waste Removal (Closed-loop systems only)								
On-site Closure Method (only for temporary pits and closed-loop systems)								
In-place Burial On-site Trench								
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)								
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.								
Please indicate, by a check mark in the box, that the documents are attached.								
X Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC								
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC								
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttungs)								
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								

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fl									
are required.	mar and arm chinings—Ose anachment y more than two ja	cuttes \							
Disposal Facility Name:	Disposal Facılıty Permit #:	<u> </u>							
Disposal Facility Name:	Disposal Facility Permit #:								
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No								
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsecti Site Reclamation Plan - based upon the appropriate requirements of Subsection	on I of 19.15.17.13 NMAC	,							
17 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. Recertain siting criteria may require administrative approval from the appropriate district office or for consideration of approval Instifications and/or demonstrations of equivalency are required.	may be considered an exception which must be submitted to the S								
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 obtain	ned 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 obtain	ed from nearby wells	□N/A							
Ground water is more than 100 feet below the bottom of the buried waste.	•	Yes No							
- NM Office of the State Engineer - 1WATERS database search, USGS; Data obtain	ed from nearby wells	□N/A							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant (measured from the ordinary high-water mark).	nt watercourse or lakebed, sınkhole, or playa lake	Yes No							
- Topographic map; Visual inspection (certification) of the proposed site									
Within 300 feet from a permanent residence, school, hospital, institution, or church in ex - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	istence at the time of initial application.	Yes No							
		Yes No							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existen - NM Office of the State Engineer - iWATERS database; Visual inspection (certificate)	ice at the time of the initial application.								
Within incorporated municipal boundaries or within a defined municipal fresh-water well pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtain		Yes No							
Within 500 feet of a wetland	ico from the intuncipanty	∏Yes ∏No							
- US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspec	ction (certification) of the proposed site								
Within the area overlying a subsurface mine.		Yes No							
- Written confiramtion or verification or map from the NM EMNRD-Mining and Min	neral Division								
Within an unstable area.	LIGGS NW G. 1 10	∐Yes ∐No							
 Engineering measures incorporated into the design; NM Bureau of Geology & Mine Topographic map 	eral 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: Each of by a check mark in the box, that the documents are attached.	f the following items must bee attached to the closure	e plan. Please indicate,							
Siting Criteria Compliance Demonstrations - based upon the appropriate r	-								
Proof of Surface Owner Notice - based upon the appropriate requirements	s of Subsection F of 19.15.17.13 NMAC								
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15 17.11 NMAC								
Construction/Design Plan of Temporary Pit (for in place burial of a drying		0.15.17.11 NMAC							
Protocols and Procedures - based upon the appropriate requirements of 19									
Confirmation Sampling Plan (if applicable) - based upon the appropriate r									
Waste Material Sampling Plan - based upon the appropriate requirements									
Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection	-	not be achieved)							
Re-vegetation Plan - based upon the appropriate requirements of Subsection									
Site Reclamation Plan - based upon the appropriate requirements of Subsection		*							

Form C-144 Oil Conservation Division

Operator Application				
I hereby certify that the in Name (Print):	formation submitted with this application is tru Crystal Tafoya	ie, accurate and complete to the Title.	best of my knowledge and belief. Regulatory Technician	
	Crystal Tarbya	Date	In land on the land	
Signature. e-mail address	crystal.tafoya@conocophillipo.com	Telephone:	505-326-9837	
e-man address	Crystal.taloya e conoccipy impy com	Telephone.	303-320-7831	
20 OCD Approval: OCD Representative S	Permit Application (including closure plan)		OCD Conditions (see attachmen	·
OCD Representative S	Signature:	rll	Approval Date:	1/2/09
Title:	Enviro Spec	OCD Pern	nit Number:	
Instructions Operators at report is required to be su	red within 60 days of closure completion re required to obtain an approved closure plan bmitted to the division within 60 days of the co s been obtained and the closure activities have	prior to implementing any closi mpletion of the closure activitie been completed.	re activities and submitting the closure re	
Closure Method: Waste Excavation If different from a	and Removal On-site Closure Met	hod Alternative Closure	Method Waste Removal (Closed-	loop systems only)
	ng Waste Removal Closure For Closed-loop S tify the facility or facilities for where the liquid		· · · · · · · · · · · · · · · · · · ·	_
Disposal Facility Name	e:	Disposal Facility	Permit Number:	
Disposal Facility Name	е.	Disposal Facility	Permit Number:	
Were the closed-loop s	system operations and associated activities perfe	formed on or in areas that will no	t be used for future service and opeartion	ns?
Yes (If yes, please	demonstrate complilane to the items below)	No		
	areas which will not be used for future service (Photo Documentation)	and operations.		
🚔	nd Cover Installation			
	plication Rates and Seeding Technique			
24				
Closure Report Att the box, that the document Proof of Closure	achment Checklist: Instructions: Each of to ments are attached. Notice (surface owner and division) otice (required for on-site closure)	he following items must be atta	ched to the closure report. Pléase indice	ate, by a check mark in
1 =	-site closures and temporary pits)			
	mpling Analytical Results (1f applicable)			
=	Sampling Analytical Results (if applicable)			
Disposal Facility	Name and Permit Number			i
Soil Backfilling	and Cover Installation			\
	pplication Rates and Seeding Technique			
	(Photo Documentation)			
On-site Closure	Location: Latitude:	Longitude:	NAD	1983
	tification: formation and attachments submitted with this all applicable closure requirements and condit	-		e and belief I also certify that
Name (Print):		Tıtle:		
Signature:		Date:		
e-mail address:		Telephone:		

Oil Conservation Division



New Mexico Office of the State Engineer Water Column/Average Depth to Water

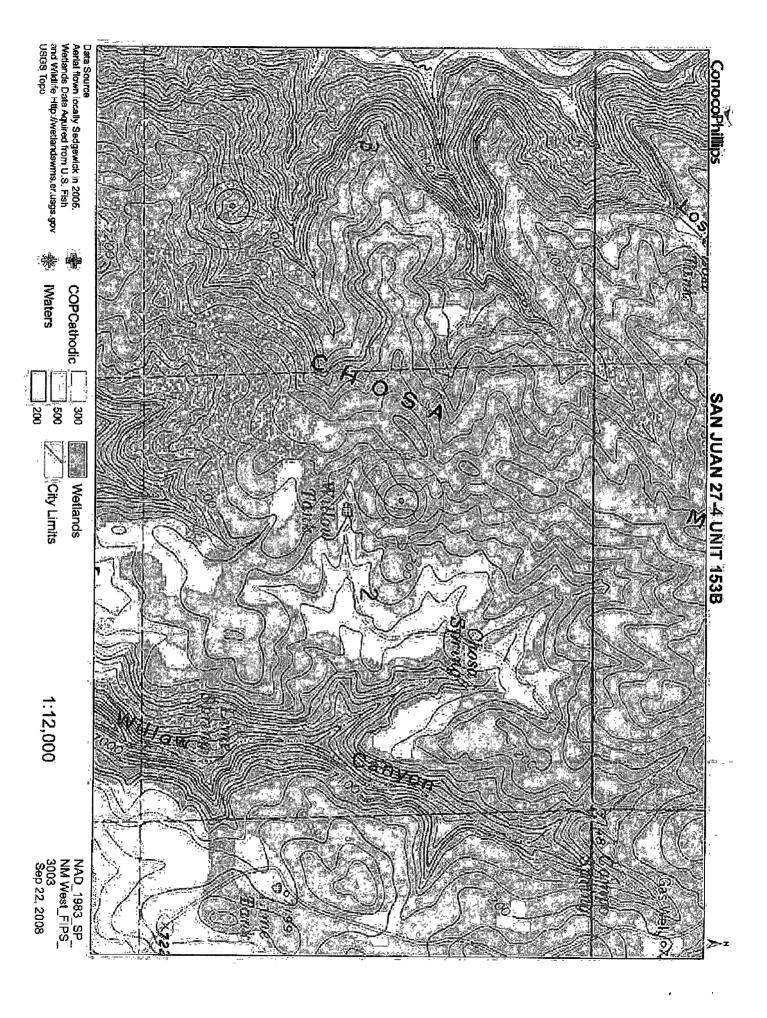
(quarters are 1=NW 2=NE 3=SW 4=SE)

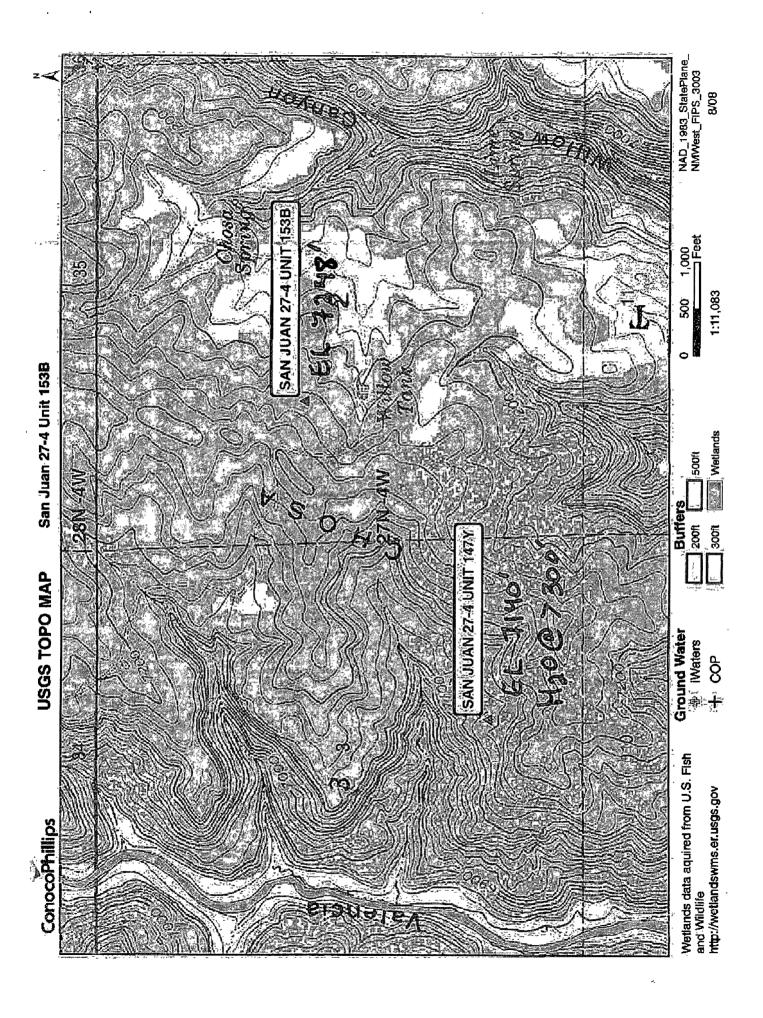
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SJ 01205	OIL	RA	4	4	4	34	27N	04W	300255	4044335*	3054	750	2304
									Aver	age Depth to	Water:	750 f	eet
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Record Count: 3

PLSS Search:

Township: 27N Range: 04W





TIERRA CORROSION CONTROL, INC. DRILLING LOG

COMPANY: Conoco Phillips

LOCATION: San Juan 27-4 #147Y

STATE: NM BIT SIZE: 77/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 3" X 60" Duriron DATE: August 25, 2008 LEGALS: Sec3 T27N R4W

DRILLER: Gilbert Peck

CÁSING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300'

ANODE AMOUNT: 10

COUNTY: Rio Arriba

DEPTH: 300'

COKE TYPE: Asbury

PERF PIPE: 140'

BOULDER DRILLING: None

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WATER DEPTH: None ISOLATION PLUGS: LOGING VOLTS: 12.47

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 17.8

TOTAL GB RESISTANCE: .70

REMARKS:

Form 3160-4 (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIO

FOR APPROVED OMB NO 1004-0137

Expires	Docember	31,	1991
ASE DESIGNATIO	IN AND SE	AKS	NO

JUL 2 2 2008 BUREAU OF LAND MANAGEMENT USA SF - 080668 WELL COMPLETION OR RECOMPLETION REPORT AND LOCALIST G" IF INDIAN, ALLOTTEE OR TRIBE NAME to TYPE OF WELL NMMM - 35408A-MU TYPE OF COMPLETION: San Juan 27-4 Unit MEW WORK DEEP-A FARM OR LEASE NAME, WELL NO. San Juan 27-4 Unit 147Y 2 NAME OF OPERATOR A API WELL NO BURLINGTON RESOURCES DIL & GAS COMPANY WAS A -- 30-039-30343-0051 3 ADDRESS AND TELEPHONE NO 10. FIELD AND POOL, OR WEDGAT PO BOX 4289, Farmington, NM 87499 (505) 326-9700 Blanco Mesaverde 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements 1) 11 SEC. T., R., M., OR BLOCK AND SURVEY Unit O (SWSE) 910' FSL & 1810' FEL OR ARPA At surface Sec.3, T2TN, RO4VY, NMPM At top prod, Interval reported below Same As Above RCVD JUL 28 '08 OIL CONS. DIV. At total depth Same As Above กเรา. ล 14. PERMIT NO. DATE ISSUED 12 COUNTY OF PARISH Rio Arriba New Mexico 15. DATE SPUDDED 18. DATE T.D REACHED 18. ELEVATIONS (DF. RKB. RT. BR. ETC.) 19 ELEV CASINGHEAD 5/21/08 5/1/08 7/17/08 GL 7140 KΒ 7156 23. INTERVALS 20. TOTAL DEPTH, MD B/TVD 22 IF MULTIPLE COMPL. **ROTARY TOOLS** CABLE TOOLS HOW MANY DRILLED BY 6623 6619 24 PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TYDY 25. WAS DURECTIONAL SURVEY MADE 5624' - 6476; Bianco Mesaverde No 26. TYPE ELECTRIC AND OTHER LOGS RUN 27 WAS WELL CORED GR, CBL, CCL No CASING RECORD (Report all strings set in well) 28 CASING SIZE/GRADE WEIGHT, UB /FT DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 9 5/8" H-40 32.3# 1/4 bbls 770 12 1/4 surface; 76 sx (122 cf) 20/234 8 3/4 7 J-55 4248 surface'; 461sx (952 cf) 10 bbls TOC 3380 24Yex (358 cf) 4 1/2" J-58 10.6# 6621 E IZW LINER RECORD TUBING RECORD 917F TOP (MD) BOTTOM (MO) 8ACKS CEMENT SCREEN (MD) DEPTH SET (MO) PACKER SET (MD) -3/8", 4.7#, J-55 6268 PERFORATION RECORD (Intervel, sure and numb ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC .34" @ 1 8PF 6155' - 6476' A/10 bbis 15% HCL. Frac w/111,090 gats 60Q N2 PLO/LMF 6155' - 6476' = 30 holes stick/foam, w/99,472# 20/40 Brady Sand. N2 = 1267.2 SCF UMF/CH 5624' - 6078' = 30 holes 5624' - 8078' A/10 bbls 15% HCL. Frac w/116,187 gals 60Q N2 Total holes = 60 slick/foam, w/98,1392 20/40 Brady Sand. N2 = 1267.4 SCF PRODUCTION DATE FIRST PRODUCTION PRODUCTION RETURNS THE MELL SINIUS COLUMNIO OF BRIDGE Flowing SI W/O Facilities ŞĮ DATE OF TEST GAS-MCF RODN FOR WATER BEL GAS CIL RATIO TEST PERIOD 7/17/08 1/27 99 mcf trace FLOW, TURING PRESS CASING PREESURE CALCULATED GAS LAS WATER PR OL GRAVITY API (CORR.) M-HOUR RATE SI-888# \$1-886# 2379 mcf/d 2 bwpd 34 DISPOSITION OF GASO To be sold. W/O facilities to be set before first production. 35. LIST OF ATTACHMENTS This is a standarone MY well. 38 I hereby callify that the favorious and attached enformation is correction and correct as determined from all available record SIGNED TITLE Regulatory Technician DATE 7/22/08

*(See Instructions and Spaces for Additional Data on Reverse Bide)

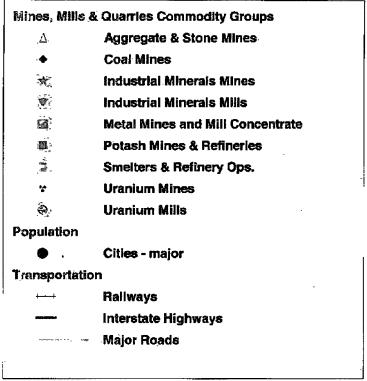
Tiue 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictifious or fraudulent statements or representations as to any false, fictifious or fraudulent statements or representations as to any false within its jurisdiction.

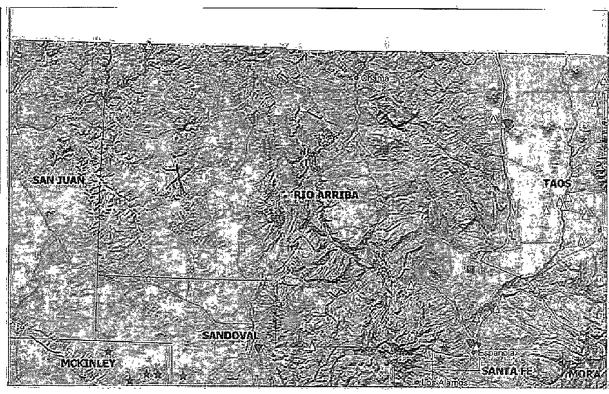
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San Juan 27-4 Unit 153B Mines, Mills and Quarries Web Map









Hydrogeological report for San Juan 27-4 Unit 153B

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 27-4 Unit 153B 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 FEMA Map for the subject well is unavailable due to its location being in the forest. FEMA does not provide floodplain information for Forest Service land. This well is not located near a wash or watercourse and is not in 100 year floodplain as visible on the topographic map. The Cathodic well data from the San Juan 27-4 Unit 147Y has an elevation of 7140' and groundwater depth of 300'. The subject well has an elevation of 7248' which is 108' greater than the San Juan 27-4 Unit 147Y, therefore the groundwater depth is greater than 300'. 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 San Jose formation will create a stable area for this new location.

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

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

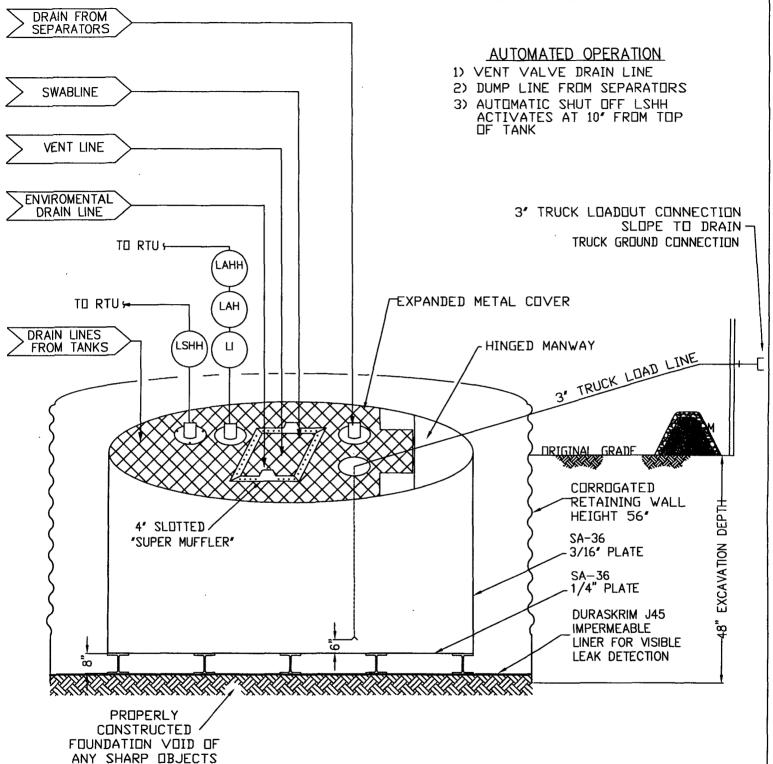
General Plan:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 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.

MANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J30BB		J36	вв	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance -	`	Black	√Black	Black/	Black/Black		Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs. Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Extr	usion laminated	with encapsulat	ed tri-direction	al scrim reinforc	ement	
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1. Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Sorim 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	
Trapezold Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-70° F						

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

SALES OFFICE

RAVEN®

Sioux Falls, South Dakota

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 Rayen 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 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.
- 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 of 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.
- 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