District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505

Form C-144

State of New Mexico Energy Minerals and Natural Resources

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

Form C-144 July 21, 2008

Page 1 of 5

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

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

Pit, Closed-Loop System, Below-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. Nor 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: MAR VISTA SWD 1
API Number: 30-045- 35120 OCD Permit Number:
U/L or Qtr/Qtr: N(SE/SW) Section: 2 Township: 29N Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.748362 °N Longitude: 107.961369 °W NAD: 1927 X 1983
Surface Owner: Federal X State Private Tribal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&A X Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other X String-Reinforced Liner Seams: X Welded X Factory Other Volume: 7700 bbl Dimensions L 120' x W 55' x D 12'
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Oil Conservation Division

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) 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 consideration (Fencing/BGT Liner)	leration of app	roval.						
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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA							
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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo						
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	1							
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 appropriate.	Yes	XNo						
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. 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	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 X 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 19.15.17.10 NMAC								
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC								
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of								
19.15.17.9 NMAC and 19.15.17.13 NMAC								
Previously Approved Design (attach copy of design) API or Permit								
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: X 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)								
X On-site Closure Method (only for temporary pits and closed-loop systems)								
X 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								
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								
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								

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Groun	nd Steel Tanks or Haul-off Bins Only:(19 15.17.13.D NMAC)								
Instructions: Please identify the facility or facilities for the disposal of liquids, d facilities are required		,							
Disposal Facility Name:	Disposal Facility Permit #:								
Disposal Facility Name: Disposal Facility Permit #:									
Will any of the proposed closed-loop system operations and associated Yes (If yes, please provide the information No		e service and							
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC Site Reclamation Plan - based upon the 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 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 Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 10 NMAC for guidance.									
Ground water is less than 50 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS: Database search; USGS: Database search; USGS: Database search; USGS: Database search	ata obtained from nearby wells	Yes XNo							
Ground water is between 50 and 100 feet below the bottom of the burie	d waste	Yes X No							
- NM Office of the State Engineer - iWATERS database search; USGS; Da		N/A							
Ground water is more than 100 feet below the bottom of the buried was	ste	X Yes No							
- NM Office of the State Engineer - IWATERS database search; USGS, Da									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark).	significant watercourse or lakebed, sinkhole, or playa lake	Yes XNo							
- Topographic map; Visual inspection (certification) of the proposed site									
Within 300 feet from a permanent residence, school, hospital, institution, or chu - Visual inspection (certification) of the proposed site; Aerial photo, satellite	••	Yes XNo							
		Yes X No							
· · · · · · · · · · · · · · · · · · ·	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application.								
Within incorporated municipal boundaries or within a defined municipal fresh wa pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approximately approximat	ater well field covered under a municipal ordinance adopted	Yes XNo							
Within 500 feet of a wetland	var obtained from the municipality	Yes X No							
- US Fish and Wildlife Wetland Identification map; Topographic map; Visu	nal inspection (certification) of the proposed site								
Within the area overlying a subsurface mine.		Yes X No							
 Written confirantion or verification or map from the NM EMNRD-Mining Within an unstable area. 	; and Mineral Division	Yes X No							
Engineering measures incorporated into the design, NM Bureau of Geolog Topographic map	y & Mineral Resources; USGS; NM Geological Society;	Tes Alino							
Within a 100-year floodplain FEMA map		Yes XNo							
18 On Site Classus Plan Charlists (10.15.17.12.NMAC) Instructions	E-h-fd-f-H-d-l	n e							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.									
X Siting Criteria Compliance Demonstrations - based upon the app	-								
X 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 X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC									
Confirmation Sampling Plan (if applicable) - based upon the app		MAC							
X Waste Material Sampling Plan - based upon the appropriate requ	•								
X Disposal Facility Name and Permit Number (for liquids, drilling		ds cannot be achieved)							
Soil Cover Design - based upon the appropriate requirements of	_								
X Re-vegetation Plan - based upon the appropriate requirements of									
X Site Reclamation Plan - based upon the appropriate requirements	s of Subsection G of 10 15 17 13 NMAC								

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
AND
Signature: Date:
e-mail address: mate e jaramillo@conocophtlips.com Telephone: 505-326-9865
·
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Approval: OCD Conditions (see attachment)
OCD Representative Signature: Securdan Well Approval Date: 5/10/10
OCD Representative Signature: Securdan Sell Approval Date: 5/10/10 Title: Emino Sepec OCD Permit Number:
21
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC
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 be submitted to the division within 60 days of the completion of the closure activities. 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:
Cleanus Matheda
Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.
23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems 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:
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 complilane to the items below)
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
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)
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:
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:
Signature Date:
e-mail address: Telephone:



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

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

Sub POD Number basin	Use	(quarte	Q	Q	Q	. 296VB	Ĭ		NAD83 UTN X	C	12226	(In feet) Pepth Wa VaterColu	Outer that is a second
SJ 01851	DOM	SJ		4	4	10	29N	11W	234586	4069572*	125	48	77
SJ 02466	POL	SJ	3	3	4	11	29N	11W	235694	4069436*	66		
SJ 02466 S	POL	SJ	3	3	4	11	29N	11W	235694	4069436*	65		
									Avera	age Depth to	Water:	48 feet	
										Minimum	Depth:	48 feet	
										Maximum	Depth:	48 feet	

Record Count: 3

PLSS Search:

Section(s): 1, 2, 3, 10, 11, Township: 29N Range: 11W



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

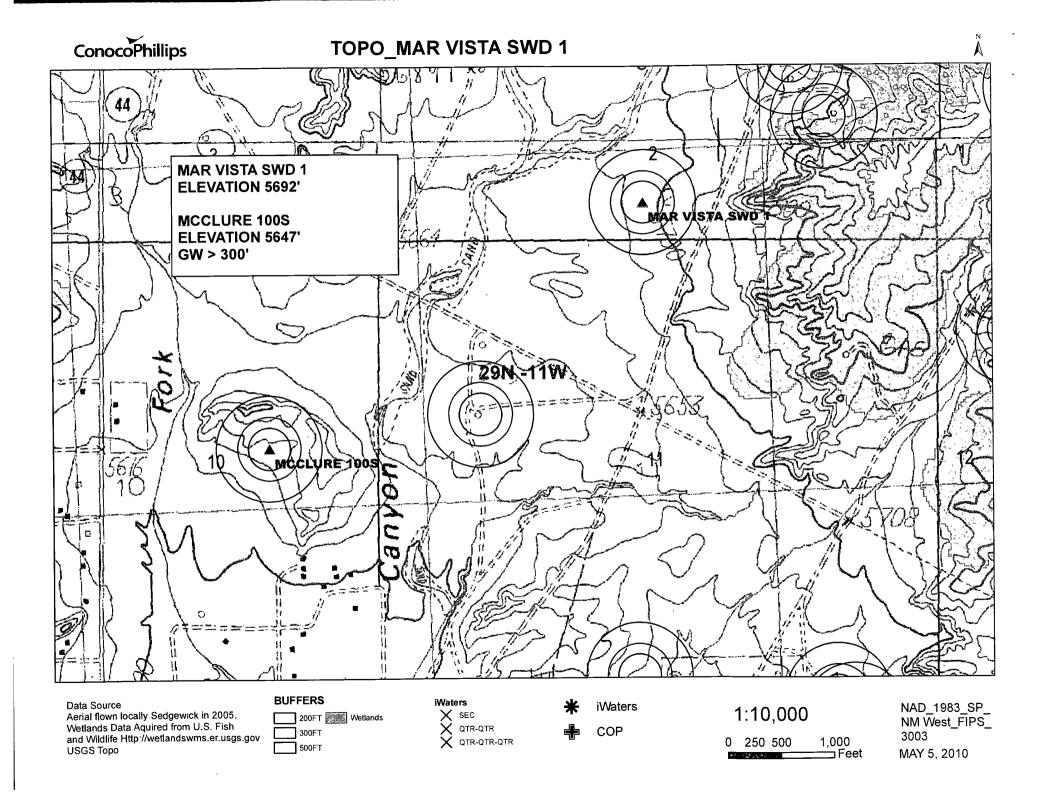
No records found.

PLSS Search:

Section(s): 34, 35, 36

Township: 30N

Range: 11W



the same of the sa TIERRA CORROSION CONTROL, INC. DRILLING LOG

DATE: December 6, 2009

COMPANY: ConocoPhillips

LOCATION: McClure 100S

LEGALS: S10 T29N R11W

COUNTY: San Juan

STATE: NM

DRILLER: Gilbert Peck

BIT SIZE: 6 3/4"

CASING SIZE/TYPE: 8" X 20' PVC

DEPTH: 300'

VENT PIPE: 300'

PERF PIPE: 140'

ANODE TYPE: 2" X 60" Duriron

ANODE AMOUNT: 10

LBS COKE BACKFILL: 2,600

COKE TYPE: Asbury

BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMP
20	Shale	18	310		
25		1.9	315		
30		2 9	320		
35		3 0	325		
40		20	330		
45		19	335		
50		18	340		
55		19	345		
60		1.0	350		
65		2.2	355		
70		2.6	360		
75		3.0	365		
80		3.3	370		ļ
85		37	375		
90		3.8	380		ļ
95		3.8	385		
100		3 9	390		-
105		4.1	395		
110		4.0	400		
115		4.2	405		ļ
120		3.9	410		1
125		3.6	415		<u> </u>
130		3.8	420		.
135		3.7	425		
140		3.9	430		<u> </u>
145		4.4	435		<u> </u>
150		4.5	440		
155		4 1	445		
160		3 7	450		ļ
165		2.5	455		ļ
170		2.2	460		
175		2.3	465		-
180		2.8	470		
185		2.6	475		
190		2.3	480		ļ
195		3.3	485		
200		3.5	490		
205		3.4	495		.
210		3.2	500		ļ
215		3 0	505		-
220		3.0	510		-
225		3.5	515 520		
230		3.3	525		
235		3.0	530		
240					+
245 250		2.8	535 540		+
		2.5	545		+
255		2.4			+
260		2.4	550 555		
265		4.0	560		+
270					+
275		3.9	565		+
280		5.0	570		+
285		4.9	575		+
290		4.9	580		-
295	_	4.8	585		
300			590		-
305		1	595		1

ANODE #	DEPTH	NO COKE	COKE
1	285	4.0	5.4
2	275	3.2	5.5
3	265	2.4	4.4
4	255	2.6	4.9
5	245	3.2	5.8
6	235	3.3	5.4
7	225	2.6	5.3 5.7
8	215	3.2	5.7
9	205	3.3	6.0
10	195	2.5	4.8
11			
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29			
30			

WATER DEPTH: None **ISOLATION PLUGS:** LOGING VOLTS: 11.8

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 23.4 TOTAL GB RESISTANCE: .5

REMARKS:

∂orm 3160-4 (October 1990)

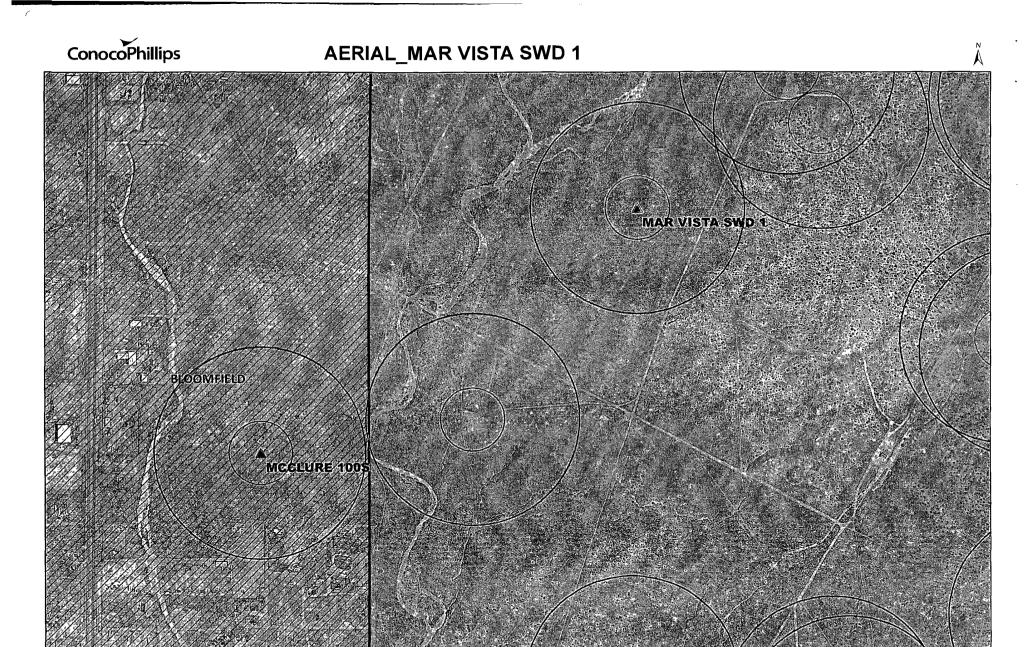
UNITED STATES **DEPARTMENT OF THE INTERIOR**

BUREAU OF LAND MANAGEMENT

FOR APPROVED OMB NO 1004-0137

Expires December 31, 1991
5 LEASE DESIGNATION AND SERIAL NO

CASING SIZEGRADE WEIGHT, LB /FT, DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 7" 204 J-55 134' 8 3/4" Surface; 34 sx (56 cf-10 bbls) 1 bbls 4 1/2" 10.58 J-55 2155' 6 1/4" TOC Surface 216 sx (444cf-79 bbls) 20 bbls 1 LINER RECORD 30 TUBING RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PERFORATION RECORD (Interval, size and number) 32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 2SPF 42'-1968' SQUEEZE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. SIRWater w/93,584# 20/40 Arizona Sand Total N2= 604,334 SCF PRODUCTION SI W/O First Delivery Flowing SQUEEZE PROON FOR OIL-88L GAS-MCF WATER-BBL GAS-OIL RATTO 126# 138# 138# 145 mct/d 24 bbl bwp/d DISPOSITION OF GAS (Sodi, used for fuel, venied, stc.) To be sold This will be a stand alone Basin Fruitland Coal well. SI hereby contry that the foregoing and attached information is complete and correct as determined from all available records								-mean (of Lar	id Mana	1	USA NM 84	4075
a TYPE OF COMPLETION STATE OF	WELL C	OMPI	LETION	OR R	ECOMP	ETION	REP	ORT AND	PE O	Field Office	i det if	INDIAN, ALLOTTI	EE OR TRIBE NAME
PARMA OF LEASE NAME, WILL NO NOTICE NOTICE NAME DOTTO NAME OF OPERATOR NAME	1a. TYPE OF	WELL:		OIL I	GAS X		T						
NAME OF OPERATOR BARRILLEO BARR	b TYPE OF	COMPLE	TION.					\ <u></u> \.		•	7 UI	NIT AGREEMENT	NAME
NAME OF OPERATOR BARRILLEO BARR					PLUG		Other				8 FA	ARM OR LEASE N	AME, WELL NO
BURLINGTON RESOURCES OIL & GAS COMPANY ADDRESS AND TELEPHONE NO PD BOX 4289, Farmington, NM 97499 (505) 326-9700 LOCATION OF WELL (Report facilities clearly and an accordance with any Salar requirements)* At top prod interval reported below Same as above At top prod interval reported below At top prod interval reported below Same as above At top prod interval reported below At top prod interval		MELL [-	J OVER [BACK L	RESVR	_10"""			•	1	McClure 10	00S
ADDRESS AND TELEPHONE NO PO BOX 3289, Farmington, NM 87499 (50.5) 326-9700 LOCATION OF WELL (Paper Nessen clevish and in accordance with any State requirements)* At surface Unit H (SENE) 1970* FINL, 1040* FEL. At top prod interval reported below Same as above Same as above 112 FERMIT NO. DATE (SSUED 113 SECT, FLA, LOR BLOCK AND SURVEY OF ARE COUNTY OF THE LORD AND THE LOR	2 NAME O	F OPERAT	OR								9 AF		
PO BOX 4289, Farmington, NM 87499 (505) 326-6700					OIL & GAS	COMPAN	Y				1		
All surface Unit H (SENE) 1970* FINL, 1040* FEL. All surface Unit H (SENE) 1970* FINL, 1040* FEL. Same as above All top pod interval reported below Same as above All top pod interval reported below Same as above 14. PERMIT NO. DATE ISSUED 15. DATE 10 REACHED 17. DATE SHUDDED 16. DATE 10 REACHED 17. DATE SHUDDED 17. DATE SHUDDED 18. DATE 10 REACHED 18. DATE 10 REACHED 17. DATE SHUDDED 18. DATE 10 REACHED					87490 (5	05) 326-07	700				1		
Sec. 10 T29N R11W, NMPM RCUD RPW 9'09 OIL CONS. DIV. DIST. 3 At total depth Same as above Same as above II. PERMIT NO. DATE ISSUED II. CONS. DIV. DIST. 3 DIST. 3 DIST. 3 DIST. 3 DIST. 3 DIST. 3 DATE SPUDDED II. DATE 10 REACHED III. DATE 10 REACHED II	4 LOCATIO	N OF WE	LL (Report l	ocation clea	rly and in accor			equirements)*					
At load depth Same as above Sa	At surface	e U	Jnit H (SEI	NE) 1970'	FNL, 1040' FI	EL					'		
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O9/26/2008 01/21/2009 03/19/2009 CL 5647 KB 5658* TOTAL DEPTH, MO AIVD 21 FULIO, BACKTD, MO AIVD 22 F MALTINE COMP. 23 MIRERUS. DOTARY TOOLS CABLE TOOLS CABLE TOOLS 2170" 21111 PRODUCTION INTERVAL (S) OF THIS COMPLETION TOP, BOTTOM, MAME (MD AND TVD)* PRODUCTION INTERVAL (S) OF THIS COMPLETION TOP, BOTTOM, MAME (MD AND TVD)* PRODUCTION INTERVAL (S) OF THIS COMPLETION TOP, BOTTOM, MAME (MD AND TVD)* PRODUCTION INTERVAL (S) OF THIS COMPLETION TOP, BOTTOM, MAME (MD AND TVD)* PRODUCTION INTERVAL (S) OF THIS COMPLETION TOP, BOTTOM, MAME (MD AND TVD)* PRODUCTION MAME (MD AND TVD)* PROPERTY MADE TYPE ELECTRICA NO OTHER LOGS HUN GRICOLOGY CASING RECORD (Report all strings set in well) TO ALOUR TOP (Report all strings set in well) TO ASSING SEEGRADE WEIGHT, IB-FF. DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED TO ALOUR TOP (Report all strings set in well) ALOUR TOP (REPORT AND TABLE TOP) TO ASSING SEEGRADE WEIGHT, IB-FF. DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED TO ALOUR TOP (Report all strings set in well) TO ALOUR TOP (Report all strings set in well) TO SUBJECT (SEEGRADE SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED TO SUBJECT (SEEGRADE SET (MD) SACKS CEMENT SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) TO SUBJECT (SEEGRADE SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PRODUCTION MICH TOOL (Florming) pas 3R, purmony—due and dipse of furmity SI W/O First Delivery Flowing FOR THE SET PRODUCTION MICH TOOL (Florming) pas 3R, purmony—due and dipse of furmity SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or shuth) SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or shuth) SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or shuth) SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or shuth) SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or shuth) SI W/O First Delivery Flowing TO SET OF ATTACHMENT STATUS (Producing or		innen la			Li2 DATE	COMPL (Cont		ــــــــــــــــــــــــــــــــــــــ					
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2110' 2111' Jes PRODUCTION NTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (AD AND TVD)' Blanco Picture Cliffs 1942' - 1968' 27 WAS WELL CORED NO CASING RECORD (Report all strings set in well) CASING SEZGRADE WEICHT, LB RT. DEPTH SET (MD) HOLE SEZE TOP OF CEMENT CEMENTING RECORD NO CASING SEZGRADE WEICHT, LB RT. DEPTH SET (MD) HOLE SEZE TOP OF CEMENT CEMENTING RECORD NO CASING SEZGRADE WEICHT, LB RT. DEPTH SET (MD) HOLE SEZE TOP OF CEMENT CEMENTING RECORD NO AMOUNT PULLED 10.58 J-55 134' 8 34' 8 surface; 34 8 x (56 f-10 bbls) 1 bbls 11/2" 10.58 J-55 1215' 6 1/4" TOC Surface 216 sx (444cf-79 bbls) 20 bbls 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SZE DEPTH SET (MD) PACKER SET (MD) 12 SZE TOP (MD) SZE			IVD 2	21 PLUG, BA	CKTD., MD &TV		LTIPLE C		23 IN	TERVALS			CABLE TOOLS
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TYPE ELECTRIC AND OTHER LOSS RUN GRIVCNL/CCL 3 CASING SECORD (Report all strings set in well) ADJUNCT CEMENTIC SECORD AND OTHER CEMENTING RECORD AND INTERPORT SET IN SECOND AND INTERPORT SET IN SECOND SUZE (Set of 10 bbls) 1 bbls CINER RECORD SACKS CEMENT SCREEN (MD) SUZE DEPTH SET (MD) PACKER SET (MD) SIZE TOP (MD) SOTTOM (MD) SACKS CEMENT SCREEN (MD) SUZE DEPTH SET (MD) PACKER SET (MD) SIZE TOP (MD) SOTTOM (MD) SACKS CEMENT SCREEN (MD) SUZE DEPTH SET (MD) PACKER SET (MD) SIZE TOP (MD) SOTTOM (MD) SACKS CEMENT SCREEN (MD) SUZE DEPTH SET (MD) PACKER SET (MD) PERFORATION RECORD (Interval, sate and number) 22 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1968* ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942* - 1	Blanco	Picture	Cliffe 10	142' _ 1QR	g'							SURVEY M	
CASING RECORD (Report all strings set in well) ASSING SIZE/GRADE WEIGHT, LB IFT. DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTS GRECORD 7" 20# J-55 134' 8 3/4' surface; 34 xs. (56 cf - 10 bbls) 1 bbls 4 1/2" 10.5# J-55 2155' 6 1/4' TOC Surface 216 xx (444cf - 79 bbls) 20 bbls 1 LINER RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. SSPE SACRES STORY (MD) SIZE DEPTH SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 1942 - 1968 SIZE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE SIXE WITO bbls 15% HCL. Acid, frac WI236ST gal Silkwater way and any and number) 10 FIRST PRODUCTION FROM THE PRODUCTION METHOD (Flowing, pas lift, pumping-size and type of pump) 10 FIRST PRODUCTION FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SACRES SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SHOT, SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SHOT, SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SHOT, SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SACRES SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SHOT, SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SACRES SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SQUEEZE, ETC. 1942 - 1968 SIXE ACID, SQUEEZE, ETC. 1942					·						27 WA	S WELL CORED	140
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7" 20# J-55 134' 8 34' Surface; 34 sx (56 cF-10 bbls) 1 bbls 4 1/2" 10.5# J-55 2155' 6 1/4" TOC Surface 216 sx (444cf-79 bbls) 20 bbls 10. LINER RECORD 30. TUBING RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT' SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PERFORATION RECORD (Interval, size and number) 32. AGID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. PERFORATION RECORD (Interval, size and number) 32. AGID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. PERFORATION RECORD (Interval, size and number) 32. AGID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. SSPF 1942'-1958' AGID SW/10 bbls 15% HGL Acid, trac w/23861 gal 1942'-1968' ACID SW/10 bbls 15% HGL Acid, trac w/23861 gal SILVAO First Delivery Flowing SI W/O First Delivery Flowing E OF TEST HOURS TESTED CHOKE SIZE PROON FOR OIL-BBL GAS-MCF WATER-BBL GAS-OIL RATIO 102/25/2009 1 1/2" GAS-MCF WATER-BBL GAS-OIL RATIO 102/25/2009 1 1/2" GAS-MCF WATER-BBL GAS-OIL RATIO 103/202/25/2009 1 1/2" GAS-MCF WATER-BBL GAS-OIL RATIO 105 POSITION OF GAS (Soid, used for faul, verted, etc.) To be sold 105 To be sold 105 The recy contry that the foregoing and attached enformation is complete and correct as determined from all available records NEC ATTACHMENTS 105 This will be a stand alone Basin Fruitland Coal well. 105 Thereby contry that the foregoing and attached enformation is complete and correct as determined from all available records NEC ATTACHMENTS Regulatory Technician DATE 03/30/2009 Additrofal Data on Reverse Side) APR 19 3 2009 Additrofal Data on Reverse Side) APR 19 3 2009 Additrofal Data on Reverse Side) APR 19 3 2009	28												
A 1/2" 10.5# J-55 2155" 6 1/4" TOC Surface 216 sx (444cf-79 bbls) 20 bbls		E/GRADE					SIZE				ORD		MOUNT PULLED
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) PERFORATION RECORD (Interval, size and number) 2 3/8" 4.7# J-55 1964 PERFORATION RECORD (Interval, size and number) 32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 22P ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 23P ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 242'-1968' Salikwater w/93,584# 20/40 Arizona Sand Total N2= 604,334 SCF PRODUCTION FINANT FINANT FINANT FROMUTION FROM FOR OIL-88L GAS-MCF WATER-8BL GAS-OIL RATIO FEFRIST PERIOD FROM FOR OIL-88L GAS-MCF WATER-8BL GAS-OIL RATIO FEFRIST PERIOD FROM FOR OIL-88L GAS-MCF WATER-8BL OIL GRAVITY-API (CORR) 126# 138# IAS WATER-8BL OIL GRAVITY-API (CORR) TO be sold FINANT This will be a stand alone Basin Fruitland Coal well. This will be a stand alone Basi											obis)		
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT SCREEN (MD) PERFORATION RECORD (Interval, size and number) 2 3/8" 4.7# J-55 1964 PERFORATION RECORD (Interval, size and number) 32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 22P ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 23P ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 242'-1968' Salikwater w/93,584# 20/40 Arizona Sand Total N2= 604,334 SCF PRODUCTION FINANT FINANT FINANT FROMUTION FROM FOR OIL-88L GAS-MCF WATER-8BL GAS-OIL RATIO FEFRIST PERIOD FROM FOR OIL-88L GAS-MCF WATER-8BL GAS-OIL RATIO FEFRIST PERIOD FROM FOR OIL-88L GAS-MCF WATER-8BL OIL GRAVITY-API (CORR) 126# 138# IAS WATER-8BL OIL GRAVITY-API (CORR) TO be sold FINANT This will be a stand alone Basin Fruitland Coal well. This will be a stand alone Basi				14450.05	2000								
PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 1942'-1968' = SQ holes 42'-1968' = SQ holes 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal Silkwater w/93,584# 20/40 Arizona Sand 101al N2= 604,334 SCF PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) SI W/O First Delivery Flowing 102'-1968' Flowing Flowing Flowing Flowing SI Flowing SI Flowing SI Flowing SI Flowing SI Flowing SI STEEP FRODN FOR OIL-98L GAS-MCF WATER-BBL GAS-OIL RATIO 122'-1968' 138# 145 mcf/d 24 bbi bwp/d TEST WITNESSED BY To be sold SI STEEP SI STEEP SI	29 SIZE	TOP (ME) BOTT			IT SCREE	N (MD)			DEPTH SET			
1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 42'-1968' Silkwater w/33,594# 20/40 Arizona Sand 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23861 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bbis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, frac w/23661 gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, gal 1942'-1968' Acidize w/10 bis 15% HCL Acid, gal 1942'-1968' Acidize w/10 bis 16 part of par								2 3/8" 4.7# J	-55	1964			
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Data Source Aerial flown locally Sedgewick in 2005. Wetlands Data Aquired from U.S. Fish and Wildlife Http://wetlandswms.er.usgs.gov USGS Topo

300FT SJB Tri City Outlines
1000FT CITY NAME

ZZ AZTEC

BUFFERS

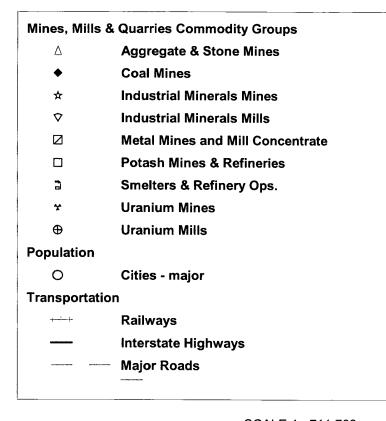
BLOOMFIELD

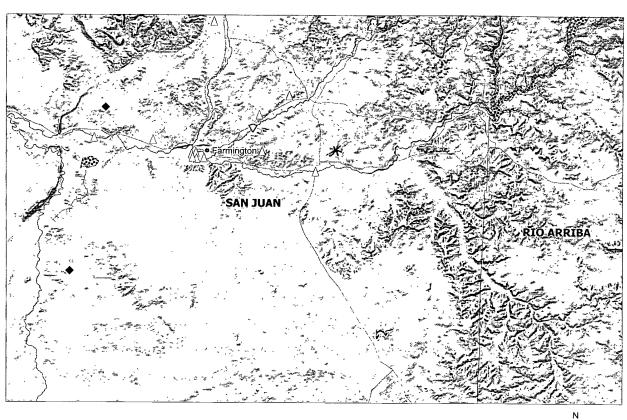
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0 250 500 1,000 Feet NAD_1983_SP_ NM West_FIPS_ 3003 MAY 5, 2010

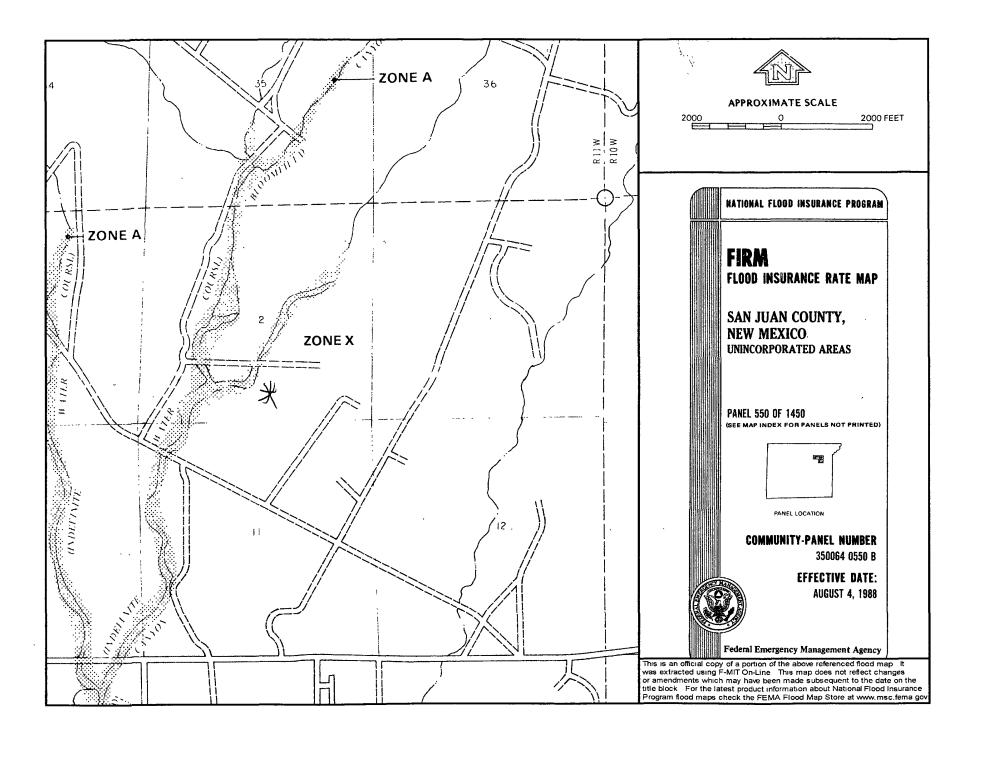
MAR VISTA SWD 1 MINES MILLS & QUARRIES











Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Mar Vista SWD 1 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 McClure 100S has an elevation of 5647', drilled to 300' and no groundwater encountered. The subject well has an elevation of 5692' which is greater than the McClure 100S, therefore the groundwater depth is greater than 345'. 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.

Hydrogeological Report for Mar Vista SWD 1

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, 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.

DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API	Number			*Pool Code		°Pool Name SWD/BLANCO MESAVERDE						
⁴ Property C	ode				⁵ Property	Vame		• 4	ell Number			
					MAR VISTA S	SWD			1			
OGRID No					⁸ Operator 1	Vame		• E	levation			
			BURL	INGTON R	ESOURCES OIL	& GAS COMPA	NY LP	5692'				
Lastrice	 				10 Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
N	2	29-N	11-W		290	SOUTH	2490	WEST	SAN JUAN			
			11 Bott	om Hole	Location I	f Different Fr	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
B Dedicated Acres			¹⁸ Joint or	Infill	14 Consolidation C	Code ¹⁵ Order No.						

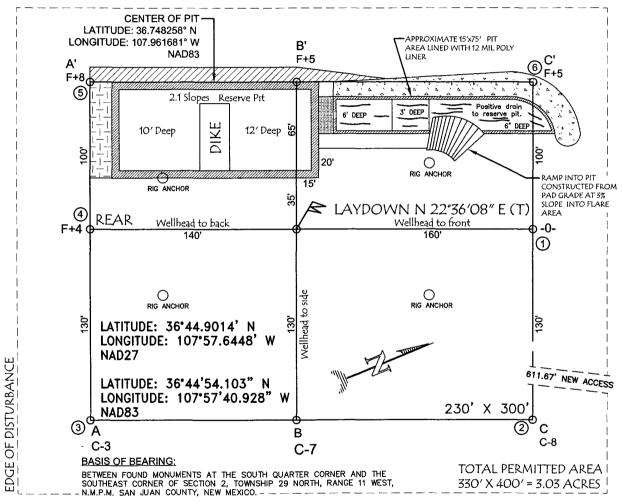
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	16	T-30-N	MUARD UNII HAS DI	EN ATTROVED DI	THE DIVISION
	FND BLM "1997" BC	T-29-N LOT 3	LOT 2	LOT 1	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
4	SOUTHEAST CORNER OF N.M.P.M. SAN JUAN COUI LINE BEARS: S 89'07'08' LOCAL GRID NAD83.	1			Signature Printed Name
2631.19*	"1997" BC		LATITUDE: 36*44.90 LONGITUDE: 107*57 NAD27 LATITUDE: 36.7483 LONGITUDE: 107.96 NAD83	.6448' W 52° N	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my beltaf. Date of Survey Date of Survey N. RUSSING
N00'16'28"E	2490' FND BLM "1997" BC	0	FND REBAR IN STONE PILE	FND REBAR	Signature and sea of the ME 15703 ME 10FESSION CONTROL OF THE SECONDARY SECO
4	N88'44'21"E	2616.10'	(B.O.B.) S89°07'08"	E - 2684.22'	19703

BURLINGTON RESOURCES OIL & GAS COMPANY LP

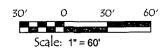
MAR VISTA SWD #1, 290' FSL & 2490' FWL SECTION 2, T-29-N, R-11-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5692', DATE: JANUARY 14, 2010



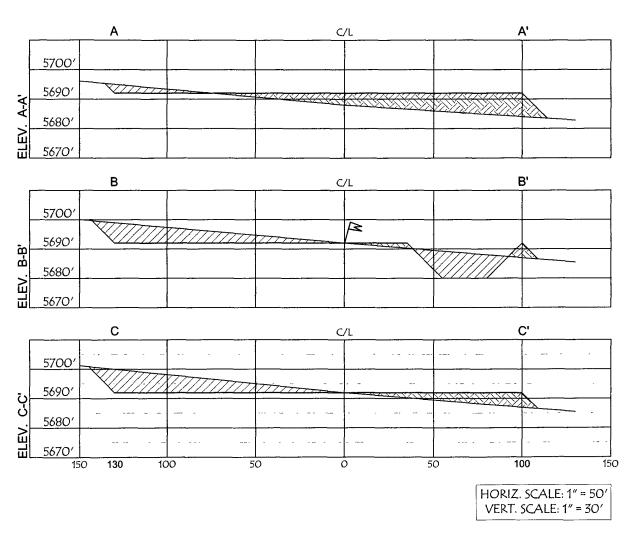
LINE BEARS: S $89^{\circ}07^{\circ}08^{\circ}$ E A DISTANCE OF 2684.22 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD83.

NOTES:

- 1. VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
- 2. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW 3' WIDE AND 1' ABOVE SHALLOW SIDE).



BURLINGTON RESOURCES OIL & GAS COMPANY LP MAR VISTA SWD #1, 290' FSL & 2490' FWL SECTION 2, T-29-N, R-11-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5692', DATE: JANUARY 14, 2010



NOTE:

VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION

Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

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

- 1. BR will design and construct a properly sized and approved temporary pit which will contain liquids and solids and should prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 4. BR shall construct all new fences around the temporary pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. BR shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

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

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

- BR will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

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

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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 pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. 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
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)		
Benzene	EPA SW-846 8021B or 8260B	0.2		
BTEX	EPA SW-846 8021B or 8260B	50		
TPH	EPA SW-846 418.1	2500		
GRO/DRO	EPA SW-846 8015M	_500		
Chlorides	EPA 300.1	(1000)500		

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. 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. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping 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.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. 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 federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A 3.0		
Western wheatgrass	Arriba			
Indian ricegrass	Paloma or Rimrock	3.0		
Slender wheatgrass	San Luis	2.0		
Crested wheatgrass	Hy-crest	3.0		
Bottlebrush Squirreltail	Unknown	2.0		
Four-wing Saltbrush	Delar	.25		

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality) Source No. two (better quality) **Purity** Purity 50 percent 80 percent Germination 40 percent Germination 63 percent Percent PLS 20 percent Percent PLS 50 percent 5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS . 1 lb. PLS

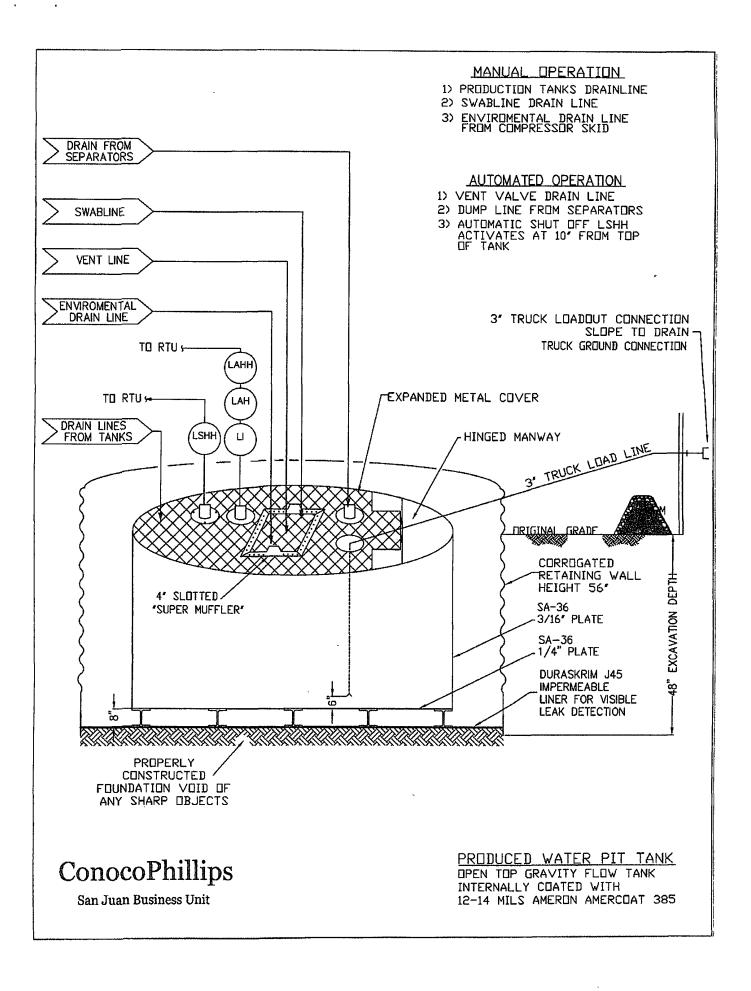
15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial 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.

- 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.
- 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.
- The general specification for design and construction are attached in the BR document.



DURA-SKRIM®

IRO, IRB BILLE

PROPERTIES	TEST METHOD	Jä	0BB	. J36	вв	J45	BB - ;	
		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 rail	
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		**Extrusion laminated with encapsulated tri-directional scrim reinforcement						
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1. Tensile Strength	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 Elangation @ 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 @ Reak: % (ScrimBreak)	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 Sloux 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.

- 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 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 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
 - 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