1625 N, French Dr, Hobbs, NM 88240

District II

1301 W Grand Ave, Artesia, NM 88210

District III

1000 Rio Brazos Rd, Aztec, NM 87410

District IV

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

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

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

Form C-144

July 21, 2008

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

220 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.
perator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
acılıty or well name: Sunray F 1G
API Number: OCD Permit Number.
/L or Qtr/Qtr: H(SENE) Section: 26 Township: 30N Range: 10W County: San Juan
enter of Proposed Design: Latitude: 36.78667' N Longitude: 107.84748' W NAD: 1927 X 1983
urface Owner: X Federal State Private Tribal Trust or Indian Allotment
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: 7000 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 Eliner Seams: Welded Factory Other
X Below-grade tank: Subsection I of 19.15.17.11 NMAC
Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6							
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)							
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)							
Four foot height, four strands of barbed wire evenly spaced between one and four feet							
X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.							
7							
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
X Screen Netting Other							
	Monthly inspections (If netting or screening is not physically feasible)						
8		[
Signs: Subsection C of 19.15.17.11 NMAC							
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
X Signed in compliance with 19.15.3.103 NMAC							
9		.,					
Administrative Approvals and Exceptions:		ĺ					
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	ideration of ap	proval.					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10 Siting Oritaria (appealing appealing a) 10.15.17.10 NMAC							
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		1					
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	1						
does not apply to drying pads or above grade-tanks associated with a closed-loop system.	l	ŀ					
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	∏Yes	XNo					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		AINO					
•							
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).	Yes	X No					
- Topographic map; Visual inspection (certification) of the proposed site							
		_					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	X No					
application.	<u></u>	1					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	∐ ^{NA}						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No					
(Applied to permanent pits)	XNA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering		X No					
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	AINO					
(
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	∏Yes	X No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended		<u> </u>					
- Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland.	Yes	X No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.	Yes	X No					
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division							
Within an unstable area.	Yes	XNo					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	_	_					
Society; Topographic map	_	_					
Within a 100-year floodplain	Yes	XNo					
- FEMA map	1						

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 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17 13 NMAC
Previously Approved Design (attach copy of design) API or Permit
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
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)
15
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
X 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 cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC

Form C-144 Oil Conservation Division Page 3 of 5

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul- Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cu	off Bins Only: (19.15.17 13 D NMAC) ttings. Use attachment if more than two facilities							
are required.								
Disposal Facility Name. Disposal Facility		ł						
Disposal Facility Name: Disposal Facility Permit #.								
Will any of the proposed closed-loop system operations and associated activities occur on or in a Yes (If yes, please provide the information No	areas that will not be used for future service and operations?	,						
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specification - based upon the appropriate requirements Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.	7 13 NMAC							
17								
Siting Criteria (Regarding on-site closure methods only: 19 15.17.10 NMAC Instructions Each stung criteria requires a demonstration of compliance in the closure plan Recommendations of certain siting criteria may require administrative approval from the appropriate district office or may be considered for consideration of approval Justifications and/or demonstrations of equivalency are required. Please refer to 19	d an exception which must be submitted to the Santa Fe Environmental Bure							
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - IWATERS database search; USGS: Data obtained from nearby	wells Yes X No							
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby v	Yes X No							
Ground water is more than 100 feet below the bottom of the buried waste.	X Yes No							
- NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby v	wells . N/A							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse of (measured from the ordinary high-water mark).	r lakebed, sinkhole, or playa lake Yes XNo							
- Topographic map, Visual inspection (certification) of the proposed site Within 200 feet from a normalization calculation and hospital, institution or church in crystages at the time.	ne of initial application.	Í						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the tin - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes X No							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the prop Within incorporated municipal boundaries or within a defined municipal fresh water well field covered up to the total country of the property of the state o	use for domestic or stock watering f the initial application. osed site							
pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the mu	nıcıpalıty							
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification	Yes X No							
Within the area overlying a subsurface mine.	Yes X No							
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	Yes XNo							
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; I Topographic map 	USGS, NM Geological Society;							
Within a 100-year floodplain - FEMA map	Yes X No							
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following by a check mark in the box, that the documents are attached.	items must bee attached to the closure plan. Please indicate,							
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements o	f 19.15.17.10 NMAC							
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 re	quirements of 19.15 17 11 NMAC							
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based								
X Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 NM	· ·							
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements o								
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection								
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15. 		Ì						
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.1								
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC								

Page 4 of 5

Form C-144 Oil Conservation Division

Operator Application Certification:				
I hereby certify that the information submi	tted with this application is true, accura	ate and complete to the	best of my knowledge and belief	
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician	
Signature		Date		
e-mail address: crystal.ta	afoya@conocophillips.com	Telephone:	505-326-9837	
20				
OCD Approval: Permit Applica	/ —	Closure Plan (only)	OCD Conditions (see at	tachment)
OCD Representative Signature:	Brandon De	Swell	Approval Date:	10-30-08
Title: Emiro(5	Brandon De	OCD Peri	nit Number:	
Closure Report (required within 60 Instructions: Operators are required to ob report is required to be submitted to the di approved closure plan has been obtained of	tain an approved closure plan prior to vision within 60 days of the completion	implementing any clos a of the closure activition onpleted.	ure activities and submitting the c	-
22	-			
Closure Method:			<u></u>	
Waste Excavation and Removal	On-site Closure Method	Alternative Closure	Method Waste Removal	(Closed-loop systems only)
If different from approved plan, pl	ease explain.			
23				
Closure Report Regarding Waste Remo				
Instructions: Please identify the facility o were utilized.	r facumes for where the uquias, arum	ng jiuias ana ariii cuti	ings were aisposea. Use auacnm	eni ij more inan iwo jacuities
Disposal Facility Name:		Disposal Facility	Permit Number:	
Disposal Facility Name.		Disposal Facility	Permit Number	
Were the closed-loop system operation	s and associated activities performed or	n or in areas that will n	ot be used for future service and o	ppeartions?
Yes (If yes, please demonstrate co	mplilane to the items below)]No		i
Required for impacted areas which wil		erations:		
Site Reclamation (Photo Documer				•
Soil Backfilling and Cover Installa Re-vegetation Application Rates a				
	nd Security recrimque			
24 Closure Report Attachment Chec	klist: Instructions: Each of the follo	wing items must be att	ached to the closure report. Plea	se indicate, by a check mark in
the box, that the documents are attack				
Proof of Closure Notice (surfac			•	
Proof of Deed Notice (required				
Plot Plan (for on-site closures a				
Confirmation Sampling Analyti	•••			
Waste Material Sampling Analy	• • •			
Disposal Facility Name and Per				
Soil Backfilling and Cover Insta				
Re-vegetation Application Rate	•			
Site Reclamation (Photo Docum On-site Closure Location: L.	nentation) atitude:	Longitude.	NAD [1927
On-site Closure Location.	attude.		NAD	1963
25				- · · · · · · · · · · · · · · · · · · ·
Operator Closure Certification:		•		
I hereby certify that the information and a the closure complies with all applicable co		-		nowledge and helief. I also certify that
Name (Print):	requirements and conditions spe	Title:		
Signature.		Date -		
e-mail address		Telephone:		

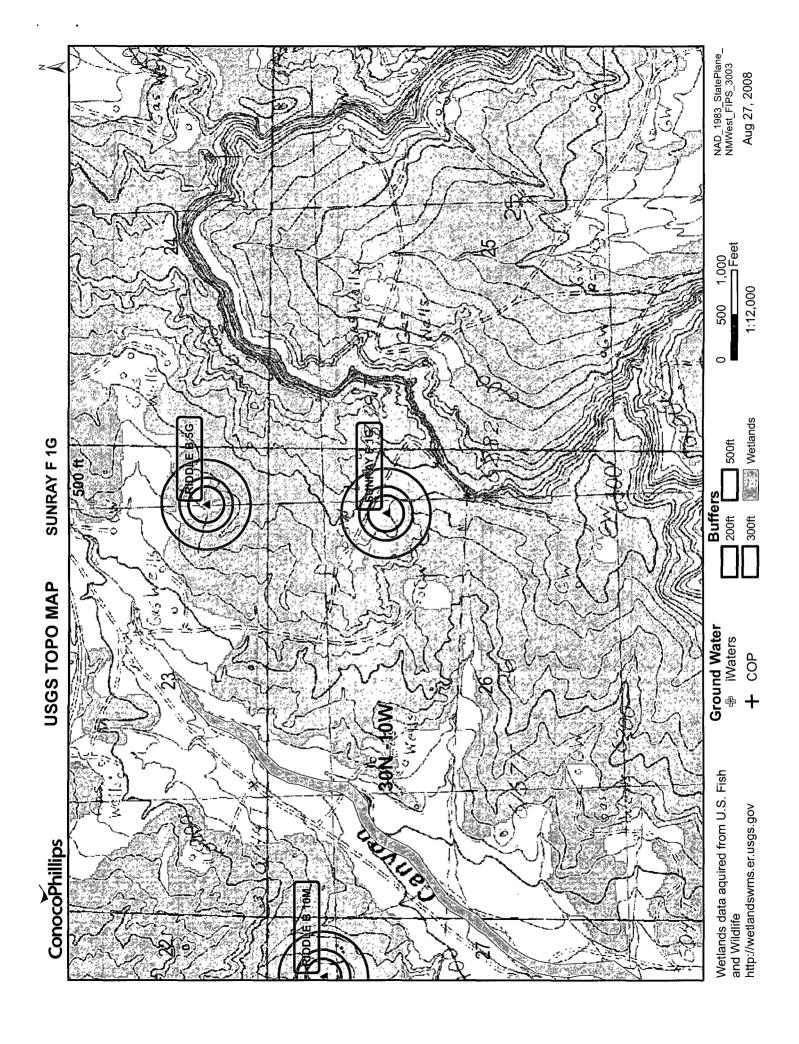
New Mexico Office of the State Engineer POD Reports and Downloads

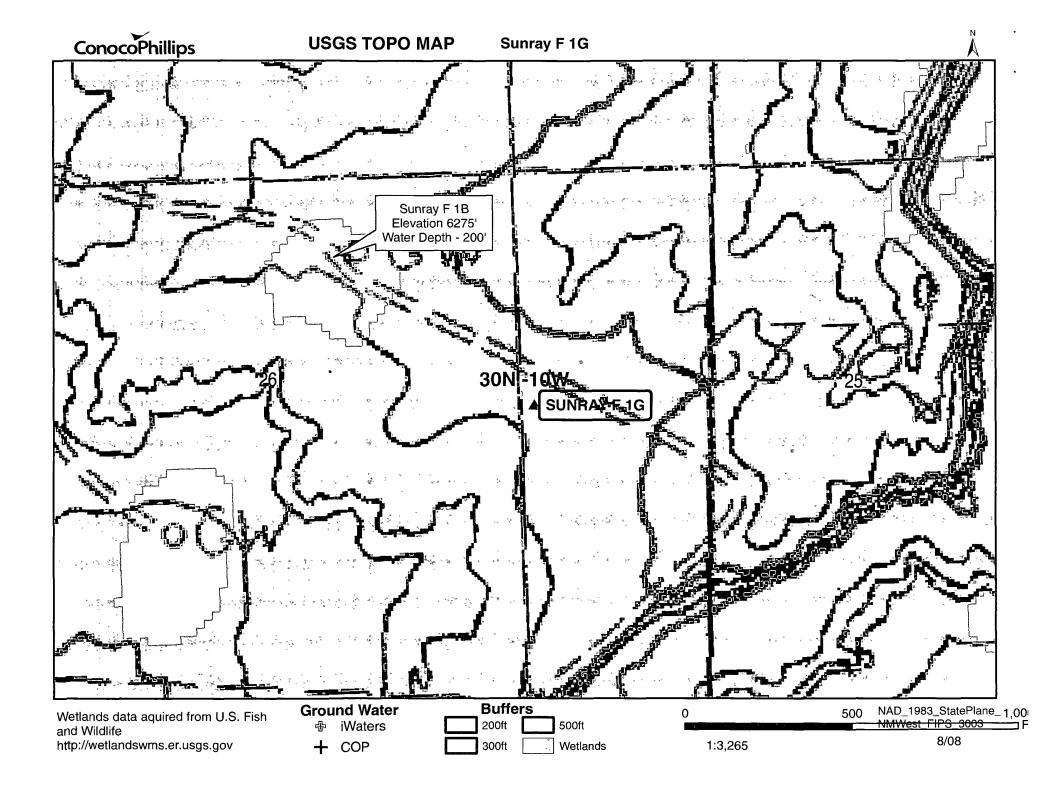
Township: 30N	Range: 10W	Sections: 24	,26,22,25	5,26,24,36,35,34		
NAD27 X:	Y:	Zone:		Search Radius:	r T	
County:	Basin:			Number:	Suffix:	
Owner Name: (First)	(La	ast) ② All		○ Non-Domestic	ODomestic	
POD / Surface Data Report Avg Depth to Water Report Water Column Report						
Clear Form iWATERS Menu Help						

WATER COLUMN REPORT 10/13/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wat∈ Well Colum POD Number Tws Rng Sec q q q Zone X Water 292 SJ 00010 30N 10W 24 2 30N 10W 34 75 1 2 4 115 4 SJ 01059 30N 10W 34 1 3 3 235 125 11 SJ 01182

Record Count: 3





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

AND BELLEVIEW THE THE TOTAL OF THE SECOND SE

APANY: Burlington JCATION:Sunray F1B

STATE: NM BIT SIZE: 6 1/4

LBS COKE BACKFILL: 1600# ANODE TYPE: 2" x 60" Durachlor CONTRACT #: 01774 Alt #1

LEGALS: 26-30-10 DRILLER: Mercer

CASING SIZE/TYPE: 20' 8"

VENT PIPE: 300 ANODE AMOUNT:12 DATE: 01/22/01 COUNTY: SJ DEPTH: 320'

COKE TYPE: LORESCO SW

PERF PIPE: 180' BOULDER DRILLING:

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMP
20	20' 8" PVC	1	310		
25			315	V	
30			320	Sandstone	
35.			325		
40			330		
45			335		
50			340		
55			345		
60			350		
65			355		
70			360		
75			365		
80			370	, , , , , , , , , , , , , , , , , , ,	
85			375		
90			380		
95			385		
100			390		
105		.1	395		
110		.2	400		
115		.0	405		
120		.0.	410		
125		.0	415		
130		.0	420		
135		0. [1 425		
140		.0	430		
145		0.	435		
150		ļ .L	440		
155		.0.	445		
160		.0	450		
165		.0.			
170		.0			
175		.0			
180		.0.			
185		.0			
190		1			
195		.1			
200	Sandstone	.1			
205		.1			
210		1.1			
215		1.2			
220		1.1]		
225		1.9			
230		1.4			
235		1.2			
240		1.2			
245		1.2	<u> </u>		
250	ļ	1.4	ļ		
255	<u> </u>	2.0			
260		2.2	<u> </u>		
265		2.2	<u> </u>		
270		2.4			
275		2.7			
280		2.6			
285	4	2.3			
290	Shale Sandy Shale				
295					
				1	
300 305				<u> </u>	

ANODE #	DEPTH	NO COKE	COKE
j	285	2.3	5.5
2	279	2.8	6.4
3	273	2.5	7.0
4	267	2.5	6.7
5	261	2.0	5.9
б	255	1.4 1.2 1.2 1.4	4.3
7	249	1.2	3,8
8	243	1,2	3.6
9	232		3,1
10	226	1.5	4.4
11	220	1.1	4.0
12	214	0.2	3.1
13	1		
14			
1.5			
16			
17			
18			
19			
20			
21		<u> </u>	
22			
23		1	
24			
25			
26			
27			
28			
29		1	
30			

WATER DEPTH: 200' ISOLATION PLUGS: LOGING VOLTS: 13.0

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 14.6

TOTAL GB RESISTANCE: 0.890

REMARKS:

Form 3160-4 (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLICATE*

(See alter instructions on

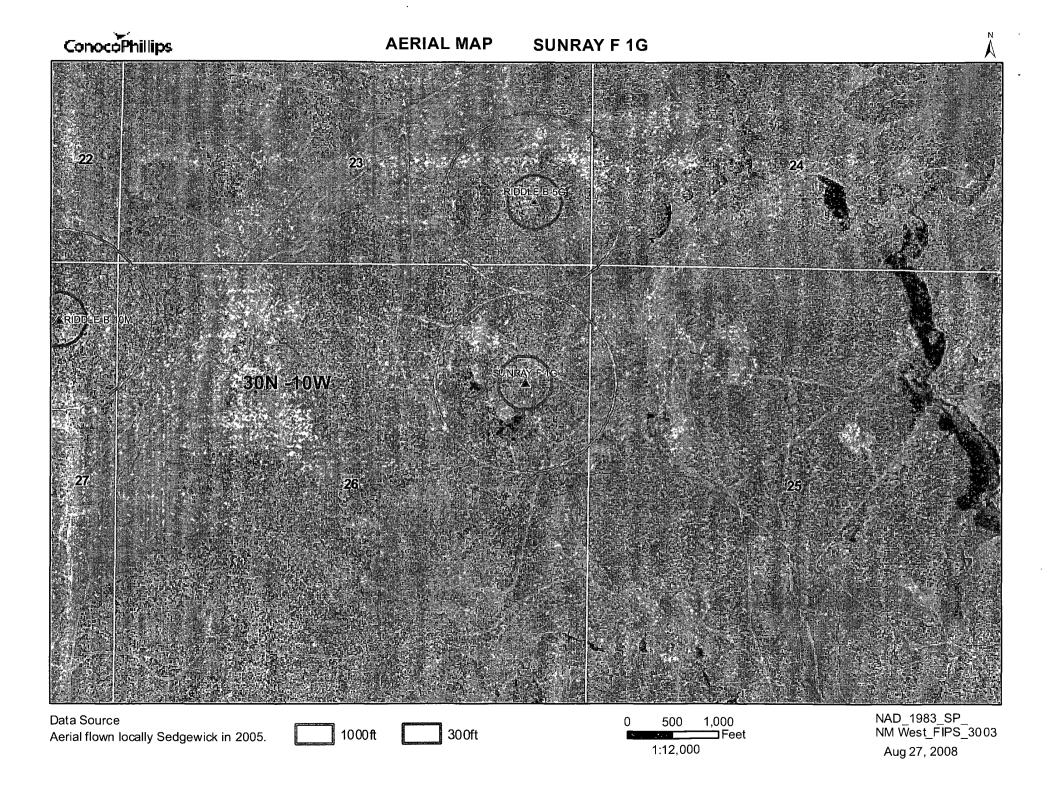
FOR APPROVED OMB NO. 1604-0197

Expires: December 31, 199

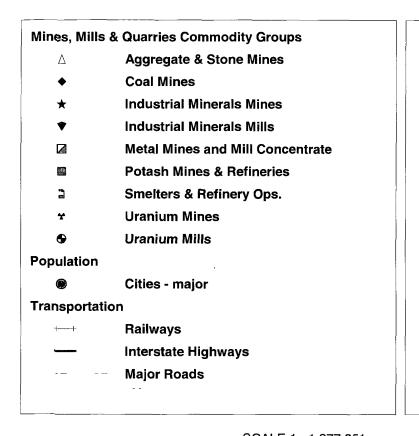
	BUREAU OF LAND MANAGEMENT							5. LEASE DESIGNATION AND SERIAL NO.		
`							1	SF-080751-A		
		TION OR R		TION REP	ORT AND	LOG*	G. IF IN	DIAN, ALLOTTE	E OR TRIBE NAME	=
1a. TYPE OF	WELL:	METT	WEIT X	DRY Other	<u> </u>		7. UNIT	AGREEMENT N	AME	
N TYPE OF		-								
NEW X WORK DEEP PLUG DIFF.								M OR LEASE NA	•	
2, NAME OF	OREBATOR							Sunray F #1E WELL NO.	<u> </u>	
		, I RESOURCES O	IL & GAS COMP	ANY				30-045-3017	3	
3. ADDRESS	AND TELE	PHONE NO.					t t	LD AND POOL,		
PO	BOX 4269	, Farmington, NM (Report location clea	87499 (505)	326-9700	Acrimomente 12				verde/Basin E BLOCK AND SUI	
4. LOGATIO		(Report Rication Gea FNL, 1190'FEL	ny and ar accurcan	a win any state re	нуштетета ј		1	C., I., R., M., OR RAREA	BOWN WILL SEE	(YE)
At sun acc		1714L, 11301LL						Sec. 26 , T-30	-N, R-10-W	
At top pro	d, interval re	ported below								
At total de	epth		D	HC 264	8					
			[14.	PERMIT NO.	DATE ISSUE	D	12. CC	UNTYOR	13. STATE	
							1	ARISH	Maus Masses	
15. DATE SPU	DDED 16.	DATE T.D. REAGHED	- 17. DATE COM	PL. (Ready.to.prod.)	<u> </u>	18. ELEVATIONS (DF.		San Juan R. ETC.)*	New Mexico	
11-2-00		11-7-00	12-11-	00		6275'GL/62		<u> </u>		
20. TOTAL DE	PTH, MD &TVI	21. PLUG, B/	CK T.D., MD &TVD	22. IF MULTIPLE CO HOW N		23. INTERVALS DRILLED BY	ROTARY	TOOLS	CABLE TOOLS	
7400′		7395		2				0-7400'	<u> </u>	
24, PRODUCT	ION INTERVA	(S) OF THIS COMPLE	TION-TOP, BOTTOM, I	VAME (MD AND TVD)	•			25. WAS DIREC SURVEY M		
	90' Dakota								No	
26, TYPE ELE CBL/GR		THER LOGS RUN					27. WAS	WELL CORED	No	
_28.				ASING-RECORD	(Report-all-strings	set-in-well)				
. CASING SIZ 9 5/8	E/GRADE .	-weight, 18.67 32.3#	DEPTH.SET (MD)	HOLE SIZE _	JOP OF CEN	ENT. CEMENTING RE 218 cu ft	CORD	Α	MOUNT PULLED	
7		20#	3114'	8 3/4		1003 cu ft				
70		LINER RE	CORD	<u> </u>	30.		. i	BING RECOR	n	
	TOP (MD)	FOTTOM (MD)	- SACKS CEMENT	-SCREEN (MD)	SIZE	DEPTH S			ACKER SET (MD	<u> </u>
4 1/2	2125'	7397'	631 cu fl		2 3/8	7281				
31 PERFORA	TION RECOR	D (Interval, size and num	aber)	32.	'Altri	D, SHOT, FRACTU	RE. CEME	NT SOUFFZE	FTC.	
•		7348', 7374-7390'	,		ERVAL (MD)		MOUNT AND KIND OF MATERIAL USED			***********
				7234-73	390,	2536 bbl sik wir,	40,000#	20/40 TLC s	and.	
									ائس)	
									(-3	
					RODUCTION					
DATE FIRST PI	RODUCTION	PRODU	CTION METHOD (Flow			(qe		WELL STATUS	(Produčing or sni i	(-t∩)
DATE OF TEST	···	HOURS TESTED	1	OD'N FOR OIL-	BBL	GAS-MCF	WATI	ER-BBL	GAS-OIL RATI	Ó
. 12-11-0	00		TE	ST PERIOD				<u> </u>	翌	
FLOW, TUBING		CASING PRESSURE		DIL-BBL	GAS-MCF	WATER	-88L	. 344	OIL GRAVITY	API (CORR.)
SI 740		Si 685	24-HOUR RATE	•	TSTM		ACCER	ren egs		4
34. DISFOSIŢIDŅ OF GAS (Sald, used far fam), vented, etc.)										
35, LIST OF	ATTACHMENT						J	AN 0 4	7691	
36. I hereby o	entity that the f	None oregoing and attached in	formation is complete a	and correct as determi	ined from all availab	la records	<u> </u>			
	Ann	1	1.				BY	INGTOR FIE		
SIGNED V		14 0	TITLE	Regulatory Su	pervisor		BXNE	4×2-01		

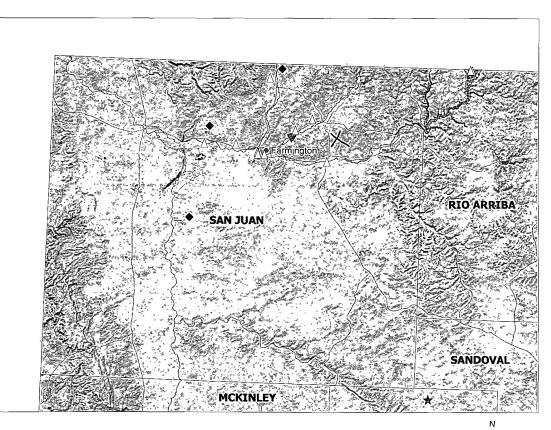
*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



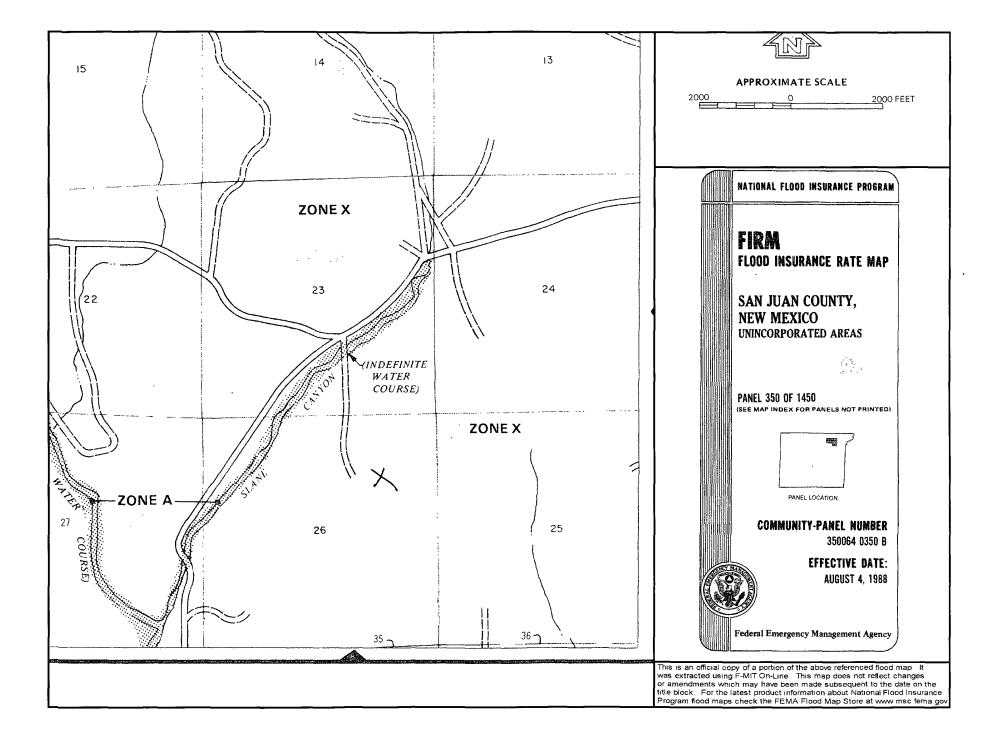
Sunray F 1G Mines, Mills and Quarries Web Map











Hydrogeological report for Sunray F 1G

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 Sunray F 1G 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 Sunray F 1B has an elevation of 6275' and groundwater depth of 200'. The subject well has an elevation of 6292' which is greater than the Sunray F 1B, therefore the groundwater depth is greater than 200'. 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.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Wednesday, October 15, 2008 10:22 AM 'mark_kelly@nm.blm.gov'

To:

Subject:

Surface Owner Notification

The following locations will have the temporary pit closed on-site. Please let me know if you have any questions.

McClanahan 550S Lloyd B Com 100S Sunray F 1G Michener 2P Stanolind Gas Com 1M Huerfano Unit 304E

Thank you,

Crystal L. Tafoya Regulatory Technician ConocoPhillips Company San Juan Business Unit Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

DISTRICT I 1625 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 W. Grand Avenue, Artesia, N.M. 88210

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

☐ AMENDED REPORT

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

317.22 Acres - (E/2)

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ APl Number		Pool Name N DAKOTA
*Property Code	⁶ Property Name	* Well Number
A726036	SUNRAY F	1 G
OGRID No.	Operator Name	⁹ Elevation
	BURLINGTON RESOURCES OIL AND GAS COMPANY L	P 6292'

¹⁰ Surface Location

UL or lot no.	Section 26	Township 30N	Range 10W	Lot Idn 8	Feet from the 1350'	North/South line NORTH	Feet from the 735'	East/West line EAST	County SAN JUAN
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acre	8	<u>L</u>	is Joint or	Infill	14 Consolidation (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

10		92, 22 21022			
FN Cha ^B	ID 3½".BC LM 1967	N 89'56'59" W N 89'58' W	5246.74' (M) 5244.36' (R)	FND 31/ BC BLM 1967	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and
	4	3	2 1	320	belief, and that this organization 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 or a compulsory pooling order heretofore entered by the division.
ļ.	<u> </u>			9-735	Signature Date
		·	LAT. 36.78667" N (I		Printed Name 18 SURVEYOR CERTIFICATION
	5	6	LAT. 36:47.19992' N LONG. 107:50.81168 7 LEASE # USA SF-	W (NAD27) , 08 6, 25 83, 36, 25	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 belief.
 		2	<u> </u>		OCTOBER 3, 2007
	12	11	10 LEASE # USA SF-	Οz	Signature and Seal of Professional Surveyor.
				Z	(1000) E
	13	14	15	1.6	TOSOI 10201 PARTISIONAL LANDING OFFICE OFFIC
				FND 3%* BLM 196	DAVID RUSSELL Certificate Number 10201

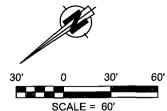
LATITUDE: 36.78667°N LONGITUDE: 107.84748°W DATUM: NAD 83

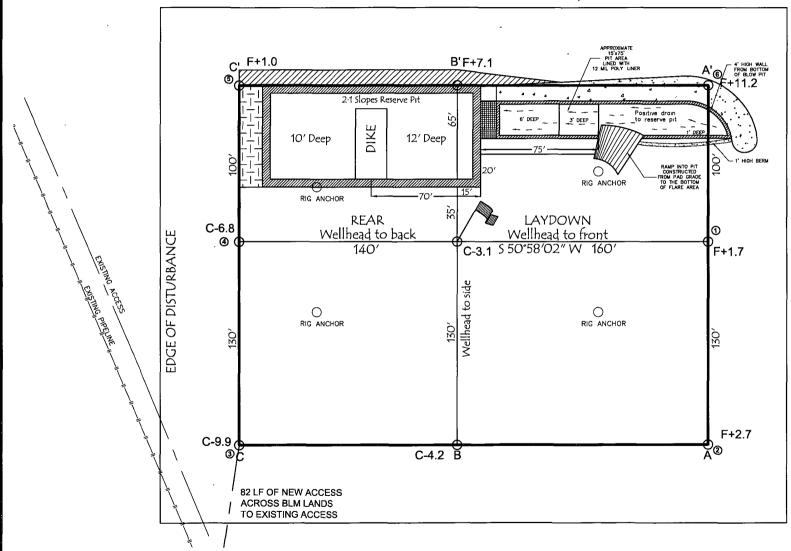
SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

BURLINGTON RESOURCES O&G CO LP

SUNRAY F #1 G 1350' FNL & 735' FEL LOCATED IN THE SE/4 NE/4 OF SECTION 26, T30N, R10W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6292', NAVD 88
FINISHED PAD ELEVATION: 6289.0', NAVD 88





330' x 400' = 3.03 ACRES OF DISTURBANCE

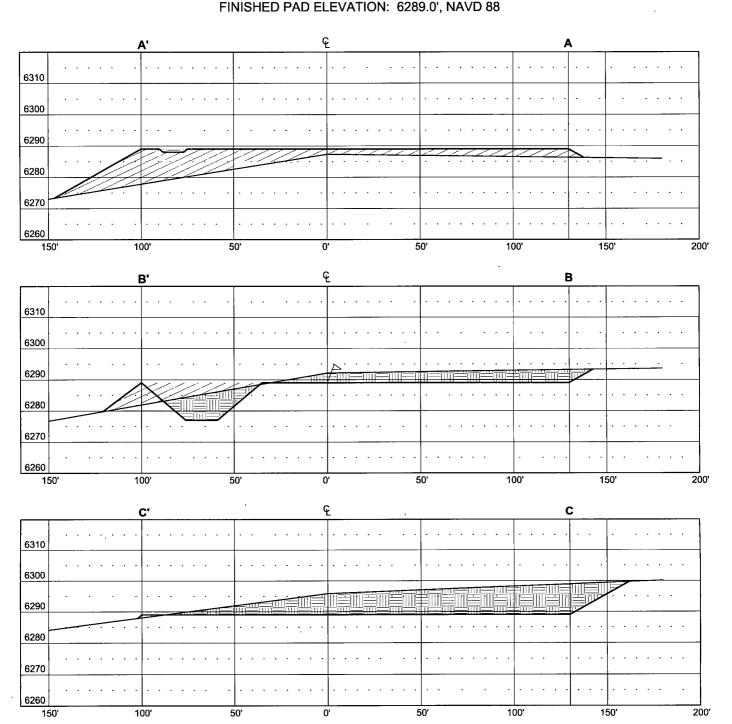
SCALE: 1" = 60' JOB No.: COPC111 DATE: 10/16/07 RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR
CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
TO CONSTRUCTION.



Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637 LATITUDE: 36.78667°N LONGITUDE: 107.84748°W DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

SUNRAY F #1 G
1350' FNL & 735' FEL
LOCATED IN THE SE/4 NE/4 OF SECTION 26,
T30N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6292', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: COPC111 DATE: 10/16/07





Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

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.
- 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.
- 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.

- 1. 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.
- 6. 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.
- 9. 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

- 1. 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	√5 Q0		
Chlorides	EPA 300.1	(000)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		
Western wheatgrass	Arriba	3.0		
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)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 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.

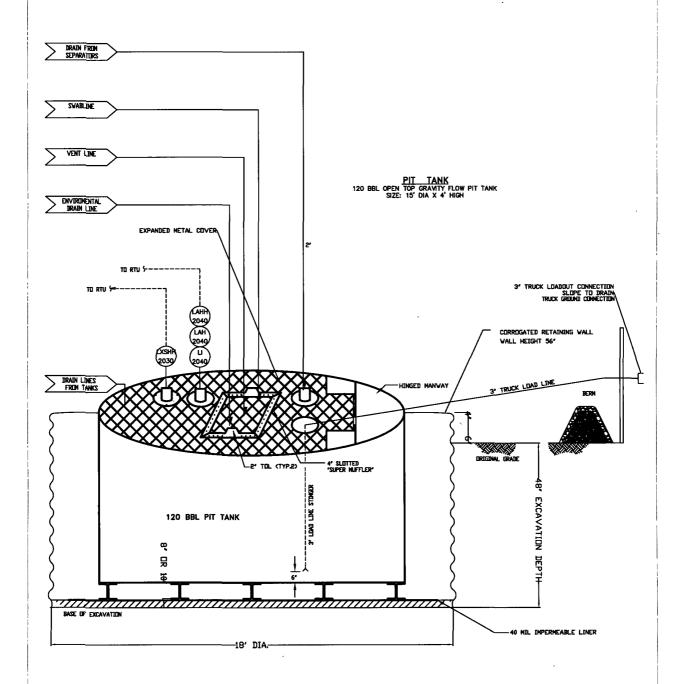
- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 3. BR shall construct fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom.
- 7. BR shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental

drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.

- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as DURA-SKRIM J-45 which includes a 20 year warranty provided by said manufacturer. This product provides a level of UV and harsh weather conditions protection. It is rated to a Low temperature impact failure of -94°F. It exceeds ASTMD3083 standard by 10%. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached.
- 11. The general specification for design and construction are attached in the BR document.

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

AUTOMATED OPERATION VENT VALVE DRAIN LINE DUMP LINE FROM SEPARATORS



ConocoPhillips San Juan Business Unit

DURAS/ANG

BOALS GELYA

PROPERTIES	TEST METHOD	3b	ÓBB 🗼	JEG	BB (1)	J45	BB 1	
		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		**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'& Fensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1. Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1: Tensile Elongation @ Peak %. (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezoid-Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F	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.

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08/06

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

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

- 1. BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 4. BR shall continuously remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime.
- 5. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 6. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.
- 7. If a leak develops below the liquid's level, BR shall remove all liquids within 48 hours and repair the damage or replace the below-grade tank. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation. The closure report will be filed on C-144
- 3. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 4. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 5. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 6. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 7. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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