District I 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Ave , Artesia, NM 88210 District III

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

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

1000 Rio Brazos Rd , Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
District IV 1220 S St Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office
11 V V .	losed-Loop System, Below-Grade	
2006 Proposed Al	lternative Method Permit or Closu	re Plan Application
Type of action X Permi	it of a pit, closed-loop system, below-grade tan	k, or proposed alternative method
Closu	ire of a pit, closed-loop system, below-grade tai	nk, or proposed alternative method
Modi	fication to an existing permit	
	re plan only submitted for an existing permitter y-grade tank, or proposed alternative method	d or non-permitted pit, closed-loop system,
Instructions: Please submit one application	(Form C-144) per individual pit, closed-loop	system, below-grade tank or alternative request
••	does not relieve the operator of liability should operations rest	
environment Nor does approval relieve the operar	tor of its responsibility to comply with any other applicable go	overnmental authority's rules, regulations of ordinances
Operator Burlington Resources Oil & Gas C	ompany, LP	OGRID# 14538
Address PO Box 4289, Farmington, NM 87	499	
Facility or well name Angel Peak 501S		
API Number 30-045-	34694 OCD Permit Number	
U/L or Qtr/Qtr· P(SESE) Section 2	Township 27N Range 11	W County San Juan
Center of Proposed Design Latitude	36*35.9486' N Longitude.	107*57.9893' W NAD X 1927 1983
Surface Owner Federal Sta	ate X Private Tribal Trust or Indian	Allotment
Pite Subseques For Gold 15 17 H NIMAG		
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		HDPE PVC Other
X String-Reinforced	[25]	
Linei Seams X Welded X Factory	Other Volume 7000	bbl Dimensions L <u>120'</u> x W <u>55'</u> x D <u>12'</u>
3		
Type of Operation P&A Drilling a	new well Workover or Drilling (Applies to a	ctivities which require prior approval of a permit or
Drying Pad Above Ground Steel Ta	notice of intent) nks	47.92
	Thickness mil LLDPE HI	DPE PVD Other (24) 151617 18 79 20 22.
Liner Seams Welded Factory	Other	DPE PVD Other A TOP OF THE PVD OTHER TOP OF THE PVD OTHER TOP OTHE
X Below-grade tank: Subsection I of 19 15 1	7 11 NMAC	OIL CONS DIV. DIST. 3
Volume 120 bbl Ty	pe of fluid Produced Water	OIL CONS DIV. DIST. 3
Tank Construction material	Metal	ONE COMO SAN
Secondary containment with leak detection	X Visible sidewalls, liner, 6-inch lift and auton	natic overflow shut-off OIL CONS DIV. DIST. 3
Visible sidewalls and liner Visib	ble sidewalls only Othei	1-1506
Liner Type Thickness 45 mil	HDPE PVC X Other LI	LDPE
5 Alternative Methods		
Alternative Method:		
Submittal of an exception request is required Exce	eptions must be submitted to the Santa Fe Environm	ental Bureau office for consideration of approval

Form C-144

Oil Conservation Division

Page 1 of 5

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, instance of the light 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.	titution or chia	rch)
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 Administration Appropriate and Equations		
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance		
Please check a box if one or more of the following is requested, if not leave blank:		
Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con	sideration of ar	proval
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	•	•
10		
Siting Criteria (regarding permitting) 19 15 17 10 NMAC Instructions. The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - IWATERS database search, USGS, Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	 	_
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	X NA	∐No
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image		-
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - 1WATERS database search, Visual inspection (certification) of the proposed site		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC								
Instructions Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC								
Tydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 X								
Tryansgeologic State (Temporary and Embergency File) States deposit the 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								
13								
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.								
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15 17 9 NMAC								
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC								
Climatological Factors Assessment								
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19 15 17 11 NMAC								
Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC								
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC								
Quality Control/Quality Assurance Construction and Installation Plan								
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC								
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC								
Nuisance or Hazardous Odors, including H2S, Prevention Plan								
Emergency Response Plan								
Oil Field Waste Stream Characterization								
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)								
15								
Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan.								
Please indicate, by a check mark in the box, that the documents are attached.								
X Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC								
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC								
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 1 of 19 15 17 13 NMAC								
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC								

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16	LToute on Houl off Bins Only (10.15.17.12.D.NIMAC)						
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions Please identify the facility or facilities for the disposal of liquids, drilling	fluids and drill cuttings Use attachment if more than two fa	cilities					
are required	D I For I du Poure 4 #						
Disposal Facility Name	Disposal Facility Permit #						
Disposal Facility Name Disposal Facility Permit #							
Will any of the proposed closed-loop system operations and associated activities occur on oi in areas that will not be used for future service and operations? Yes (If yes, please provide the information No							
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - based upon the appropriat Re-vegetation Plan - based upon the appropriate requirements of Subsec		2					
Site Reclamation Plan - based upon the appropriate requirements of Sub							
17 Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC Instructions Each siting criteria requires a demonstration of compliance in the closure plan K certain siting criteria may require administrative approval from the appropriate district office of for consideration of approval Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided below or may be considered an exception which must be submitted to the S	Santa Fe Environm	ental Bureau office				
Ground water is less than 50 feet below the bottom of the buried waste	uned from peoples well	=	X No				
- NM Office of the State Engineer - iWATERS database search, USGS Data obta	ined from nearby wens	∐N/A					
Ground water is between 50 and 100 feet below the bottom of the buried waste		=	X No				
- NM Office of the State Engineer - (WATERS database search, USGS, Data obtain	ned from nearby wells	∐N/A					
Ground water is more than 100 feet below the bottom of the buried waste		X Yes	No				
- NM Office of the State Engineer - (WATERS database search, USGS, Data obtain	ned from nearby wells	∐N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (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 e - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	Yes	X No					
		Yes	X No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less that purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence of the State Engineer - iWATERS database, Visual inspection (certification).	ence at the time of the initial application						
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended		Yes	X No				
 Written confirmation or verification from the municipality, Written approval obta Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map, Topographic map, Visual insp 	·	Yes	XNo				
Within the area overlying a subsurface mine	ection (certification) of the proposed site	Yes	X No				
- Written confiramtion or verification or map from the NM EMNRD-Mining and M	Ineral Division	L res					
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mi	neral Resources, USGS, NM Geological Society.	Yes	XNo				
Topographic map		_					
Within a 100-year floodplain - FEMA map		∐Yes	X No				
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closure	e plan. Please i	indicate,				
X Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19 15 17 10 NMAC						
String Criteria Compnance Demonstrations - based upon the appropriate requirements of 19 15 17 10 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 dryii		9 15 17 11 NM	AC				
X Protocols and Procedures - based upon the appropriate requirements of			'				
Confirmation Sampling Plan (if applicable) - based upon the appropriate	requirements of Subsection F of 19 15 17 13 NMAC						
X Waste Material Sampling Plan - based upon the appropriate requirement	ts of Subsection F of 19 15 17 13 NMAC						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids a	nd drill cuttings or in case on-site closure standards can	not be achieved	l)				
X Soil Cover Design - based upon the appropriate requirements of Subsect							
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							

Operator Application I hereby certify that the int	<u>Certification:</u> formation submitted with this application is true, a	ccurate and complete to the	ne best of my knowledge and belief
Name (Print)	Crystal Tafoya	Tıtle	Regulatory Technician
Signature	Constal Talaya	Date	10/16/08
e-mail address	crystal tarbya@conocophillipscom	Telephone	505-326-9837
20 OCD Approval: 🗖	Permit Application (including closure plan)	Closure Plan (only	() OCD Conditions (see attachment)
OCD Representative S	ignature:	U	Approval Date:
Title: En	viro /spec	OCD Per	rmit Number:
21	·		
	red within 60 days of closure completion):		
			osure activities and submitting the closure report. The closure ties: Please do not complete this section of the form until an
	been obtained and the closure activities have bee	•	ic i i i i i i i i i i i i i i i i i i
		Closu	re Completion Date:
22		-	
22 Closure Method:			
Waste Excavation	and Removal On-site Closure Method	Alternative Closu	re Method Waste Removal (Closed-loop systems only)
If different from a	pproved plan, please explain		_
23		<u></u>	
	ng Waste Removal Closure For Closed-loop Syst	ems That Utilize Above	Ground Steel Tanks or Haul-off Bins Only:
	ify the facility or facilities for where the liquids, o	drilling fluids and drill cu	ttings were disposed. Use attachment if more than two facilities
vere utilized		Du no al Facil	tu Danat Numbar
Disposal Facility Name Disposal Facility Name		_	ty Permit Numberty Permit Number
•	ystem operations and associated activities perform		
_	demonstrate compliane to the items below)	□No	nor be used for future service and opeartions.
_	areas which will not be used for future service and	l operations	
	Photo Documentation)		
Soil Backfilling ar	d Cover Installation		
Re-vegetation App	olication Rates and Seeding Technique		
24			
Closure Report Att		following items must be a	ttached to the closure report. Please indicate, by a check mark in
	Notice (surface owner and division)		
	otice (required for on-site closure)		
=	site closures and temporary pits)		
Ħ .	mpling Analytical Results (if applicable)		
=	Sampling Analytical Results (if applicable)		
=	Name and Permit Number		
	and Cover Installation		
=	oplication Rates and Seeding Technique		
Site Reclamation	(Photo Documentation)		
On-site Closure	Location Latitude	Longitude	NAD
25			
Operator Closure Cer	tification:		
		•	te and complete to the best of my knowledge and belief I also certify that
	all applicable closure requirements and condition	s specifiea in the approved	источне рип
Name (Print)		Title	
Signature		Date	
e-mail address		Telephone	

New Mexico Office of the State Engineer POD Reports and Downloads

Townsl	hip: 27N	Range: 11	N Sectio	ns:		
NAD27	X:	Y:	Zone	: []	Search Radius:	
County:	5 n y	Basin:			Number:	Suffix:
Owner Name: (F	irst)		(Last)	1	O Non-Domestic	O Domestic
<u></u>	POD/Su	face Data Re	port		to Water Report	
	[Clear Form	. iWATI	ERS Menu	Help	
port and			WATER COL	UMN REPORT	10/15/2008	
POD Number	-		2=NE 3=SW est to sma qqq Zor	llest)	Depth Y Well	Depth Wate Water Colum

Record Count: 2

SJ 01787

SJ 00077

27N 11W 07 2 2

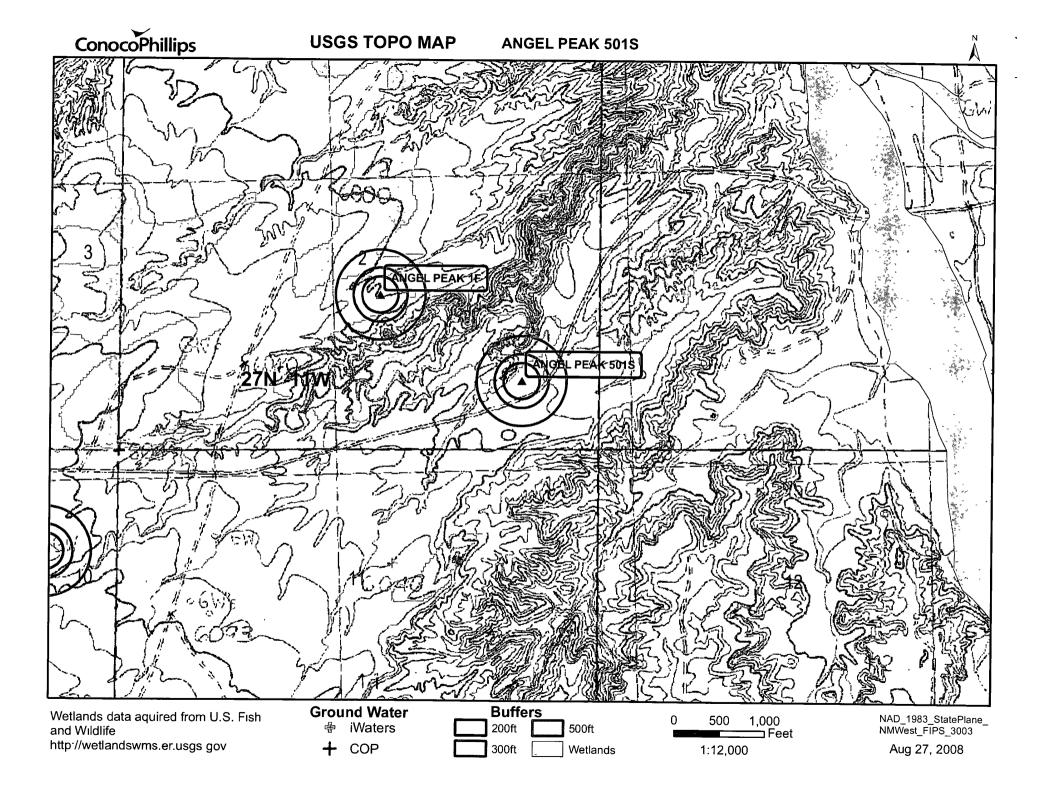
27N 11W 26 2 1 3

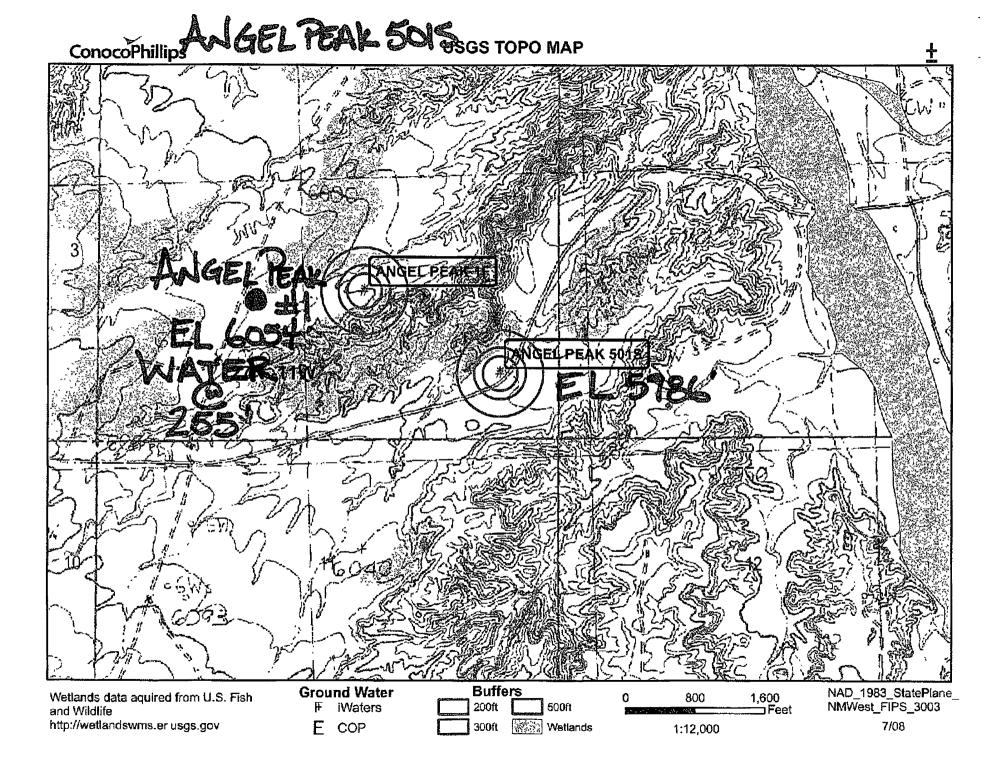
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. 30-045-06792

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit SW Sec. 2 Twp 27 Rng 11
Name of Well/Wells or Pipeline	Serviced ANGEL PEAK #1
	cps 874w
Elevation 6054 Completion Date 5/	28/71 Total Depth 455' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amou	ints & types used N/A
	re been placed, show depths & amounts used
N/A	
Depths & thickness of water zone	es with description of water when possible:
Fresh, Clear, Salty, Sulphur, Et	.c. <u>255'</u>
Depths gas encountered: 185'	
Type & amount of coke breeze use	d: 66 SACKS
Depths anodes placed: 410', 400',	390', 355', 345', 335', 325', 315', 305', 295'
Depths vent pipes placed: N/A	RECEIVED
Vent pipe perforations: N/F	MAY9 7 100.
Remarks: Qb #1	OIL CON DIV
	DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

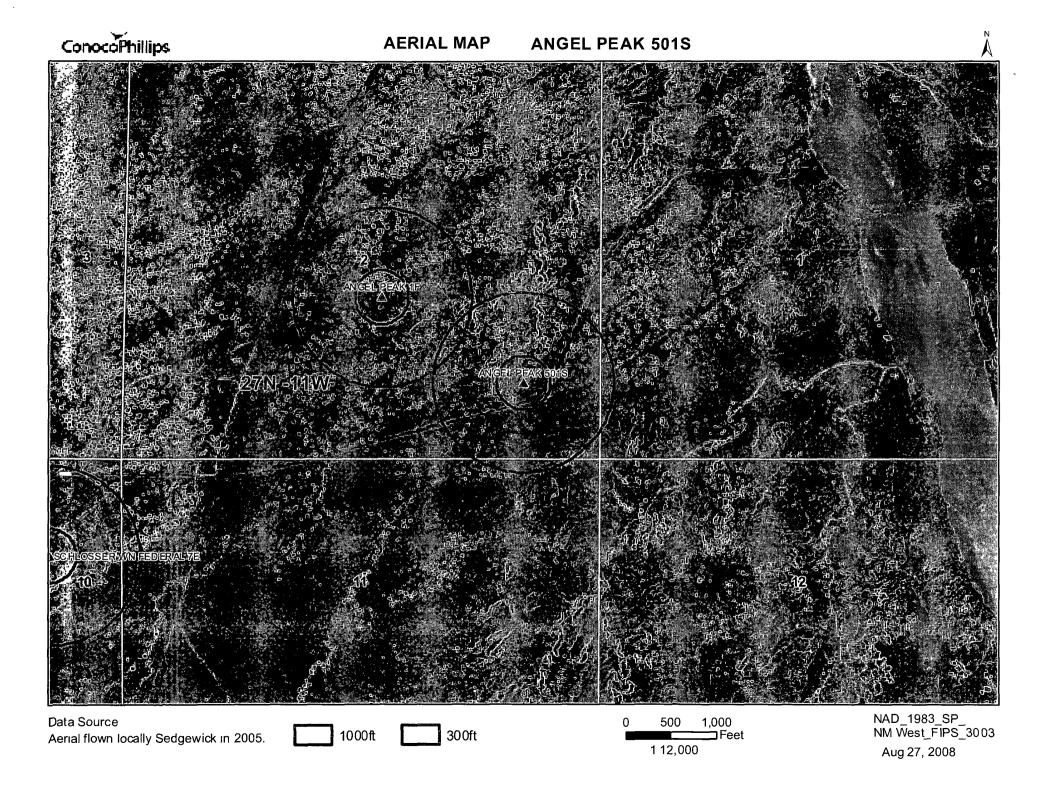
^{*}Land Type may be shown: F-Federal; I-Indian; S-State: P-Fee. If Federal or Indian, add Lease Number.

El Paso Natural Gas Company Form 7-238 (Rev. 1-69)

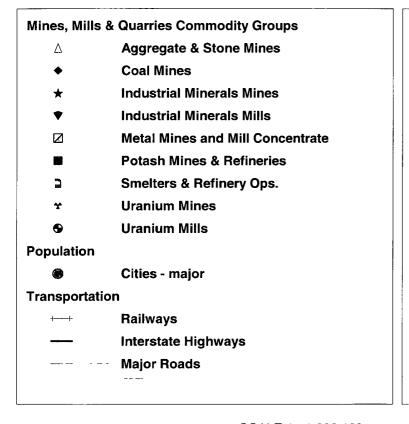
WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

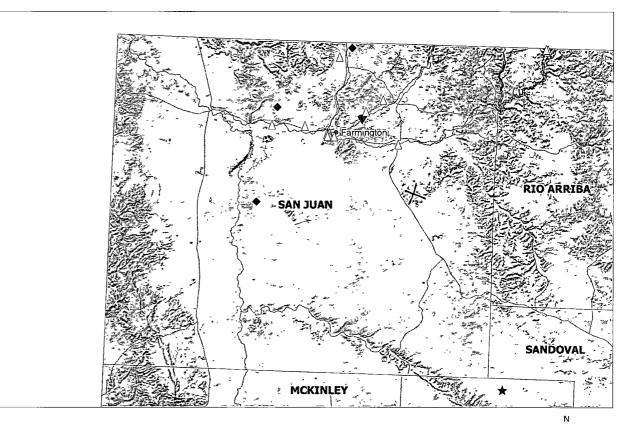
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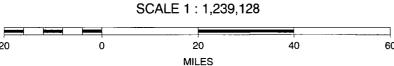
			TO SERVE		<i>C.)</i>			A CONTRACTOR CONTRACTOR
Drilling Log (Attach Herei	ю). <u> </u>				С	ompletion Dat	ie 5/29	3/2/_
Well Name		Dø	avon _		V-127	CPS No.		<u>-</u>
ANgel Pear	<u>k</u> #1	<u> </u>	2-27	'-//			874 V	V
Type & Size Bit Uned						Work Order		
Anode Hole Depth	Total Drilling Ric	Time To	otal Lbs. Coke U	sed Lost Circ	culation Mat'l Us	sed No. Sacks h		
Anode Depth	- I		i	<u> </u>	T	T	 	
#1 4/0 #2 400	2 = 3 390	1=4 355	1 5 345	# 6 335	#7315	28 3/5	49305	# 10 295
Anode Cutput (Amps) # 1 7. 9 # 2 4. 9	9 #3 4.3	v a 3,4	× 5 3.2	# 6 3.8	=7 4.6	±8 4,7	E9 3.7	# 10 3. >
Anode Depth	# 13	 	1 3 _{N-1} E	# 16	 	 	1	1
Anode Output (Amps)	1	# 14	# 15	F 16	# 17	# 18	# 19	# 20
# 11 # 12	i# 13	# 14	l# 15	# 16	# 17	# 18	i≉ 19	# 20
Total Circuit Resistance Volts / 2 An	mps 16) Ohms	.75	No. 6 C.P. Cat	ole Used	-	No. 2 C.P. Cci	ole Used
Remarks: 5ta,	lie R9	\$ 600	AM	0.82				, , , , , , , , , , , , , , , , , , ,
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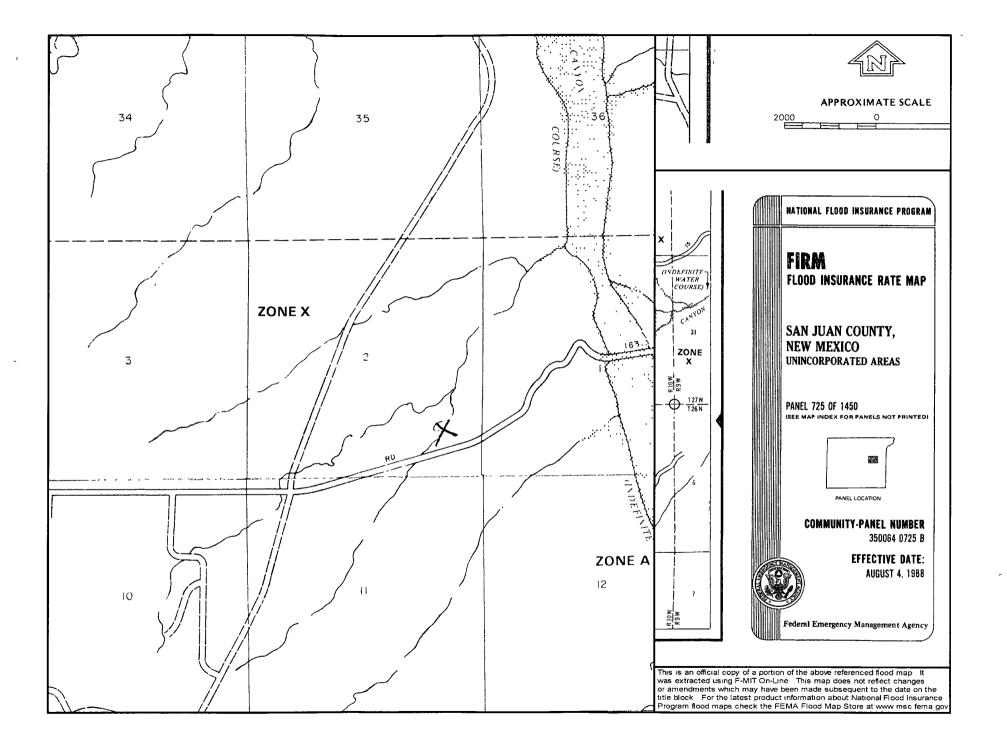
Angel Peak 501S Mines, Mills and Quarries Web Map











Hydrogeological Report for Angel Peak 501S

Regional Geological context:

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

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

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

Hydraulic Properties:

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

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

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper

552, 101 p.

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

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

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p.

Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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



ConocoPhillips Company GRFS / PTRRC – San Juan Business Unit Mary Kay Cornwall 3401 East 30th Street Farmington, NM 87402 Telephone: (505) 326-9597

Telephone: (505) 326-9597 Facsimile. (505) 324-6136

August 4, 2008

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED 7110-6605-9590-0026-0913

Navajo Regional Office Real Estate Department Attn: Bertha Spencer PO Box 1060 Gallup, NM 86515

Subject:

Angel Peak 501S

SE Section 02, T27N, R11W San Juan County, New Mexico

Dear Ms. Spencer:

Pursuant to Paragraph 1 (b) of Subsection F of 19.15.17.13 NMAC, an operator shall provide the surface owner notification of the operator's proposal to close a temporary pit on-site in compliance with the on-site closure methods specified in the same Subsection of the NMAC. In compliance of this requirement, please consider this notification of ConocoPhillips' intent to close the temporary pit on the above referenced location.

If you have any questions, please contact Steven Gillette @ (505)326-9883.

Sincerely,

Mary Kay Cornwall

Mary Kay Cornwall Staff Associate, PTRRC

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Angel Peak 501S 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 Angel Peak 1 has an elevation of 6054' and groundwater depth of 255'. The subject well has an elevation of 5986' which is slightly less than the Angel Peak 1, 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 Nacimiento formation will create a stable area for this new location.

DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT IN 1000 Rio Brazos Rd., Aztec, N.M. 87410 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

MENDED REPORT

DISTRICT IV

- 2-	Number			*Pool Code	,		⁵ Pool Nam	ne	
*Property Co	de		<u>L</u>		*Property ANGEL I				
70GRID No.	·		*Operato BURLINGTON RESOURCES O			rator Name Elevation 5 OIL & GAS COMPANY LP 5986			
			·		10 Surface	Location	· · · · · · · · · · · · · · · · · · ·		·
t or lot nó. P	Section 2	Township 27-N	Rango 11—W	Lot Idn	Feet from the 790	North/South line SOUTH	Feet from the 845	East/West line EAST	County SAN JUAN
 ;		I,	1 Botte	om Hole	Location	If Different F	rom Surface		<u> </u>
L or let no.	Section	Township	Ronge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		1 199. _U	oint or Infill	<u> </u>	¹⁹ Consolidation (Code	¹⁹ Order No.	1	
LOT 4		ĽO	т 3		LOT 2	ĽOT 1	true and con	My that the Information o splete to the best of my	ontoined herein is knowledge and bellef
	t					FD ,GLO 19		ന്നും	
				M-020495	186' N. (NAD	071	i hereby cor was plotted or under in	SURVEYOR CE tify that the well foom from field notes of act y supervision, and that he heart of my bellet.	ion shown on this pi

S 89'54'08" ₩ 2649.9' (M)

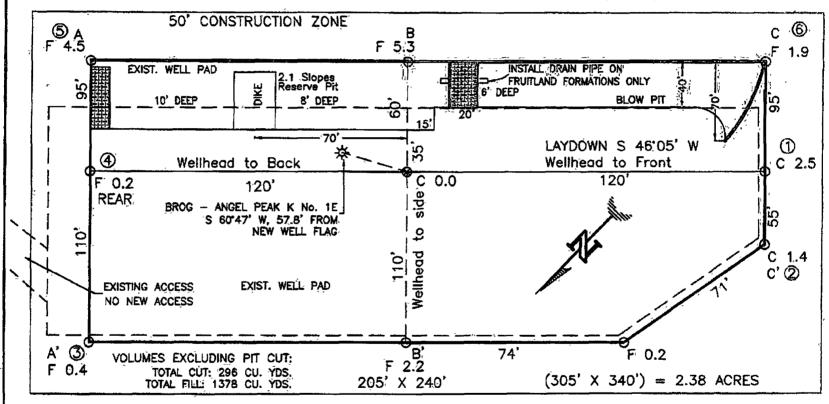
BURLINGTON RESOURCES OIL & GAS COMPANY LP

ANGEL PEAK No. 501S, 790 FSL 845 FEL

SECTION 2, T-27-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 5986, DATE: NOVEMBER 28, 2005

LATITUDE: 36°35.9486' N (NAD 27) LONGITUDE: 107°57.9893' W (NAD 27)



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS—SECTION SHOWN ...

· EXCAVATION OR CONSTRUCTION.

-:

NOTE: 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.



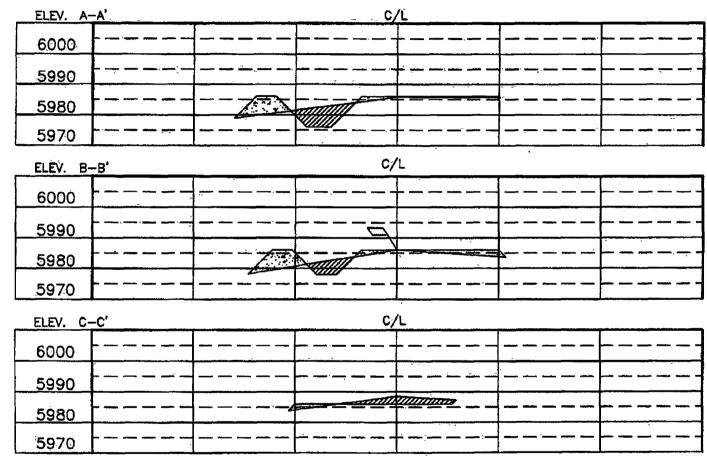
BURLINGTON RESOURCES OIL & GAS COMPANY LP

ANGEL PEAK No. 501S, 790 FSL 845 FEL

SECTION 2, T-27-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

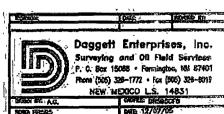
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NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR LUNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



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.

- 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.
- 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.

- 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.
- 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.
- 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:
 - ı. 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
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

Percent PLS

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

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.

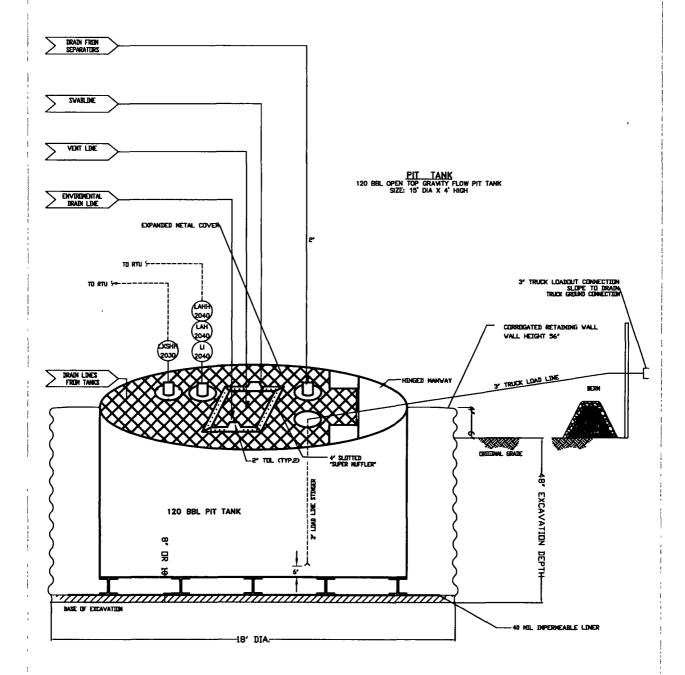
- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 3. BR shall construct fencing around 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
ENVIRONENTAL DRAIN LINE
FROM COMPRESSOR SKID

AUTOMATED OPERATION
VENT VALVE DRAIN LINE
DUMP LINE FROM SEPARATORS



ConocoPhillips

San Juan Business Unit

DUMSMAN

BOBSOLF

PROPERTIES	TIEST METHOD	J3	OEB//	. J36	33.7	J45	33, 1
		Mın 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 mıl
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 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
17 Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid/Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0 5	<1	<0 5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F	180° F	180° F	180° F	180° F	180° F
Minimum Use Temperature		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

INDUSTRIES

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 Basın 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 belowgrade 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.

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- 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.
- 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