<u>District I</u>

1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Ave., Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

June 16, 2008 or temporary pits, closed-loop sytems, and below-grade

Form C-144

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

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

# Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

	thry should operations result in pollution of surface water, ground water or the
perator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
ddress PO Box 4289, Farmington, NM 87499	KCAN JOF & AF
acility or well name: Leo Manning #100	071 0000 000
.PI Number: 30-045-34628 OC	D Permit Number.
/L or Qtr/Qtr: P (SESE) Section: 11 Township: 29N	Range: 11W County: San Juan
enter of Proposed Design: Latitude: 36.73552'N L	ongitude: 107.95515' W NAD: 1927 X 1983
urface Owner: X Federal State Private Triba	al Trust or Indian Allotment
X Pit: Subsection For G of 19.15.17.11 NMAC	Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: X Drilling Workover	Drying Pad Tanks Haul-off Bins Other:
Permanent Emergency X Cavitation	Lined Unlined
X Lined Unlined	Liner type: Thickness mil LLDPE HDPF PVC
Liner type: Thickness 20 mil X LLDPB HDPE PVC	Other:
Other String-Reinforced	Seams: Welded Factory Other:
Seams: X Welded X Factory Other	Volume: bblyd3
Volume: 7000 bbl Dimensions: L 120' xW 55' xD 12'	Dimernsions: Length x Width
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume: 120 bbl	Chain link, six feet in height, two strangs of barbed wire at top
Type of fluid: Produced Water	Four foot height, four strands of bailed wire evenly spaced between
Tank Construction Material: Metal	one and four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11
X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	X Screen Netting Other
Visible sidewalls and liner	Monthly inspections
Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC
Other:	12"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness: 60 mil X HDPE PVC	emergency telephone numbers
Other:	X Signed in compliance with 19.15.3.103 NMAC
Alternative Method:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be	Justifications and/or demonstrations of equivalency are required. Please
submitted to the Santa Fe Environmental Bureau office for consideration	refer to 19.15.17 NMAC for guidance.
of approval.	Please check a box if one or more of the following is requested, if not leave blank:
	X Administrative approval(s): Requests must be submitted to the
	appropriate division district or the Santa Fe Environmental Bureau
	office for consideration of approval. (Fencing in Design Plan)  Exception(s): Requests must be submitted to the Santa Fe

Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each string 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	X No					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	□Yes	X No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo					
(Applies to temporary, emergency, or cavitation puts and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo: Satellite image	□NA						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)	☐ Yes <b>X</b> 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	Yes	XNo					
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	∐ res	[X]IVO					
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality: Written approval obtained from the municipality	Yes	XNo					
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	X No					
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□Yes	X No					
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	X No					
Within a 100-year floodplain	Yes	XNo					
- FEMA тар							
Temporary Pits, Emergency Pits, and Below-grade Tunks 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 de-	ocunents ar	e 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 Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   X   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	NMAC						
Previously Approved Design (attach copy of API Number. or Permit							
Closed-koop 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 (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 Nt 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 - 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 API Number:							

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							
	<u> </u>						
Proposed Closure: 19.15.17.13 NMAC							
Type: X Drilling Workover Emergency Cavitation Permanent Pil X Below-grade Tank Closed-loop System Altern	native						
Proposed Closure X Waste Excavation and Removal (Below-Grade Tank)							
X   Waste Excavation and Removal (Behav-Grade Talik)   X   On-site Closure Method (only for temporary pits and closed-loop							
X  In-place							
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau fo	nr						
Siting Criteria (regarding on-site clasure methods only): 19.15.17.10 NMAC							
Instructions: Each string criteria requires a demanstration of compliance in the closure plan. Recommentations of acceptable source waterial							
are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered on exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
Justification undfor demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.							
Ground water is less than 50 feet below the bottom of the buried waste.	☐Yes ☐No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	XINA						
Ground water is between 50 and 100 feet below the bottom of the buried waste	X Yes No						
- NM Office of the State Engineer - iWATERS database serach; USGS; Data obtained from nearby wells  Ground water is more than 100 feet below the bottom of the buried waste.	∐NA □V□N-						
- NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	Yes No						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakehed, sinkhole, or playa lak	XNA Yes XNo						
(measured from the ordinary high-water mark)	Lies Aire						
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						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic	Yes X No						
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.  NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site							
· ·							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinaries adopted pursuant to NMSA 1978. Section 3, 27, 3, as arranged	Yes X No						
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							
Within 500 feet of a worland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed							
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	∐Yes X No						
Within an unstable area.	Yes X No						
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>							
· · · · · · · · · · · · · · · · · · ·							
Within a 100-year floodplain - FEMA map	Yes X No						
- PENKA IIII)							

to the closure plan. Please indicfate, by a check mark in the box, that the documents are	MAC) Instructions: Each of the following items must be attached attached.						
Protocols and Procedures - based upon the appropriate requirements of 19 15.17.13 NMAC							
Confirantion Sampling Plan (if applicable) - based upon the appropri	ate requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Faculty Name and Permit Number (for liquids, drilling fluid							
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subs	·						
Site Reclamation Plan - based upon the appropriate requirements of S							
Waste Removal Closure for Closed-loop Systems That Utilize Haul-off facilities for the disposal of liquids, drilling fluids and drill coalings.	Bins Only: (19 15.17.13 D NMAC) Instructions: Please identify the facility or						
Disposal Facility Name:	Disposal Facility Permit Number.						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the check mark in the box, that the documents are attached	e following items must bee attached to the closure plan. Please indicate, by a						
X Siting Criteria Compliance Demonstrations - based upon the appropri	ate requirements of 19.15.17.10 NMAC						
Proof of Surface Owner Notice - based upon the appropriate requirem	nents of Subsection F of 19.15.17.13 NMAC						
Construction and Design of Burial Trench (if applicable) based upon	'						
Protocols and Procedures - based upon the appropriate requirements of							
<ul> <li>X Confirmation Sampling Plan (if applicable) - based upon the appropri</li> <li>X Waste Material Sampling Plan - based upon the appropriate requirem</li> </ul>	·						
Waste Material Sampling Plan - based upon the appropriate requirem     Disposal Facility Name and Permit Number (for liquids, drilling fluid)							
X Soil Cover Design - based upon the appropriate requirements of Subs							
X Re-vegetation Plan - based upon the appropriate requirements of Subs	<b>;</b>						
X Site Rectamation Plan - based upon the appropriate requirements of S							
Operator Application Certification:							
I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and belief.						
Name (Print): Crystal Tafoya	Title: Regulatory Technician						
Signature: Intal Talaya	Date. 7/8/2008						
e-mail address: crystaltafoya@conocobiiths.com Telephone: 505-326-9837							
	Ciosule Man (only)  Approval Date: 7/8/08						
OCD Representative Signature: Standon Someth	• •						
OCD Representative Signature: Branchon Coursell	Approval Date: 7/8/8						
OCD Representative Signature: Brandon Somell Title: Enviro/Spec	Approval Date: 7/8/8						
OCD Representative Signature: Brandon Somell Title: Enviro/Spec	Approval Date: 7/8/8  OCD Pennii Number:						
OCD Representative Signature: Branchon Foundation:  Title: En J. Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure	Approval Date: 7/8/8  OCD Pennii Number:						
OCD Representative Signature: Srandon Samell  Title: Enviro   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure At	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Standar Sound!  Title: Fn Ji Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure All  If different from approved plan, please explain  Closure Report Alluciment Checklist: Instructions: Each of the following item	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation:  Title: En J. Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affactment Checklist: Instructions: Each of the following itembax, that the documents are attached.  Proof of Closure Notice	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation:  Title: En J. Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waske Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affordment Checklist: Instructions: Each of the following item bas, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation:  Title: En J. Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waske Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affordment Checklist: Instructions: Each of the following item bas, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation:  Title: En J. Co   Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waske Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affordment Checklist: Instructions: Each of the following item bas, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation: Title: Finding Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affordment Checklist: Instructions: Each of the following itembra, that the documents are anached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Pacility Name and Permit Number Soil Backfilling and Cover Installation	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature: Branchen Foundation: Title: Finding Spec  Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure All If different from approved plan, please explain  Closure Report Affordment Checklist: Instructions: Each of the following itembra, that the documents are anached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Pacility Name and Permit Number Soil Backfilling and Cover Installation	Approval Date: 7/8/8  OCD Permit Number:						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:  AP.13 NMAC  Closure Completion Date:  ternative Closure  ternative Closure  is must be attached to the closure report. Please indicate, by a check mark in the						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:  IT.13 NMAC Closure Completion Date:  ternative Closure  ternative Closure  Iternative Closure  Longitude: NAD: 1927 1983  Dec. accounce and complete to the best of my knowledge and belief. It also certify that the						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:  APPROVAL Date: 7/8/8  OCD Permit Number:  APPROVAL Date: 7/8/8  OCD Permit Number:  Iternative Closure  ternative Closure  ternative Closure    Approval Date: 7/8/8    Approval Dat						
Closure Report (required within 60 days of closure completion): Subsection K of 19.15  Closure Method:  Waste Excavation and Removal On-Site Closure All If different from approved plan, please explain  Ctosure Report Attachment Checklist: Instructions: Each of the following itembax, that the documents are anached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Pacility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Latitude.  Operator Closure Certification: thereby certify that the Information and anachments submitted with this closure report is to closure compiles with all applicable closure requirements and conditions specified in the applicable with the applicable closure requirements and conditions specified in the applicable Priory:	Approval Date: 7/8/8  OCD Permit Number:  Iternative Closure  ternative Closure  ternative Closure  Iternative Closure  Iterna						
OCD Representative Signature:	Approval Date: 7/8/8  OCD Permit Number:  APPROVAL Date: 7/8/8  OCD Permit Number:  APPROVAL Date: 7/8/8  OCD Permit Number:  Iternative Closure  ternative Closure  ternative Closure    Approval Date: 7/8/8    Approval Dat						

# New Mexico Office of the State Engineer POD Reports and Downloads

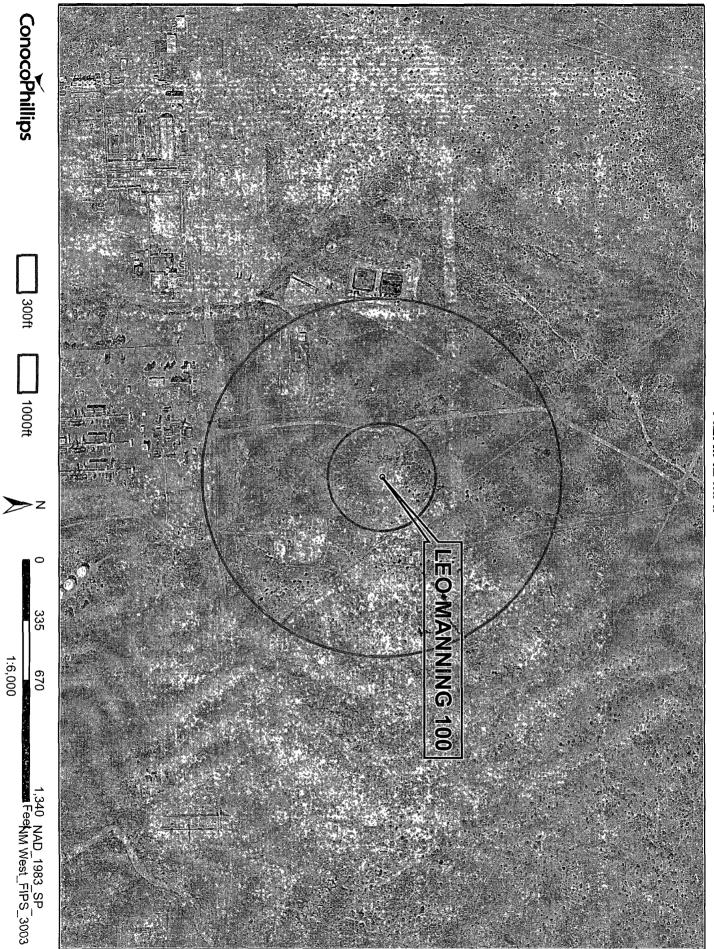
Township:	29N F	Range: 11	W Sections:	1,2,3,10,11	,15,14,12,13	
NAD27 X:		Y:	Zone:		Search Radius:	
County:	Z	Basin:			Number:	Suffix:
Owner Name: (First)			(Last) All		O Non-Domestic	ODomestic
POI		ce Data Re	Water Column Re	eport	to Water Report	

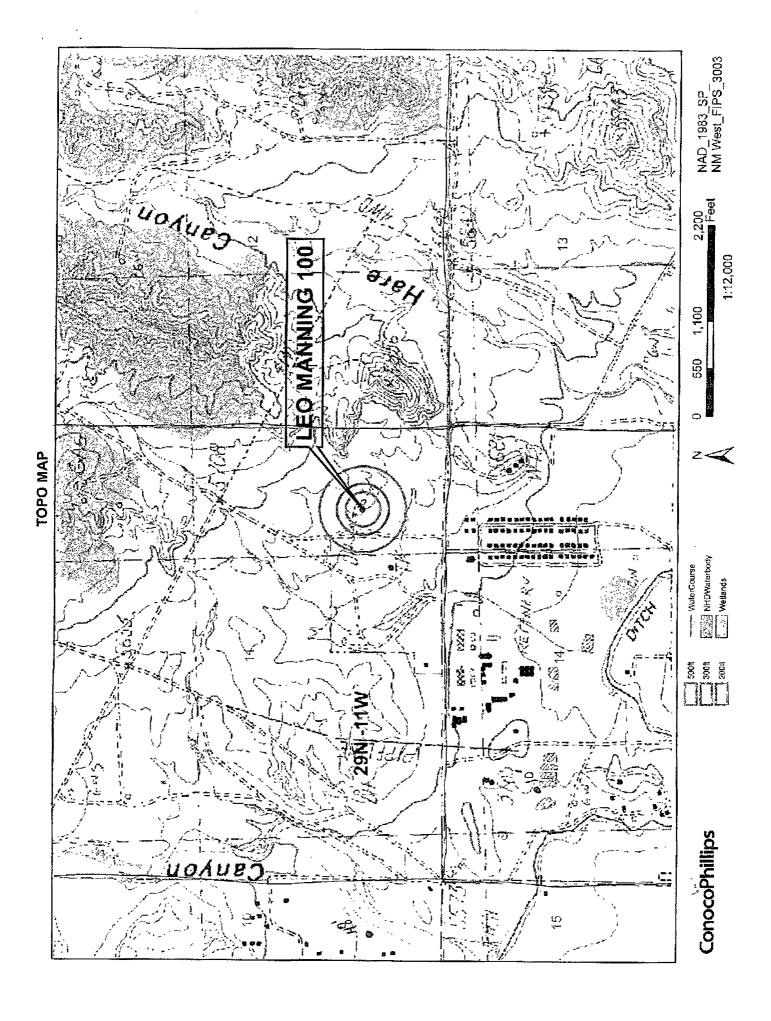
#### WATER COLUMN REPORT 07/08/2008

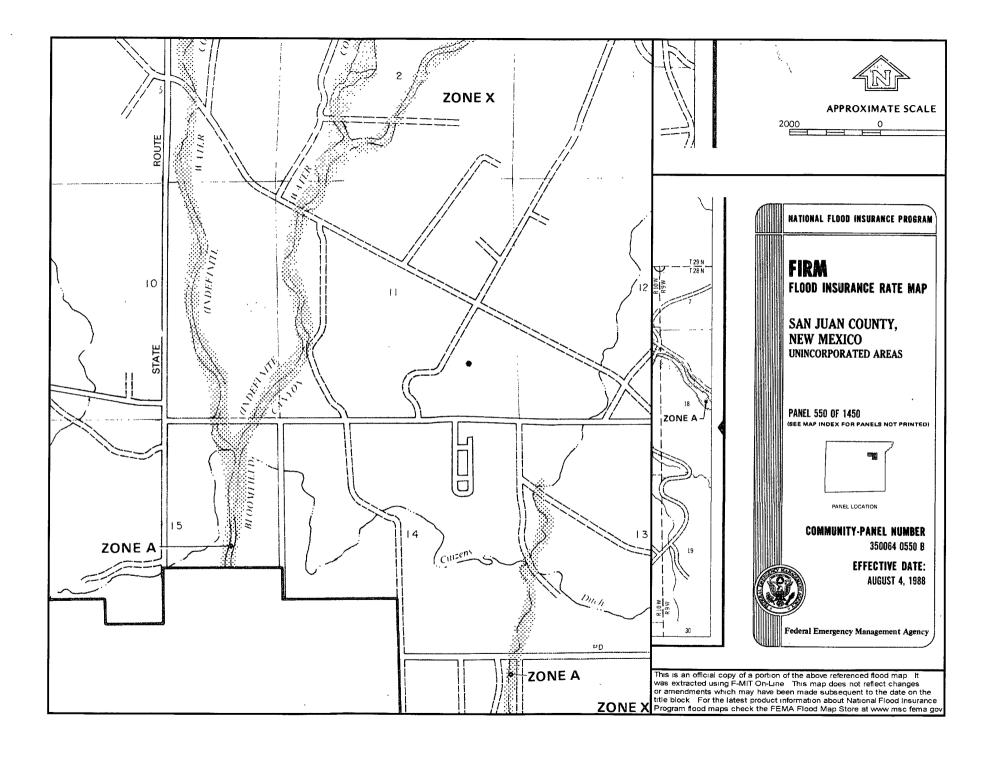
# (quarters are 1=NW 2=NE 3=SW 4=SE)

( qu	ıarter	s are	pro	3ge	et	to	smallest)			Depth	Depth	Wate
POD Number	Tws	Rng	Sec	đ	đ	q	Zone	x	Y	Well	Water	Colum
SJ 01851	29N	11W	10	4	4					125	48	7
<u> ទ្ធប្រ 02466 ទ</u> ្ធ	29N	11W	11	4	3	3				65		
SJ 02466	29N	11W	11	4	3	3				66		
SJ 02991	29N	11W	13	3	4	2				60		
SJ 03136	29N	15W	13	3	4	4				20		
SJ 00987	29N	11W	13	4						415	300	11
SJ 01426	29N	11W	14	1.	4					155	10	14
SJ 00007	29N	11W	14	2	2	3				752		
SJ 03550	29N	11W	14	3	2	1				10		
SJ 01774	2931	11W	14	3	4	2				82	6	5
SJ 03360	29N	11W	14	3	4	2				40		
SJ 03175	293	3. J.W	1.4	4	2	1				60	24	3
SJ 03164	29N	11W	1.4	4	2	1				75	56	1
SJ 03733 POD1	29N	11W	15	4	2	1				64	20	4
SJ 02378	29N	11W	15	4	3	2				75	12	€
SJ 03579	29N	11W	15	4	4	1				83	30	<u>r</u>

Record Count: 16





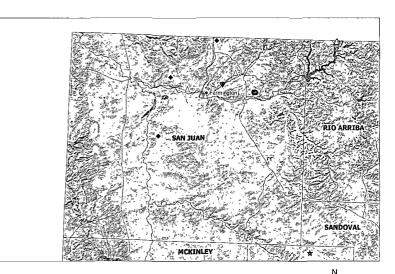


# **Siting Criteria Compliance Demonstrations**

The Leo Manning #100 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

# Leo Manning #100 Mines, Mills and Quarries Web Map

Mines, Mil	ls & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
•	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
	Smelters & Refinery Ops.
*	Uranium Mines
•	Uranium Mills







# Hydrogeological report for Leo Manning #100

### **Regional Geological context:**

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

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

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

#### **Hydraulic Properties:**

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

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

### **References:**

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

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

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25<sup>th</sup> 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.

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# Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Wednesday, July 02, 2008 12:40 PM

To:

'mark\_kelly@nm.blm.gov'

Cc: Subject: 'brandon.powell@state.nm.us' OCD Pit Closure Notification

The Leo Manning #100 will have a temporary pit that will be closed on-site. The new OCD Pit Rule 17 requires the surface owner be notified of the closure since it is on-site. Please feel free to contact me at any time if you have any questions.

Thank you,

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

Email: Crystal.Tafoya@conocophillips.com

DISTRICT | 1825 N. French Pr., Hobbe, M.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

obernice il 1301 S. Grand Associa, Actualo, N.M. 80210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 67505

Submit to appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

PISTRICT III
1900 Eto Brazon Rd., Astec, N.M. 87410

DISTRICT IV 1280 S. St. Francis Dr., Santa Pe, MM 87505

☐ AMENDED REPORT

MEL	L LOCATION	AND	ACREAGE	DEDICATION	PLAT
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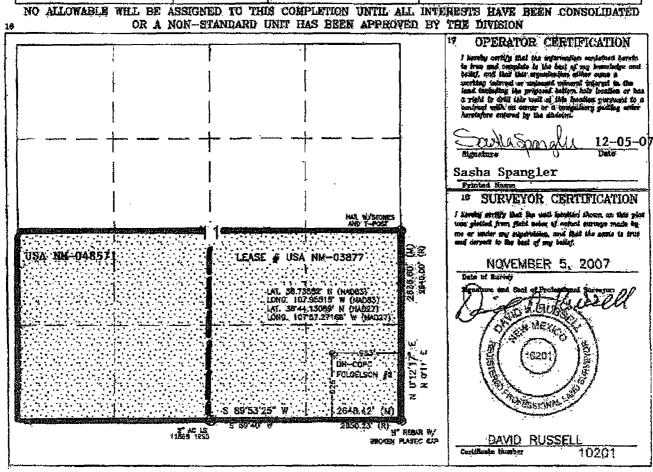
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14538	BURLINGTON RESOURCE	S OIL AND GAS COMPANY LP	5665					

10 Surface Location

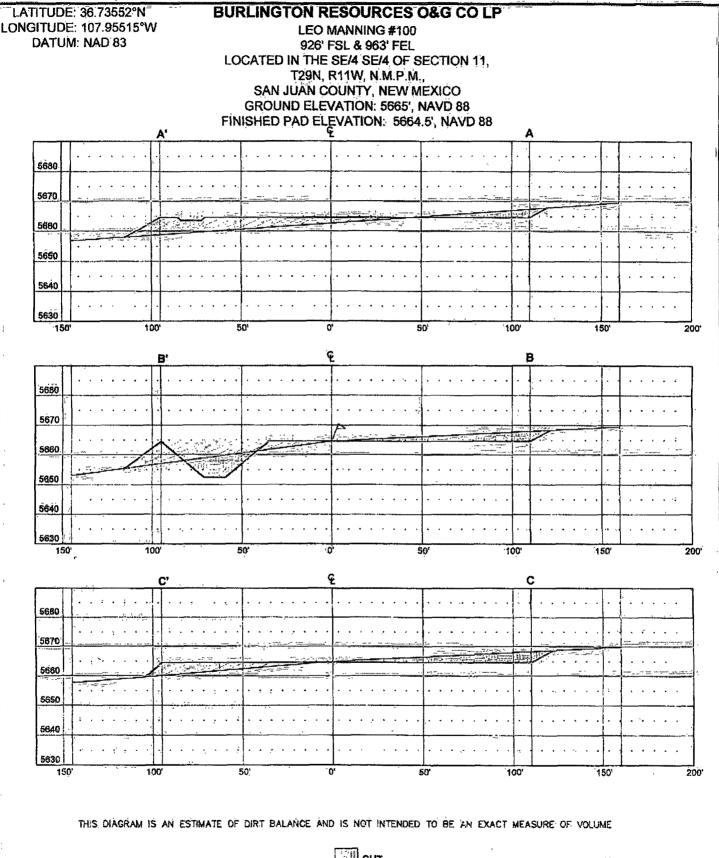
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LATITUDE: 36,73552°N **BURLINGTON RESOURCES O&G CO LP** LONGITUDE: 107.95515°W LEO MANNING #100 DATUM: NAD 83 926' FSL & 963' FEL LOCATED IN THE SE/4 SE/4 OF SECTION 11. SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS T29N, R11W, N.M.P.M., AS CLOSE AS POSSIBLE. SAN JUAN COUNTY, NEW MEXICO 60' **GROUND ELEVATION: 5665, NAVD 88** FINISHED PAD ELEVATION: 5664.5', NAVD 88 SCALE = 60' B'F+7.5 12' Deep <u>Pit Location</u> Lat. 36.7351033°N 0 RIG ANCHOR Long. 107. 9552778°W NAD 83 REAR LAYDOWN C-0.3 Wellhead to back Wellhead to front 120' N 63°29'10" W 120' DRY HEAD FOGELSON #2 F+2.0 RIG ANCHOR 0 RIG ANCHOR C-3.4 EXISTING PAC NOTE: 305' x'340' =2,38 ACRES OF DISTURBANCE Russell Surveying RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' MIDE 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 1409 W. Aztec Blvd. #2 SCALE: 1" = 60' JOB No.: COPC122 Aztec, New Mexico 87410 CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR (505) 334-8637 DATE: 11/20/07 TO CONSTRUCTION.



VERT. SCALE: 1" = 30' HORZ SCALE: 1" = 60' JOB No.: COPC122 DATE: 11/20/07





Rússell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (508) 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.

- BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences 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 1 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 the same 20 mil 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 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.
- 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 or workover 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 or workover 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.
- 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 as per the approved closure plan using 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 to the Aztec Division office between 72 hours and one week of closure 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 a licensed disposal facility.
- 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	<del>1000</del> (500)

9. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

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	500			

- 10. 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.
- 11. 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.
- 12. 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
- 13. 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.
- 14. Notification will be sent to OCD when the reclaimed area is seeded.
- 15. 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.

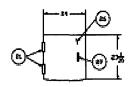
Forest Service Seed Mix	Variety	Pounds/Acre		
Indian ricegrass	Paloma	1.0		
Western wheatgrass	Arriba	2.0		
Blue Gramma	Hacheta or Alma	1.0		
Antelope Bitterbrush	Unknown	.10		
Four-wing saltbush	Unknown	.25		
Pubescent wheatgrass	Luna	2.0		
Intermediate wheatgrass	Oahe	2.0		
Small burnet	Delar	1.0		

16. 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.

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## 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 BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. BR will use the general location sign posted on location. If no general sign is posted a separate sign at the location of the BGT will be provided.
- 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 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.
- BR shall equip below-grade tanks designed in this manner with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
- 10. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to

ultraviolet light. Liner compatibility shall comply with EPA SW-846 method

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

9090A.

document.

# 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 Pit (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 prevent contamination of fresh water and protect public health and environment.
- 2. BR shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 3. 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.
- 4. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 5. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

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

In accordance with Rule 19.15.17.12 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 an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144
- 4. 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.
- 5. BR shall 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.
- 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.
- 7.—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.

- 8. 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.
- If contamination is confirmed by field sampling. BR will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating contaminants identified
- 10. 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.
- 11. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure 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.
- 12. 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:
  - Details on Capping and Covering, where applicable.
  - Inspection Reports
  - Sampling Results
- 13. 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.
- 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 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.

- 15. 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.
- 16. The surface owner shall be notified of BR's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.