Received by OCD: 11/19/2021 9:14:26 AM

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

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

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

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

Type of anti-	The state of the s
Type of action:	X Permit of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, below-grade took, or assessing to the control of a pit, closed-loop system, and closed-loop sys
	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
BGT 1	Modification to a service method
DO1 1	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative mostly to
	halome plant only submitted for an existing permitted or non-permitted pit, closed-loop system
	below-grade tank, or proposed alternative method
ease submit one a	pplication (Form C 144)

Instructions: Pl plication (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to o

1	le governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	14556
Facility or well name: HUERFANITO UNIT 48	
API Number: 3004513239 OCD Permit Numb	nor:
U/L or Qtr/Qtr: L Section: 26 T1:	
Center of Proposed Design: Latitude: 36.54263°N Longitude:	9W County: San Juan
Surface Owner: X Federal State Private Tribal Trust or India	
2	iii Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A	
Lined Unlined Line	
String-Reinforced LLDPE	HDPE PVC Other
Liner Seams: Welded Factory Other Volume:	
Volume:	bbl Dimensions Lx Wx D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to a notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Linet Unlined Liner type: Thickness mil LLDPE Hill	activities which require prior approval of a permit or DPE PVD Other
Chief Seams: Welded Factory Other	
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120	
Tank Construction materials	
Second Victal	
Visible sidewalls and liner Visible in the Visible in the line and autom	natic overflow shut-off
Liner Type: Thickness Visible sidewalls only Other	
	specified
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environment	ental Rureau office for consist
Form C 141	of approval.

Oil Conservation Division

Page 1 of 5

ived by OCD: 11/19/2021 9:14:26 AM	Page 2
Fencing: Subsection D of 19.15-17-11 NMA tes to permanent pit, temporary pits, and below grade tanks,	
Chain lonk, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school Four foot height, four strands of barbed wire evenly spaced between one and four terms.	
Four foor height, four strands of barbed wire evenly spaced between one and four feet	ol, hospital, institution or church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
7	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
X Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
X Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
rease theth a box if one or more of the following is requested, if not leave blank.	
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau o	
(Fencing/BGT Liner)	ffice for consideration of approval.
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 of	
appropriate district office or may be considered an average and the string criteria may require administrative approval from the	
consideration of approval Applicant must be submitted to the Santa Fe Environmental Bureau Office &	
Applicant must attach justification for request. Please refer to 19 15 17 10 NALLOS	<i>yr</i>
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Oil Conservation Decision

Page 2 015

	Temporary Pite Faces DV
	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), beyond upon the
	and Emergency (185) - Dased upon the requirements of Dass and 1922 and
	Demonstrations - Dascu upon the appropriate requirements of 10 15 17 10 xxxx
	1 Sengir Fiant 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 NAA-G
	Crostic Flatt (Ficase complete Boxes 14 through 18 if applicable)
	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
	Previously Approved Design (attach conv. 6.1.
	Previously Approved Operating and Maintenance Plan API API
	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Parameter (D. 68) in the control of the property of o
	Compliance Demonstrations - based upon the appropriate requirement
	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
	and Structural integrity Design, based mon the appropriate
	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.
	Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Nuisance or Hazardous Odors, including H2S. Programme Plan
	Total meriding 1125, Frevention 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: Drilling Western Dr.
	Alternative Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
I	Proposed Closure Method: Viven F
I	Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
l	On-site Closure Method (only for temporary pits and closed-loop systems)
l	Un-place Burial On-site Trench
L	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. [V] Protocole and D. Pr
	Tridase indicate, by a check mark in the box, that the documents are attached. X Protocols and Procedures - based upon the approach to the closure plan.
	odscu upon the appropriate requirements of 10 15 17 12 No. 1
	Continuation Sampling Plan (If Applicable) - based upon the appropriate
	X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications of the state of the
	and Cover Design Specifications - based upon the appropriate requirement of a transfer of the contract of the
_	X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

[n				
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15.17.13 D. Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. The residues of the disposal of liquids.				
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more are required.	NMAC) than two facilities			
Disposal Facility Name: Disposal Facility Name: Disposal Facility Name:				
Disposal Facility Name: Disposal Facility Permit #: Disposal Facility Permit #:				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for No	future service and operations?			
Required for impacted areas which will not be used for future comics and				
Backilli and Cover Design Specification - based upon the				
Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.1 Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	3 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC				
17 Siting Criteria (Regarding on-site closure math.)				
certain stung criteria may require a demonstration of compliance in the closure plan. Recommendations of acceptable source material are prov for consuleration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	uded below. Requests regarding changes to ted to the Santa Fe Environmental Bureau office			
Ground water is less than 50 feet below the bottom of the buried waste				
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	Yes No			
Ground water is between 50 and 100 feet below the bottom of the buried waste	∐N/A			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No			
Ground water is more than 100 feet below the bottom of the buried water	∐N/A			
- 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	∐N/A			
(measured from the ordinary high-water mark). Topographic map: Visual investigations of the control of the con	Yes No			
Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent analysis.				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring in existence at the time of the control of the contro	Yes No			
NM Office of the State Engineer - iWATERS database: Visual important washington at the first of the initial application.				
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 obtains 4.5	Yes No			
Total di a welland				
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface migra.	∐Yes			
and a subsurface nune.	Dvas Dv			
 Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. 	Yes No			
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; 	Yes No			
Topographic map Within a 100-year floodplain.				
- FEMA map	Yes No			
18				
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan in the box, that the documents are attached.				
by a check mark in the box, that the documents are attached.	sure plan. Please indicate,			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC				
based upon the appropriate requirements of Subsection F. 640 to 15				
Design Figure 1 femon (if applicable) based upon the appropriate a	1			
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Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	12.13.17.11 NMAC			
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Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	deline ved)			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC				
requirements of subsection G of 19.15.17.13 NMAC				

Name (Print):	ormation submitted with this application is true	, accurate and complete to the b	jest of my knowledge and belief.
	Tystal Lallova	Title:	Regulatory Technician
e mail address:	reptal Dafaya	Date:	12/22/2008
c man address.	೧೨(೨೯) doya ಜಿ conocognillips.com	Telephone:	505-326-9837
20			
OCD Approval: Pe	ermit Application (including closure plan)	Closure Plan (only)	Поста
OCD Representative Sig	gnature: CRWhitehe	ad	OCD Conditions (see attachment)
			Approval Date: November 22, 2021
litle: Environi	mental Specialist	OCD Permit	Number: BGT 1
21			
Closure Report (required	d within 60 days of closure completion):		
nstructions: Operators are r	required to obtain an approved closure plan pri	Subsection K of 19.15.17.13 NMAC	activities and submitting the closure report. The closure
eport is required to be subm pproved closure plan has be	itted to the division within 60 days of the comp een obtained and the closure activities have bee	letion of the closure activities.	activities and submitting the closure report. The closure Please do not complete this section of the form until an
,	con volumed and the closure activities have bee	rn completed.	an in the same of the sorm until an
		Closure C	ompletion Date:
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Waste Excavation and	Removal Co	_	
	1 Removal On-site Closure Method oved plan, please explain.	Alternative Closure Me	thod Waste Removal (Closed-loop systems only)
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osure Report Regarding V	Vocto Daniel City		
structions: Please identify to	Vaste Removal Closure For Closed-loop System for the facility or facilities for where the liquids. d	ems That Utilize Above Groun	d Steel Tanks or Haul-off Bins Only:
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Oil Conservation Division

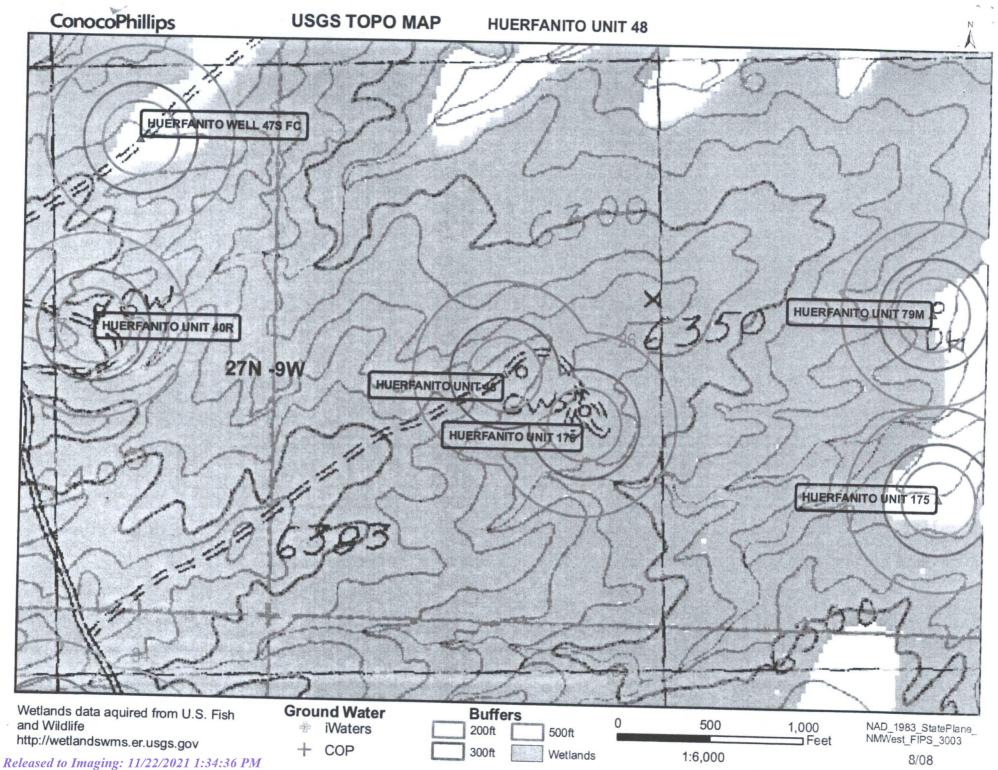
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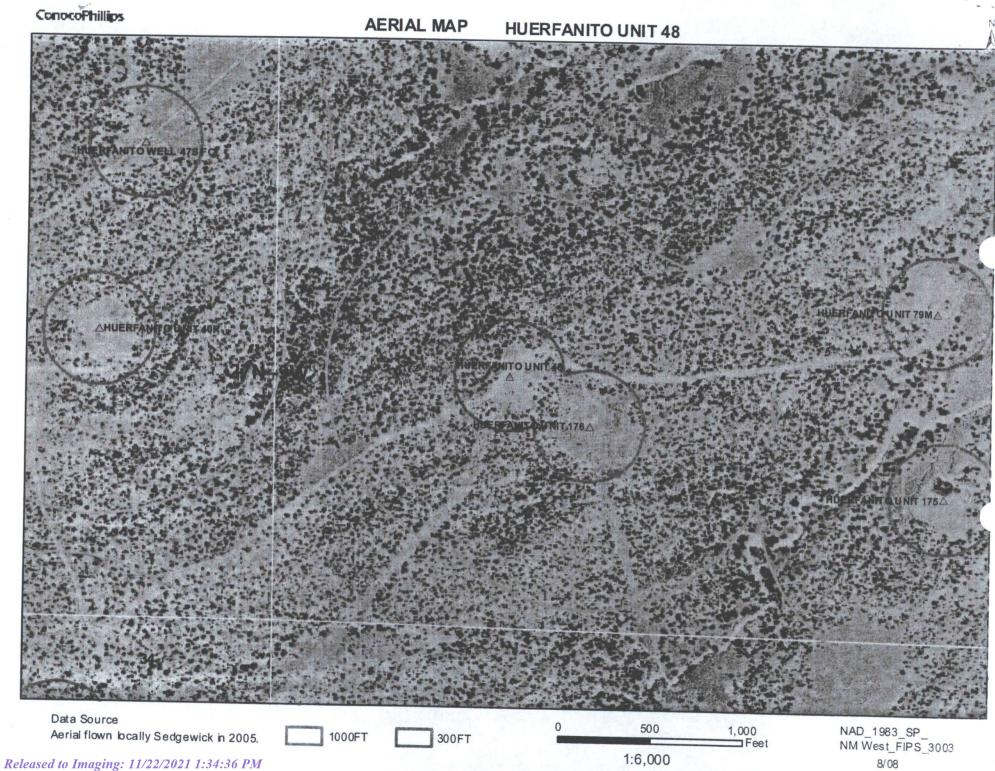
New Mexico Office of the State Engineer POD Reports and Downloads

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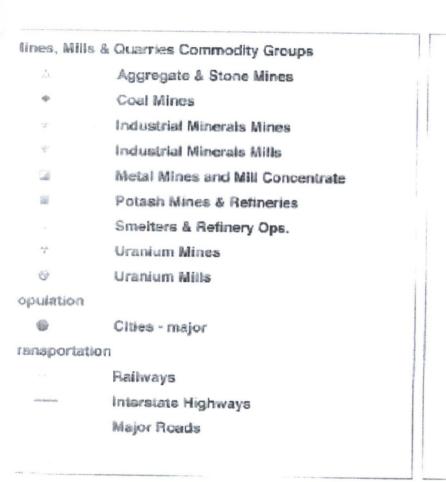


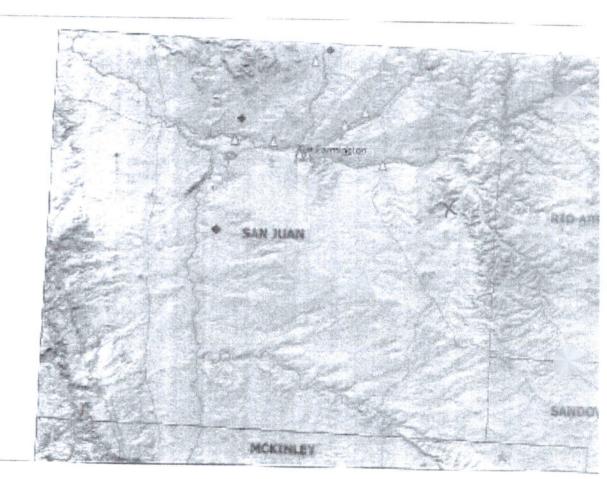


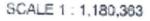
Mines, Mills and Quarries Web Map

HUERFANITO UNIT 48

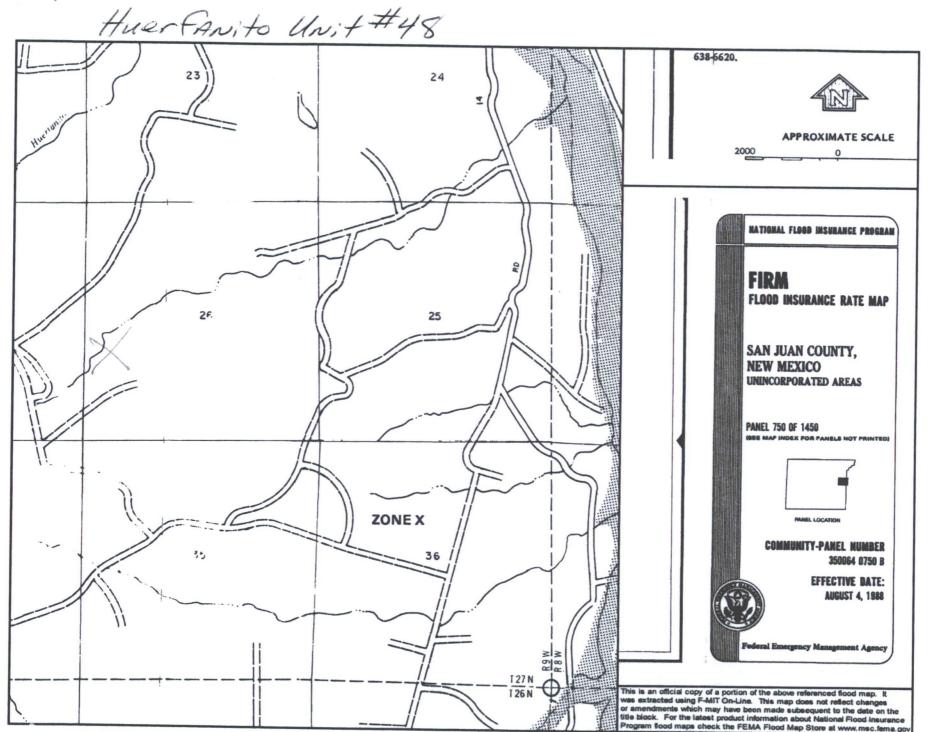
Unit Letter: L, Section: 26, Town: 027N, Range: 009W











HUERFANITO UNIT 48

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUERFANITO UNIT 48', which is located at 36.54263 degree North latitude and 107.76207 degrees West longitude. This location is located on the Huerfanito Peak 7.5' USGS topographic quadrangle. This location is in section 26 of Township 27 North Range 9 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Blanco, located 13.0 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 27.9 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 9.5 miles to the southwest. The location is on BLM land and is 3,871 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 1935 meters or 6346 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 214 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 517 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 6,307 feet to the northeast. The nearest water body is 8,489 feet to the east. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 18,327 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 368 feet to the southeast. The nearest wetland is a 1,541.8 acre Ravine located 10,003 feet to the east. The slope at this location is 1 degree to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Fruitland-Persayo-Sheppard complex, hilly' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 24.8 miles to the south as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from for the Animas or Nacimiento Formations is domestic and livestock supplies. There are no known aquifer tests 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

References:

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

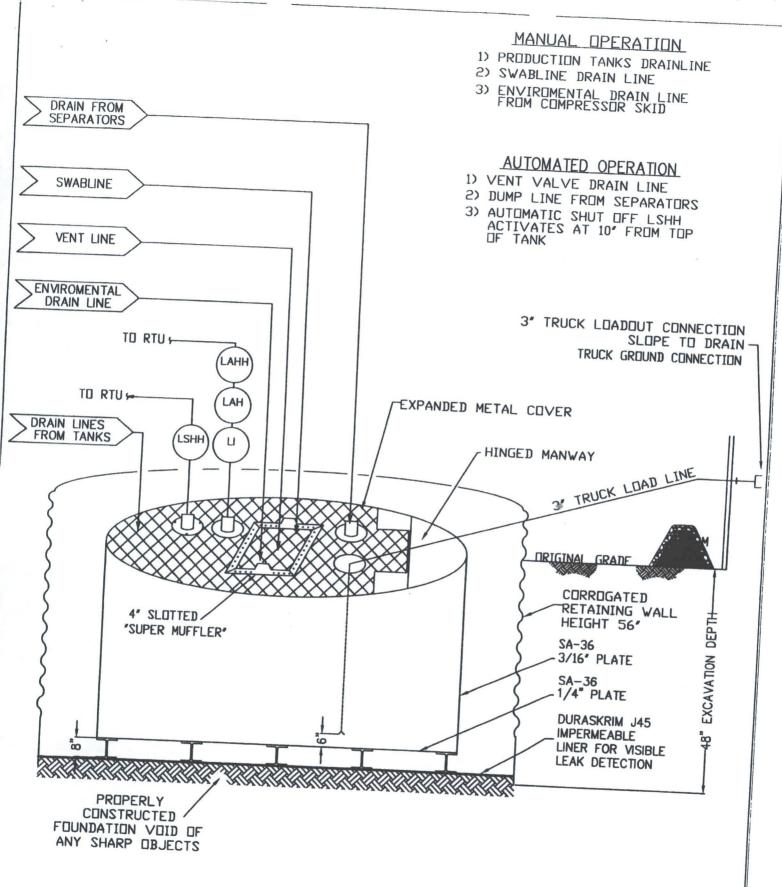
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

- BR will design and construct a properly sized and approved BGT which will
 contain liquids and should prevent contamination of fresh water to protect the
 public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped of permanent residence, school, hospital, institution or church. BR ensures that personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-least 6" above ground to keep from surface water run-on entering walls at grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic "Water-Hauling" Company indicating a high level 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 our compressor skids. The swab drain line is a manually operated drain and by a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the BR document.



ConocoPhillips

San Juan Business Unit

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

JRA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHO	D	J30BB	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12600	CT. I TT T CAPTE	1 Track
14 to 14 1		Min. Roll	Typical Ro	A William Co	J36BB		J45BB
Appearance		Averages	Averages	Min. Rol Average:		Min. Roll Averages	, Joicui IVO
Thickness	ACTALD		ack/Black	Bla	ack/Black	- and	Averages
Waight Lb. D. Line	ASTM D 5199	27 mil	30 mil	32 mil	36 mil		COBIACK
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs	140 lbs	151 lbs	168 lbs	40 mil	45 mil
Construction		(18.14)	(20.16)	(21.74)	(24.19)	189 lbs (27.21)	210 lbs (30.24)
Ply Adhesion	ASTM D 413	**Ex	trusion laminate	ed with encaps	ulated tri-directi	onal scrim reinfo	(50.24)
	7.01111 0 413		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	90 lbf MD	113 lbf MD		
1" Tensile Elongation @		-	79 lbf DD	70 lbf DD	87 lbf DD	84 lbf DD	138 lbf MD 105 lbf DD
Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD	750 MD	550 MD	750 MD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD	33 MD	550 DD	750 DD	550 DD	750 MD
	ASTWD 7003	20 DD	33 DD	20 MD 20 DD	30 MD 31DD	20 MD	36 MD
Tongue Tear Strength	ASTM D 5884	75 lbf MD	97 lbf MD	75 lbf MD		20 DD	36 DD
~		75 lbf DD	90 lbf DD	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	180 lbf MD	222 lbf MD		
Trapezoid Tear			210 lbf DD	180 lbf DD	223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Control of the second	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD	189 lbf MD	160 lbf MD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1		130 lbf DD	172 lbf DD	160 lbf DD	191 lbf DD
Puncture Resistance	ASTM D 4833	50 lbf	<0.5	<1	<0.5	<1	<0.5
faximum Use Temperature		180° F	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
finimum Use Temperature		-70° F	180° F	180° F	180° F	180° F	180° F
D = Machine Direction D = Diagonal Directions		-70 F	-70° F	-70° F	-70° F	-70° F	-70° F



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

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

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

08/06

RAVEN INDUSTRIES

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for loss of production, lost profits, personal injury or or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacement, modifications modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

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

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

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowleast 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment corrosion, 3) tank valves, flanges, and hatches had no visible leaks or sign of evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If oil from the fluid surface of a below-grade tank in an effort to prevent significant include the items listed above and will be maintained for five years.
- BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within immediate verbal notification pursuant to Subsection B, Paragraph (1), and Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tanks's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride 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.
- If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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

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District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

July 21, 2008 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

X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Type of action: Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

environment. Nor does approval relieve the operator of its responsibility to comply with any other applications.	ions result in pollution of surface water, ground water or the cable governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: MCCLANAHAN 4	
API Number: 3004513302 OCD Permit Num	mber:
U/L or Qtr/Qtr: G Section:14 Township: 28N Range:	10W County: San Juan
Center of Proposed Design: Latitude: 36.66487°N Longitude:	-107.86151°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Inc	12 1705
Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A	
Lined Unlined Liner type: Thickness mil LLDPE	HDPE PVC Other
String-Reinforced	
Liner Seams: Welded Factory Other Volume:	bbl Dimensions Lx Wx D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies notice of intent)	to activities which require prior approval of a permit or
Drying Ped Above Crowd Start To 1	
Lined Lined Linearum Title	HDPE PVD Other
Liner Seams: Welded Factory Other	HDPE PVD Other
4	
X Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume:bbl Type of fluid: Produced Water	
Tank Construction material: Metal	
Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and au	stometic overflow shot of
Visible sidewalls and liner Visible sidewalls only Other	nomatic overflow snut-off
Liner Type: Thickness	Unspecified
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envir	onmental Bureau office for consideration of approval.

Form C-144

Oil Conservation Division

Page 1 of

12/22/2003

Emericage_Stabection D of 19.15.77.11 NNAC [n. to permanent pit. smaprator pits, and be low-grade hands] channel and the pits of the height, the so stands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, houghtal, institution or chareth) channel pits on being the control of the height, the so stands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, houghtal, institution or chareth) channel pits on being the pits of the pi	ived by OCD: 11/19/2021 9:14:26 AM		Page 22
Within 200 Fees specify ** Phong writer feering topoged with two strands barbed wire.	Fencing: Subsection D of 19.15.17.11 NMAC (A, to permanent pit, temporary pits, and below-grade tanks)		
Milentair Diverse specify Policy are freshing tupoped with two strands barbed wire.	Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 s s.		
National Content of the Consideration of approval. Press repectly 4* hog wire fracting topped with two strands barbed wire.	Four foot height, four strands of barbed wire evenly spaced between one and four feet	l, institution or	church)
Nesting: Subsection to of 19.15.17.11 NMAC (Applies to permanent pits and permanent spen top tanks) Serven Nesting Other	X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire		
Stereo	7 - 2 - 2 - 2		
Stereo	Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open towards a second of the second open towards and permanent open towards a second open tow		A proposed to the second
Signes Subsection C of 19.15.17.11 NMAC			1 490
Signes: Nubsection C of 19.15.17.11 NMAC 12° X 34°, 2° Intering, providing Operator's name, site location, and emergency telephone numbers Nigned in compliance with 19.15.3.103 NMAC Ministrative Approvals and Exceptions:			
Negate Number N			
Mainistrative Approvals and Exceptions:			
Multinistrative Approvals and Exceptions:	12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
Administrative Approvals and Exceptions: Jasifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please sheek a box fine or more of the following is requested. If not leave blank: Saldministrative approvals(): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Stiling Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must admonstrate compliance for each sting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain sting criteria may require administrative approval from the appropriate district office or nay be considered material office of the state of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Sting criteria deson adaptly to driving pado a nabore grade-tanks associated with a closed-loop system. No Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells Within 300 feet from apermanent residence, school, hospital, institution, or church in existence at the time of initial application. Application. Application (certification) of the proposed site; Aerial photo; Satellite image Within isopercion (certification) of the proposed site; Aerial photo; Satellite image Within isoporpare demonstration of approval. Application of the proposed site; Aerial photo; Satellite image Within isoporpare demonstrate of a private, domestic fresh water well or spring, in existence at the time of initial application. Application (certification) of the proposed site; Aerial photo; Satellite image Within isoporpare demonstrate of a private, domestic fresh water well or spring, in existence at the time of initial application. No Office of the State Engineer - I	X Signed in compliance with 19.15.3.103 NMAC		
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- FEMA map	Within a 100-year floodplain - FEMA map	Yes	XNo

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Science Team Pease complete Boxes 14 brough 18, if applicable based upon the appropriate requirements of Subsection C of 19.15.17.8 NMAC and 19.15.17.13 NMAC Previously Approved Design (attack one) of design) API or Previously Approved Design (attack one) of design) API or Previously Approved Design (attack one) of the following items must be attacked to the application. Please indicate, by a check mark in the box, that the dox unents are attacked. Geologic and Hydrogeologic Data (only) for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements o		sed upon the appropriate requirements of 1	the appropriate requirements of 19.15.17.10 NMAC
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Closed-loop Systems Permit Application Attachment Checklist; Subsection B of 10.15.17.9 NMAC	Previously Approved	Design (attach copy of design)	API or Permit
Design Final - Based upon the appropriate requirements of 19.15.17.11 NMAC	Closed-loop Systems P Instructions: Each of the fo	oftowing items must be attached to the applicad drogeologic Data (only for on-site closure)	ation. Please indicate, by a check mark in the box, that the documents are attached based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	Design Plan - bas	sed upon the appropriate requirements of 1	9 15 17 11 NMAC
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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 19.15.17.11 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 Unline 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 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Disad upon the appropriate requirements of 19.15.17.11 NMAC Disagration of Plan Prevention Plan Disagration Plan Disagration	Previously Approved	Operating and Maintenance Plan	API
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Prydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC	Instructions: Each of the	Application Checklist: Subsection B of	f 19.15.17.9 NMAC
Sitting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	Hydrogeologic Pa	ollowing tiems must be attached to the applications	cation. Please indicate, by a check mark in the box, that the documents are attached.
Citritatiological 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 Pretosoard and Overtoping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Gil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure: 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC Assessed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Cavitation Plan Permanent Pit Release Complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Closure Method (Closed-loop systems only) Waste Removal (Closed-loop systems only) On-site Closure Method (Instructions: French Alternative Closure Method (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. National Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	Siting Criteria Cou	mpliance Demonstrations the advantage	agraph (I) of Subsection B of 19.15.17.9 NMAC
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Proposition of Subsection 101 19.13.17.13 NMAC	X Re-vegetation Plan -	- 50-80 Specifications - based upon the	appropriate requirements of Subsection H of 19.15.17.13 NMAC
bused upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	- C- mile a mill	based upon the appropriate requirement	of Subsection Left 10 15 17 12 NACCE
		based upon the appropriate requirements of	of Subsection I of 19.15.17.13 NMAC

16				
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St. Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	eel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC g fluids and drill cuttings. Use attachment if more than tw) o facilities		
Disposal Facility Name:	Disposal Facility Permit #			
Disposal Facility Name:	Disposal Facility Pormit #			
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	ies occur on or in areas that will not be used for future	service and operations?		
Required for impacted areas which will not be used for future service and operations. Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Su	iate requirements of Subsection H of 19.15.17.13 NM	AC		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMA Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are require	Recommendations of acceptable source material are provided be	elow. Requests regarding changes to the Santa Fe Environmental Bureau office		
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 obta	ained from nearby wells	Yes No		
		LIN/A		
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obta	ined from nearby wells	N/A		
Ground water is more than 100 feet below the bottom of the buried waste.		☐Yes ☐No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ined from nearby wells			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark).		☐N/A ☐Yes ☐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	existence at the time of initial application.	Yes 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 existe - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	ence at the time of the initial application	Yes No		
Within incorporated municipal boundaries or within a defined municipal fresh water we pursuant to NMSA 1978, Section 3-27-3, as amended.	ell field covered under a municipal ordinance adopted	Yes No		
 Written confirmation or verification from the municipality; Written approval obtai Within 500 feet of a wetland 	ined from the municipality			
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspe	ection (certification) of the proposed site	Yes No		
Within the area overlying a subsurface mine.		∏Yes ∏No		
 Written confiramtion or verification or map from the NM EMNRD-Mining and Mi Within an unstable area. 	ineral Division			
Engineering measures incorporated into the design; NM Bureau of Geology & Min Topographic map	neral Resources; USGS; NM Geological Society;	Yes No		
Within a 100-year floodplain.				
- FEMA map		YesNo		
On-Site Closure Plan Checklists (10.15.17.12.NNACC)				
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	e plan. Please indicate,		
are are are are are an are an are an are an are an are an are				
Siting Criteria Compliance Demonstrations - based upon the appropriate r	equirements of 19.15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NMAC			
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 NMAC			
Construction/Design Plan of Temporary Pit (for in place burial of a drying	(pad) - based upon the appropriate requirements of 19	.15.17.11 NMAC		
1700cois and Procedures - based upon the appropriate requirements of 19	.15.17.13 NMAC			
Confirmation Sampling Plan (if applicable) - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC			
Waste Material Sampling Plan - based upon the appropriate requirements of	of Subsection F of 19.15.17.13 NMAC			
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)				
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC				
Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	on I of 19.15.17.13 NMAC			
		1		

Operator Application	
	Certification:
Name (Driet)	information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Crystal Tafoya Title: Regulatory Technician
Signature:	Date: 12/22/2008
e-mail address:	crystal tafoya@conocophillips.com Telephone: 505-326-9837
20	
arrents.	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative S	See Solutions (see attachment)
Nepresentative S	Approval Date:
Title:	OCD Permit Number:
21	
Closure Report (requir	red within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC
instructions: Operators are	re required to obtain an approved closure plan prior to implementing any closure activities and a business of the control of t
report to required to be side	abmitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an s been obtained and the closure activities have been completed.
	Closure Completion Date:
22 Closure Method:	
Waste Excavation a	and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed Inc. 2014)
	and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) pproved plan, please explain.
	Aproved plant, piease explain.
23 Closure Report Regarding	ng Wasta Pamayal Classus For Classification Co.
Instructions: Please identi	g Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
vere utilized.	Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number
Were the closed-loop sys	ystem operations and associated activities performed on or in areas that will not be used for future service and operations?
	demonstrate compliane to the items below)
Site Reclamation (P	areas which will not be used for future service and operations: Photo Documentation)
Soil Backfilling and	
	ication Rates and Seeding Technique
24	
Closure Report Attac	chment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
	The the williams
	Notice (surface owner and division)
	tice (required for on-site closure)
Dlot Dlan (for on air	the closures and temporary pits)
Plot Plan (for on-si	P. A. L. C. Land Co.
Confirmation Samp	pling Analytical Results (if applicable)
Confirmation Samp Waste Material Sam	mpling Analytical Results (if applicable)
Confirmation Samp Waste Material Sam Disposal Facility N	mpling Analytical Results (if applicable) Name and Permit Number
Confirmation Samp Waste Material Sam Disposal Facility N Soil Backfilling and	mpling Analytical Results (if applicable) Name and Permit Number d Cover Installation
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Oil Conservation Division

Page 5 of 5

New Mexico Office of the State Engineer POD Reports and Downloads

2 02 Atoports and Downloads
Township: 28N Range: 10W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic C All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help
WATER COLUMN REPORT 08/21/2008

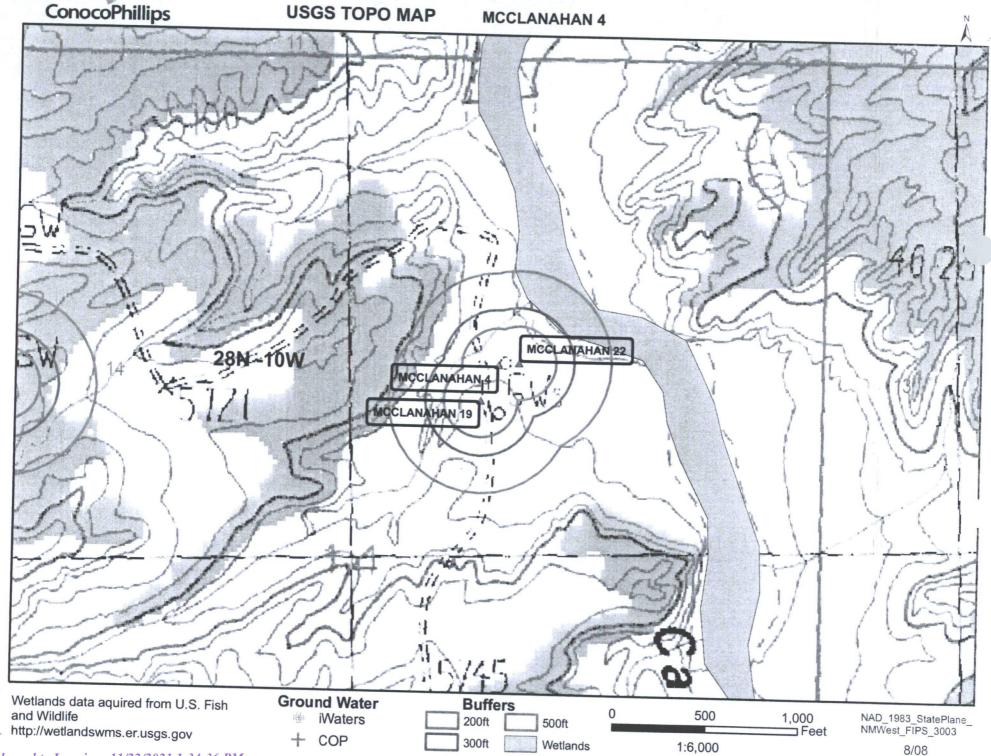
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

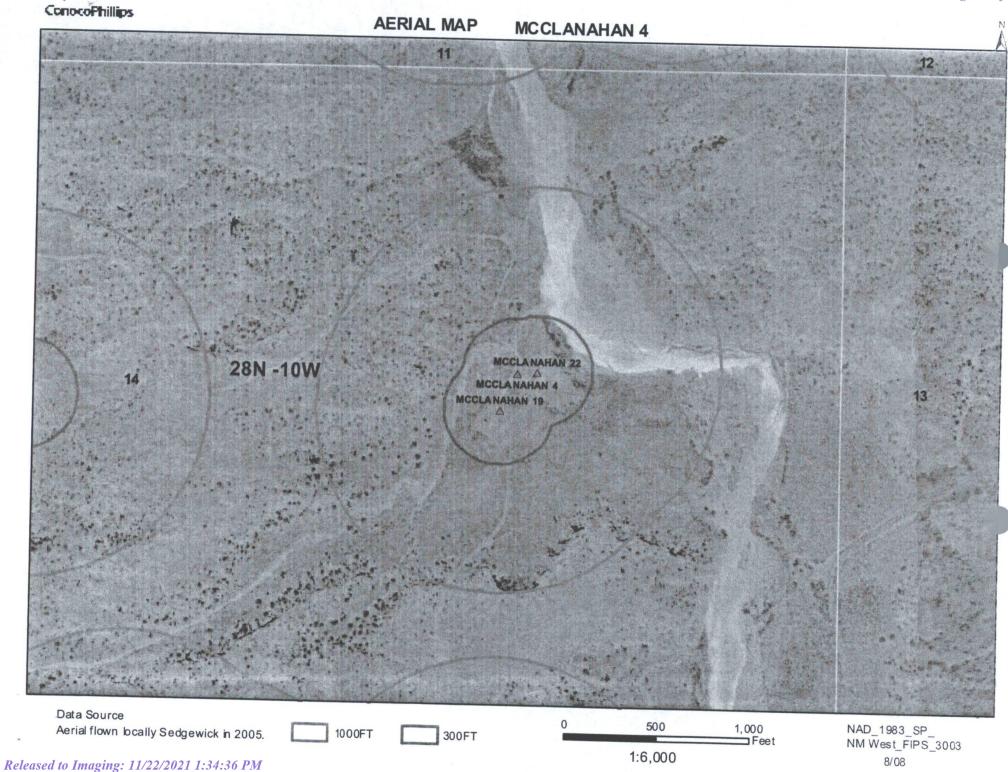
POD Number

Tws Rng Sec q q Q Zone X Y Well Water

Depth Depth Water (in Well Water Column

No Records found, try again

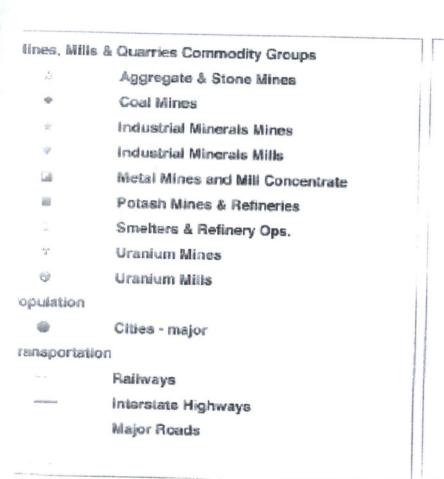


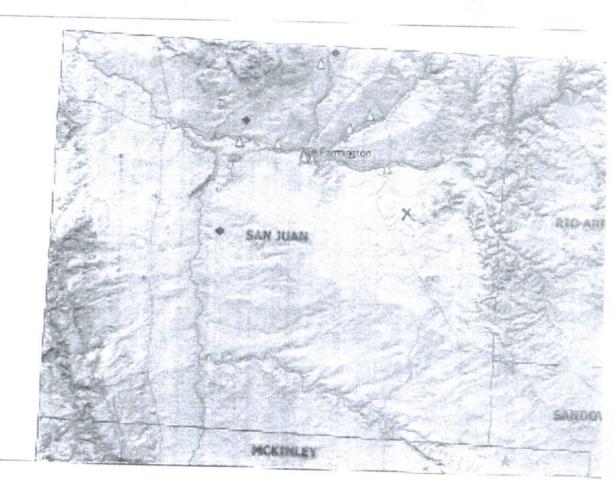


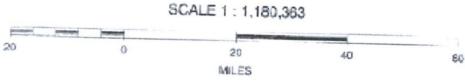
Mines, Mills and Quarries Web Map

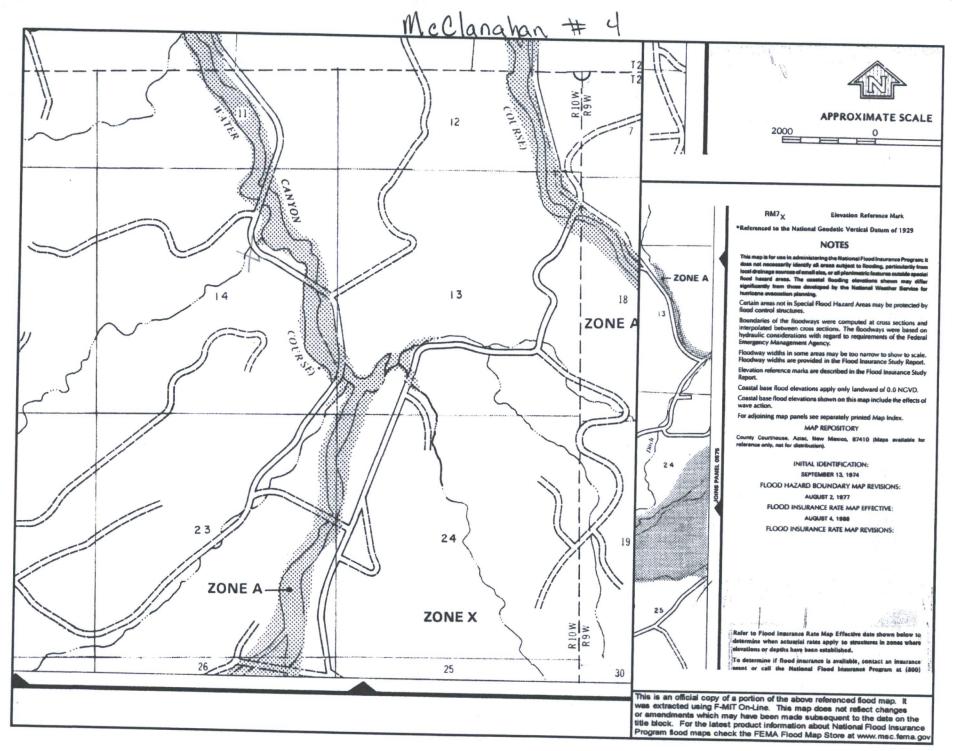
MCCLANAHAN 4

Unit Letter: G, Section: 14, Town: 028N, Range: 010W









MCCLANAHAN 4

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MCCLANAHAN 4', which is located at 36.66487 degrees North latitude and 107.86151 degrees West longitude. This location is located on the Blanco 7.5' USGS topographic quadrangle. This location is in section 14 of Township 28 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Blanco, located 4.4 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 19.7 miles to the west (National Atlas). The nearest highway is US Highway 64, located 3.2 miles to the north. The location is on BLM land and is 5,898 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Subbasin. This location is located 1720 meters or 5641 feet above sea level and receives 10 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 107 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 259 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,874 feet to the north. The nearest water body is 5,843 feet to the north. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 25,854 feet to the south. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 5,981 feet to the north. The nearest wetland is a 82.6 acre Ravine located 247 feet to the northeast. The slope at this location is 3 degrees to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Stumble-Fruitland association, gently sloping' and is somewhat excessively drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 20.7 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

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

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

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

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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

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

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

General Plan:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the BR document.

ConocoPhillips

ANY SHARP DBJECTS

San Juan Business Unit

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

DURA-SKRIM®

130, 136 & 145

PROPERTIES	TEST METHO	tile 1 min	J30BB		36BB		45BB
Assessment		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages	Min. Roll	Typical Rol
Appearance		Bla	ick/Black	Blac	ck/Black	- 300	Averages ck/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	-	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs	168 lbs	40 mil	45 mil
Construction		-		(21.74)	(24.19)	(27.21)	(30.24)
Ply Adhesion	ASTM D 413	1011	T aminate	d with encapsu	ated tri-direction	onal scrim reinfo	rcement
	AOTH D413	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	750 MD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	550 DD 20 MD 20 DD	750 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
Dimensional Stability	ASTM D 1204	<1	<0.5	<1			191 lbf DD
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf		<0.5	<1	<0.5
Maximum Use Temperature		180° F		65 lbf	83 lbf	80 lbf	99 lbf
Minimum Use Temperature			180° F				
D = Machine Direction		-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**

08/06

RAVEN

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be replacement of replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

B Agton Resources Oil & Gas Comp. , LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

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

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain
 the integrity of the liner, liner system and secondary containment system to
 prevent contamination of fresh water and protect public health and environment.
 BR will accomplish this by performing an inspection on a monthly basis, installing
 cathodic protection, and automatic overflow shutoff devices as seen on the
 design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride 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.
- If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 62738

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	62738
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water			
Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.			
Facility or Site Name	Huerfanito Unit 48		
Facility ID (f#), if known	Not answered.		
Facility Type	Below Grade Tank - (BGT)		
Well Name, include well number	Huerfanito Unit 48		
Well API, if associated with a well	3004513239		
Pit / Tank Type	Not answered.		
Pit / Tank Name or Identifier	BGT 1		
Pit / Tank Opened Date, if known	Not answered.		
Pit / Tank Dimensions, Length (ft)	Not answered.		
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.		
Pit / Tank Dimensions, Depth (ft)	Not answered.		
Ground Water Depth (ft)	214		
Ground Water Impact	Not answered.		
Ground Water Quality (TDS)	Not answered.		

Below-Grade Tank			
Subsection I of 19.15.17.11 NMAC			
Volume / Capacity (bbls)	120		
Type of Fluid	Produced Water		
Pit / Tank Construction Material	Steel		
Secondary containment with leak detection	Not answered.		
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	True		
Visible sidewalls and liner	Not answered.		
Visible sidewalls only	Not answered.		
Tank installed prior to June 18. 2008	Not answered.		
Other, Visible Notation. Please specify	Not answered.		
Liner Thickness (mil)	Not answered.		
HDPE (Liner Type)	Not answered.		
PVC (Liner Type)	Not answered.		
Other, Liner Type. Please specify (Variance Required)	Not answered.		

Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' hogwire

Netting		
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen	True	
Netting	Not answered.	
Other, Netting. Please specify (Variance May Be Needed)	Not answered.	

Sign	۱
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Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True

Variances and Exceptions		
Justifications and/or demonstrations ofequivalency 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:		
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	True	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.	

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. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	No	
NM Office of the State Engineer - iWATERS database search	True	
USGS	Not answered.	
Data obtained from nearby wells	Not answered.	

Siting Criteria, Below Grade Tanks		
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	No	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No	

Proposed Closure Method	
Below-grade Tank	Below Grade Tank - (BGT)
Waste Excavation and Removal	True
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	12/22/2008

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ACKNOWLEDGMENTS

Action 62738

ACKNOWLEDGMENTS

Operator:	OGRID:
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1111 Travis Street	Action Number:
Houston, TX 77002	62738
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

V	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.	
$\overline{\lor}$	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.	

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CONDITIONS

Action 62738

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CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	11/22/2021