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

Form C-144 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 action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Classification grade talk, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
BGT 1	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted six along the
	grade tank, or proposed alternative method
Please submit one a	pplication (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative requ
be advised that approval o	fibiographic files of the first

Instructions: 1 uest

of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Operator: Burlington Resources Oil & Gas Company, LP	
Address: PO Box 4289, Farmington, NM 87499	OGRID#: 14538
Facility or well name: HUERFANITO UNIT 36	
API Number:	
U/L or Qtr/Qtr: E Section: 35 Township: 27N	9W County: San Juan -107.76239°W NAD: X 1927 1983
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  String-Reinforced  Liner Seams: Worker France Fr	HDPE PVC Other bbl Dimensions L x W x D
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	octivities which require prior approval of a permit or  DPE PVD Other
A Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 120	atic overflow shut-off
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.
Oil Conservation Division	

12/22/2008

eived by OCD: 9/12/2021 6:53:56 PM	
Fencing: Subsection D of 19.15-17-11-NM plies to permanent pit, temporary pits, and below grade tan.	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, host pour foot height, four strands of barbed wire evenly spaced between one and four feet.	pital, institution or charge
Pour foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
and query and wire rending topped with two strands barbed wire.	
Netting: Subsection F of 19.15.17.11.NIMASCA.	
Netting: Subsection F of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  X Screen Other	
Monthly inspections (If netting or screening is not physically feasible)	
8	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
X Signed in compliance with 19.15.3.103 NMAC	
9	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
there a box if one or more of the following is requested, if not leave blank.	
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for the Santa Fe E	or consideration of approval
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	approval.
10	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable appropriate district office or may be considered an exception which must be submitted to the Sevential and the Sevential and the Sevential acceptable appropriate district office or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered an exception which must be submitted to the Sevential acceptance or may be considered as a considered and the submitted acceptance or may be considered as a considered acceptance or may be considered as a considered an exception which must be submitted as a considered acceptance or may be considered as a considered acceptance or may be cons	
appropriate district office or may be considered and the considered an	
consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.	
toop system.	
Oround water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	
	Yes X No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐ <sup>NA</sup>
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
(Approximent pils)	Yes No
inspection (certification) of the proposed site; Aerial photo: Satellite image	XNA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo
- NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) - 6 th	
adopted pursuant to NMSA 1978, Section 3-27-3 as amonded	Yes XNo
- Written confirmation or verification from the municipality. Written approach the inches	A A A
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (continued)	Yes XNo
<ul> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> <li>Within an unstable area.</li> </ul>	Yes XNo
Engineering measures incorporated into the design; NM Purson of C. J.	Yes X No
Within a 100-year floodplain - FEMA map	Yes XNo

	P
	Temporary Pits, Emergency Pits at. ow-grade Tanks Permit Application Attachment Checkets: Subsection B of 19.15-17.9 NMAC
ā	Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  X Hydrogeologic Report (Below-grade Tanks) - based upon the second process.
	based upon the appropriate requirements of 10 15 17 to the
	bused upon the appropriate requirements of 19 15 17 11 NMAC
	A Operating and Maintenance Plan - based upon the appropriate requirements of 10.15 17.12 200.1
	X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
	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 Person 1.22
	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 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
	Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9  NMAC and 19.15.17.13 NMAC
	Description to American Institute of Subsection C of 19.15.17.9
	Previously Approved Design (attach copy of design)  API
	Previously Approved Operating and Maintenance Plan API
	13
	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
	the state of the following items must be attached to the application. Please indicate the state of the state
	Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
	B - The Compliance Demonstrations - based upon the appropriate requirement of the transfer of
	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Project by the structural Integrity
	and determ integrity Design pased into the appropriate
	- based upon the appropriate t
	Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance 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  Freeboard and Overtopping Prevention Plan - based propriate requirements of 19.15.17.12 NMAC
	Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan
	Emergency Response Plan
	Oil Field Waste Stream Characterization
	Monitoring and Inspection Plan
	Erosion Control Plan
	Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	Proposed Closure: 19.15.17.13 NMAC
	Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Francescope G. C.
	Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
1	
I	(Below-Crade Tank)
ı	Waste Removal (Closed-loop systems only)
l	On-site Closure Method (only for temporary pits and closed-loop systems)
l	In-place Burial On-site Trench
	Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.  [X] Protocole and Proceedings of the state of the following items must be attached to the closure plan.
	Please indicate, by a check mark in the box, that the documents are attached.  X Protocols and Procedures - based upon the asserting the second procedures - based upon th
	Treedites - based upon the appropriate requirements of 10 15 17 12 10 15
	Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)      Soil Backfill and Cover Design Specifications, beautiful properties of Subsection F of 19.15.17.13 NMAC
	Besign specifications - pased upon the appropriate requirements
	The appropriate requirements of Subspection Las 10 15 17 12 12 12 12
-	X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

. 16					
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. The arrelesses 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 material to the disposal of liquids and drill cuttings. Use attachment if material are required.	D NMAC)				
Disposal Facility Manager 17 mg	ore than two facilities				
Disposal Facility Name:  Disposal Facility Name:  Disposal Facility Name:					
Disposal Facility Name:  Disposal Facility Permit #:  Disposal Facility Permit #:					
Yes (If yes, please provide the information No.	for future service and operations?				
Required for impacted areas which will not be used for formation					
La sale Backini and Cover Design Specification - backd was at					
Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.1  Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	7.13 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 methods only: 19.15.17.10 NMAC					
Instructions: Each siting criteria requires a demonstration of compilance in the closure plan. Recommendations of acceptable source material are poor consuleration of approval. Justifications and/or demonstration of appropriate district office or may be considered an exception which must be sub-	Provided below Provided				
certain string criteria may require a demonstration of compliance in the closure plan. Recommendations of acceptable source material are p for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	mitted to the Santa Fe Environmental Russian office				
Ground water is less than 50 feet below the bottom of the buried waste.	Daretta Office				
NM Office of the State Engineer - iWATERS declarate waste.	Yes No				
NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A				
Ground water is between 50 and 100 feet below the bottom of the buried waste					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No				
Ground water is more than 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				
Within 300 feet of a continuously flowing watercourse, or 200 feet of a continuously flowing watercourse, or	□N/A				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No				
- Topographic map: Visual inspection (certification) of the proposed site					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  Visual inspection (certification) of the proposed site: Aerial photocycle of the control of the					
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; satellite image</li> </ul>	∐Yes ∐No				
Within 500 horizontal feet of a private described					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering the NM Office of the State Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database: Visual inspection (a public of the state Engineer - iWATERS database).	Yes No				
NM Office of the State Engineer - iWATERS database. Visual important and the of the initial application.	1				
pursuant to NMSA 1978, Section 3-27-3, as amended.	ed Yes No				
Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland					
and the state of t					
<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> </ul>	Yes No				
Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division  Within an unstable area.	Yes No				
with all distable area.	L I es L No				
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;	Yes No				
Topographic map  Within a 100 area Good to its design, NW Bureau of Geology & Mineral Resources; USGS; NM Geological Society;					
Within a 100-year floodplain FEMA map					
	Yes No				
On Site Cleaner Director					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the company of the state of the state of the following items must be attached to the company of the state of the	document Di				
Siting Criteria Compliance Democratic	tosure 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 5					
The state of burial Hench (II applicable) based upon the agree					
The state of the state of a design and the s	of 10 15 17 11 10 1				
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	01 19.13.17.11 NMAC				
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NM/2  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NM/2	AC				
The and retinit rounder (for houds drilling fluids and diff					
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	cannot be achieved)				
The same application of the same and the same application of the same applicat					
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	1				

Form C-144

, 1116.1	DIOTINATION submitted with d		
Name (Print):	information submitted with this application is true, a  Crystal Fafoya	ccurate and complete to the	best of my knowledge and belief.
Signature:	Crystal Latoya	Title:	Regulatory Technician
e-mail address:	Crystal Jafryc	Date:	12/22/2008
	1 Jan Royl & Conocophines com	Telephone:	505-326-9837
20			
	Permit Application (including closure plan)		OCD Conditions (see attachment)
OCD Representative S	signature: <u>CRWhitehead</u>		0 1 1 00 00
Title: Environ	nmental Specialist	OCD P	
21		OCD Perm	it Number: BGT 1
report is required to be sul	red within 60 days of closure completion); sue required to obtain an approved closure plan prior bmitted to the division within 60 days of the complet been obtained and the closure activities have been a	to implementing any closur ion of the closure activities. completed.	re activities and submitting the closure report. The closure Please do not complete this section of the form until an
22		Closure	Completion Date:
Closure Method:			
Waste Excavation a	L site Closure Method	Alternative Closure M	lethod Waste Parameters
If different from app	proved plan, please explain.		fethod Waste Removal (Closed-loop systems only)
3			
Insure Report Regarding	Waste Removal Closure For Closed-loop System by the facility or facilities for where the liquids, drill	s That Utilize Above Grou	and Steel Tanks or Haul-off Ring Only
ere unuzed.	y the factury or factities for where the liquids, drill	ling fluids and drill cutting	ind Steel Tanks or Haul-off Bins Only; s were disposed. Use attachment if more than two facilities
Disposal Facility Name:			
Disposal Facility Name:		Disposal Facility Pe	
Ware the alemant to			
were the closed-loop syst	tem operations and associated activities performed of	Disposal Facility Pe	rmit Number:
Yes (If yes, please de	tem operations and associated activities performed or emonstrate complilane to the items below)	on or in areas that will not b	rmit Number: e used for future service and opeartions?
		on or in areas that will not b	rmit Number: e used for future service and opeartions?
Required for impacted are	eas which will not be used for future service and	on or in areas that will not b	rmit Number:e used for future service and opeartions?
Required for impacted are Site Reclamation (Ph	eas which will not be used for future service and opeoto Documentation)	on or in areas that will not b	rmit Number: e used for future service and opeartions?
Required for impacted are Site Reclamation (Ph Soil Backfilling and (	eas which will not be used for future service and operation (Cover Installation)	on or in areas that will not b	rmit Number:e used for future service and opeartions?
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Required for impacted are Site Reclamation (Ph Soil Backfilling and ( Re-vegetation Applica  Closure Report Attach the box, that the documen Proof of Closure No	eas which will not be used for future service and openoto Documentation)  Cover Installation ation Rates and Seeding Technique  Instructions: Each of the following are attached.  Attack (surface owner and division)	on or in areas that will not be No	e used for future service and opeartions?
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Form C-144

Od Conservation Division

Pige 5 of 5

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

Township: 27N Range: 09W Sections: NAD27 X: Y: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All POD / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form iWATERS Menu Help

# WATER COLUMN REPORT 08/21/2008

Y

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) POD Number Tws Rng Sec q q q Zone

Depth Depth Water (in feet) Well Water

Column

No Records found, try again

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

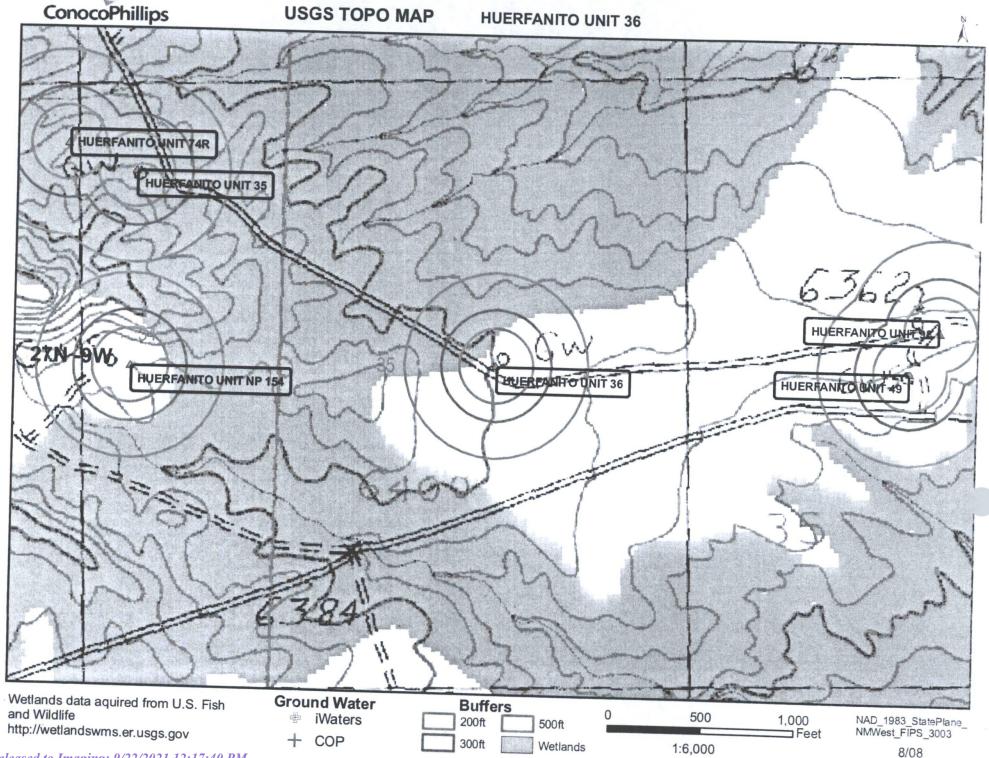
P-10 and Downloads
Township: 26N Range: 09W Sections:
NAD27 X: Y: Zone: Search Radius:
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POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

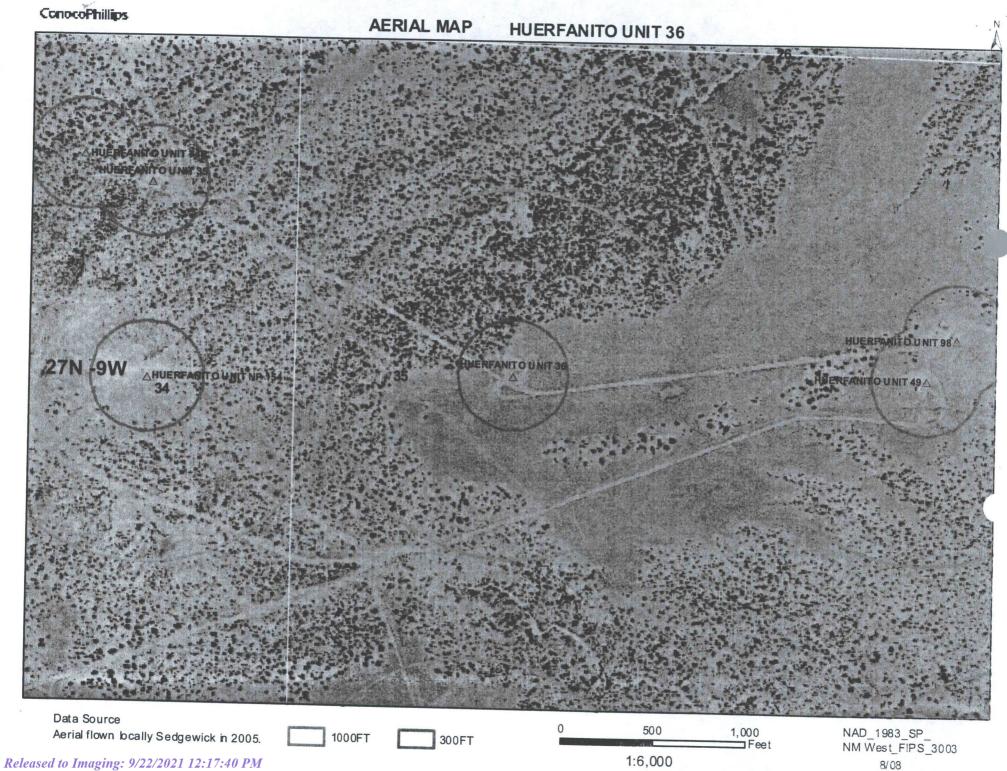
# WATER COLUMN REPORT 08/20/2008

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SJ 00412	26N	09W		4	_	3				348	175	173
SJ 00214	26N	09W			4	2				202	65	137
SJ 00064	26N	09W			2	_				946	230	716
SJ 00063	26N	09W			2					490 479	215 234	275 245

Record Count: 8

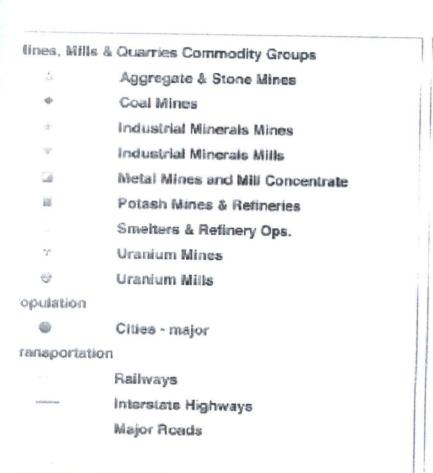


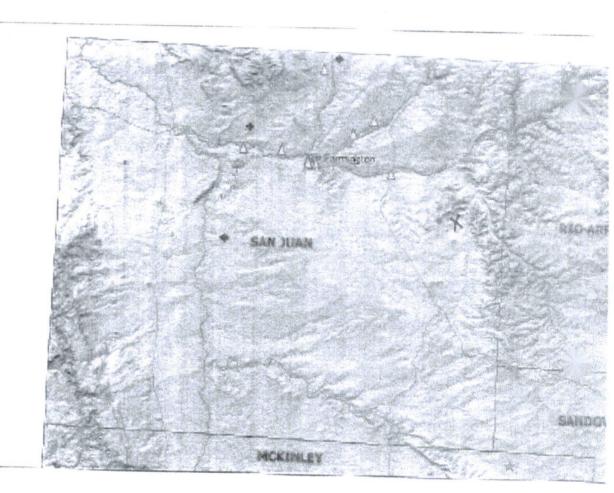


# Mines, Mills and Quarries Web Map

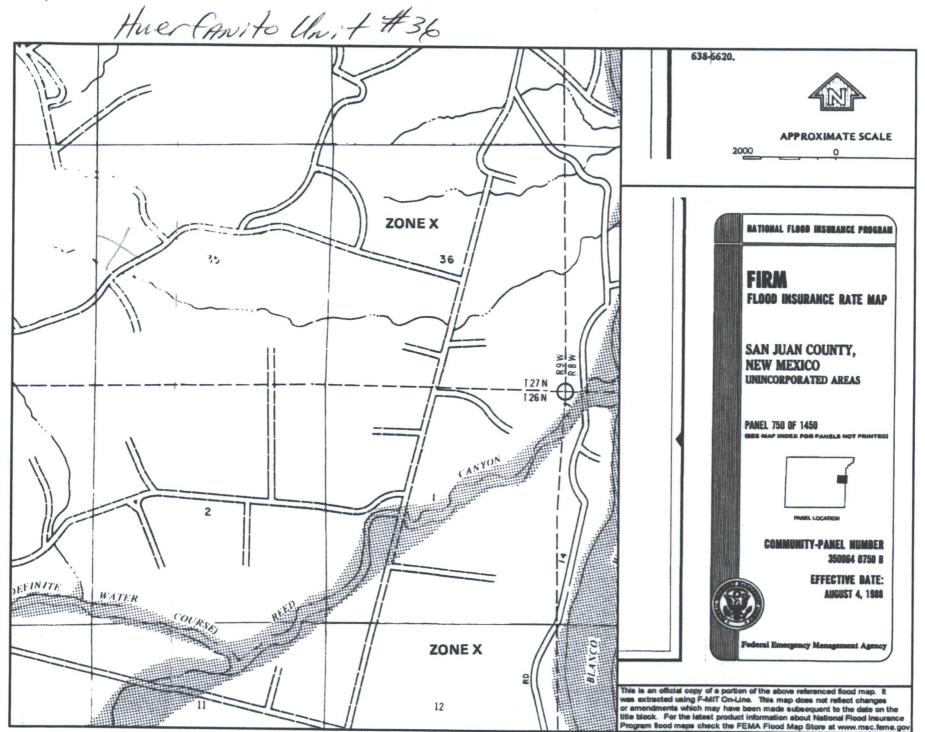
**HUERFANITO UNIT 36** 

Unit Letter: E, Section: 35, Town: 027N, Range: 009W









## **HUERFANITO UNIT 36**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUERFANITO UNIT 36', which is located at 36.53398 degree North latitude and 107.76239 degrees West longitude. This location is located on the Huerfanito Peak 7.5' USGS topographic quadrangle. This location is in section 35 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 13.6 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 28.2 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 9.2 miles to the southwest. The location is on BLM land and is 3,495 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 1953 meters or 6405 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 273 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 1,026 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 8,286 feet to the northeast. The nearest water body is 8,481 feet to the south. It is classified by the USGS as an intermittent lake and is 0.6 acres in size. The nearest spring is 21,314 feet to the north. 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 2,908 feet to the north. The nearest wetland is a 1,541.8 acre Ravine located 7,825 feet to the southeast. 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 'Doak-Sheppard-Shiprock association, rolling' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 24.3 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 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 The Animas and Nacimiento Formations.

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.

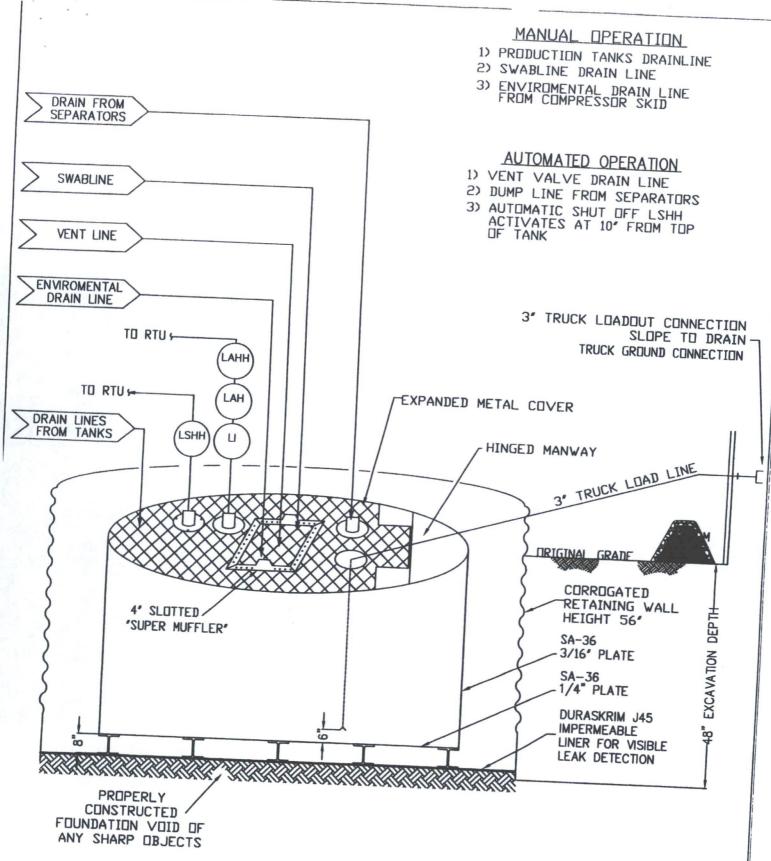
## Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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 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 belowleast 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 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 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

# RA-SKRIM®

# J30, J36 a J45

PROPERTIES	TEST METHO	<b>9</b>	J30BB	The state of the s	J368 <b>8</b>	Carrie of the contract	LOTTE A
		Min. Roll	1 1 10001 110	II Min Rol	La war Bridge Anderson	The second secon	J45BB
Appearance		Averages		Averages	Typical R Average	oll Min. Roll s Averages	
Thickness	ASTM D 5199		ack/Black	Bla	ack/Black		ick/Black
Weight Lbs Per MSF		27 mil	30 mil	32 mil	36 mil	40 mil	T
(oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs	151 lbs	168 lbs	189 lbs	45 mil
Construction			(20.16)	(21.74)	(24.19)	(27 24)	210 lbs (30.24)
Ply Adhesion	ASTM D 413	10 H	trusion laminat	ed with encaps	ulated tri-directi	onal scrim reinfo	Orcement
	710		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	O IDI IVID	113 lbf MD	110 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		550 MD	750 MD	550 MD	-
1" Tensile Elongation @	ACTAID 7000	20 MD		550 DD	750 DD	550 DD	750 MD 750 DD
Peak % (Scrim Break)	ASTM D 7003	20 DD	33 MD 33 DD	20 MD 20 DD	30 MD	20 MD	36 MD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 97	97 lbf MD		31DD	20 DD	36 DD
	3004	75 lbf DD	90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD	117 lbf MD
Grab Tensile	ASTM D 7004	180 lbf MD	218 lbf MD	180 lbf MD	1	100 lbf DD	118 lbf DD
		180 lbf DD	210 lbf DD	180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD
Trapezoid Tear	ASTM D 4533	120 lbf MD	146 lbf MD	130 lbf MD	189 lbf MD		258 lbf DD
Dimensional Stability		120 lbf DD	141 lbf DD	130 lbf DD	172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
uncture Resistance	ASTM D 1204	<1	<0.5	<1	<0.5	<1	
aximum Use Temperature	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf		<0.5
		180° F	180° F	180° F	180° F	80 lbf	99 lbf
Inimum Use Temperature		-70° F	-70° F	-70° F		180° F	180° F
= Machine Direction = Diagonal Directions				.01	-70° F	-70° F	-70° F



Note: Minimum Roll Averages are set to take into account product variability in addition to

\*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.

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 resulting from a breach of this warranty including, but not limited to, damages 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.

# 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 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 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 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 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 retrofitted to comply with Paragraphs (1) through (4) 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 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 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; or othal BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B concentration, as determined by EPA SW-846 methods 8021B or 8260B concentration, as determined by EPA method 418.1 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 300.1 or other EPA method that the division approves, BPA method 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, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 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 47829

### **QUESTIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47829
	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	Not answered.				
Facility ID (f#), if known	Not answered.				
Facility Type	Below Grade Tank - (BGT)				
Well Name, include well number	Not answered.				
Well API, if associated with a well	Not answered.				
Pit / Tank Type	Not answered.				
Pit / Tank Name or Identifier	Not answered.				
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)	Not answered.				
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)	Not answered.	
Type of Fluid	Not answered.	
Pit / Tank Construction Material	Not answered.	
Secondary containment with leak detection	Not answered.	
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.	
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)	Not answered.

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

### Signs

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.
Γ	Signed in compliance with 19.15.16.8 NMAC	Not answered.

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.	Not answered.
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	Not answered.	
NM Office of the State Engineer - iWATERS database search	Not answered.	
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)	Not answered.
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.

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

Operator Application Certification	
Registered / Signature Date	Not answered.

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ACKNOWLEDGMENTS

Action 47829

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47829
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

#### **ACKNOWLEDGMENTS**

$\overline{\lor}$	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.
W	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 47829

### **CONDITIONS**

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#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/22/2021