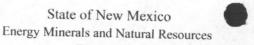
District I

1625 N. French Dr., Hobbs, NM 88240

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

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

Department Oil Conservation Division 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 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

State of New Mexico

Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit BGT 1 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

Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: HUERFANITO UNIT 65	
API Number: 3004505906 OCD Permit Num	nher:
U/L or Qtr/Qtr: M Section: 12 Township: 26N Range: Center of Proposed Design: Latitude: 36.49796°N Longitude: Curface Owner: X Federal State Private Tribal Trust or Ind	9W County: San Juan -107.74593°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: Welded Factory Other Volume:	outer
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	o activities which require prior approval of a permit or  HDPE PVD Other
Secondary containment with leak detection   Visible sidewalls and liner   Visible sidewalls only   Other   O	omatic overflow shut-off

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

Fencing: Subsection D of 19.15.17.11 NM/ opties to permanent pit, temporary pits, and below grade tanks	Page 2
A series of the past and perove grade lanks	
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Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hos	spital increases
	quan, institution of church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
Netting: Subsection F. of 19.15.17.11 NMAC (Application)	
Netting: Subsection F. of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)   X   Screen	
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 convenience.	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following in the control of the control	
Please check a box if one or more of the following is requested, if not leave blank:  X Administrative approval(s): Pegustamore 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.	applotus.
10 Sancta office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate and I'm	
appropriate district office or may be considered any the	
consideration of approval. Applicant must attach invite actions	
does not apply to drying pads or above grade-tanks associated with a closed-loop system.	
Brace talks associated with a closed-loop evetors	
toop system.	
Ground water is less than 50 feet below the bottom of the decision of the deci	Yes XNo
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Within 300 feet of a continuously flowing watercourse are 200 feet.	Yes XNo
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Temporary Pits, Emergency Pits and relow-grade Tanks Permit Application of Instructions: Each of the following items must be attached to the application. Please indication	
Districtions: Fach of the Cut	Attachment Checklist: Submaring D. 6 10 46 46
Instructions: Each of the following items must be attached to the application. Please indical  X Hydrogeologic Report (Below-grade Tanks), based upon the	te, by a check mark in the box, that the documents are attached
1 - Dasca income require	amonto of D
l cased upon the appropriate requi	rements of 10 15 17 10 NIMA C
based upon the appropriate requirements of 19 15 17 11 NMAAC	
Operating and Maintenance Plan - based upon the appropriate requirements of	10 15 17 12 NIMAG
The state of the second letter Boxes 14 through 18 if applicables 1	n the appropriate social socia
	and 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 Instructions: Each of the following items must be attached to the Self-	0.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the re-	by a check mark in the box, that the documents are attached
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the re  Siting Criteria Compliance Demonstrations (only for on-site closure)	quirements of Paragraph (3) of Subsection B of 19.15.17.9
	on the appropriate requirements of 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of	9.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon NMAC and 19.15.17.13 NMAC	the appropriate requirements of Subsection C = 5.10.15.15
Previously Approved Design (	1 Subsection C of 19.15.17.9
Previously Approved Design (attach copy of design)  API  Previously Approved Operation	
Previously Approved Operating and Maintenance Plan API	
3	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Lack of the jouowing items must be attached to the application. Please in Figure	
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsect Siting Criteria Compliance Demonstrations - based upon the requirements of Paragraph (I) of Subsect	ion B of 19.15.17.0 NIMAG.
Principle Definition and a second in the appropriate and a sec	nents of 19.15.17.10 NIMAC
Certified Engineering Design Plans - based upon the appropriate requirements of  Dike Protection and Structural Integrity Project by	19.15.17.11 NMAC
and a second integral beston, based those the approximation	
Liner Specifications and Compatibility Assessment - based upon the appropriate of Quality Control/Quality Assurance Construction and Installation Plan	equirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate	
Philip it to tellifoli Flan - Dased upon the appropriate	15.17.12 NMAC
	ents of 19.15.17.11 NMAC
Emergency Response Plan	
Oil Field Waste Stream Characterization	
Monitoring and Inspection Plan	
Erosion Control Plan	
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form C-144

16	The state of the s
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill control of the control	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cutting are required.	Bins Only: (19.15.17.13.D NMAC)
Disposal Facility Name	, we take the first of the firs
Disposal Facility Name:  Disposal Facility Name:	ermit #:
	10. 14일(() 14일() 14
Will any of the proposed closed-loop system operations and associated activities occur on or in areas  Payment (in yes, please provide the information No	s that will not be set to a
Required for improved the information No	s that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operations:	
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of St.  Re-vegetation Plan - based upon the appropriate requirements of Subsection Lef 10.15.17.12.	ubsection H of 19 15 17 13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13  Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13	NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13	7.13 NMAC
17	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC	
certain string criteria may require a demonstration of compliance in the closure plan. Recommendations of accept	Nable Source material and and the
certain sating criteria may requires a demonstration of compliance in the closure plan. Recommendations of accep for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17	sception which must be submitted to the Santa Fe Empreyment B.
Ground water is less than 50 feet below to 19.15.17	7.10 NMAC for guidance.
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer, WATERS 4	Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells</li> </ul>	
Ground water is between 50 and 100 feet below the bottom of the buried water	ŬN/A
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	Yes No
Ground water is more than 100 foot by the state of the st	□N/A
Ground water is more than 100 feet below the bottom of the buried waste.	
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 s.	∐N/A
measured from the ordinary high-water mark).	ed, sinkhole, or playa lake Yes No
- Topographic map: Visual inspection (certification) of the proposed site	
Vithin 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of init  Visual inspection (certification) of the proposed site: Aerial photocontailies in	
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; satellite image</li> </ul>	tial application. Yes No
Athin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for disposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site ithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal fresh water well field covered under the fresh water well fresh water well field covered under the fresh water well fresh wate	al application.
written confirmation or verification from the municipality. Written approved above 15	Yes No
Total di di metianu	하고 있는 것이 그 없는 하는 하는 이번 나는 이번 가는 이번 하는 것이 되었다. 그런 그렇게 하는 생활이 가장하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그 없는 것이 없는 것이 없는 것이다.
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the p	Yes No
	proposed site
- Written confirmation or verification or map from the NM EMNRD Mining and Mi	Yes No
an distable area.	
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM</li> </ul>	Yes No
thin a 100-year floodplain.	i Geological Society;
- FEMA map	
	☐ Yes ☐ No
Site Class Discourse	
Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must check mark in the box, that the documents are attached.	St hee attached to the
Siting Criticis Co. 13	is bee attached to the closure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.	10 NMAC
based upon the appropriate requirements of Subspection E. 610.15	: 'B' 그는 '' - '' - '' - '' - '' - '' - '' -
The state of Burial Trench (if applicable) based upon the appropriate	가입하다 하게 되었다면서 하시 하시 하시 하시 하시 않는 것이 되었다.
of a desired temporary fill (lot in place huma) of a desired to	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 19.15.17.13 NMAC	propriate requirements of 19.15.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the second of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection  Waste Material Sampling Plan - based upon the appropriate requirements of Subsection	F of 19.15.17.13 NMAC
and applicable recomments of Cubanation II and a	2보고 있어요. 1500 1500 1500 1500 H.
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	Calliot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

Form C-144

Name (D	information submitted with this application is tr	ue, accurate and complete to the b	est of my knowledge and belief
	Crystal Faloya	Title:	Regulatory Technician
Signature:	Cuplal Schools	Date:	12/22/2008
e-mail address:	rystal tatoya @ conocophillips.com	Telephone:	505-326-9837
20			20 70,7
	Permit Application (including closure plan) Signature: CRWhiteho	Closure Plan (only)	OCD Conditions (see attachment)
Title: Enviro	onmental Specialist	OCD Permit	Approval Date: September 17, 202  Number: BGT 1
21		OCD FEITHE	Number: DG11
report is required to be si	tired within 60 days of closure completion are required to obtain an approved closure plan pubmitted to the division within 60 days of the control to the division within 60 days of the control to the closure activities have been obtained and the closure activities have been obtained.	prior to implementing any closure npletion of the closure activities. Deen completed.	activities and submitting the closure report. The closure Please do not complete this section of the form until an
22		Closure C	ompletion Date:
3	approved plan, please explain.		Closed-toop systems only)
Disposal Facility Name Disposal Facility Name Were the closed-loop sy Yes (If yes, please of Required for impacted di	estimates and associated activities perform demonstrate compliane to the items below)	Disposal Facility Perm Disposal Facility Perm Disposal Facility Perm ned on or in areas that will not be	were disposed. Use attachment if more than two facilities  nit Number:
Soil Backfilling and	noto Documentation)		
Clames D	chment Checklist: Instructions: Each of the f	ollowing items must be attached	o the closure report. Please indicate, by a check mark in
Proof of Deed Noti Plot Plan (for on-si	iotice (surface owner and division) ice (required for on-site closure) ite closures and temporary pits)		r was mateur, by a creek mark in
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Form C-144

Oil Conservation Division

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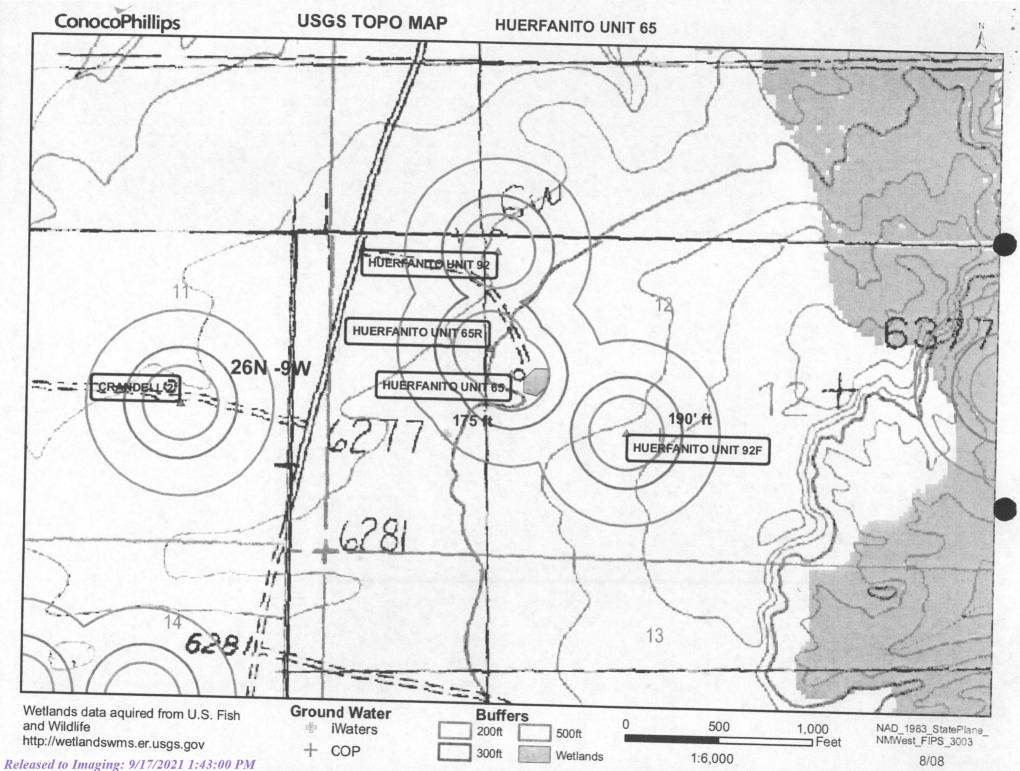
# New Mexico Office of the State Engineer POD Reports and Downloads

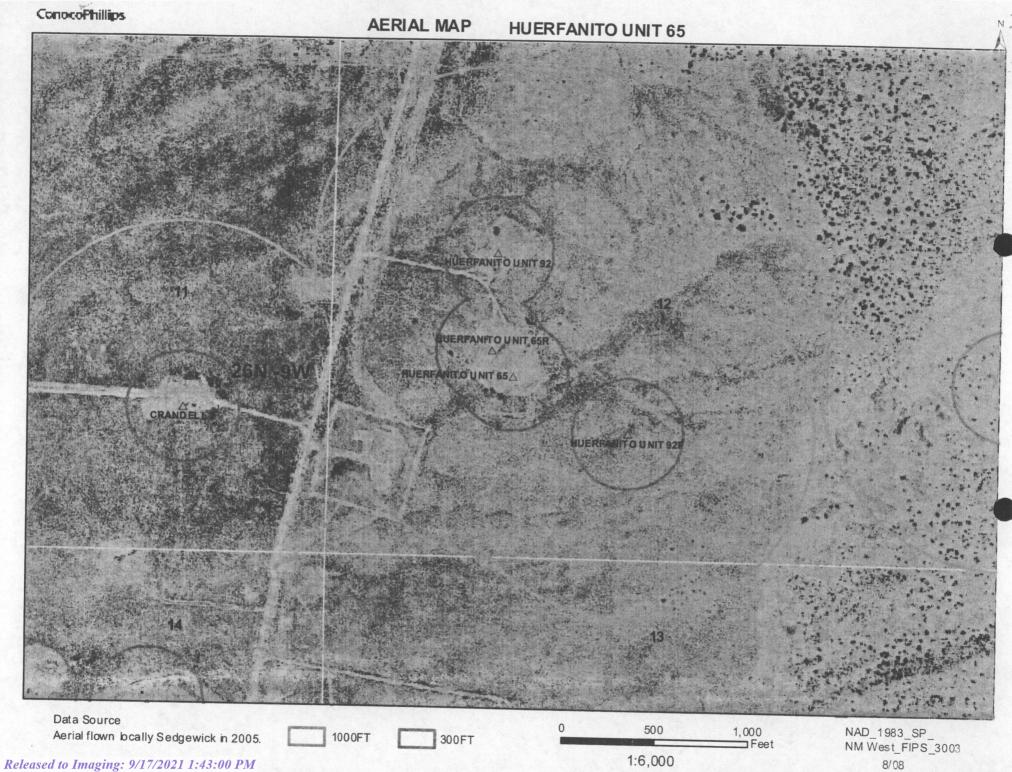
Township: 26N Range	e: 09W Sections:	
NAD27 X: Y:	Zone:	Search Radius:
County: Basin:	<u> </u>	Number: Suffix:
Owner Name: (First)	(Last)	C Non-Domestic C Domestic
POD / Surface Data Report	Avg Depth to Water Re	port Water Column Report
Clear	Form iWATERS Menu	Help

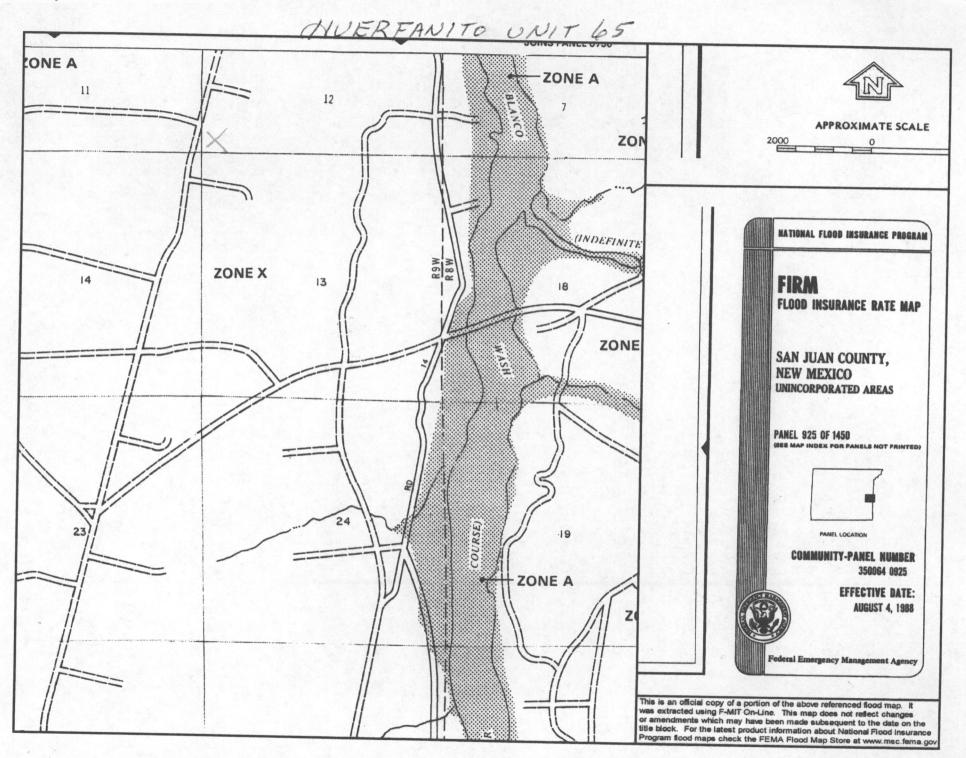
### WATER COLUMN REPORT 08/20/2008

							3=SW 4=SE; smallest;			Depth	Depth	Water	/in
POD Number	Tws	Rng	Sec	q	q	a	Zone	х	Y	Well	Water		(III
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SJ 02962	26N		01							1500 1500			
SJ 01756	26N		11							75	4.0	2.5	
SJ 03811 POD1	26N	09W	12	3	3	3				348	40	35	
SJ 00412	26N	09W			2						175	173	
SJ 00214	26N	09W		2	-	2				202	65	137	
SJ 00064	26N	09W			2	-				946	230	716	
SJ 00063				0.00						490	215	275	
50 00003	26N	09W	26	4	2	3				479	23/	215	

Record Count: 8



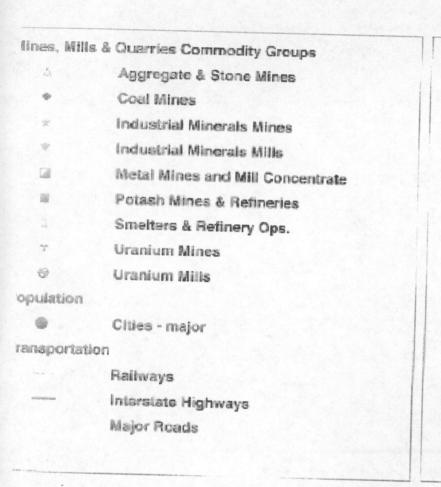


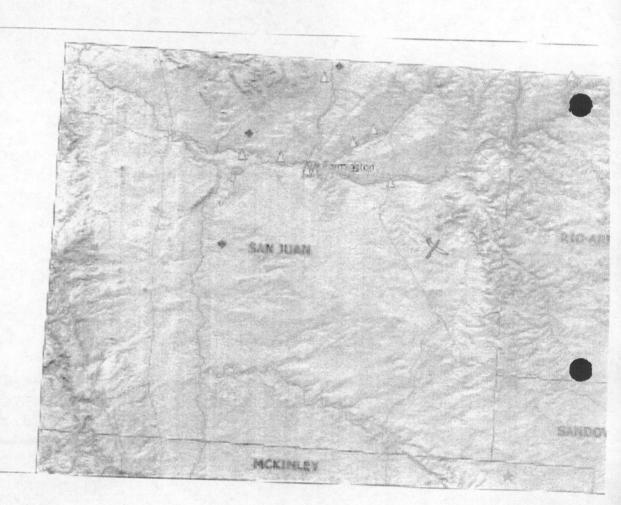


# Mines, Mills and Quarries Web Map

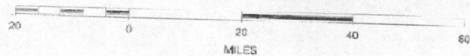
**HUERFANITO UNIT 65** 

Unit Letter: M, Section: 12, Town: 026N, Range: 009W









## **HUERFANITO UNIT 65**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUERFANITO UNIT 65', which is located at 36.49796 degree North latitude and 107.74593 degrees West longitude. This location is located on the Thompson Mesa 7.5' USGS topographic quadrangle. This location is in section 12 of Township 26 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 Nageezi, located 16.0 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 30.3 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 8.6 miles to the southwest. The location is on BLM land and is 1,667 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 1920 meters or 6297 feet above sea level and receives 10 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 163 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 1,535 feet to the north and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,426 feet to the northwest. The nearest water body is 23 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 33,345 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 682 feet to the southeast. The nearest wetland is a 0.4 acre Other located 0 feet to the east. The slope at this location is 3 degree to the northwest 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 22.1 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 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.

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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.

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

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

## 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 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 "Water-Hauling" Company indicating a high level and to the designated contract 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.
- 11. 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

# 130, 136 a 145

PROPERTIES	TEST METHO	4. 1 1 La 103	J30BB		136BB	the state of the state of	AND THE PARTY OF THE PARTY.
Anna		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro		Typical Ro
Appearance		Bla	ack/Black		Trorages	Averages	
Thickness	ASTM D 5199	27 mil	T		ck/Black	Bla	ck/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs	30 mil	32 mil	36 mil	40 mil	45 mil
Construction	3201	(18.14)	(20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs
Ply Adhesion		**Ex	trusion laminate	ed with encapsu	lated tri-direction	(=:.21)	(30.24)
7 - 111001014	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs		
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD	113 lbf MD	25 lbs 110 lbf MD	31 lbs 138 lbf MD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD	750 MD	70 lbf DD	87 lbf DD	84 lbf DD	105 lbf DD
1" Tensile Elongation @	7,000	550 DD	750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD	36 MD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD	104 lbf MD	20 DD 100 lbf MD	36 DD
Grab Tensile	ASTM D 700	180 lbf MD		75 lbf DD	92 lbf DD	100 lbf DD	117 lbf MD 118 lbf DD
	ASTM D 7004	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
rapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD	189 lbf MD	160 lbf MD	258 lbf DD
Dimensional Stability	ASTM D 1204	<1		130 lbf DD	172 lbf DD	160 lbf DD	193 lbf MD 191 lbf DD
uncture Resistance	ASTM D 4833	50 lbf	<0.5	<1	<0.5	<1	<0.5
Maximum 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	The second secon	-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

\*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

# 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 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 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 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 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 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 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 tanks'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 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 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
- 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 47787

#### **QUESTIONS**

ı	Operator:	OGRID:
ı	HILCORP ENERGY COMPANY	372171
ı	1111 Travis Street	Action Number:
ı	Houston, TX 77002	47787
ı		Action Type:
ı		[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.)

İ	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	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.

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

ACKNOWLEDGMENTS

Action 47787

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	47787	
	Action Type:	
	[C-144] Legacy Below Grade Tank Plan (C-144LB)	

#### **ACKNOWLEDGMENTS**

E	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.	
E	8	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 47787

#### **CONDITIONS**

Operator:	OGRID:
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	[C-144] Legacy Below Grade Tank Plan (C-144LB)

#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/17/2021