District I
1625 N. French Dr., Hobbs, NM 88240

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

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

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

District IV

State of New Mexico
Energy Minerals and Natural Resources
Department

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
	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 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 pit, closed-loop syste

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

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

environment. Nor does approval relieve the operator of its responsibility to comply with any other applica	ble governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: HUERFANITO UNIT 86A	
API Number: 3004523447 OCD Permit Num	ber:
U/L or Qtr/Qtr: C Section: 36 Township: 27N	9W County: San Juan
Center of Proposed Design: Latitude: 36.53584°N Longitude:	-107.74242°W NAD: X 1927 1983
Surface Owner: Federal State Private X Tribal Trust or Indi	ian Allotment
String-Reinforced	HDPE PVC Other bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC	to activities which require prior approval of a permit or HDPE PVD Other
X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automaterial	tomatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil	Unspecified
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environment of the San	onmental Bureau office for consideration of approval.

Form C-144

Oil Conservation Division

12/22/2008

Fencing: Subsection D of 19.15.17.11 NMAC plus to permanent pit, temporary pits, and below year for a feet		Page 2
[] , and return grade raths.)		
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 language for barbet form to the characteristic form.	d, institution or	church)
Four 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.		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
C Production of a rectanges and physically feasible)		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner)	consideration of	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		
	NA	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.		
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) 	Yes	No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes XNA	No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.		□No XNo
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	XNA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	XNA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	X NA Yes	X No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	XNA Yes Yes	XNo XNo
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	XNA Yes Yes	X No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area.	XNA Yes Yes	XNo XNo
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	XNA Yes Yes	XNo XNo XNo

Temp@rary Pits, Emergency Pits and Below-grade Tanks Permit Application Att Instructions: Each of the following items must be attached to the application. Please indicate,	achment Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Pa	by a check mark in the box, that the documents are attached,
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requiren	nents of Paragraph (2) of Subsection B of 10.15.17.0
X Siting Criteria Compliance Demonstrations - based upon the appropriate require	ments of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	mens of 17.13.17.10 NWAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 1	9 15 17 12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon 19.15.17.9 NMAC and 19.15.17.13 NMAC	the appropriate requirements of Subsection C of
Prayiously Approved Design (see)	
12 API	or Permit
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19. Instructions: Each of the following items must be attached to the application. Please indicate, b Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API	of a check mark in the box, that the documents are attached. direments of Paragraph (3) of Subsection B of 19.15.17.9 In the appropriate requirements of 19.15.17.10 NMAC
Previously Approved Operating and Maintenance Plan API	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of IDike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 No. Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of Ignative Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.10 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of Ignative Construction 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	on B of 19.15.17.9 NMAC ents of 19.15.17.10 NMAC 9.15.17.11 NMAC ements of 19.15.17.11 NMAC NMAC quirements of 19.15.17.11 NMAC 5.17.12 NMAC ents of 19.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the propo	nt Pit X Below-grade Tank Closed-loop System (x) (x) (x) (x)
15	The Sama Pe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions. Please indicate, by a check mark in the box, that the documents are attached. The Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC) Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cutting Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection I of 19.15 Re-vegetation Plan - based upon the appropriate requirements of Subsection G of the subsection Plan - based upon the appropriate requirements of Subsection G of the subsection G of the subsection G of the subsection B of the subsection G of the subsection G of the subsection G of the subsection G of the subsection B of the subsection G of	IMAC s of Subsection F of 19.15.17 13 NMAC lgs) ents of Subsection H of 19.15.17.13 NMAC 5.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste	el Tanks or Haul-off Bins Only: (19.15.17.13.D NMA	C)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	fluids and drill cuttings. Use attachment if more than r	wo facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name.	Disposal Facility Permit #	
Will any of the proposed closed-loop system operations and associated activitie Yes (If yes, please provide the information No	s occur on or in areas that will not be used for futur	re 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 appropria	te requirements of Subsection H of 19.15.17.13 NM	1AC
The regetation Fian based upon the appropriate requirements of Subsection	tion I of 19 15 17 13 NMAC	
Site Reclamation Plan - based upon the appropraite requirements of Sub	section G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each string criteria requires a demonstration of compliance in the closure plan. Receitain siting criteria may require administrative approval from the appropriate district office of for consideration of approval. Justifications and/or demonstrations of equivalency are required.	ecommendations of acceptable source material are provided b	pelow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ned 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 obtain	ed from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ed from nearby walls	Yes No
		□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significa (measured from the ordinary high-water mark).	nt 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 ex	istence at the time of initial application	
 Visual inspection (certification) of the proposed site; Aerial photo; satellite image 	and the or initial application.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence NM Office of the State Engineer (WATTER).	five households use for domestic or stock watering	Yes No
Will Office of the State Engineer - IWATERS database; Visual inspection (certificati	on) of the proposed site	
pursuant to NMSA 1978, Section 3-27-3, as amended.	field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written approval obtained Within 500 feet of a wetland 	ed from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspecti		Yes No
Within the area overlying a subsurface mine.	on (certification) of the proposed site	
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mine	eral Division	Yes No
Within an unstable area.		□Yes □No
 Engineering measures incorporated into the design; NM Bureau of Geology & Miner. Topographic map 	al Resources; USGS; NM Geological Society;	
Within a 100-year floodplain.		
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	te following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate req	uirements of 10 15 17 10 ND 1.5	
Proof of Surface Owner Notice - based upon the appropriate requirements of	Subsection F of 10.15.17.10 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the ap	Propriete requirements of 10.15.17.13 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pa	ad) based upon the	
Protocols and Procedures - based upon the appropriate requirements of 19.15	17.13 NMAC	15.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requ	tirements of Subsection E of 10 15 17 12 No. 2	
Waste Material Sampling Plan - based upon the appropriate requirements of	Subsection F of 10.15.17.12 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids and dr	rill cuttings or in core on site at-	
Soil Cover Design - based upon the appropriate requirements of Subsection F	of 19.15.17.13 NMAC	ot 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	on G of 19.15.17.13 NMAC	

Form C-144

Operator Application Thereby certify that the i	Certification:		The second secon	
Thereby certify that the i				
	nformation submitted with this application is true, ac	curate and complete to the	pest of my knowledge and belief.	
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician	
Signature:	Crystal Duleya	Date:	12/22/2008	
e-mail address:	roystal tatoya 9 conocophillios com	Telephone:	505-326-9837	
OCD Approval:	Permit Application (including closure plan)	1		
			OCD Conditions (see attachment)	
OCD Representative S	Signature:	d	Approval Date: November 15, 202	21
Title: Environ	mental Specialist	OCD D	as A A Comment of the	
		OCD Perm	t Number: BGT 1	
21				
Instructions: Operators at	red within 60 days of closure completion): Su	bsection K of 19.15.17.13 NMAC		
			e activities and submitting the closure report. The closure Please do not complete this section of the form until an	
approved closure plan has	s been obtained and the closure activities have been	completed.	Please do not complete this section of the form until an	
		Closure	Completion Date:	
22				
Closure Method:				
Waste Excavation	and Removal On-site Closure Method	Alternative Closure M	athod DW . B	
If different from ap	pproved plan, please explain.		ethod Waste Removal (Closed-loop systems only)	
23				
	g Waste Removal Closure For Closed Ican Sustain	- TPL - 4 KY-111		
Instructions: Please identi	g Waste Removal Closure For Closed-loop System fy the facility or facilities for where the liquids, dril	is That Utilize Above Grou	nd Steel Tanks or Haul-off Bins Only: s were disposed. Use attachment if more than two facilities	
		and the cauting	were disposed. Use attachment if more than two facilities	
Disposal Facility Name:		Disposal Facility Pe	rmit Number:	
Disposal Facility Name:				
Ware the aloned loss		Disposal Facility Pe	rmit Number:	
Were the closed-loop sy	stem operations and associated activities performed	on or in areas that will not b	rmit Number:e used for future service and opeartions?	
res (ii yes, piease t	stem operations and associated activities performed demonstrate compliane to the items below)	on or in areas that will not b	rmit Number:e used for future service and opeartions?	
Required for impacted a	stem operations and associated activities performed demonstrate compliane to the items below) [Treas which will not be used for future service and one of the items below]	on or in areas that will not b	rmit Number: e used for future service and opeartions?	
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Required for impacted a Site Reclamation (P Soil Backfilling and	stem operations and associated activities performed demonstrate complilane to the items below) reas which will not be used for future service and op thoto Documentation) 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 a Site Reclamation (P Soil Backfilling and Re-vegetation Appli Closure Report Attacthe box, that the docume Proof of Closure N	stem operations and associated activities performed demonstrate complilane to the items below) reas which will not be used for future service and op thoto Documentation) Cover Installation cation Rates and Seeding Technique chment Checklist: Instructions: Each of the followits are attached. otice (surface owner and division)	on or in areas that will not by No No Perations:	e used for future service and opeartions?	
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Required for impacted a Site Reclamation (P Soil Backfilling and Re-vegetation Appli Closure Report Attacthe box, that the docume Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp	stem operations and associated activities performed demonstrate complilane to the items below) reas which will not be used for future service and op thoto Documentation) Cover Installation cation Rates and Seeding Technique chment Checklist: Instructions: Each of the followints are attached. otice (surface owner and division) tee (required for on-site closure) te closures and temporary pits) oling Analytical Results (if applicable)	on or in areas that will not by No No Perations:	e used for future service and opeartions?	
Required for impacted a Site Reclamation (P Soil Backfilling and Re-vegetation Appli Closure Report Attacthe box, that the docume Proof of Closure N Proof of Deed Noti Plot Plan (for on-si Confirmation Samp Waste Material Sar	stem operations and associated activities performed demonstrate complilane to the items below) reas which will not be used for future service and op thoto Documentation) Cover Installation cation Rates and Seeding Technique chment Checklist: Instructions: Each of the followints are attached. Totice (surface owner and division) tice (required for on-site closure) the closures and temporary pits) pling Analytical Results (if applicable) inpling Analytical Results (if applicable)	on or in areas that will not by No No Perations:	e used for future service and opeartions?	
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Form C:144

Oil Conservation Division

Page 5 of 5

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	Township: 27N Range:	09W Sections:			
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County:	Basin:		Number:	Suffix:	
Owner Name:	(First)	(Last)	C Non-Dom	nestic C Don	nestic • All
POD/	Surface Data Report	Avg Depth to Water	Report	Water Column	Report
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Column

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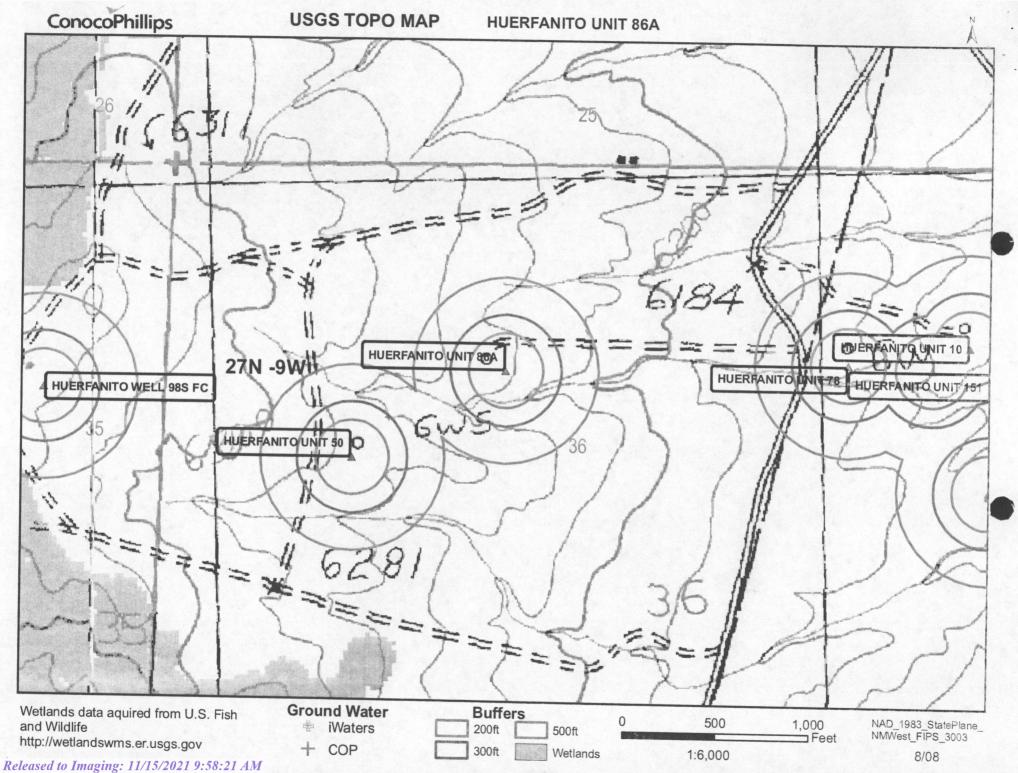
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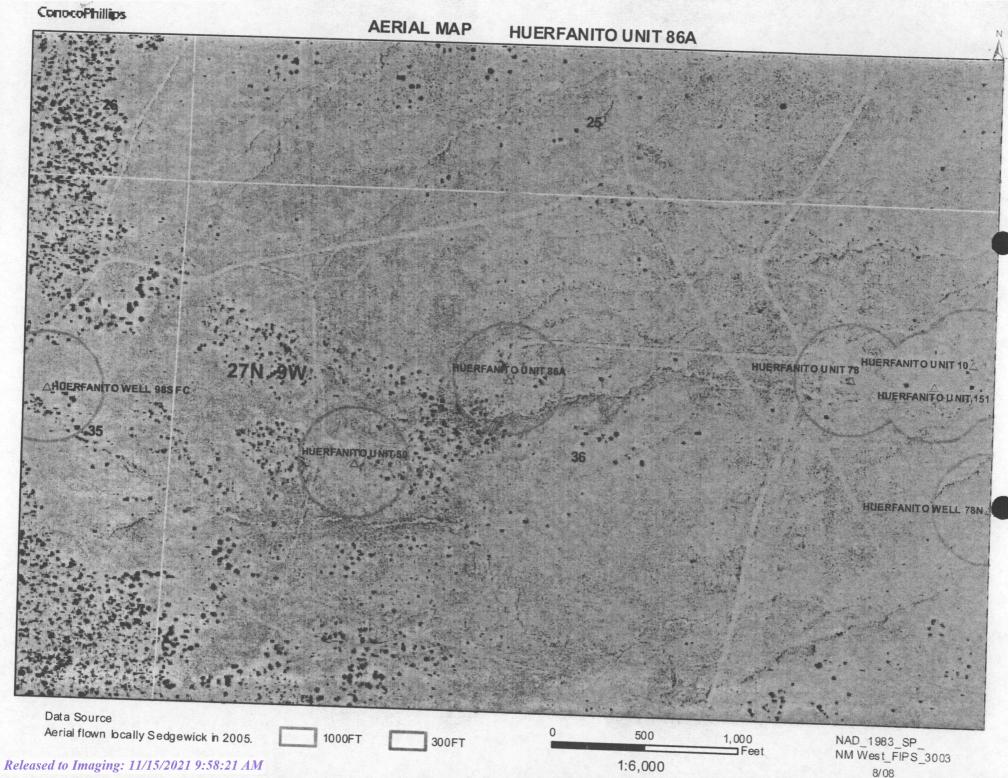
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WATER COLUMN REPORT 08/20/2008

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SJ 02962	26N	09W	01	3	2	3				1500			
SJ 01756	26N	09W	11	2	2	3				75	40	35	
SJ 03811 POD1	26N	09W	12	3	3	3				348	175	173	
SJ 00412	26N	09W	16	4	2					202	65	137	
SJ 00214	26N	09W	26	2	4	2				946	230	716	
SJ 00064	26N	09W	26	4	2	1				490	215	275	
SJ 00063	26N	09W	26	4	2	3				479	234	245	

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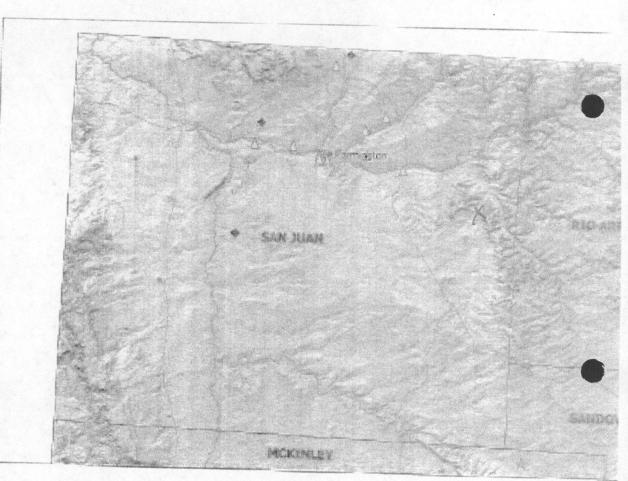


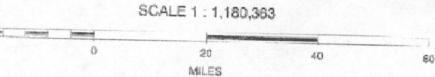
Mines, Mills and Quarries Web Map

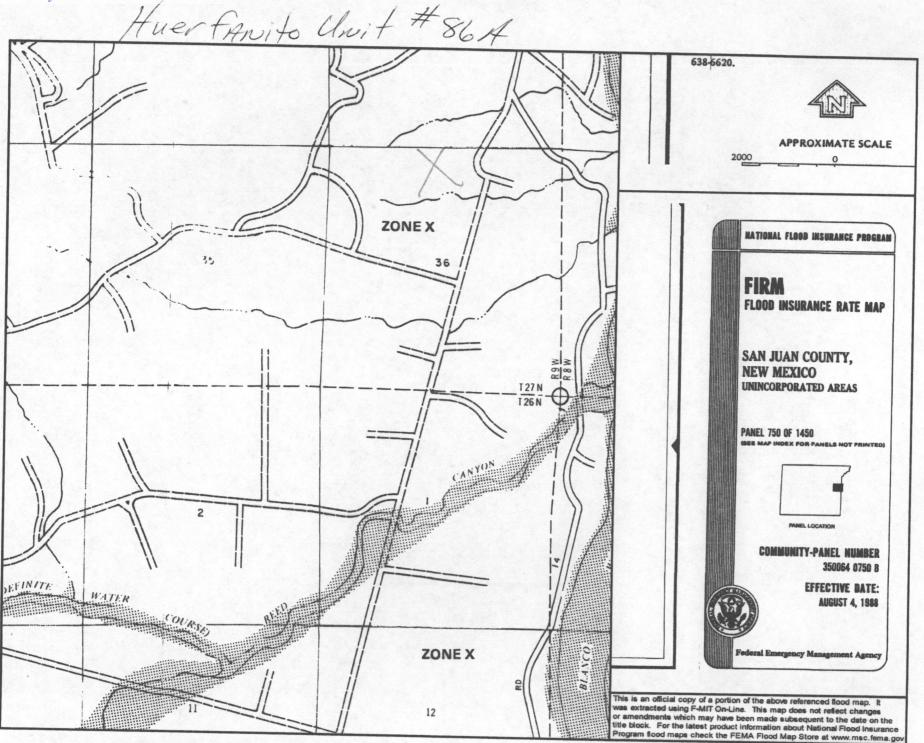
HUERFANITO UNIT 86A

Unit Letter: C, Section: 36, Town: 027N, Range: 009W

lines, Mi	lls & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
W	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
H	Potash Mines & Refineries
6-1 ₁ , 936.	Smelters & Refinery Ops.
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opulation	
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ranaporta	ition
Same and the	Railways
ANDERGOSTAN	Interstate Highways
	Major Roads







HUERFANITO UNIT 86A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUERFANITO UNIT 86A', which is located at 36.53584 degree North latitude and 107.74242 degree West longitude. This location is located on the Fresno Canyon 7.5' USGS topographic quadrangle. This location is in section 36 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 13.8 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 29.1 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 10.2 miles to the southwest. The location is on State land and is 1,026 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 1906 meters or 6251 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 169 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 98 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,312 feet to the north. The nearest water body is 4,922 feet to the northeast. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 19,517 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 5,645 feet to the southeast. The nearest wetland is a 1,541.8 acre Ravine located 5,020 feet to the southeast. The slope at this location is 1 degree to the southeast 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 24.7 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.

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 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 "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 drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by 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.

DRAIN FROM SEPARATORS

SWABLINE

VENT LINE

ENVIROMENTAL DRAIN LINE

DRAIN LINES FROM TANKS

TO RTU ;

TO RTU +

LAHH

LAH

LI

LSHH

MANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID

AUTOMATED OPERATION

1) VENT VALVE DRAIN LINE

EXPANDED METAL COVER

- 2) DUMP LINE FROM SEPARATORS
- 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10' FROM TOP OF TANK

3" TRUCK LOADOUT CONNECTION
SLOPE TO DRAIN
TRUCK GROUND CONNECTION

HINGED MANWAY 3" TRUCK LUAD LINE PRIGINAL GRADE CORROGATED RETAINING WALL 4" SLOTTED HEIGHT 56' "SUPER MUFFLER" SA-36 3/16" PLATE SA-36 1/4" PLATE DURASKRIM J45 IMPERMEABLE 9 LINER FOR VISIBLE LEAK DETECTION

PROPERLY
CONSTRUCTED
FOUNDATION VOID OF
ANY SHARP OBJECTS

ConocoPhillips

San Juan Business Unit

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

PROPERTIES	TEST METHO	in the .	J3088		J368 6	2	145BB
Appearance		Min. Roll Averages		Min. Roll Averages	Typical Ro	II Min. Roll	Typical Ro
The second secon		Bla	ack/Black		ck/Black	- Taragos	Averages
Thickness	ASTM D 5199	27 mil	30 mil			Bla	ck/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs	140 lbs	32 mil	36 mil	40 mil	45 mil
Construction		(18.14)	(20.16)	(21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Ply Adhesion	ACTUR	"Ex	trusion laminate	d with encapsu	lated tri-directio	nal scrim reinfo	Troomant.
	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD	138 lbf MD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD	84 lbf DD 550 MD	105 lbf DD 750 MD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD	33 MD	20 MD	750 DD 30 MD	550 DD	750 DD
Tongue Tear Strength		20 DD	33 DD	20 DD	31DD	20 MD 20 DD	36 MD 36 DD
	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	118 lbf DD 257 lbf MD 258 lbf DD
rapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD	160 lbf MD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5		172 lbf DD	160 lbf DD	191 lbf DD
uncture Resistance	ASTM D 4833	50 lbf		<1	<0.5	<1	<0.5
aximum Use Temperature		180° F	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
inimum Use Temperature			180° F				
= Machine Direction = Diagonal Directions		-70° F					



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories. *Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

08/06

RAVEN INDUSTRIES

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the that the sale hereunder is for commercial or industrial use only.

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or 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 twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file 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.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. 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 60600

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	60600
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water			
Please answer as many of these questions as possible in this group. More information will help us identify the appropriate associations in the system.			
Facility or Site Name	Huerfanito Unit 86A		
Facility ID (f#), if known	Not answered.		
Facility Type	Below Grade Tank - (BGT)		
Well Name, include well number	Huerfanito Unit 86A		
Well API, if associated with a well	3004523447		
Pit / Tank Type	Not answered.		
Pit / Tank Name or Identifier	BGT 1		
Pit / Tank Opened Date, if known	Not answered.		
Pit / Tank Dimensions, Length (ft)	Not answered.		
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.		
Pit / Tank Dimensions, Depth (ft)	Not answered.		
Ground Water Depth (ft)	169		
Ground Water Impact	Not answered.		
Ground Water Quality (TDS)	Not answered.		

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

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

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

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.	
	Signed in compliance with 19.15.16.8 NMAC	True	

Variances and Exceptions		
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:		
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	True	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.	

Siting Criteria (regarding permitting)

19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

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

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

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

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

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ACKNOWLEDGMENTS

Action 60600

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	60600
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

V	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.		
V			

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CONDITIONS

Action 60600

CONDITIONS

Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	60600	
	Action Type:	
	[C-144] Legacy Below Grade Tank Plan (C-144LB)	

CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	11/15/2021