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

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-144 July 21, 2008

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

For permanent pits and exceptions submit to the Santa Fe

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.					
	Pit, Closed-Loop System, Below-Grade	Tank, or					
Propose	ed Alternative Method Permit or Closure	e Plan Application					
Type of action:	X Permit of a pit, closed-loop system, below-grade tan	ak, or proposed alternative method					
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method							
BGT 1	있는데 하면 하는데 하는데 하는데 하는데 하는데 하는데 보고 있다면 하는데						
	Closure plan only submitted for an existing permitte below-grade tank, or proposed alternative method	d or non-permitted pit, closed-loop system,					
Instructions: Please submit one app	plication (Form C-144) per individual pit, closed-loop	system helow grade tank on alternation					
Please be advised that approval of t	this request does not relieve the operator of liability should operations result	ult in pollution of surface water, ground water on the					
environment. Nor does approval reliev	re the operator of its responsibility to comply with any other applicable go	vernmental authority's rules, regulations or ordinances.					
Operator: Burlington Resources Oil		OGRID#: 14538					
Address: PO Box 4289, Farmington,	NM 87499						
Facility or well name: HUERFANITO	O UNIT 23R						
API Number: 300	04532226 OCD Permit Number:						
U/L or Qtr/Qtr: F Section	Kange	V County: San Juan					
Center of Proposed Design: Latitude: Surface Owner: X Federal X		-107.79654°W NAD: X 1927 1983					
Surface Owner: X Federal	State Private Tribal Trust or Indian A	Allotment					
	ver itation P&A r type: Thickness mil LLDPE HE	DPE PVC Other obl Dimensions L x W x D					
Type of Operation: P&A	notice of intent) Steel Tanks Haul-off Bins Other pe: Thickness mil LLDPE HDP	ivities which require prior approval of a permit or E PVD Other					
X Below-grade tank: Subsection I of Volume: 120 bbl Tank Construction material: Secondary containment with leak detect Visible sidewalls and liner Liner Type: Thickness	Type of fluid: Produced Water Metal ion X Visible sidewalls, liner, 6-inch lift and automat Visible sidewalls only Other	ic overflow shut-off					
Alternative Method: Submittal of an exception request is require	ed. Exceptions must be submitted to the Santa Fe Environmen	atal Ruragu office for consideration					

Form C-144

Oil Conservation Division

Page 1 of 5
12/22/2008

ceived by OCD: 9/12/2021 10:21:56 AM	Page 2 of 24
Fencing: Subsection D of 19.15-17.11 NMAC (Ap), to permanent pit, temporary pits, and below grade tanks) Chain link, six feet in height, two strands of barbed wire at too (Recurred of locates) without 1000 6 2 2 6	
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 Four foot height, four strands of barbed wire evenly spaced between one and four feet	d, institution or church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
a system the straints barbet wife.	
Netting: Subsection E 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 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.	
The same of the Santa Pe Environmental Bureau office for consideration of approval.	
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. 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)	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
(Applied to permanent pits)	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes XNo
Within an unstable area.	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes X No
Within a 100-year floodplain - FEMA map	Yes XNo

Temporary Pits, Eme	ergency Pits and Relow-grade To	nla Damit A					
			n Attachment Checklist: Subsection B of 19.15.17.9 NMAC licate, by a check mark in the box, that the documents are attached.				
I Jan Bearington	report (below-grade ranks) - based	d upon the requirements	of Paragraph (4) of Subsection Description				
Hydrogeologic I	Data (Temporary and Emergency Pi	its) - based upon the reu	direments of Paragraph (2) of Subsection B of 10.15.17.9 NMAC				
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Sitting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC							
X Design Plan - ba	Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC						
X Operating and M	faintenance Plan - based upon the a	innropriate consistent	AC				
X Closure Plan (Pl	case complete Boyes 14 through 19	oppropriate requirements	6 0F 19.15.17.12 NMAC				
		s, if applicable) - based i	upon the appropriate requirements of Subsection C of				
Previously Approved	Design (attach copy of design)	API	or Permit				
Geologic and Hy Siting Criteria Co Design Plan - bas Operating and M Closure Plan (Ple NMAC and 19.15 Previously Approved	ompliance Demonstrations (only for sed upon the appropriate requirement aintenance Plan - based upon the ap ase complete Boxes 14 through 18, 5.17.13 NMAC Design (attach copy of design)	closure) - based upon the ron-site closure) - based upon the ron-site closure) - based nts of 19.15.17.11 NMA ppropriate requirements if applicable) - based up	ate, by a check mark in the box, that the documents are attached, a requirements of Paragraph (3) of Subsection B of 19.15.17.9 I upon the appropriate requirements of 19.15.17.10 NMAC				
Previously Approved	Operating and Maintenance Plan	API					
Hydrogeologic Re Siting Criteria Coo Climatological Fac Certified Engineer Dike Protection an Leak Detection De Liner Specification Quality Control/Qu Operating and Mai Freeboard and Ove Nuisance or Hazard Emergency Respon Oil Field Waste Str Monitoring and Ins Erosion Control Pla Closure Plan - based	inpliance Demonstrations - based up- tors Assessment ing Design Plans - based upon the a d Structural Integrity Design: based sign - based upon the appropriate re is and Compatibility Assessment - b hality Assurance Construction and Ir ntenance Plan - based upon the appr rtopping Prevention Plan - based up hous Odors, including H2S, Prevent se Plan eam Characterization pection Plan	the application. Please indicate of Paragraph (I) of Substance of Paragraph (I) of Substance of Paragraph (I) of Substance of Paragraph (I) of	section B of 19.15.17.9 NMAC section B of 19.15.17.10 NMAC section B of 19.15.17.11 NMAC sof 19.15.17.11 NMAC squirements of 19.15.17.11 NMAC state requirements of 19.15.17.11 NMAC state requirements of 19.15.17.11 NMAC				
Proposed Closure: 19.15	.17.13 NMAC						
nstructions: Please complete	e the applicable boxes. Boxes 14 throu	ugh 18, in regards to the n	proposed closure plan				
ype: Drilling Wo	rkover Emergency Cavitati	ion P&A Perm	nanent Pit X Below-grade Tank Closed-loop System				
roposed Closure Method:	X Waste Excavation and Removal	l (Below-Grade	Took				
	Waste Removal (Closed-loop sy		lank)				
	On-site Closure Method (only fo	or temporary pits and clos	sed loop systems				
		On-site Trench	sed-loop systems)				
		Centions must be set					
	Samuel Colorade Method (Exc	ceptions must be submitt	ted to the Santa Fe Environmental Bureau for consideration)				
i .							
aste Excavation and Res	noval Closure Plan Checklist: (19	15 17 12 NIMACO Z	tions: Each of the following items must be attached to the				
		9.15.17.13 NMAC) Instruc	ctions: Each of the following items must be attached to the closure plan.				
X Protocols and Proced	ures - based upon the appropriate re-	9.15.17.13 NMAC) Instruct entached.	13 NMAC				
X Protocols and ProcedX Confirmation Sampling	ures - based upon the appropriate reing Plan (if applicable) - based upon	9.15.17.13 NMAC) Instruct entached. equirements of 19.15.17.	.13 NMAC				
 X Protocols and Proced X Confirmation Sampli X Disposal Facility Nan 	ures - based upon the appropriate re- ng Plan (if applicable) - based upon ne and Permit Number (for liquids)	9.15.17.13 NMAC) Instruct entached. equirements of 19.15.17.	.13 NMAC ments of Subsection F of 19.15.17.13 NMAC				
 X Protocols and Proced X Confirmation Samplin X Disposal Facility Nan X Soil Backfill and Cov 	ures - based upon the appropriate re ing Plan (if applicable) - based upon ne and Permit Number (for liquids, of er Design Specifications - based upon	9.15.17.13 NMAC) Instruct entached. equirements of 19.15.17. the appropriate requirer drilling fluids and drill con the appropriate require	.13 NMAC ments of Subsection F of 19.15.17 13 NMAC cuttings) rements of Subsection H of 19.15.17 13 NMAC				
 X Protocols and Proced X Confirmation Samplin X Disposal Facility Nan X Soil Backfill and Cov X Re-vegetation Plan - b 	ures - based upon the appropriate re- ng Plan (if applicable) - based upon ne and Permit Number (for liquids)	9.15.17.13 NMAC) Instruct entached. equirements of 19.15.17. the appropriate requirer drilling fluids and drill con the appropriate requirements of Subsection Lof	.13 NMAC ments of Subsection F of 19.15.17.13 NMAC cuttings) rements of Subsection H of 19.15.17.13 NMAC				

Form C-144

16		
Waste Removal Closure For Closed-loop Systems That Utilize Above Groun Instructions: Please identify the facility or facilities for the disposal of liquids, di	d Steel Tanks or Haul-off Bins Only: (1915 1713 D NM	MC)
Instructions: Please identify the facility or facilities for the disposal of liquids, di are required.	alling fluids and drill cuttings. Use attachment if more than	two facilities
Disposal Facility Name:	Disposal Facility Permit #-	
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated act Yes (If yes, please provide the information No	ivities occur on or in areas that will not be used for fut	ure service and operations?
Required for impacted areas which will not be used for future service and operat	·	
Soil Backfill and Cover Design Specification - based upon the appr	Contrate requirements of Cubanting II. 610.17.19	MAC
appropriate requirements of St	absection Lot 19 15 17 13 NMAC	MAC
Site Reclamation Plan - based upon the appropriate requirements of	f Subsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 N histractions: Each siting criteria requires a demonstration of compliance in the closure pl certain siting criteria may require administrative approval from the appropriate district of for consideration of approval. Justifications and/or demonstrations of equivalency are red	an. Recommendations of acceptable source material are provided	below, Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		
- NM Office of the State Engineer - iWATERS database search; USGS: Data	obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried w		∐N/A
- NM Office of the State Engineer - iWATERS database search; USGS; Data of	obtained from nearby walls	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.	wanted from fearby wers	∐N/A
- NM Office of the State Engineer - WATERS database sweet 1960 8		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data of		□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign (measured from the ordinary high-water mark).	nificant 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 - Visual inspection (certification) of the proposed site; Aerial photo: satellite ima	in existence at the time of initial application.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less purposes, or within 1000 horizontal fee of any other fresh water well or spring, in ex NM Office of the State Engineer - iWATERS database: Visual inspection (certification)	ification) of the proposed visc	Yes No
pursuant to NMSA 1978, Section 3-27-3, as amended.	well field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written approval of Within 500 feet of a wetland 	otained from the municipality	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual ins	spection (parties of the	Yes No
within the area overlying a subsurface mine.		
- Written confiramtion or verification or map from the NM EMNRD-Mining and	Mineral Division	Yes No
within an unstable area.		Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & N Topographic map 	Aineral 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 by a check mark in the box, that the documents are attached.		e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	e requirements of 19.15.17.10 NMAC	
Frooi of Surface Owner Notice - based upon the appropriate requiremen	nts of Subsection F of 19.15 17 13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	ne appropriate requirements of 19 15 17 11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying	ng pad) - based upon the appropriate requirements of 10	15.17.11 NMAC
and recedires cased apoil the appropriate requirements of	19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC	
waste Material Sampling Plan - based upon the appropriate requirement	s of Subsection F of 19 15 17 13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling fluids ar	nd drill cuttings or in case on-site closure standards	not be achieved)
and the session of Subsection	ion H of 19 15 17 13 NMAC	- Tavine (cu)
Re-vegetation Plan - based upon the appropriate requirements of Subsect	ion Lof 10 15 17 12 NMAC	
Site Reclamation Plan - based upon the appropriate requirements of Subs	ection G of 19.15.17.13 NMAC	

Name (Print):	mormation subm	iffed with this application is true			
		Constant for the	e, accurate and complete to the b	est of my knowledge and belief.	
Signature:	Parent	Crystal Fafoya	Title:	Regulatory Technician	
e-mail address:	Crysta	Mayara conocophillips.com	Date:	12/22/2008	
c man address.	- 1791a) te	troyars conocophillips.com	Telephone:	505-326-9837	
		tion (including closure plan)		OCD Conditions (see attachment)	
OCD Representative	Signature:	CRWhitehea	rd		0.000
Title: Enviro	onmental Sp	ecialist		Approval Date: September 2	.0, 202
Enviro	эттопа ор	Columbi	OCD Permit	Number: BGT 1	
report is required to be s	submitted to the div	lays of closure completion): ain an approved closure plan pr ision within 60 days of the comp and the closure activities have be	rtor to implementing any closure pletion of the closure activities, een completed.	activities and submitting the closure report. The clos Please do not complete this section of the form until a ompletion Date:	ure n
22			Closure	ompletion Date:	
Closure Method: Waste Excavation If different from a	n and Removal approved plan, plea	On-site Closure Methodise explain.	d Alternative Closure Me	thod Waste Removal (Closed-loop systems on	ly)
Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please	e: e: system operations a demonstrate comp	and the second second	Disposal Facility Pen Disposal Facility Pen Disposal Facility Pen ed on or in areas that will not be		ilities
Site Reclamation (Soil Backfilling an Re-vegetation App	d Cover Installation	ion) n	operations:		
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure ! Proof of Deed No Plot Plan (for on-s	chment Checklistents are attached. Notice (surface ovitice (required for ite closures and to	st: Instructions: Each of the forward and division) on-site closure) emporary pits)		to the closure report. Please indicate, by a check ma	ırk in
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure! Proof of Deed No Plot Plan (for on-s Confirmation Sam	chment Checklistents are attached. Notice (surface ovitice (required for cite closures and tupling Analytical)	st: Instructions: Each of the forward division) on-site closure) emporary pits) Results (if applicable)		to the closure report. Please indicate, by a check ma	irk in
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Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure? Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N	chment Checklistents are attached. Notice (surface outice (required for intercluded Analytical Impling Analytical Implication	Seeding Technique St: Instructions: Each of the forward and division) on-site closure) emporary pits) Results (if applicable) I Results (if applicable) Number		to the closure report. Please indicate, by a check ma	rk in
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Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation (chment Checklistents are attached. Notice (surface ovitice (required for interclustrated Analytical ampling Analytical Aname and Permit dication Rates and Photo Documenta	seeding Technique Seeding Technique St: Instructions: Each of the forward and division) on-site closure) emporary pits) Results (if applicable) I Results (if applicable) Number on I Seeding Technique		to the closure report. Please indicate, by a check ma	rk in
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure N Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N Soil Backfilling an Re-vegetation App	chment Checklistents are attached. Notice (surface ovitice (required for interclustrated Analytical ampling Analytical Aname and Permit dication Rates and Photo Documenta	Seeding Technique			ırk in
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure I Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility I Soil Backfilling an Re-vegetation App Site Reclamation (chment Checklistents are attached. Notice (surface ovitice (required for interclustrated Analytical ampling Analytical Aname and Permit dication Rates and Photo Documenta	Seeding Technique	ollowing items must be attached	to the closure report. Please indicate, by a check ma	rk in
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure! Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N Soil Backfilling an Re-vegetation App Site Reclamation (On-site Closure Lo	chment Checklistens are attached. Notice (surface ovitice (required for inte closures and trapling Analytical lampling Analyt	seeding Technique	ollowing items must be attached Longitude:	NAD 1927 1983	
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N Soil Backfilling an Re-vegetation App Site Reclamation (for on-site Closure Lo	chment Checklistens are attached. Notice (surface ovitice (required for inte closures and trapling Analytical lampling Analyt	seeding Technique	Longitude: e report is ture, accurate and convectified in the approved closure p	NAD 1927 1983	
Soil Backfilling an Re-vegetation App Closure Report Atta the box, that the docum Proof of Closure! Proof of Deed No Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N Soil Backfilling an Re-vegetation App Site Reclamation (On-site Closure Lo	chment Checklistens are attached. Notice (surface ovitice (required for inte closures and trapling Analytical lampling Analyt	seeding Technique	ollowing items must be attached Longitude:	NAD 1927 1983	

Form C-114

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: Sea	rch Radius:
County: Basin:	▼ Number:	Suffix:
Owner Name: (First)	(Last) C Non-	Domestic C Domestic • All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear	Form iWATERS Menu Help	1

WATER COLUMN REPORT 08/20/2008

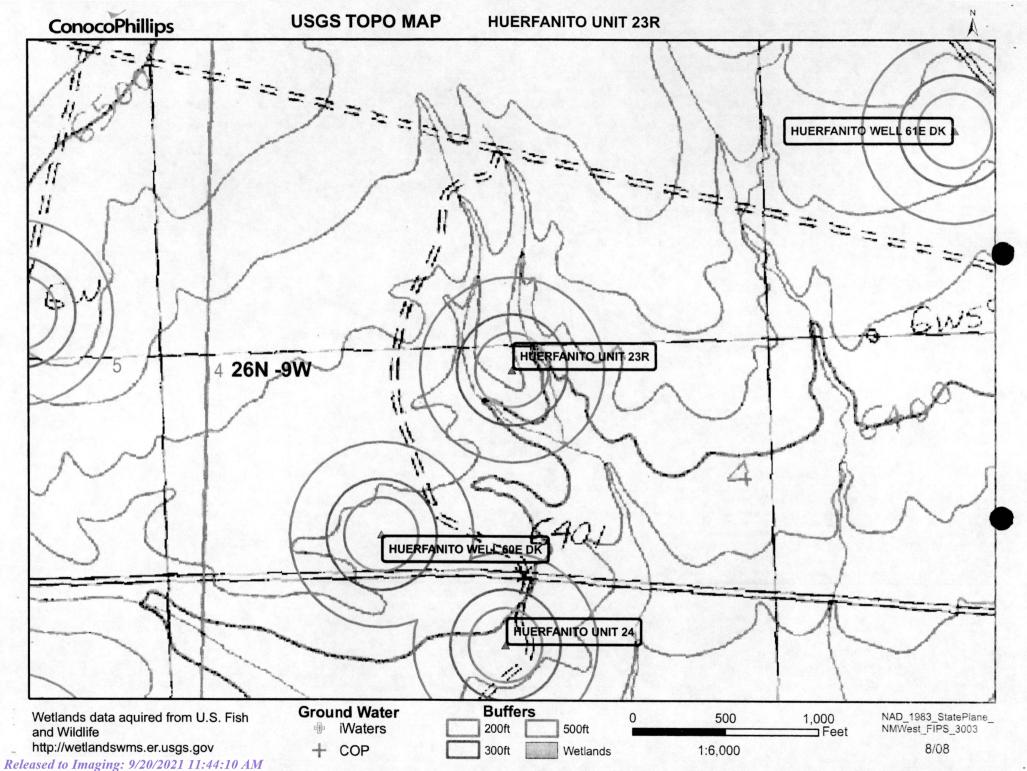
							3=SW 4=SE) smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Column	,
SJ 02961	26N	09W	01	2	2	3				1500		COLUMN	
SJ 02962	26N	09W	01	3	2	3				1500			
SJ 01756	26N	09W	11	2	2	3				75	40	35	
SJ 03811 POD1	26N	09W	12	3	3	3				348	175	173	
SJ 00412	26N	09W	16	4	2					202	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	

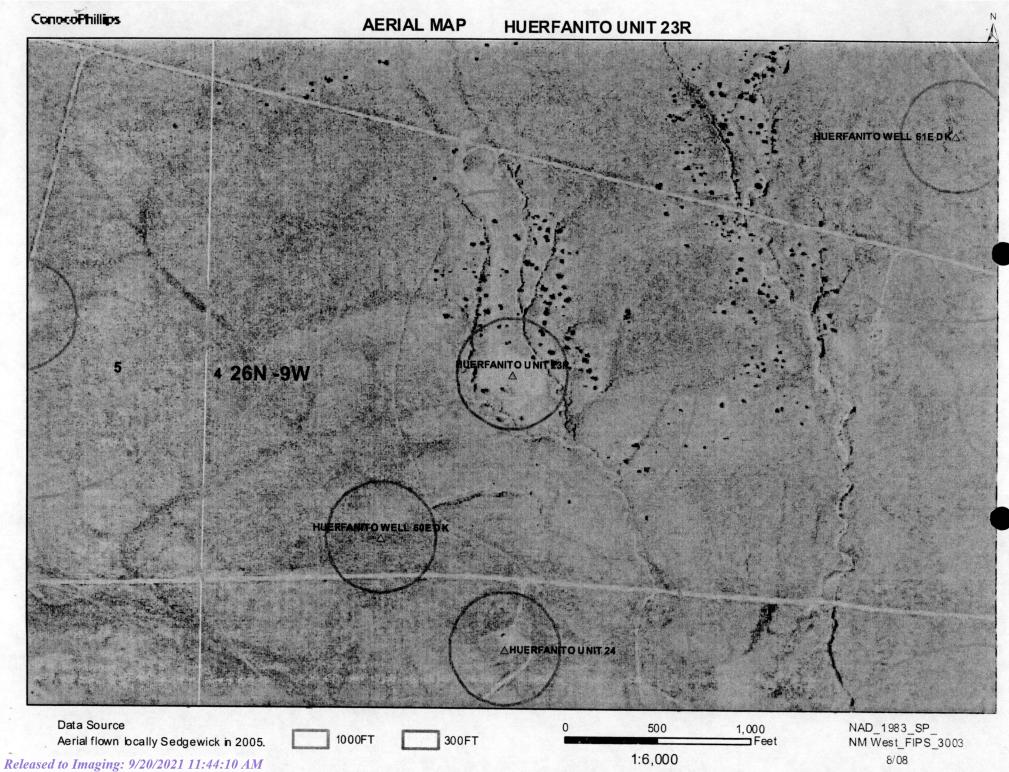
Record Count: 8

New Mexico Office of the State Engineer POD Reports and Downloads

,	Township: 27N Range	: 09W Sections:			
NA	D27 X: Y:	Zone:	y Sea	rch Radius:	
County:	Basin:		Number:	Suffix:	
Owner Name:	(First)	(Last)	C Non-	Domestic C Don	mestic • All
POD / S	Surface Data Report	Avg Depth to Wa	ter Report	Water Column	Report
	Clear F	Form iWATERS	Menu Help		
	(quarters are 1=NV	WATER COLUMN RE	PORT 08/21/2	008	
POD Number	(quarters are bigg Tws Rng Sec o	gest to smallest)	х . у	Depth Depth Well Water	Water (in Column

No Records found, try again

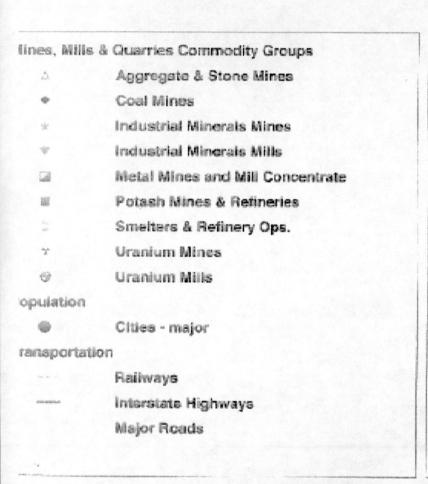


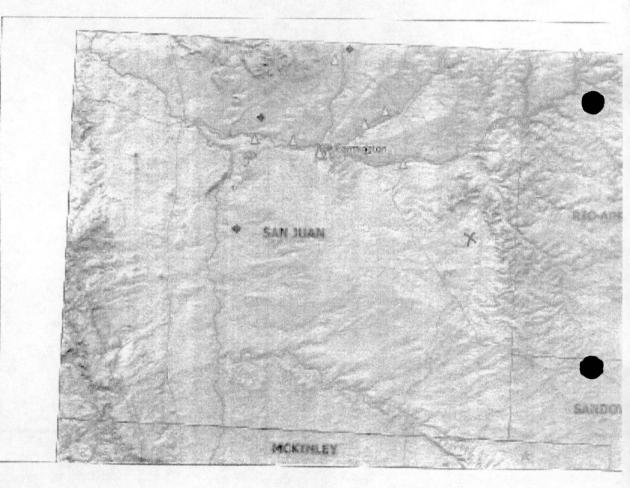


Mines, Mills and Quarries Web Map

HUERFANITO UNIT 23R

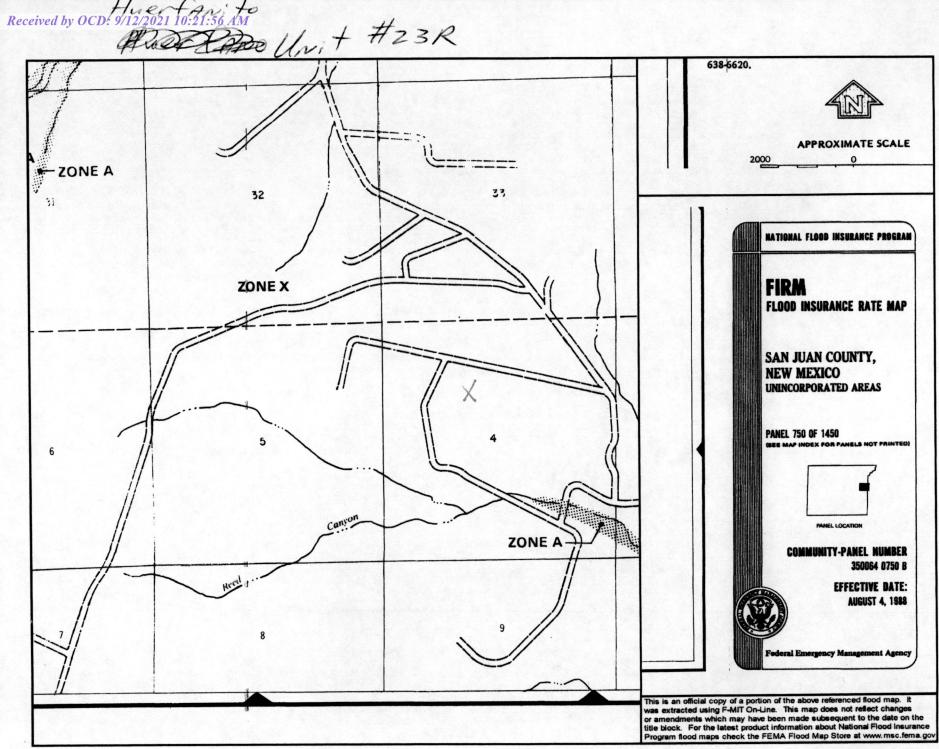
Unit Letter: F, Section: 04, Town: 026N, Range: 009W











HUERFANITO UNIT 23R

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HUERFANITO UNIT 23R', which is located at 36.51902 degree North latitude and 107.79654 degree West longitude. This location is located on the Huerfanito Peak 7.5' USGS topographic quadrangle. This location is in section 4 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 Blanco, located 14.2 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 27.1 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 7.0 miles to the southwest. The location is on BLM land and is 2,577 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 1959 meters or 6425 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 200 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 11 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,151 feet to the southwest. The nearest water body is 3,132 feet to the southwest. It is classified by the USGS as an intermittent lake and is 1.0 acres in size. The nearest spring is 27,274 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 3,376 feet to the southeast. The nearest wetland is a 1.4 acre Other located 3,113 feet to the southwest. The slope at this location is 2 degree to the south 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 'Blancot-Notal association, gently sloping' 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 22.8 miles to the south as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms 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 all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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

ConocoPhillips

San Juan Business Unit

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

PROPERTIES	TEST METHOD		30BB		36BB	The second	45BB
Appagrance		Min. Roll Averages	Typical Roll Averages		Typical Roll Averages	Min. Roll	Typical Ro
Appearance		Bla	ck/Black		ck/Black	Averages	Averages
Thickness	ASTM D 5199	27 mil	30 mil	32 mil		Blac	ck/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs	151 lbs	36 mil	40 mil	45 mil
Construction			(20.16)	(21.74)	(24.19)	(27.21)	(30.24)
Ply Adhesion	40	**Ext	rusion laminate	d with encapsul	ated tri-direction	nal scrim reinfo	rcement
A STATE OF THE STA	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 84 lbf DD	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 750 DD	550 MD	105 lbf DD 750 MD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	550 DD 20 MD 20 DD	750 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	36 DD 117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Frapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5		7	160 lbf DD	191 lbf DD
uncture Resistance	ASTM D 4833	50 lbf		<1	<0.5	<1	<0.5
faximum Use Temperature	3 .000		64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
finimum Use Temperature		180° F					
) = Machine Direction		-70° F					

DD = Diagonal Directions



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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.

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

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 determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs

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

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

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

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

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

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

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
 design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a 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 detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

General Requirements:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if 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.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, 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.
- If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 47800

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47800
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

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

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

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

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

Signs

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

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
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
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**

ACKNOWLEDGMENTS

Action 47800

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	47800
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

<u>~</u>	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	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 47800

CONDITIONS

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Houston, TX 77002	47800
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/20/2021