District I REGISTER 1000 Kio Brazus Ru, curve, District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources partment rvation Division h St. Francis Dr. e, 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.
Dropose	Pit, Closed-Loop System, Below-Grad	e Tank, or Plan Application
Propose	a Alternative Method Permit of Closur	e Flan Application
Type of action:	 X Permit of a pit, closed-loop system, below-grade ta Closure of a pit, closed-loop system, below-grade Modification to an existing permit Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method 	ank, or proposed alternative method tank, or proposed alternative method tted or non-permitted pit, closed-loop system,
Instructions: Please submit one ap Please be advised that approval of environment. Nor does approval relie	pplication (Form C-144) per individual pit, closed-loc this request does not relieve the operator of liability should operations no we the operator of its responsibility to comply with any other applicable	op system, below-grade tank or alternative request esult in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources Oil	& Gas Company, LP	OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington	n, NM 87499	
Facility or well name: SAN JUAN 2	8-4 UNIT NP 202	
API Number: 30	003924542 OCD Permit Number	r:
U/L or Qtr/Qtr: L Sectio Center of Proposed Design: Latitude Surface Owner: X Federal	n: 18 Township: 28N Range: 4 36.65771°N Longitude:	W County: Rio Arriba -107.2964°W NAD: X 1927 1983 Allotment
Pit: Subsection F or G of 19.15.17 Temporary: Drilling Work Permanent Emergency Ca Lined Unlined String-Reinforced Liner Seams: Welded	.11 NMAC over avitation P&A her type: Thickness mil LLDPE ctory Other Volume:	HDPE PVC Other
3 Closed-loop System: Subsective Type of Operation: P&A P&A Drying Pad Above Ground Above Ground Lined Unlined Liner Liner Seams: Welded Factor	on H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) d Steel Tanks Haul-off Bins Other type: Thickness mil LLDPE H ctory Other	activities which require prior approval of a permit or DPE PVD Other
4 X Below-grade tank: Subsection I Volume: 120 bb Tank Construction material:	of 19.15.17.11 NMAC Type of fluid: Produced Water Metal tection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other Other U	matic overflow shut-off nspecified
5 Alternative Method:		
Submittal of an exception request is req	uired. Exceptions must be submitted to the Santa Fe Environ	nmental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

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6	
Fencing: Subsection D of 19.15-17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of borbad minsures = (0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
Four foot height, four strands of barbed wire evenly spaced between one and four foot	d, institution or church)
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 bits and permanent bits and permanent	
X Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
8	
Signs: Subsection C of 19.15.17.11 NMAC	
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
X Signed in compliance with 19.15.3.103 NMAC	
9	
Administrative Approvals and Exceptions:	
Please check a box if are in more of the following in a second difference in the second differen	
X Administrative approval(s): Reguests must be submitted to the approval.	
(Fencing/BGT Liner)	consideration of approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to centric relation structure in the application.	
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau ()ffice for	
does not apply to drying pads or above grade-tanks associated with a closed-loop system	
Ground water is less than 50 foot below the base of the	
 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	Tyes XINO
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital institution, and the hit state	
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	
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	
purposes, or within 1000 horizontal feet of any other 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	Yes XNo
- Written confirmation or verification from the municipality: Written approval obtained from the municipality	
- US Fish and Wildlife Wetland Identification many Tonographic many Visual is	Yes X No
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	
Within a 100-year floodplain	Yes XINo
· containap	

11			
Temporary Pits, Emer	gency Pits and Below-grade Tank	s Permit Applicati	ion Attachment Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic R	port (Below-grade Tanks) - based of	ipplication. Please in	indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic D.	ita (Temporary and Emergency Pits)	pour une requirement	nts of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
X Siting Criteria Co	mpliance Demonstrations - based ur	an the appropriate	equirements of Paragraph (2) of Subsection B of 19:15:17.9
X Design Plan - bas	ed upon the appropriate requirement	sou uie appropriate	requirements of 19:15.17.10 NMAC
X Operating and M:	intenance Plan based upon the	S OF 19.15.17.11 N	MAC
X Closure Plan (Ple	the complete Roses 11 themesh 10	ropriate requiremen	nts of 19.15.17.12 NMAC
19.15.17.9 NMA	and 19.15.17.13 NMAC	r applicable) - based	d upon the appropriate requirements of Subsection C of
Treviously Approved	Design (attach copy of design)	API	or Permit
Closed-loop Systems Permit A Destructions: Each of the fo Geologic and Hyd Siting Criteria Con Design Plan - base Operating and Ma. Closure Plan (Plea NMAC and 19.15. Previously Approved C	rmit Application Attachment Che lowing items must be attached to the ap rogeologic Data (only for on-site clos apliance Demonstrations (only for on d upon the appropriate requirements attached lipon the appropriate requirements attached lipon the appropriate requirements the complete Boxes 14 through 18, if 17.13 NMAC Design (attach copy of design) Operating and Maintenance Plan	ecklist: Subsection E optication. Please ina sure) - based upon t n-site closure) - bas of 19,15,17,11 NN opriate requirement applicable) - based API API D of 19,15,17,9 N	B of 19.15.17.9 NMAC dicate, by a check mark in the box, that the documents are attached. the requirements of Paragraph (3) of Subsection B of 19.15.17.9 sed upon the appropriate requirements of 19.15.17.10 NMAC MAC us of 19.15.17.12 NMAC 4 upon the appropriate requirements of Subsection-C of 19.15.17.9
Instructions: Each of the fo	lowing items must be attached to the a	application. Please in	indicate by a check much in the base of solution
Hydrogeologic Rep	ort - based upon the requirements of	Paragraph (1) of Si	ubsection B of 19 15 17 9 NMAC
Siting Criteria Con	pliance Demonstrations - based upor	n the appropriate re	contrements of 19.15.17.10 NMAC
Climatological Fact	ors Assessment		A CONTRACT OF THE OF TH
Certified Engineerin	ig Design Plans - based upon the app	propriate requireme	ents of 19.15.17.11 NMAC
Leak Detection Day	Structural Integrity Design: based u	pon the appropriate	e requirements of 19.15.17.11 NMAC
Liner Specifications	gn - based upon the appropriate requ	uirements of 19.15.	.17.11 NMAC
Quality Control/Our	lity Assurance Construction and In	sed upon the approp	priate requirements of 19.15.17.11 NMAC
Operating and Main	tenance Plan - based upon the appro-	tallation Plan	
Freeboard and Over	opping Prevention Plan - based upon	priate requirements	or 19.15.17.12 NMAC
Nuisance or Hazarde	ous Odors, including H2S, Preventio	n elen	equirements of 19.15.17.11 NMAC
Emergency Respons	e Plan		
Oil Field Waste Stre	m Characterization		
Monitoring and Insp	ection Plan		
Erosion Control Plan			
Closure Plan - based	upon the appropriate requirements o	of Subsection C of 1	19.15.17.9 NMAC and 19.15.17.13 NMAC
14			
nstructions: Please complete	17.13 NMAC	4 10 1 1 1 1 1 1 1	
vpe: Drilling Wo	tover	n 18, in regards to th	te proposed closure plan.
Alternative	Cavitation	n <u>UP&A</u> <u>U</u> Po	Permanent Pit X Below-grade Tank Closed-loop System
roposed Closure Method:	Waste Excavation and Removal	(Balow Cross	de Tanto
	Waste Removal (Closed-loop syst	ems only)	Ge TADK)
	On-site Closure Method (only for	temporary pits and o	closed-loon systems
	In-place Burial	On-site Trench	cosed toop systems)
	Alternative Closure Method (Exce	ptions must be subn	mitted to the Santa Ex Environmental Durant for
i i i i i i i i i i i i i i i i i i i			Bureau for consideration)
aste Excavation and Ren	oval Closure Plan Checklist 1101	5 17 13 NMACL Inc.	tructions, Each of the full
aste Excavation and Ren ease indicate, by a check ma	oval Closure Plan Checklist: (19:1 ik in the box, that the documents are an	5.17.13 NMAC) Inst. ttached.	tructions: Each of the following items must be attached to the closure plan.
Aste Excavation and Ren ease indicate, by a check ma X Protocols and Procedu	toval Closure Plan Checklist: (19:1 ik in the box, that the documents are an res - based upon the appropriate requ	5.17.13 NMAC) Inst. itached. uirements of 19.15.	tructions: Each of the following items must be attached to the closure plan.
Aste Excavation and Ren ease indicate, by a check ma X Protocols and Procedu X Confirmation Samplin	toval Closure Plan Checklist: (19:1 it in the box, that the documents are at res - based upon the appropriate requ g Plan (if applicable) - based upon th	5.17.13 NMAC) Inst. ttached. uirements of 19.15. he appropriate requi	tructions: Each of the following items must be attached to the closure plan. .17.13 NMAC irrements of Subsection F of 19.15.17.13 NMAC
Xaste Excavation and Ren lease indicate, by a check ma X Protocols and Procedu X Confirmation Samplin X Disposal Facility Nam	toval Closure Plan Checklist: (19:1 the in the box, that the documents are al res - based upon the appropriate requ g Plan (if applicable) - based upon the and Permit Number (for liquids, dr	5.17.13 NMAC) Inst. ttached. uirements of 19.15. he appropriate requi rilling fluids and dri	tructions: Each of the following items must be attached to the closure plan. .17.13 NMAC irrements of Subsection F of 19.15.17.13 NMAC iill cuttings)
Xaste Excavation and Ren Vaste Excavation and Ren Vaste indicate, by a check ma X Protocols and Procedu X Confirmation Samplin X Confirmation Samplin X Disposal Facility Nam X Soil Backfill and Cove	toval Closure Plan Checklist: (19:1 <i>ik in the box, that the documents are al</i> res - based upon the appropriate requ g Plan (if applicable) - based upon the e and Permit Number (for liquids, dr r Design Specifications - based upon	5.17.13 NMAC) Inst. ttached. uirements of 19.15. he appropriate requi rilling fluids and dri n the appropriate reco	tructions: Each of the following items must be attached to the closure plan. 17.13 NMAC irrements of Subsection F of 19.15.17.13 NMAC ill cuttings) quirements of Subsection H of 19.15.17.13 NMAC
Vaste Excavation and Ren lease indicate, by a check ma X Protocols and Procedu X Confirmation Samplin X Confirmation Samplin X Disposal Facility Nam X Soil Backfill and Cove X Re-vegetation Plan - b	toval Closure Plan Checklist: (19:1 rk in the box, that the documents are at res - based upon the appropriate requ g Plan (if applicable) - based upon th e and Permit Number (for liquids, dr r Design Specifications - based upon used upon the appropriate requirement	5.17.13 NMAC) Inst. ttached. uirements of 19.15, he appropriate requi rilling fluids and dri in the appropriate reconst of Subsection 1 of	tructions: Each of the following items must be attached to the closure plan. .17.13 NMAC irrements of Subsection F of 19.15.17.13 NMAC ill cuttings) quirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC

10		
Waste Removal Closure For Closed-loop Systems That Utilize Above Group	nd Steel Tanks or Haut off Riss October 10 10 17 18 19 19	
Instructions: Please identify the facility or facilities for the disposal of liquids, on are remared	leilling fluids and drift cuttings. Use attachment if more than v	C) vo facilities
Disposal Facility Name		
Disposal Facility Name	Disposal Facility Permit #:	
Will any of the proposed closed loop customers	Disposal Facility Permit #:	
Yes (If yes, please provide the information No	tivities occur on or in areas that will not be used for future	e service and operations?
Required for impacted areas which will not be used for future service and operation	tions:	
Soll Backfill and Cover Design Specification - based upon the app	propriate requirements of Subsection H of 19.15.17.13 NM	1AC
Site Reclamation Plan - based upon the appropriate requirements of S	Subsection I of 19.15.17.13 NMAC	
one recomments of the obset upon the appropriate requirements of	of Subsection G of 19.15.17.13 NMAC	
17		
String Uriteria (Regarding on-site closure methods only: 19.15.17.10 t Instructions: Each siting criteria conditional domain realism of	NMAC	
certain siting criteria may require administrative approval from the appropriate district.	olan. Recommendations of acceptable source material are provided l office or may be considered as acceptable source material are provided l	below. Requests regarding changes to
for consideration of approval. Justifications and/or demonstrations of equivalence are re-	equired. Please refer to 19.15.17.10 NMAC for guidance.	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 	a obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried.		
 NM-Office of the State Engineer - iWATERS database search: USGS: Data 	waste	Yes No
Ground water is more the 100 G is the second state. Onco, Data	obtained from hearby wells	N/A
NM Office of the State Freiner 2011 and a state of the buried waste.		Yes No
WW Office of the State Engineer - (WATERS database search; USGS; Data	obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig (measured from the ordinary high-water mark).	gnificant 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	h in existence at the time of initial application.	
 Visual inspection (certification) of the proposed site: Aerial photo: satellite in 	nage	
Within 500 horizontal from the and the state of the		Yes No
purposes, or within 1000 horizontal fee of any other fresh water well or spring that les - NM Office of the State Engineer - iWATERS database. Visual inspection (s than five households use for domestic or stock watering existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water	reflication) of the proposed site	
pursuant to NMSA 1978, Section 3-27-3, as amended.	weit held covered under a municipal ordinance adopted	Yes No
Within 500 fout of a matter d	obtained from the municipality	
US Fish and Wildlife Wetland Identification man: Topographic man. View		Yes No
Within the area overlying a subsurface mine	nspection (certification) of the proposed site	
- Written confirmation or verification or map from the NM EMNRD-Mining an	d Mineral Division	Yes No
Within an unstable area.		
- Engineering measures incorporated into the design; NM Bureau of Geology &	Mineral Resources: USGS: NM Geological Society	Yes No
Jopographic map	construction occording the society.	
- FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13.NMAAC). Internet in P		
by a check mark in the box, that the documents are attached.	h of the following items must bee attached to the closure	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropria	are requirements of 10, 15, 17, 10, NALAG	
Proof of Surface Owner Notice - based upon the appropriate requirem	ents of Subsection F of 19.15.17.10 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon	the appropriate requirements of 10 15 17 11 Victor	
Construction/Design Plan of Temporary Pit (for in place burial of a dr	ving radii haad ware th	
Protocols and Procedures - based upon the appropriate requirements of	f 19 15 17 13 NMAC	15.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the uppropriate	reconcerned DIMAC	
Waste Material Sampling Plan - based upon the appropriate	nte of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquide deilling duite	and deill surfaces a	
Soil Cover Design - based upon the annormiate requirements of Subra	and utili cuttings or in case on-site closure standards can	ot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Subset	cuou n 0r 19.15.17.13 NMAC	
	WINI AUT 17.13.17.13 NIVIAU	

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC $\overline{\Box}$

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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19			
Operator Application C thereby certify that the info	ertification:		
Name (Print):	Crostal Tafarra	courate and complete to the	best of my knowledge and belief.
Signature	P Q A	rue:	Regulatory Technician
e-mail address:	instal investigation and	Date:	12/22/2008
commandaduress.	UTSIAN GANDYANG CONGCODININDS COM	Telephone:	505-326-9837
20			
OCD Approval: Pe	rmit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sig	nature:		
Title:			Approval Date:
		OCD Perm	it Number:
21 Closure Report (required Instructions: Operators are r report is required to be subm approved closure plan has be	A within 60 days of closure completion); su equired to obtain an approved closure plan prior itted to the division within 60 days of the complet een obtained and the closure activities have been	theetton K of 19.15.17.13 NMAC to implementing any closur tion of the closure activities completed.	re activities and submitting the closure report. The closure . Please do not complete this section of the form until an Completion Date:
32			
Closure Method: Waste Excavation and If different from appr	d Removal On-site Closure Method oved plan, please explain.	Alternative Closure N	Method Waste Removal (Closed-loop systems only)
23 Closure Report Regarding Mastructions: Please identify were utilized.	Naste Removal Closure For Closed-loop System the facility or facilities for where the liquids, dri	ns That Utilize Above Gro lling fluids and drill cutting	und Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility P	emit Number:
Disposal Facility Name:		Disposal Facility P	ermit Number:
Were the closed-loop syste	m operations and associated activities performed	on or in areas that will not	be used for future service and opeartions?
Tes (If yes, please der	nonstrate compliane to the items below)	No	
Site Reclamation (Pho	is which will not be used for future service and op to Documentation)	perations:	
Soil Backfilling and C	Dyer Installation		
Re-vegetation Applica	tion Rates and Seeding Technique		
	ment Checklist: Instructions: Each of the follo s are attached. ice (surface owner and division) e (required for on-site closure) closures and temporary pits) ng Analytical Results (if applicable)	owing items must be attach	ed to the closure report. Please indicate, by a check mark in
Waste Material Samp	ling Analytical Results (if applicable)		
Disposal Facility Nar	ne and Permit Number		
Soil Backfilling and (Cover Installation		
Re-vegetation Applic	ation Rates and Seeding Technique		
Site Reclamation (Pho	oto Documentation)		
	ion: Latitude:	Longitude:	NAD 1927 1983
perator Closure Certifica ereby certify that the informa closure complies with all ap	tion: tion and attachments submitted with this closure	report is ture, accurate and	complete to the best of my knowledge and belief. I also certify that
	plicable closure requirements and conditions spe-	cified in the approved closu	re pian.
ume (Print):	plicable closure requirements and conditions spec	Cified in the approved closu Title:	re plan.
ame (Print):	plicable closure requirements and conditions spe	Title: Date:	ге риал.
ume (Print):	plicable closure requirements and conditions spe	Title: Date:	

New Mexico Office of the State Engineer

Page :	l of 1
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New Mexico Office of the State Engineer POD Reports and Downloads

Township: 28N Range: 04W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) CNon-Domestic CDomestic CAll
POD / Sunface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

WATER COLUMN REPORT 08/20/2008

	(quarter (quarter	s are s are	e 1=: e bi	NW gge	2:	=NE t to	3=SW 4=SE) smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	P	Zone	x	Y	Well	Water	Column	
SJ 00045	28N	04W	07							600			
SJ 02385	28N	04W	26	1	1	1				160	85	75	

Record Count: 2

		New 1	Mexico () POD Rej	<i>ffice of the</i> ports and l	e State E. Downloa	ngineer ds				
Т	ownship: 28	N Rang	e: 05W	Sections	:					
NAD	27 X:	Y:	_	Zone:		Sear	ch Radiu	s:		
County:		Basin:			N	umber:		Suffix:		
Owner Name:	(First)		(Last)			C Non-	Domestic	۲ Dom	estic 6	All
POD / Su	rface Data R	eport	Av	g Depth to V	Vater Rep	ort	Wat	er Column	Report	
		Clear	Form	IWATER	S Menu	Help	1			
			WATER	COLUMN	REPORT (8/20/20	800			
	(quarter	s are 1=1	₩ 2=NE	3=SW 4=SI	2)					
	(quarter	s are big	gest to	smallest	:)		Depth	Depth	Water	(in
POD Number	Tws	Rng Sec	a a a	Zone	X	Y	Well	Water	Column	
SJ 01893	28N	05W 18	4				390	290	100	
SJ 00047	28N	05W 28	2				465	265	200	
SJ 00036	28N	05W 28	3				303	243	60	

Record Count: 3



ConocoPhillips

AERIAL MAP SAN JUAN 28-4 UNIT NP 202



Mines, Mills and Quarries Web Map

SAN JUAN 28-4 UNIT NP 202

Unit Letter: L, Section: 18, Town: 028N, Range: 004W



SAN JUAN 28-4 UNIT MP 202

Site Specific Hydrogeology

A visual site inspection confirming the information contailed here in was performed on the well 'SAN JUAN 28-4 UNIT NP 202', which is located at 36.65771 degree, North latitude and 107.2964 degree, West longitude. This location is located on the Gobernador 7.5' USGS topographic quadrangle. This location is in section 18 of Township 28 North Range 4 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Dulce, located 25.3 miles to the northeast. The nearest large town (oopulation greater than 10,000) is Farmington, located 50.8 miles to the west (National Atlas). The nearest highway is US Highway 64, located 3.6 miles to the north. The location is on National Forest land and is 1.150 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, Subbasin. This location is located 2267 meters or 7435 feet a pove sear evel and receives 16.5 inches of rain each year. The vegetation at this location is classified as Rocky Hountain Ponderosa Pine Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 115 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 558 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 7,592 feet to the northeast. The nearest water body is 7,892 feet to the northeast. It is classified by the USGS as a perennial lake and is 0.1 acres in size. The nearest spring is 661 feet to the west. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downlos ded 3/2008. The nearest water well is 2,527 feet to the southeast. The nearest wetland is at 8.0 acres of an USGS 30M National Elevation Dataset. This information is also discerned from the aerial and tenographic map included. The surface geology at this location is SAN JOSE FORMATION- Sinstone, strate, and sandstone with a Sandstone dominated formations of all age's substrate. There is no SSURG of soil data available for this location. The nearest underground mine is 12.3 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Hodeno age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern han of the central basin. It over his the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and ovenlet, the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbadded servicince of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation general. Increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence or ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in Sat: Jose Formation ranges from 0.15 to 31 gallons per minute and the median is 5 gallons per minute. Most of the weils provide water for investock as a domestic use. The San Jose Formation is a very suitable unit for recharge from precision because soils that form on the unit are sandy and nighly permeable and therefore readily adsorp precipitation. In twever, low annual precipitation, relatively high transpiration and eventoration rates, and deep discussion of the San Jose Formation by the San Juan River and its tribularies all tend to reduce the of extive list harge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the Gaulduan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

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

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

General Plan:

- 1. 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
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. 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.
- 6. 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.
- 11. The general specification for design and construction are attached in the BR document.



PROPERTIES TEST METHOD J30BB J36BE **J45BE** Min. Roll Typical Roll Min. Roll **Typical Roll** Min. Roll Typical Roll Averages Averages Averages **Averages** Averages Averages Appearance Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mił 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs ASTM D 5261 151 lbs (oz/yd²) 168 lbs 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement **Ply Adhesion** ASTM D 413 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 (bf MD 113 lbf MD 110 lbf MD 63 lbf DD 138 lbf MD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD 750 MD **ASTM D 7003** Break % (Film Break) 550 MD 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD Peak % (Scrim Break) ASTM D 7003 20 MD 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD **ASTM D 5884** 97 lbf MD 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 /bf MD 218 lbf MD ASTM D 7004 180 lbf MD 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD **ASTM D 4533** 130 lbf MD 189 lbf MD 160 lbf MD

141 lbf DD

< 0.5

64 lbf

180° F

-70° F

Puncture Resistance ASTM D 4833 Maximum Use Temperature Minimum Use Temperature

MD = Machine Direction DD = Diagonal Directions

* Dimensional Stability

Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

130 lbf DD

<1

65 lbf

180° F

-70° F

172 lbf DD

<0.5

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

120 lbf DD

<1

50 lbf

180° F

-70° F

ASTM D 1204

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

WIRE RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no quarantee of substactory results from Jeaunce upon contained information or recommendations and conclaims all lubility for resulting loss or damage



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

160 lbf DD

<1

80 lbf

180° F

-70° F

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

193 lbf MD

191 lbf DD

<0.5

99 lbf

180° F

-70° F

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 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, at its 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 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 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 below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. 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:

- 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.
- 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 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 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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 and API number.
- 9. The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques •
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice