District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Bio Brazos Rd, Aztec, NM 87410	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.	For m C-144 July 21, 2000 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
District IV 1220 S. St. Francis Dr. Santa Fe. NM 87505	Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grad	e Tank, or
Propos	sed Alternative Method Permit or Closur	re Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade t	ank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
DOT 4	Modification to an existing permit	
BGII	Closure plan only submitted for an existing permitted below-grade tank, or proposed alternative method	tted or non-permitted pit, closed-loop system,
Instructions: Please submit one	application (Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative request
Please be advised that approval	of this request does not relieve the operator of liability should operations i	esult in pollution of surface water, ground water or the
environment. Nor does approval re	here the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
Operator: Burlington Resources C	bil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingt	on, NM 87499	
Facility or well name: MCCONNE	CLL 501	
API Number:	3004529285 OCD Permit Numbe	r:
U/L or Qtr/Qtr: K Sect	ion: 13 Township: 26N Range:	9W County: San Juan
Center of Proposed Design: Latitud	le: 36.48442°N Longitude:	-107.74482°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or India	n Allotment
Pit:       Subsection F or G of 19.15         Temporary:       Drilling	17.11 NMAC	
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       0         Lined       Unlined       L         String-Reinforced       Liner Seams:       Welded       F	17.11 NMAC         rkover         Cavitation       P&A         .iner type:       Thickness	HDPE         PVC         Other
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling         Wo       Permanent         Emergency       Image: Constraint of the section of t	17.11 NMAC         rkover         Cavitation P&A         .iner type: Thickness mil LLDPE         Yactory Other Volume:         tion H of 19.15.17.11 NMAC         Drilling a new well Workover or Drilling (Applies to notice of intent)         und Steel Tanks Haul-off Bins Other         er type: Thickness         mil LLDPE Hactory Other	HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or DPE PVD Other
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Lined       Unlined       L         String-Reinforced       Liner Seams:       Welded       F         3       Closed-loop System:       Subsection         Type of Operation:       P&A       [         Drying Pad       Above Group       Lined       Liner         Lined       Unlined       Liner       Liner         Liner Seams:       Welded       F         4       K       Below-grade tank:       Subsection         Volume:       120       to         Tank Construction material:	17.11 NMAC         rkover         Cavitation P&A         .iner type: Thickness mil LLDPE         'actory Other Volume:         'actory Other         'actory Other         'actory Other         I of 19.15.17.11 NMAC         'actory Other         I of 19.15.17.11 NMAC         'actory Other         'actory Other	HDPE       PVC       Other
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Lined       Unlined       Lined       Image: Subsection F or G of 19.15.         String-Reinforced       Liner Seams:       Welded       F         3       Closed-loop System:       Subsection         7       Drying Pad       Above Group Lined       Lined         Inter Seams:       Welded       F         4       X       Below-grade tank:       Subsection         Volume:       120       to         Tank Construction material:       Image: Secondary containment with leak d         Visible sidewalls and liner       Liner Type:       Thickness         5       Alternative Method:       Submittal of an exception request is references	17.11 NMAC         rkover         Cavitation P&A         .iner type: Thickness mil LLDPE         'actory Other Volume:         'actory Other Volume:         tion H of 19.15.17.11 NMAC         Drilling a new well Workover or Drilling (Applies to notice of intent)         und Steel Tanks Haul-off Bins Other         er type: Thickness mil LLDPE H         actory Other         I of 19.15.17.11 NMAC         obl Type of fluid: Produced Water         Metal         etection X Visible sidewalls, liner, 6-inch lift and auto	HDPE       PVC       Other          bbl       Dimensions L
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Temporary:       Drilling       Wo         String-Reinforced       Lined       Unlined         Liner Seams:       Welded       F         3       Closed-loop System:       Subsection         Type of Operation:       P&A       [         Drying Pad       Above Grout       Lined       Unlined         Lined       Unlined       Line       Line         Liner Seams:       Welded       F         4       X       Below-grade tank:       Subsection         Volume:       120       bt         Tank Construction material:       [       Visible sidewalls and liner         Secondary containment with leak d       Visible sidewalls and liner       [         Submittal of an exception request is re       [	17.11 NMAC         rkover         Cavitation P&A         iner type: Thickness mil LLDPE         iactory Other Volume:         tion H of 19.15.17.11 NMAC         Drilling a new well Workover or Drilling (Applies to notice of intent)         und Steel Tanks Haul-off Bins Other         er type: Thickness mil LLDPE Hactory Other         I of 19.15.17.11 NMAC         bbl Type of fluid: Produced Water         Metal         etection X Visible sidewalls, liner, 6-inch lift and auto	HDPE       PVC       Other         bbl       Dimensions L       x W       x D         activities which require prior approval of a permit or         DPE       PVD       Other         matic overflow shut-off
Pit:       Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Temporary:       Drilling       Wo         Permanent       Emergency       Image: Subsection F or G of 19.15.         Lined       Unlined       Lined       Image: Subsection F or G of 19.15.         String-Reinforced       Liner Seams:       Welded       F         Image: Subsection Operation:       P&A       Image: Subsection F or G of 19.15.         Image: Drying Pad       Above Grout       Lined       Unlined       Liner         Image: Drying Pad       Above Grout       Lined       Unlined       Liner         Liner Seams:       Welded       F       F         4       X       Below-grade tank:       Subsection         Volume:       120       te         Tank Construction material:       Image: Secondary containment with leak d         Visible sidewalls and liner       Liner Type:       Thickness         5       Alternative Method:       Submittal of an exception request is re         Form C-144       /       ////////////////////////////////////	17.11 NMAC         rkover         CavitationP&A         .iner type: Thickness milLLDPE         factoryOtherVolume:         factoryOtherVolume:         fion H of 19.15.17.11 NMAC        Drilling a new wellWorkover or Drilling (Applies to notice of intent)         and Steel TanksHaul-off BinsOther         er type: ThicknessmilLLDPEHactoryOther         I of 19.15.17.11 NMAC         obl Type of fluid: Produced Water        Metal         etection X_Visible sidewalls, liner, 6-inch lift and auto            quired. Exceptions must be submitted to the Santa Fe Environ         Oil Conservation Division	HDPE PVC Other

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Fencing: Subsection D of 19.15.17.11 NMAC (A second		(math)
Chain link, six feet in height, two strands of barbed wire at top ( <i>Required ij located within 1000 jeet of a permanent residence, school, hospital,</i>	institution or chi	aca)
V A human - Plane specify - 4' her wire foncing topped with two strends barbed wire		
X Anemate. Prease specify 4 nog with reneing topped with two strands barbed wire.		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		•
Monthly increasing (If nation or screening is not physically facebla)		
Signs: Subsection C of 19.15, $1/.11$ 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		
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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 ( (Fencine/BGT Liner)	consideration of a	pproval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
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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 instification for sequent. Please refer to 10.15.17.10.NMAC for avidance. Siting criteria		
does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
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
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<ul> <li>Consideration of papers in Application mast dinary has grade-tanks associated with a closed-loop system.</li> <li>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. <ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul> </li> <li>Within 300 feet of a continuously flowing water course, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). <ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul> </li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks) <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul> </li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks) <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul> </li> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent pits) <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul> </li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>Within 500 feet of a wetland.</li> <li>Withen c</li></ul>	□Yes □Yes □Yes □NA □Yes XNA □Yes □Yes □Yes	X No X No X No No X No X No X No X No
<ul> <li>Consideration of upproval. Approval. Approximities and plastification plastification.</li> <li>(Applies to temporary, emergency, or cavitation plastification plastification, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation plastification, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation plastification, or church in existence at the time of initial application.</li> <li>(Applied to permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent plas) <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul> </li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and W</li></ul>	<ul> <li>Yes</li> <li>Yes</li> <li>NA</li> <li>Yes</li> <li>XNA</li> <li>Yes</li> </ul>	X No X No X No No X No X No X No
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Form C-144

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Oil Conservation Division

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Received by O	CD: 10/5/	/2021 8:3	6:56 AM
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Temporary Pits, Emergency Pits and Berger-grade Tanks Permit Applic Instructions: Each of the following items must be attached to the application. Pleas	ation Attachment Checklist: Subsection B of 19.15.17.9 NMAC before a section by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirem	nents of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon th	e requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropri-	ate requirements of 19.15.17.10 NMAC
V Design Plan based upon the appropriate requirements of 10.15.17.11	NMAC
X Operating and Maintanange Plan - based upon the appropriate requirements of 19,19,17,11	
X Operating and Maintenance Plan - based upon the appropriate required	ments or 19.15.17.12 NMAC
[X] Closure Plan (Please complete Boxes 14 through 18, if applicable) - ba 19.15.17.9 NMAC and 19.15.17.13 NMAC	ased upon the appropriate requirements of Subsection C of
Previously Approved Design (attach copy of design) API	or Permit
12 <u>Closed-loop Systems Permit Application Attachment Checklist:</u> Subsecti Instructions: Each of the following items must be attached to the application. Please Geologic and Hydrogeologic Data (only for on-site closure) - based up	on B of 19.15.17.9 NMAC e indicate, by a check mark in the box, that the documents are attached, ion the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) -	based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11	NMAC
Operating and Maintenance Plan - based upon the appropriate require	ments of 10 15 17 12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - ba NMAC and 19.15.17.13 NMAC	ased upon the appropriate requirements of Subsection C of 19.15.17.9
Previously Approved Design (attach copy of design) API	
Previously Approved Operating and Maintenance Plan API	
13	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17	.9 NMAC
Instructions: Each of the following items must be attached to the application. Plea	rse indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1)	of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropria	te requirements of 19.15.17.10 NMAC
Climatological Factors Assessment	· · · · · · · · · · · · · · · · · · ·
Certified Engineering Design Plans - based upon the appropriate requi	rements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appro-	priate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the a	ppropriate requirements of 19 15 17 11 NMAC
Ouality Control/Ouality Assurance Construction and Installation Plan	
Operating and Maintenance Plan - based upon the appropriate requirer	nepts of 19 15 17 12 NMAC
Freeboard and Overtonning Prevention Plan - based upon the appropria	ate requirements of 1915 1711 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan	
Freegency Response Plan	
Oil Field Waste Stream Characterization	
	· · · ·
Monitoring and inspection Plan	
Clasure Dian based upon the energy interprets of Subsection	C - 6 10 16 17 0 NIMA C 4 10 16 17 12 NIMA C
Closure Plan - based upon the appropriate requirements of Subsection	C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 Proposed Closure: 10.15.17.13 NUAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18. in regard	is to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A	Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal (Below	w-Grade Tank)
Waste Removal (Closed-loop systems only)	
On-site Closure Method (only for temporary pi	ts and closed-loop systems)
In-place Burial Mon-site Tree	nch
Alternative Closure Method (Evcentions must)	be submitted to the Santa Fe Environmental Bureau for consideration)
15 Weste Execution and Demonst Channel Diag Charlet to the transmission	Charles a second state of the first second state of the second sta
vvasie excavation and Keinoval Closure rian Checklist: (19.15.17.13 NMA Please indicate by a check mark in the box that the documents are attached	() instructions: Each of the following tiems must be ditached to the closure plan.
<ul> <li>It case mature, by a check mark in the box, that the abcuments are allaChed.</li> <li>Protocols and Procedures - based upon the appropriate requirements of</li> </ul>	19 15 17 13 NMAC
[X] Frotocols and Frocedures - based upon the appropriate requirements of	
[X] Contirmation Sampling Plan (it applicable) - based upon the appropria	te requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids	and drill cuttings)
[X] Soil Backfill and Cover Design Specifications - based upon the approp	riate requirements of Subsection H of 19.15.17.13 NMAC
<b>X</b> Re-vegetation Plan - based upon the appropriate requirements of Subse	ection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Su	bsection G of 19.15.17.13 NMAC

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Oil Conservation Division

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16 Waste Removal Closure For Closed-loop Systems That Utilize Abe	ove Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC	)
Instructions: Please identify the facility or facilities for the disposal of are required.	fliquids, drilling fluids and drill cuttings. Use attachment if more than tw	o facilities
Disposal Facility Name:	Disposal Facility Permit #:	· ·
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and asso Yes (If yes: please provide the information	ociated activities occur on or in areas that will not be used for future No	e sérvice and operations?
Required for impacted areas which will not be used for future service         Soil Backfill and Cover Design Specification - based upo         Re-vegetation Plan - based upon the appropriate requirer         Site Reclamation Plan - based upon the appropriate requirer	and operations: on the appropriate requirements of Subsection H of 19.15.17.13 NM nents of Subsection I of 19.15.17.13 NMAC irements of Subsection G of 19.15.17.13 NMAC	1AC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19 Instructions: Each siting criteria requires a demonstration of compliance in t certain siting criteria may require administrative approval from the appropri for consideration of approval. Justifications and/or demonstrations of equive	.15.17.10 NMAC the closure plan. Recommendations of acceptable source material are provided h iate district office or may be considered an exception which must be submitted to alency are required. Please refer to 19.15.17.10 NMAC for guidance.	elow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried	l waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; 1	USGS: Data obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of th	ne huried waste	
- NM Office of the State Engineer - iWATERS database search: L	JSGS: Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the bur	ied waste.	
- NM Office of the State Engineer - Tw ATERS database search; C	SUS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of a (measured from the ordinary high-water mark).	any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
<ul> <li>Topographic map; Visual inspection (certification) of the propos</li> </ul>	ed site	
Within 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site; Aerial photo	on, or church in existence at the time of initial application. o; satellite image	
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or sp purposes, or within 1000 horizontal fee of any other fresh water well o - NM Office of the State Engineer - iWATERS database: Visual in	bring that less than five households use for domestic or stock watering r spring, in existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municip pursuant to NMSA 1978, Section 3-27-3, as amended.	bal fresh water well field covered under a municipal ordinance adopted	Yes No
<ul> <li>Written confirmation or verification from the municipality; Writt</li> <li>Within 500 function for writlend</li> </ul>	ten approval obtained from the municipality	
- US Fish and Wildlife Wetland Identification map: Topographic r	nap: Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNR	D-Mining and Mineral Division	
Within an unstable area.		Yes No
<ul> <li>Engineering measures incorporated into the design: NM Bureau of Topographic map</li> </ul>	of Geology & Mineral Resources; USGS: NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
18		
<u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instru by a check mark in the box, that the documents are attached.	ctions: Each of the following items must bee attached to the clos	ure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon	the appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropri	ate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable)	) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place)	burial of a drying pad) - based upon the appropriate requirements of	19.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate real	quirements 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	2
Waste Material Sampling Plan - based upon the appropria	ate requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, d	frilling fluids and drill cuttings or in case on-site closure standards o	annot be achieved)
Soil Cover Design - based upon the appropriate requirement	ents of Subsection H of 19.15.17.13 NMAC	

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC

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

Form C-144

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Oil Conservation Division

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Uperator Application	a certification:	courate and consolisis to the E-	et of my broudeday and belief	
Name (Drint).	Created Deferm	ride.	Dovudatom: Tembricity	
(vanc (rint):		i nue:	Regulatory rechnician	
Signature:	- Compatal Japa	Date:	12/22/2008	
e-mail address:	crystal.tatoya@conocophillips.com	Telephone:	505-326-9837	
			د از محمد میں شمار اس اور دیا ہے۔ مرکز استان کے مطابق میں میں میں اور دیا ہے۔	
20		7 0		
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representativ	Signature: RWhitehead	l	Approval Date: October 15, 2	2021
<b>F</b> asti				
Title:ENVI		OCD Permit	Number: BGT 1	
21	<u></u>			
Closure Report (req	uired within 60 days of closure completion): s	Subsection K of 19.15.17.13 NMAC		
Instructions: Operators	are required to obtain an approved closure plan prio	or to implementing any closure	activities and submitting the closure report. The close	ire
report is required to be	submitted to the division within 60 days of the complete wis been obtained and the clusure activities have been	etion of the closure activities. n completed	Please do not complete this section of the form until a	1
approved crossive plant	us over opinines une ne closure activities have beer		Provident - Distan	
			ompletion Date:	<u> </u>
22				
Closure Method:				
Waste Excavati	n and Removal On-site Closure Method	Alternative Closure M	ethod Waste Removal (Closed-loop systems on	ly)
If different from	approved plan, please explain.			
Disposal Facility Na Were the closed-loo	Re:	Disposal Facility Pe	ermit Number:	
Ves (If yes nie:	system operations and associated activities performe se demonstrate compliane to the items below)	No	be used for ruture service and opeantions?	
Paulaired for impact	araa which will not be used for future remains and			
Site Reclamatio	1 (Photo Documentation)	operations.		
Soil Backfilling	and Cover Installation			
Re-vegetation A	pplication Rates and Seeding Technique			
7.8				
Closure Report A	tachment Checklist: Instructions: Each of the fo	ollowing items must be attach	ed to the closure report. Please indicate, by a check n	ıark in
the box, that the doo	uments are attached.	5	• • • •	
Proof of Closu	e Notice (surface owner and division)			
Proof of Closu	e Notice (surface owner and division) Notice (required for on-site closure)			
Proof of Closu Proof of Deed Plot Plan (for o	e Notice (surface owner and division) Notice (required for on-site closure) n-site closures and temporary pits)			
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Proof of Closu Proof of Deed Plot Plan (for of Confirmation S Waste Materia Disposal Facili Soil Backfillin Re-vegetation Site Reclamatic On-site Closure Coperator Closure Cos hereby certify that the he closure complies wit Name (Print): Signature:	e Notice (surface owner and division) Notice (required for on-site closure) n-site closures and temporary pits) ampling Analytical Results (if applicable) Sampling Analytical Results (if applicable) y Name and Permit Number and Cover Installation Application Rates and Seeding Technique in (Photo Documentation) Location: Latitude:	Longitude: tre report is ture, accurate and specified in the approved close Title: Date:	NAD 1927 1983	to certify that

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Oil Conservation Division

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	(1	quarter quarter	s are 1=NW s are bigge	WATER 2=NE 3 st to	COLUMN REPO S=SW 4=SE) smallest)	RT 08/	20/2008 D	epth	Depth	Water	(in

	(quarter	s are	a big	gge	est	: to	smallest)			Depth	Depth	Water	(in
POD Number	Twe	Rng	Sec	đ	đ	đ	Zone	х	Y	Well	Water	Column	
SJ 02405	26N	08W	01	3	4	3				180	100	80	
SJ 02411	26N	08W	01	4	4	1				6000			
SJ 02407	26N	08W	01	4	4	1				2200			

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New Mexico Oj POD Rep	<i>ffice of the State Engineer</i> orts and Downloads
Township: 26N Range: 09W	Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	
POD / Surface Data Report	Depth to Water Report
Clear Former	WATERS Menu

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	e 1=:	NW	2=	NE	3=SW 4=SI	E)				
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SJ 02961	26N	09W	01	2	2	3				1500		i i
SJ 02962	26N	09W	01	3	2	3				1500		
SJ 01756	26N	09W	11	2	2	3				75	40	35
SJ 03811 POD1	26N	0 <b>9</b> W	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

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# Mines, Mills and Quarries Web Map

MCCONNELL 501 Unit Letter: K, Section: 13, Town: 026N, Range: 009W





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# **MCCONNELL 501**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MCCONNELL 501', which is located at 36.48442 degrees North latitude and 107.74482 degrees West longitude. This location is located on the Thompson Mesa 7.5' USGS topographic quadrangle. This location is in section 13 of Township 26 North Range 9 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Nageezi, located 15.0 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 30.8 miles to the northwest (National Atlas). The nearest highway is US Highway 550, located 8.1 miles to the southwest. The location is on BLM land and is 3,549 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 1927 meters or 6320 feet above sea level and receives 10 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 166 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 3,803 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,200 feet to the east. The nearest water body is 1,600 feet to the west. It is classified by the USGS as an intermittent lake and is 1.2 acres in size. The nearest spring is 38,251 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 3,169 feet to the northwest. The nearest wetland is a 0.7 acre other located 4,114 feet to the east. The slope at this location is 0 degrees to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Doak-Sheppard-Shiprock association, rolling' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 21.3 miles to the south as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

**Regional Geological context:** 

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms 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.

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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.

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## 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.
- 2. 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.
- 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 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.
- 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.

11/5/2008



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PROPERTIES	TEST METHOD		OBB	J3(	i <b>Be</b>		BB
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Blac	k/Black	Black	/Black	Black	/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	rusion laminated	with encapsula	ted tri-direction	hal scrim reinfor	cement
Ply Adhesion	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 105 lbf DD
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 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 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	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
Trapezoid 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 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 ibf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction DD = Diagonal Directions

OURA STRIM

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 reinforcement.

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

# 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



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# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, 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 have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs 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 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.

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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.

11/5/2008

## 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.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 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, 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.
- 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 below-grade 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

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

District IV 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

Page 24 of 26 QUESTIONS

Action 53976

QUESTIONS OGRID:

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	53976
	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.	
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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.	
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. 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 Cartification	

Registered / Signature Date	Not answered.

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

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

#### ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	53976
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144] B)

#### ACKNOWLEDGMENTS

 $\overline{\checkmark}$ 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.

 $\overline{\checkmark}$ I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief. ACKNOWLEDGMENTS

Action 53976

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

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 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

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Action 53976

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	53976
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	10/15/2021