Pietrict I		
District	State of New Mexico	Form C-
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	July 21, 1
	partment	For temporary pits, closed-loop sytems, and below-grad
REGISTERE	vation Division	tanks, submit to the appropriate NMOCD District Office.
NE GIOTEILE	St. Francis Dr.	For normanant site and examples a submit to the Santa Fo
District IV	2, NM 87505	Environmental Bureau office and provide a copy to the
1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOCD District Office.
Pi	t, Closed-Loop System, Below-Grad	e Tank, or
Proposed.	Alternative Method Permit or Closur	e Plan Application
Type of action:	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
	Modification to an existing permit	
	Closure plan only submitted for an existing permi	tted or non-permitted pit closed-loop system
	below-grade tank, or proposed alternative method	
Instructions: Please submit one applie	cation (Form C-144) per individual pit, closed-lo	op system, below-grade tank or alternative requ
Please be advised that approval of this	request does not relieve the operator of liability should operations r	esult in pollution of surface water, ground water or the
environment. Nor does approval relieve th	te operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources Oil &	Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, N	IM 87499	
Facility or well name: SAN JUAN 28-4	UNIT 29	
API Number: 3003	920070 OCD Permit Numbe	r:
U/L or Otr/Otr: M Section:	31 Townshin: 29N Bange:	1W/ Coupty Die Arribe
Center of Proposed Design: 1 stitude:	26 611699N Longitude	107 207079W NAD: V1027
Center of Proposed Design: Latitude:		-107.29707°W NAD: X 1927 19
Surface Owner. A Federal		1 Anothent
2 Pit: Subsection F or G of 19.15.17.11 Temporary: Drilling Workover	NMAC	
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workover         Permanent       Emergency       Cavita         Lined       Unlined       Liner tr         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Drilling	NMAC r ttion P&A ype: Thickness mil , LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to	HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workover         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Dri	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC silling a new well Workover or Drilling (Applies to notice of intent)	HDPE PVC Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workover         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC filling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other	HDPE PVC Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove:         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Lined       Unlined       Liner type	NMAC r ttion P&A ype: Thickness mil , LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory	NMAC r ttion P&A ype: Thickness mil LLDPE Y Other Volume: H of 19.15.17.11 NMAC filling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other	HDPE       PVC       Other        x W      x D
Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Drilling         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory	NMAC r ttion P&A ype: Thickness mil , LLDPE y Other Volume: H of 19.15.17.11 NMAC tilling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection H         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory	NMAC r ttion P&A ype: Thickness milLLDPE y Other Volume: H of 19.15.17.11 NMAC filling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness milLLDPEH yOther 9.15.17.11 NMAC	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl	NMAC r ttion P&A ype: Thickness mil, LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil DLLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water Metal	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with last detection	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC tilling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water Metal on	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St       Liner type         Lined       Unlined       Liner type         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of 1         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection	NMAC r ttion P&A ype: Thicknessmil LLDPE y OtherVolume: H of 19.15.17.11 NMAC iilling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thicknessmil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls are	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Tank Construction material:	NMAC r ttion P&A ype: Thickness mil , LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	HDPE       PVC       Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Liner Type:       Thickness	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC tilling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other L	HDPE PVC Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Liner Type:       Thickness         5       5	NMAC r ttion P&A ype: Thickness mil LLDPE y Other Volume: H of 19.15.17.11 NMAC illing a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thickness mil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other L	HDPE PVC Other  bbl Dimensions Lx W   activities which require prior approval of a permit or   IDPE PVD Other omatic overflow shut-off Inspecified
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Liner Type:         Simile sidewalls and liner       Simile States         Simile States       Method:	NMAC r ttion  P&A ype: Thickness milLLDPE y  OtherVolume: H of 19.15.17.11 NMAC tilling a new well  Workover or Drilling (Applies to notice of intent) teel Tanks  Haul-off Bins Other teel Tanks Haul-off Bins Other teel Tanks Haul-off Bins Other g.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other L	HDPE PVC Other  bbl Dimensions Lx W   activities which require prior approval of a permit or   IDPE PVD Other omatic overflow shut-off Inspecified
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Pennanent       Emergency       Cavita         Lined       Unlined       Liner ty         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground Si         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of I         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detecti         Visible sidewalls and liner       Liner Type:       Thickness         5       Alternative Method:       Submittal of an exception request is required	NMAC r ttion P&A ype: Thicknessmil LLDPE y OtherVolume: H of 19.15.17.11 NMAC filling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thicknessmil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other L	HDPE PVC   Other
2       Pit:       Subsection F or G of 19.15.17.11         Temporary:       Drilling       Workove         Permanent       Emergency       Cavita         Lined       Unlined       Liner t;         String-Reinforced       Liner Seams:       Welded       Factory         3       Closed-loop System:       Subsection F         Type of Operation:       P&A       Dri         Drying Pad       Above Ground St       Liner type         Lined       Unlined       Liner type         Liner Seams:       Welded       Factory         4       X       Below-grade tank:       Subsection I of 1         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak detection         Visible sidewalls and liner       Liner Type:         5       Alternative Method:         Submittal of an exception request is required       Submittal of an exception request is required	NMAC r ttion P&A ype: Thicknessmil LLDPE y OtherVolume: H of 19.15.17.11 NMAC tilling a new well Workover or Drilling (Applies to notice of intent) teel Tanks Haul-off Bins Other e: Thicknessmil LLDPE H y Other 9.15.17.11 NMAC Type of fluid: Produced Water 9.15.17.11 NMAC Type of fluid: Produced Water Metal on X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other L d. Exceptions must be submitted to the Santa Fe Enviro	HDPE PVC Other

6 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent oil temporary rates on the law and the law of the law o	
(The set of the set of	
Four foot height, four strands of barbed wire availy spaced barrow and the space of a permanent residence, school, hospite	al, institution or church)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire	
7	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
X Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
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	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for mildred	
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 approval
Exception(s): Requests must be submitted to the Santa Fe Environmental Burgan office for an interview of	and approval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to contain the application of acceptable source material are provided below.	
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau (1) for for	
does not approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system	
Ground water is less than 50 feet below the bottom of the towners are it.	
- 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	
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time, by the	
application.	Yes X No
- Visual inspection (certification) of the proposed site: Agrical photos: Sociality in the second second site: Agrical photos: Sociality in the second secon	NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in evidence of the time of t	
(Applied to permanent pits)	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo: Satellite image	XINA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes XNo
Within 500 feet of a wetland.	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No
Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Minard Division	Yes X No
Within an unstable area.	
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	
Within a 100-year floodplain       -       FEMA map	Yes XNo

11			
Temporary Pits, Emerge Instructions: Each of the follo	ncy Pits and Below-grade Tanks P owing items must be attached to the app	Permit Application Attachmen	nt Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Repo	ort (Below-grade Tanks) - based upor	n the requirements of Paragraph	(4) of Subsection B of 19.15.17.0 NMAC
Hydrogeologic Data	(Temporary and Emergency Pits) - I	based upon the requirements of	Paragraph (2) of Subsection B of 19.15 17.9
X Siting Criteria Com	pliance Demonstrations - based upon	the appropriate requirements of	f 19 15 17 10 NMAC
X Design Plan - based	upon the appropriate requirements o	of 19.15.17.11 NMAC	
X Operating and Main	tenance Plan - based upon the approp	priate requirements of 19-15-17	
X Closure Plan (Please 19.15.17.9 NMAC a	complete Boxes 14 through 18, if aj ind 19 15 17 13 NMAC	pplicable) - based upon the appr	opriate requirements of Subsection C of
Previously Approved De	esign (attach copy of design)	API	or Permit
12         Closed-loop Systems Perm         Instructions: Each of the follo         Geologic and Hydrog         Siting Criteria Comp         Design Plan - based n         Operating and Mainte         Closure Plan (Please - NMAC and 19.15.17         Previously Approved Des         Previously Approved Des         Image: Previously Approved Operating and the follo         Listructions: Each of the follo         Siting Criteria Compli         Climatological Factors         Certified Engineering         Dike Protection and S         Leak Detection Design	ait Application Attachment Checkl wing items must be attached to the appli- geologic Data (only for on-site closur- diance Demonstrations (only for on-s- upon the appropriate requirements of enance Plan - based upon the appropri- complete Boxes 14 through 18, if ap- .13 NMAC sign (attach copy of design) erating and Maintenance Plan plication Checklist: Subsection B wing items must be attached to the appro- t - based upon the requirements of Pa- iance Demonstrations - based upon the s Assessment Design Plans - based upon the appro- tructural Integrity Design: based upon n - based upon the appropriate require nd Compatibility Assessment - based upon the appro-	dist:       Subsection B of 19.15.17.9 N         ication.       Please indicate, by a check         ication.       Please indicate, by a check         ice - based upon the requirement       site closure) - based upon the approximate requirements of 19.15.17.11         riate requirements of 19.15.17.1       NMAC         ariate requirements of 19.15.17.1       splicable) - based upon the approximate requirements of 19.15.17.1         of 19.15.17.9 NMAC       Incation.         lication.       Please indicate, by a check         aragraph (1) of Subsection B of 19.15.17       n         priate requirements of 19.15.17.11       NMAC	MAC k mark in the box, that the documents are attached. Is of Paragraph (3) of Subsection B of 19.15.17.9 propriate requirements of 19.15.17.10 NMAC 12.NMAC priate requirements of Subsection C of 19.15.17.9 ck mark in the box, that the documents are attached. 19.15.17.9 NMAC 19.15.17.9 NMAC 19.15.17.10 NMAC 11.NMAC of 19.15.17.11 NMAC
Quality Control/Quality Operating and Mainter Freeboard and Overtop	y Assurance Construction and Installa ance Plan - based upon the appropria pping Prevention Plan - based upon the	l upon the appropriate requirement lation Plan ate requirements of 19.15.17.12 he appropriate requirements of 1	nts of 19.15.17.11 NMAC NMAC 9.15.17.11 NMAC
Emergency Response F     Oil Field Waste Stream	Odors, including H2S, Prevention P Plan Characterization	Plan	
Monitoring and Inspect	ion Plan		
Closure Plan - based ur	on the appropriate requirements of a		
	and appropriate requirements of S	Subsection C of 19.15.17.9 NM	AC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17	13 NMAC		
Instructions: Please complete the	e applicable boxes, Boxes 14 through 1	8, in regards to the proposed class	ite plan
Type: Drilling Worko	ver Emergency Cavitation	P&A Permanent Pit	Below-grade Tank Closed-loop System
Proposed Closure Method:	Waste Excavation and Removal	(Below-Grade Tank)	
Ē	Waste Removal (Closed-loop system	is only)	
	On-site Closure Method (only for ten	nporary pits and closed-loop syste	ems)
	In-place Burial	n-site Trench	
	Alternative Closure Method (Excepti	ions must be submitted to the Sar	ta Fe Environmental Bureau for consideration
15 Waste Excavation and Remov Please indicate, by a check mark	val Closure Plan Checklist: (19.15.1	7.13 NMAC) Instructions: Each of	of the following items must be attached to the closure plan.
X Protocols and Procedures	s - based upon the appropriate require	ements of 19.15 17 13 NMAC	
X Confirmation Sampling I	Plan (if applicable) - based upon the a	appropriate requirements of Sub	section E of 19 15 17 12 NMAAC
X Disposal Facility Name a	and Permit Number (for liquids, drilli	ing fluids and drill cuttings)	Section F 01 17.13.17.13 NMAC
X Soil Backfill and Cover I	Design Specifications - based upon th	ne appropriate requirements of S	ubsection H of 19,15,17 13 NMAC
X Re-vegetation Plan - base	d upon the appropriate requirements	of Subsection L of 19.15.17.13	NMAC
X Site Reclamation Plan - h	ased upon the appropriate requireme	ents of Subsection G of 19.15.17	13 NMAC

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Instructions: Please identify the facility or facilities for the disposal of liqu are required.	Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMA uids, drilling fluids and drill cuttings. Use attachment if more than t	C) wo facilities
Disposal Facility Name:	Disposal Facility Permit #	
Disposal Facility Name:	Disposal Facility Permit #	
Will any of the proposed closed-loop system operations and associal Yes (If yes, please provide the information No	ted activities occur on or in areas that will not be used for futu	re service and operations?
Required for impacted areas which will not be used for future service and         Soil Backfill and Cover Design Specification - based upon th         Re-vegetation Plan - based upon the appropriate requirement         Site Reclamation Plan - based upon the appropriate requirement	operations: ne appropriate requirements of Subsection H of 19.15.17.13 N is of Subsection I of 19.15.17.13 NMAC nets of Subsection G of 19.15.17.13 NMAC	MAC
17 Siting Criterio (Regarding on site stars) at the stars		
Instructions: Each siting criteria requires a demonstration of compliance in the ch certain siting criteria may require administrative approval from the appropriate d for consideration of approval. Justifications and/or demonstrations of equivalence	7.10 NMAC osure plan. Recommendations of acceptable source material are provided i istrict office or may be considered an exception which must be submitted to y are required. Please refer to 19:15:17:10 NMAC for guidance.	below. Requests regarding changes to the Santu-Fe Environmental Bureau offic
Ground water is less than 50 feet below the bottom of the buried was	ste.	
<ul> <li>NM Office of the State Engineer - iWATERS database search: USG</li> </ul>	S: Data obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the bu	ried waste	
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS</li> </ul>	: Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried w	/aste.	
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS</li> </ul>	: Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any of (measured from the ordinary high-water mark).	her significant watercourse or lakebed, sinkhole, or playa lake	Yes No
<ul> <li>Topographic map: Visual inspection (certification) of the proposed site</li> </ul>	e	
Within 300 feet from a permanent residence, school, hospital, institution, or - Visual inspection (certification) of the proposed site; Aerial photo; sate	church in existence at the time of initial application. Ilite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring th purposes, or within 1000 horizontal fee of any other fresh water well or sprin - NM Office of the State Engineer - iWATERS database: Visual inspectio Within incomposited wardshift of the state and	hat less than five households use for domestic or stock watering g. in existence at the time of the initial application. on (certification) of the proposed site	Yes No
<ul> <li>within incorporated municipal boundaries or within a defined municipal fres ursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality. Written appr</li> </ul>	h water well field covered under a municipal ordinance adopted	Yes No
Vithin 500 feet of a wetland	noval onlaneu noni ne municipality	
- US Fish and Wildlife Wetland Identification map: Topographic map; V	isual inspection (certification) of the proposed site	Yes No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or man from the NIM EMMIDD, Mine</li> </ul>		Yes No
/ithin an unstable area.	ing and Mineral Division	
- Engineering measures incorporated into the design: NM Bureau of Geole Topographic map	ogy & Mineral Resources: USGS; NM Geological Society;	Yes No
/ithin a 100-year floodplain. - FEMA map		Yes No
n-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions, a check mark in the box, that the documents are attached.	Each of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the app	propriate requirements of 19.15.17 10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate req	uirements 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 o Protocols and Procedures - based upon the appropriate requirement	f a drying pad) - based upon the appropriate requirements of 19 ents of 19 15 17 13 NMAC	9.15.17.11 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appl	ropriate requirements of Subsection F of 19 15 17 13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requ	irements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drilling)	fluids and drill cuttings or in case on-site closure standards can	not be achieved)
Re-vegetation Plan - based upon the appropriate requirements of S	Subsection H of 19.15.17.13 NMAC	
	SUBSCHOLIGETS LET ENMAC	

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 П

Operator Application C	
	Certification:
Thereby certify that the info	formation submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Crystal Tafoya Title: Regulatory Technician
Signature:	Capital Taloya Date: 12/22/2008
e-mail address:	Telephone: 505-326-9837
20	
OCD Approval:	Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Sig	ignature:
	Approval Date:
Title:	OCD Permit Number:
11	
-' Closure Report (require	red within 60 dove of dovero completion).
Instructions: Operators are	e required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure received.
report is required to be sub-	mitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an
approved closure plan has p	peen obtained and the closure activities have been completed.
	Closure Completion Date:
22	
Closure Method:	
Waste Excavation an	Ind Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loon systems only)
If different from app	proved plan, please explain.
23	
Closure Report Regarding	2 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Topks on Have off Bing Onto
Instructions: Please identify	by the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
Were utilized.	s provide a second s
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop syst	Disposal Facility Permit Number:
Yes (If yes, please de	compliance to the items below)
Required for impacted are	reas which will not be used for four mentions of the second se
Site Reclamation (Ph	hoto Documentation)
Soil Backfilling and C	Cover Installation
Re-vegetation Applica	cation Rates and Seeding Technique
24	
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Closure Keport Attach	hment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate his a check must be
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the box, that the documen     Proof of Closure No     Proof of Deed Notic     Plot Plan (for on-site	hment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in otice (surface owner and division) ce (required for on-site closure) te closures and temporary pits)
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Township: 28N Range: 04W Sections:   NAD27 X: Y: Zone: Search Radius:   County: Basin: Number: Suffix:   Owner Name: (First) (Last) Non-Domestic Domestic
NAD27 X:     Y:     Zone:     Search Radius:       County:     Basin:     Number:     Suffix:       Owner Name:     (First)     (Last)     Non-Domestic     Domestic
County: Basin: Number: Suffix: Suffix: Owner Name: (First) (Last) Con-Domestic Comestic Comes
Owner Name: (First) (Last) CNon-Domestic CDomestic CA
POD / Surface Data Report Avg Depth to water Report Water Column Report
Clear Form iWATERS Menu Help
WATER COLUMN REPORT 08/20/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water (

600

160

85

Record Count: 2

28N

28N

04W 07

04W 26

1 1 1

SJ 00045

SJ 02385

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	Township:	28N	Range	: 05W	Sectior	ns:						
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			Clear	Form	iWATE	RS Mer	nu	Help				
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				WATE	R COLUMN	REPOR	T 08/	20/20	8,00			
	(quar	ters ar	e 1=N	W 2=NE	3=SW 4=	SE)						
	(quar	ters ar	e big	gest to	o smalle	st)			Depth	Depth	Water	(in
POD Number	T	vs Rng	Sec	aaa	Zone	x		Y	Well	Water	Column	
SJ 01893	2	8N 05W	18	4					390	290	100	
SJ 0004/	2	050 NCO N10	20	2					400	202	200	
20 00030	21	OTA ODW	20						202	243	50	

Record Count: 3

New	Mexico	Office	of the	State	Engineer
	POD R	eports	and D	ownl	oads

Township: 27N Range: 04W Sections:
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Owner Name: (First) (Last) CNon-Domestic CDomestic All
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MATTER COLUMN REPORT 08/20/2008

	(quarter (quarter	s are	e 1=1 e big	JQ¢	2= est	NE to	3=SW 4=SE) smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	đ	đ	a	Zone	x	Y	143	Water	Column	
SJ 00048	27N	04W	18	4	2	2				15			
SJ 01205	27N	04W	34	4	4	4				3054	750	2304	

Record Count: 3

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Page	1	of	1

New Mexico Office of the State Engineer POD Reports and Downloads	
Township: 27N Range: 05W Sections:	TT-MM/Oladar
NAD27 X: Y: Zone: Search Radius	
County: Basin: Number:	Suffix:
Owner Name: (First) (Last) C Non-Domestic	C Domestic @ All
POD / Surface Data Report Avg Depth to Water Report Water	r Column Report
Clear Form iWATERS Menu Help	
WATER COLUMN REPORT 08/20/2008	

		Depth	Depth	Water	(in								
POD Number	Tws	Rng	Sec	g	g	P	Zone	х	Y	Well	Water	Column	
RG 81026	27N	05W	27	4	4	3				460	186	274	
SJ 00199	27N	05W	.03	2	1					1840			
SJ 00046	27N	05W	0.4	4	4					506	260	246	

Record Count: 3



# ConocoPhillips

### AERIAL MAP SAN JUAN 28-4 UNIT 29



Aerial flown locally Sedgewick in 2005.

1000FT

300FT

1:6,000

NAD\_1983\_SP\_ NM West\_FIPS\_3003 8/08

# Mines, Mills and Quarries Web Map

# SAN JUAN 28-4 UNIT 29

Unit Letter: M, Section: 31, Town: 028N, Range: 004W



### SAN JUAN 28-4 UNIT 29

### Site Specific Hydrogeology

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A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-4 UNIT 29', which is located at 36.61168 degree, North latitude and 107.29707 degree, West longitude. This location is located on the Vigas Canyon 7.5' USGS topographic quadrangle. This location is in section 31 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 27.8 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 51.2 miles to the west (National Atlas). The nearest highway is US Highway 64, located 6.7 miles to the north. The location is on National Forest land and is 915 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 2229 meters or 7311 feet above sea level and receives 14.5 inches of rain each year. The vegetation at this location is classified as Rocky Mountain Ponderosa Pine Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 642 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 512 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,454 feet to the south. The nearest water body is 3,500 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 2,241 feet to the southwest. 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 4,883 feet to the southeast. The nearest wetland is a 0.6 acre other located 11,645 feet to the south. The slope at this location is 6 degree, to the south as calculated from USGS 30M National Elevation Dataset. This information is also discerbed from the aerial and topographic map included. The surface geology at this location is SAN JOSE FCRMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. There is no SSURGO soil data available for this location. The nearest underground mine is 15.4 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 Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The Sac Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally 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 of 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 periday were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, at dispendissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan 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.
- 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 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.

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- 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 **J45BB** 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 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs 151 lbs **ASTM D 5261** 168 lbs (oz/yd²) 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 88 lbf MD 110 lbf MD 90 lbf MD 1" Tensile Strength ASTM D 7003 113 lbf MD 110 lbf MD 138 lbf MD 63 lbf DD 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** 550 MD 750 MD Break, % (Film Break) 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD ASTM D 7003 20 MD 30 MD Peak % (Scrim Break) 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 (bf MD ASTM D 5884 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 180 lbf MD Grab Tensile 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 120 lbf MD Trapezoid Tear 146 lbf MD 130 lbf MD **ASTM D 4533** 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 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 180° F 180° F 180° F 180° F 180° F Minimum Use Temperature

MD = Machine Direction

DD = Diagonal Directions

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

-70° F

-70° F

\*Dimensional Stability Maximum Value

-70° F

\*\*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.

WORE RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, to guarantee of satisfactory results from reliance upon contained information or recommendations and aso aims all fubility for resulting loss or damage.

-70° F

Sioux Falls, South Dakota

# SALES OFFICE

-70° F

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

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 have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or 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.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 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, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the 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