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MS N Findborn Dr. Rebox, NM 8303 Energy Minerals and Natural Resources July 21, 20 MS W. Gond Ave., Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS W. Gond Ave., Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS W. Gond Ave., Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Brans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Brans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Stans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Stans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Stans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Stans RE, Ansax, NM 8210 Energy Minerals and Natural Resources July 21, 20 MS M. Stans RE, Ansax, NM 8210 Energy Minerals and Anatural Resources Different Stans Resources Differe	District I	State of New Mexico	Form C-144
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301 W. Gand Ave, Ansel, MM 8210 Dif Conservation Division 302 R. Branck RJ, Asci. NM 19700 Santa Fe, NM 87505 302 R. Branck RJ, Asci. NM 19700 Print Closed-Loop System, Below-Grade Tank, or 7 Proposed Alternative Method Permit or Closure Plan Application 7 Proposed Alternative Method Permit or Closure Plan Application 7 Proposed Alternative Method Permit or Closure Plan Application 7 Proposed Alternative method 10 Closure Jan and Locas-Loop system, below-grade tank, or proposed alternative method 10 Closure Jan and Locas-Loop system, below-grade tank, or proposed alternative method 10 Hotification to a existing permit 10 Closure Jan and Locas-Loop system, below-grade tank, or proposed alternative method 10 Hotification to a existing permit 10 Districture Plan Application 10 Prote backstabular plan to any diversal distribute complex distribute distribute complex distribute distribute complex distribute distribute complex distribute	District II	Department	For temporary pits, closed-loop sytems, and below-grade tanks submit to the appropriate NMOCD District Office
Data Data Reg. MR 1710 Satia Fe, NM 87505 Prepresentation of the adjoint the Satua Fe impropriet NMCC Dataset Office. Data Data Reg. NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or proposed Alternative method Data Dataset Mote Dataset Office. Prepresentation of the state of the s	1301 W. Grand Ave., Artesia, NM 88210	Oil Conservation Division	tures, such to the appropriate randob bisaret office.
	1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe
228 S. Hendi, Dr. Sauk, F. M. (1705) Pit. Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action: Proposed Alternative Method Permit or Closure Plan Application Type of action: Proposed Alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Observation bank or proposed alternative method Instructions: Please tank, or proposed alternative method Distribution to an existing permit do on on-permitted or non-permitted pit, closed-loop system, below-grade tank or alternative request Pace badvied bank appropage dots no relieve the operator of liability should genuinous coult in policion of actieve state, particulary trans, reglation or or diameters. Address: Post S289, Farmington, NM 87499 Pacified Type Same Design: Sate Company, LP OGRID#: 14538 Address: Section: 15 Torwship: 280 Range: 1107.094438* NAD: X 1927] 1983 Partia Courter: A Section: 15 Torwship: 280 Range: 1107.094438* NAD: X 1927] 1983 Proposed Design: Latitude: 36.6722* Longitude: -107.99438* NAD: X 1927] 1983 Premanent Enter of Proposed Design: Latitude: 15 Torwship: 280 Range:	District IV		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
Proposed Alternative Method Permit or Closure Plan Application Type of action:	1220 S. St. Francis Dr., Santa Fe, NM 87505	Pit Closed Loon System Palow Grad	Topk or
Type of action: <pre></pre>	Propo	sed Alternative Method Permit or Closur	e Plan Application
Type to action: Plant of a ph. (bode-food system, below-grade tank, or proposed alternative method [] Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please backhed that approval disc the spectra of the operator of liability chould operators result in polation of safete water, ground water of the compatibility to comply with any data spectral autory rule, replatibility comply with any data spectral autory rule, rule autory and rule rule autory and rule rule autory and rule rule autory rule autory autory and rule rule autory autory andin a	Tune of action:	V Permit of a pit, closed loop system, below grade to	ak or proposed alternative method
Modification to an existing permit Modification to an existing permit dor non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank, or proposed tanks, nor proposed alternative request Please be adved that approval of the request os to releve the operator of libbility to compy with any after applicable governmental mulerity's rules, regulations or ordinances. Please be adved that approval of the request os to releve the operator of libbility to compy with any after applicable governmental mulerity's rules, regulations or ordinances. Portator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 differs: ID Gas 4289, Farmington, NN 87499 Facility or well name: DELO 2 API Number: 3004520928 OCD Permit Number: U/L or Qur(Qr: A Section: 15 Township: 28N Range: 11W Country: San Juan Center of Proposed Design: Latitude: 366722*N Longitude: -107.98438*W NAD: X 1927] 1983 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment Permanent Benegreey Cleavitation P&A Linet Untimed Line type: Thickness mit LLDPE HDPE PVC Other	Type of action.	Closure of a pit, closed-loop system, below-grade (a	ank, or proposed alternative method
Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please backed has approved this respected these not relieve the operations result in polation of suffice water, grand water or the environment. Nur des: approval relieve the operator of its respectivity to use applicable governmental autority's nucle, regulations or ordinaces. Derator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Farrnington, NN 87499 Facility or well name: DELO2 Address: D Box 4289, Facility of the dependence of the provide applicable governmental autority's name. regulated Difference Design: Latitude: 36.66722'N Longitude: -107.98438'W NAD: X 1927]1983 Surface Owner: X Federal D State D Private D Tribul Trust or Indian Allotment D String-Reinforced Design: Latitude: Design: Difference Design: Latitude: Design: D Box Designed D D Designed D D Designed D Designed D		Modification to an existing permit	aik, or proposed attentiative method
		Closure plan only submitted for an existing permitt	ed or non nermitted nit closed loon system
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advected that append effects on cellice the operator of likelity though operations recall in pollution of under water, grade tank or adternative request OPERATOR ESOURCES OIL & Gas Company, LP OGRID#: 14538 Address: PO Box 4289, Farmington, NM 87499 Facility or well name: DELO 2 API Number:		below-grade tank, or proposed alternative method	ed of non-permitted pit, closed-loop system,
Please te abside that approval of this request does can relieve the operator of flability should operations reach in pallation of arriver water, proval water or the environment. Nor does approval relieve the operator of its regonsibility is comply with my other applicable governmental autority's rules, regulations or ordinances. 1 OCRID#: 14538 2 OCRID#: 14538 4 OCRID#: 14517 2 0 OCD Permit Number: 1/1.or QUrQU:	Instructions: Please submit one of	upplication (Form C-144) per individual pit, closed-loop	system, below-grade tank or alternative request
environment. Ner des approval relieve the operator of in responsibility to comply with any other applicable governmental autority's rules, regulations or ordinances. Deperator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 OCD Permit Number: PO Box 4289, Farmington, NM 87499 Facility or well name: DELO 2 API Number: 3004520928 OCD Permit Number: U/L or Qttr/Qtr:	Please be advised that approval	of this request does not relieve the operator of liability should operations re	sult in pollution of surface water, ground water or the
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 Address: PO Box 4289, Farmington, NM 87499	environment. Nor does approval re	lieve the operator of its responsibility to comply with any other applicable g	overnmental authority's rules, regulations or ordinances.
Address: PO Box 4289, Farmington, NM 87499 Facility or well name: DELO 2 API Number: 3004520928 OCD Permit Number: U/L or Qtr/Qtr: A. Section: 15 Township: 28N Range: 11W County: San Juan Center of Proposed Design: Latinde: 36.66722?N Longitude: - If Fig. Subsection For G of 19.15.17.11 NMAC Temporary: Drilling Workover — Permanent Emergencey Classed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Diriling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Dying Pad Above Ground Steel Tanks Haul-off Bins Doter	1 Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Facility or well name: DELO 2 API Number: 3004520928 OCD Permit Number: UL or QUPQT: A Section: 15 Township: 28N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.66722*N Longitude: -107.98438*W NAD: X 1927 1983 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment Permanent Emergency Cavitation P&A Diruling Workover mil LLDPE HDPE PVC Other	Address: PO Box 4289, Farmingt	on, NM 87499	
API Number:	Facility or well name: DELO 2		
U/L or Qtr/Qtr: A Section: 15 Township: 28N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.66722°N Longitude: -107.98438°W NAD: X] 1927 1983 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment 2 PEI: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Energency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other	API Number:	3004520928 OCD Permit Number	
Center of Proposed Design: Latitude: 36.66722'N Longitude: -107.98438'W NAD: X 1927 1983 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment PHI: Subsection For G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other	U/L or Otr/Otr: A Sect	ion: 15 Township: 28N Range: 1	1W County: San Juan
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other	Center of Proposed Design: Latitud	e: 36.66722°N Longitude:	-107.98438°W NAD: X 1927 1983
2 Pt: Subsection F or G of 19.15.17.11 NMAC 7 Permanent Emergency Cavitation P&A 1 Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other	Surface Owner: X Federal	State Private Tribal Trust or Indian	Allotment
Lined Unlined Liner type: Thickness mil LLDPE PVD Other 4 * Below-grade tank: Subsection 1 of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form C-144 Oil Conservation Division Page 1 of 5	Temporary: Drilling Wo Permanent Emergency Image: Constraint of the second of the secon	rkover Cavitation P&A LLDPE mil LLDPE I Factory Other Volume: Tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to a notice of intent) und Steel Tanks Haul-off Bins Other	HDPE PVC Other bbl Dimensions Lx Wx D activities which require prior approval of a permit or
4 X Below-grade tank: Subsection 1 of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified 5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form C-144	Lined Unlined Lin Liner Seams: Welded F	er type: Thicknessmil LLDPE H	DPE PVD Other
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form C-144 Oil Conservation Division Page 1 of 5	4 X Below-grade tank: Subsection Volume: 120 Tank Construction material:	1 of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other mil HDPE PVC X Other U	matic overflow shut-off nspecified
Form C-144 Oil Conservation Division Page 1 of 5	5 Alternative Method: Submittal of an exception request is re	equired. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.
A 211 A VILSA VILLUL ZZVISUJI PUDZ PUDZ PUDZ PUDZ PUDZ PUDZ	Form C. 144	Oil Concervation Division	Dana Lof S

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 6 <u>Fencing:</u> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u> 						
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other						
Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC						
 Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	nsideration of a	pproval.				
10 <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.						
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Tonographic man: Visual inspection (certification) of the proposed site	Yes Yes	X No X No				
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site: Aerial photo: Satellite image 	□Yes □NA	XNo				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes XNA	No				
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo				
 NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality. Written approval obtained from the municipality. 	Yes	XNo				
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. Written confirmation or purification or proposed from the NIM EMNIP. 	☐Yes ☐Yes	XN0 XN0				
 Written contribution of vertification of map from the NM EMINED - Mining and Mineral Division Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map 	Yes	XNo				
Within a 100-year floodplain - FEMA map	Yes	XNo				

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached:
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19:15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
¹² <u>Closed-loop Systems Permit Application Attachment Checklist:</u> Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate by a check mark in the box, that the documents are attached
Geologic and Hydrogeologic Data (only for on-site closure) - based upon 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 requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13 Democrat Dite Domain Application Checkbirt, Subsection D of 10.15.17.0 NMAAC
remanent rus remain Application Checklist: Subsection B of 19.15.17.9 NMAC
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 appropriate requirements of 19 15 17 10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Nuisance or Hazardous Odors, including H2S. Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
[]On-site Closure Method (only for temporary pits and closed-loop systems)
UIn-place Burial UOn-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
[X] Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (If applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal facinity name and Permit number (for highlds, drifting fluids and drift cuttings) X Soit Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection 11 of 10.15.17.12 bb/(4.0)
N Be ussetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.15 NMAC
Image: Image: A starting of the second starting of
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16 Waste Removal Closure For Closed-Joop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMA(C)						
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than to are required.	vo facilities						
Disposal Facility Name: Disposal Facility Permit #:							
Disposal Facility Name: Disposal Facility Permit #:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No							
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements 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	ИАС						
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	below. Requests regarding changes to the Santa Fe Environmental Bureau office						
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No						
- NM Office of the State Engineer - iWATERS database search: USGS: Data obtained from nearby wells	N/A						
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells							
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells							
Within 300 feet of a continuously flowing watercourse. or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No						
- 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 of initial application. - Visual inspection (certification) of the proposed site; Aerial photo: satellite image	Yes No						
Within 500 horizontal 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 fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality: Written approval obtained from the municipality	Yes No						
Within 500 feet of a wetland	Yes No						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.	Yes No						
- written confirmation or verification or map from the NM EMINED-Mining and Mineral Division							
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic man 							
Within a 100-year floodplain. - FEMA map	Yes No						
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the close by a check mark in the box, that the documents are attached.	sure 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 appropriate 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 requirements of 19.15.17.13 NMAC							
Contirmation Sampling Plan (it applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC							
waste matchai sampling rian - vased upon the appropriate requirements of subsection F of 19.15.17.15 NMAC							
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19:15.17.13 NMAC							

[9]			
Operator Application	Certification:		
I hereby certify that the in	iformation submitted with this application is true, ac	curate and complete to the	e best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	atal Tologa	Date:	12/22/2008
e-mail address:	crystal.tatoya@conocophillips.com	Telephone:	505-326-9837
20 OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative S	Signature:		Approval Date:
Title:		OCD Per	mit Number:
21 <u>Closure Report (requi</u> Instructions: Operators an report is required to be su approved closure plan has	red within 60 days of closure completion): Sure required to obtain an approved closure plan prior abmitted to the division within 60 days of the complet s been obtained and the closure activities have been a been a been a	bsection K of 19.15.17.13 NMA to implementing any clos ion of the closure activiti completed.	C ure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an re Completion Date:
22 Closure Method: Waste Excavation If different from a	and Removal On-site Closure Method pproved plan, please explain.	Alternative Closure	e Method Waste Removal (Closed-loop systems only)
23 <u>Closure Report Regardin</u> Instructions: Please ident were utilized.	ng Waste Removal Closure For Closed-loop Syster tify the facility or facilities for where the liquids, dri	ns That Utilize Above G lling fluids and drill cutt	round Steel Tanks or Haul-off Bins Only: ings were disposed. Use attachment if more than two facilities
Disposal Facility Name	e:	Disposal Facility	y Permit Number:
Disposal Facility Name	2:	Disposal Facility	y Permit Number:
Were the closed-loop s	system operations and associated activities performed	on or in areas that will n	or be used for future service and opeartions?
Yes (If yes, please	demonstrate complilane to the items below)	No	
Required for impacted	areas which will not be used for future service and o	perations:	
Site Reclamation	(Photo Documentation)		
Soil Backfilling ar	nd Cover Installation		
Re-vegetation App	olication Rates and Seeding Technique		
24 Closure Report Att the box, that the docur Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S	achment Checklist: Instructions: Each of the fol ments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable)	lowing items must be attu	ached to the closure report. Please indicate, by a check mark in
Disposal Facility	Name and Permit Number		
Soil Backfilling	and Cover Installation		
Re-vegetation A	pplication Rates and Seeding Technique		
Site Reclamation	(Photo Documentation)		
On-site Closure	Location: Latitude:	Longitude:	NAD 1927 1983
25 Operator Closure Cert I hereby certify that the in, the closure complies with	t <mark>ification:</mark> formation and attachments submitted with this closur all applicable closure requirements and conditions sp	e report is ture, accurate pecified in the approved c	and complete to the best of my knowledge and belief. I also certify that losure plan.
Name (Print):		Title:	
Signature:	72.7.1=	Date:	
e-mail address:		Telephone:	

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New Mexico Office of the State Engineer

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County:		Basin:			Nu	mber:		Suffix:		The deleterated
Owner Name:	(First)		(Last)			∩ Non-I	Domestic	C Dom	estic e	All
POD / S	urface Data F	leport	Avg	Depth to	Water Repo	ort	Wat	er Column	Report	
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SJ 02916	28N	11W 07	3 4 4				98	70	28	

Record Count: 2





Mines, Mills and Quarries Web Map

DELO 2 Unit Letter: A, Section: 15, Town: 028N, Range: 011W





DELO #2



DELO 2

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'DELO 2', which is located at 36.66722 degrees North latitude and 107.98438 degrees West longitude. This location is located on the Bloomfield 7.5' USGS topographic quadrangle. This location is in section 15 of Township 28 North Range 11 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 Bloomfield, located 3.0 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 13.1 miles to the west (National Atlas). The nearest highway is US Highway 550, located 0.4 miles to the west. The location is on BLM land and is 3,783 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1685 meters or 5526 feet above sea level and receives 9.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Greasewood Flat as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 52 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 66 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,467 feet to the east. The nearest water body is 5,435 feet to the east. It is classified by the USGS as a perennial lake and is 3.0 acres in size. The nearest spring is 4,750 feet to the south. 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 7,056 feet to the northwest. The nearest wetland is a 79.2 acre Ravine located 1,501 feet to the southwest. The slope at this location is 0 degrees to the southwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Blancot-Notal association, gently sloping' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.7 miles to the west 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, eastcentral San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

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

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

General Plan:

- 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
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



PROPERTIES TEST METHOD J30BB **J36BB** Min. Roll Typical Roll Min. Roll Typical Roll Averages Averages Averages Averages Appearance Black/Black Black/Black Thickness

Thickness				Bla	ck/Black	Bla	ck/Black
THICKNESS	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs	168 lbs	189 lbs	45 mil
Construction		**Ev		(21.74)	(24.19)	(27.21)	(30.24)
Ply Adhesion	ASTM D 412	10.11	CAUGSION laminated with encapsulated tri-directional scrim reinfe				
	701110413	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
Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD	750 MD
1 [°] Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD	20 MD	750 DD 36 MD
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	36 DD 117 lbf MD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD
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	193 lbf MD
* Dimensional Stability	ASTM D 1204	<1	<0.5				191 lbf DD
Puncture Resistance	ASTM D 4833	50 lbf	0.0		<0.5	<1	<0.5
Maximum Use Temperature			64 lbt	65 lbf	83 lbf	80 lbf	99 lbf
Winimum Lise Temperature		180° F	180° F	180° F	180° F	180° F	180° F
D = Machine Direction		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

DD = Diagonal Directions

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

*Dimensional Stability Maximum Value

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

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



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

30. J36 8. J4

J45BB

Typical Roll

Averages

Min. Roll

Averages

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 equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree

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

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be 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 This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

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

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

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

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

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a 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 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 of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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

 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation Confirmation Sampling Results

 - Proof of closure notice