| Press       partners         Press       partners </th <th>SPOIL TED</th> <th>A Network Destaura</th> <th>Form C-1</th>   | SPOIL TED   | A Network Destaura   | Form C-1   |
|---|---|--|--|
| 1220 SUIT SL. FTRIES D. Santa Fe, NM 8740 Santa Fe, NM 8740 Santa Fe, NM 8750 Sinta Fe, SM 8750 Sinta | REGISTER  | ED partment<br>vation Division   | For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.  |
| 1226 S. St. Fundis Dr., Sama Fr. MM. 8755       Pill. Closed-Loop System, Below-Grade Tank, or proposed Alternative method         Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method       Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method         Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method       Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method         Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method       Closure of a pit, closed-loop system, below-grade tank or alternative rector         Instructions: Please submit and an quest foc not filters the opentic altability fluid operation rank in policing on the openation of the pentitic distality fluid operation rank in policing on the openation of the pentitic distality fluid operation rank in policing on the openation of the pentitic distality fluid operation rank in policing on the openation of the pentitic distality fluid operation rank in policing on openation of the pentitic distality fluid operation rank in policing on openation of the pentitic distality fluid operation rank in policing on openation of the pentitic distality fluid operation rank in policing of the pentitic distality fluid operation rank in policing in the pentitic distality fluid operation of the pentitic distality fluid distality of the pentitic distality fluid operation openation openatis distaling distaling distality openatis distality openation open   | 1000 Rio Brazos Rd., Aztec, NM 87410<br>District IV   | Santa Fe, NM 87505   | For permanent pits and exceptions submit to the Santa Fe<br>Environmental Bureau office and provide a copy to the  |
| Proposed Alternative Method Permit or Closure Plan Application         Type of action:  | 1220 S. St. Francis Dr., Santa Fe, NM 87505   |  | appropriate NMOCD District Office.   |
| Proprised Atternative inclusion of paint of a pit, closed-loop system, below-grade tank, or proposed alternative method   | Droposo   | Pit, Closed-Loop System, Below-Grad  | e Tank, or   |
| Type of action:       X       Yermit of a pit, closed-loop system, below-grade tank, 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 permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative rendod         Instructions:       Please submit one explication (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative rendo         Please be abled tha approval of this regulated bean on cellore the operator of liability to comply with any other splication of unfate wave, ground water or the environment. Not dost approval of alternative rendombility to comply with any other splicable or output wave, ground water or the environment. Not dost approval of alternative rendombility to comply with any other splicable or output splicable or output splicable or output splicable spectra or the environment. Not dost approval of alternative rendombility to comply with any other splicable or output splicable spectra or three spectra of the intervention of a provide alternative rendombility to comply with any other splicable or output splicable spectra or three spectra of the operator of the operator of the spectra of the splicable or output splicable spectra or three spectra of the operator of the operator of the spectra of the splicable or output splicable spectra or the splicable or output splicable spectra or the environment alternative rendom splicable or output splicable spectra or output splicable or output splicable spectra or output splicable spectra or the spectra or output splicable spectra or output splicable spectra or the splicable  | <u>Propose</u>  | a Alternative Method Permit of Closur  | e Plan Application   |
| 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 ret<br>environment. Nor does approval relieve the operator of liability should operations result in pollution of surface water, ground water or the<br>environment. Nor does approval relieve the operator of instription the operator of the operator of the operator of the operator.            Corrator: Burlington Resources Oil & Cas Company, LP   | Type of action:   | X Permit of a pit, closed-loop system, below-grade to<br>Closure of a pit, closed-loop system, below-grade<br>Modification to an existing permit<br>Closure plan only submitted for an existing permit             | ank, or proposed alternative method<br>tank, or proposed alternative method<br>tted or non-permitted pit, closed-loop system,  |
| Instructions: Please submit one application ( <i>Form C-14s</i> ) per individual per discretion evaluation product on gradice tanks or aditered expension of the inspectation of suffice water, consideration of the evaluation of the evaluatis and therevaluation of the evaluation of the evaluatio                        |   | below-grade tank, or proposed alternative method   |  |
| Operator:       Burlington Resources Oil & Gas Company, LP       OGRID#:       14538         Address:       PO Box 4289, Farmington, NM 87499         Facility or well name:       SAN JUAN 27-5 UNIT 69M         API Number:       3003923823       OCD Permit Number:         UL or Qtr/Qtr:       t       Section:       7       Township:       27N       Range:       SW       County:       Rio Arriba         Center of Proposed Design:       Latitude:       36.58601°N       Longitude:       -107.39346°W       NAD:       X] 1927[]         Surface Owner:       Federal       State       X       Private       Tribal Trust or Indian Allotment         2       Pit:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Drilling       Workover         Permanent       Eneregency       Cavitation       P&A   | Please be advised that approval of t<br>environment. Nor does approval reliev   | blication (form C-144) per individual pit, closed-loc<br>his request does not relieve the operator of liability should operations re-<br>re the operator of its responsibility to comply with any other applicable | op system, below-grade tank or alternative reque<br>esult in pollution of surface water, ground water or the<br>governmental authority's rules, regulations or ordinances. |
| Autorsal       DDx 4 vol, Nutriting on the other         Facility or well name:       SAN JUAN 27-5 UNIT 69M         API Number:       3003923823         OCD Permit Number:       U/L or Qtr/Qtr:         I       Section:       7         Township:       27N       Range:       SW         Center of Proposed Design:       Latitude:       36.55601°N       Longitude:       -107.39346°W       NAD: X 1927[1]         Surface Owner:       Federal       State       X       Private       Tribal Trust or Indian Allotment         2       Pit:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Doiling       Workover         Permanent       Emergency       Cavitation       P&A       Liner Seams:       Welded       Factory       Other  | 1<br>Operator: Burlington Resources Oil (<br>Address: PO Box 4289 Farmington  | & Gas Company, LP  | OGRID#: <b>14538</b>   |
| API Number:       3003923823       OCD Permit Number:         U/L or Qtr/Qtr:       1       Section:       7       Township:       27N       Range:       SW       County:       Rio Arriba         Center of Proposed Design:       Latitude:       36.58601°N       Longitude:       -107.39346°W       NAD:       X] 1927       1         Surface Owner:       Federal       State       X       Private       Tribal Trust or Indian Allotment         2       Ptit:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Drilling       Weided       Factory       Other   | Facility or well name: SAN JUAN 27  |  |  |
| U/L or Qtr/Qtr:       1       Section:       7       Township:       27N       Range:       5W       County:       Rio Arriba         Center of Proposed Design:       Latitude:       36.58601°N       Longitude:       -107.39346°W       NAD:       X 1927       1         Surface Owner:       Federal       State       X       Private       Tribal Trust or Indian Allotment         2       PfL:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A  | API Number: 30  | 03923823 OCD Permit Numbe  | r:   |
| Center of Proposed Design:       Latitude:       36.58601°N       Longitude:       -107.39346°W       NAD:       X 1927       1         Surface Owner:       Federal       State       X       Private       Tribal Trust or Indian Allotment         2       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       Volume:       bbl       Dimensions L       x W       x D         3       Closed-loop System:       Subsection H of 19.15.17.11 NMAC       Type of Operation:       P&A       Drilling a new well       Workover or Drilling (Applies to activities which require prior approval of a permit on incite of intent)         1       Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other  | U/L or Otr/Otr: I Section   | : 7 Township: 27N Range: 4   | 5W County: Rio Arriba  |
| Surface Owner:       Federal       State       Private       Tribal Trust or Indian Allotment         2       Pft:       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   | Center of Proposed Design: Latitude:  | <b>36.58601°N</b> Longitude:   | -107.39346°W NAD: X 1927 198   |
| 2       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   | Surface Owner: Federal  | State X Private Tribal Trust or Indian   | n Allotment  |
| Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other <b>A Elow-grade tank:</b> Subsection I 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   |   |  |  |
| 4         X       Below-grade tank:       Subsection I 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  | Lined Unlined Line<br>String-Reinforced<br>Liner Seams: Welded Factor<br>3<br>Closed-loop System: Subsection<br>Type of Operation: P&A  | tory Other Volume:<br>n H of 19.15.17.11 NMAC<br>Drilling a new well Workover or Drilling (Applies to<br>notice of intent)   | HDPE PVC Other   |
| Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval   | Lined Unlined Line<br>String-Reinforced<br>Liner Seams: Welded Fact<br>Closed-loop System: Subsectio<br>Type of Operation: P&A<br>Drying Pad Above Ground<br>Lined Unlined Liner to<br>Liner Seams: Welded , Fact   | er type: Thickness mil LLDPE   | HDPE PVC Other   |
|   | Lined       Unlined       Line         String-Reinforced       Liner Seams:       Welded       Fact         3       Closed-loop System:       Subsection         7       Drying Pad       Above Ground         1       Drying Pad       Above Ground         2       Drying Pad       Above Ground         3       Lined       Unlined       Liner (         4       X       Below-grade tank:       Subsection 1 of         4       X       Below-grade tank:       Subsection 1 of         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak deted         Visible sidewalls and liner       Liner Type:         Liner Type:       Thickness  | er type: Thickness mil LLDPE   | HDPE       PVC       Other   |
|   | Lined       Unlined       Line         String-Reinforced       Liner Seams:       Welded       Fac         3       Closed-loop System:       Subsectio         Type of Operation:       P&A       Image: Subsection         Drying Pad       Above Ground       Liner f         Lined       Unlined       Liner f         Liner Seams:       Welded       Fact         4       X       Below-grade tank:       Subsection for         4       X       Below-grade tank:       Subsection for         Volume:       120       bbl         Tank Construction material:       Secondary containment with leak deter         Visible sidewalls and liner       Liner Type:         Liner Type:       Thickness         5       Alternative Method:         Submittal of an exception request is required. | er type: Thickness mil LLDPE   | HDPE       PVC       Other   |

| 0   |                            |  |  |  |  |  |  |  |  |  |
|---|----------------------------|--|--|--|--|--|--|--|--|--|
| Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary nits, and helow-groche 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, hospite   | d. institution or church)  |  |  |  |  |  |  |  |  |  |
| Promitor frequent four strands of barbed wire evenly spaced between one and four feet   |                            |  |  |  |  |  |  |  |  |  |
| X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.  |                            |  |  |  |  |  |  |  |  |  |
| 7 Netting to be of Figure 1   |                            |  |  |  |  |  |  |  |  |  |
| Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)   |                            |  |  |  |  |  |  |  |  |  |
| Monthly inspections (Continue on the second       |                            |  |  |  |  |  |  |  |  |  |
| United any dispectations (if neuring or screening is not physically feasible)   |                            |  |  |  |  |  |  |  |  |  |
| <sup>o</sup> Signs: Subsection C of 19.15.17.11 NMAC  |                            |  |  |  |  |  |  |  |  |  |
| 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone mimbers  |                            |  |  |  |  |  |  |  |  |  |
| X Signed in compliance with 19.15.3.103 NMAC  |                            |  |  |  |  |  |  |  |  |  |
| 9   |                            |  |  |  |  |  |  |  |  |  |
| Administrative Approvals and Exceptions:  |                            |  |  |  |  |  |  |  |  |  |
| Please check a bar if are an end of the fit is in the required. Please refer to 19.15.17 NMAC for guidance.   |                            |  |  |  |  |  |  |  |  |  |
| X Administrative approved (a) B answer of the following is requested, if not leave blank:   |                            |  |  |  |  |  |  |  |  |  |
| (Fencing/BGT Liner)   | consideration of approval. |  |  |  |  |  |  |  |  |  |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.   |                            |  |  |  |  |  |  |  |  |  |
| 10  |                            |  |  |  |  |  |  |  |  |  |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC  |                            |  |  |  |  |  |  |  |  |  |
| source material are provided below. Requests regarding changes to certain siting criteria below in the application. Recommendations of acceptable   |                            |  |  |  |  |  |  |  |  |  |
| appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau ()ffice for  |                            |  |  |  |  |  |  |  |  |  |
| does not apply to drying pads or above grade-tanks associated with a closed loss surface. Siting criteria   |                            |  |  |  |  |  |  |  |  |  |
|   |                            |  |  |  |  |  |  |  |  |  |
| <ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>  | 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 nerrow state it to be the base of the proposed site  |                            |  |  |  |  |  |  |  |  |  |
| application.  | Yes XNo                    |  |  |  |  |  |  |  |  |  |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks)   |                            |  |  |  |  |  |  |  |  |  |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   |                            |  |  |  |  |  |  |  |  |  |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  |                            |  |  |  |  |  |  |  |  |  |
| (Applied to permanent pits)   |                            |  |  |  |  |  |  |  |  |  |
| <ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>   |                            |  |  |  |  |  |  |  |  |  |
| 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 size   |                            |  |  |  |  |  |  |  |  |  |
| 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 X No                   |  |  |  |  |  |  |  |  |  |
| - Written confirmation or verification from the municipality; Written approval obtained from the municipality   |                            |  |  |  |  |  |  |  |  |  |
| <ul> <li>US Fish and Wildlife Wetland Identification man: Tonographic man: Visual income visual sector of the sector of the</li></ul> | Yes X No                   |  |  |  |  |  |  |  |  |  |
| Within the area overlying a subsurface mine.  |                            |  |  |  |  |  |  |  |  |  |
| - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division   | Yes X No                   |  |  |  |  |  |  |  |  |  |
| Within an unstable area,  | Yes XNo                    |  |  |  |  |  |  |  |  |  |
| Society; Topographic map  |                            |  |  |  |  |  |  |  |  |  |
| Within a 100-year floodplain  | Yes XINo                   |  |  |  |  |  |  |  |  |  |
| - сылатыр   |                            |  |  |  |  |  |  |  |  |  |

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| 11                              |   |  |   |
|---------------------------------|---|--|---|
| Temporary Pits, Emer            | gency Pits and Below-grade Tanks P  | ermit Application Attachment (   | herelice Submit Decision                                |
| Instructions: Each of the fi    | slowing items must be attached to the appl  | lication. Please indicate, by a checks   | mark in the box, that the documents are attached        |
| A Hydrogeologic Ro              | port (Below-grade Tanks) - based upor   | the requirements of Paragraph (4   | ) of Subsection B of 19.15.17.9 NMAC                    |
| V Sitim Criteria C              | ita (Temporary and Emergency Pits) - E  | based upon the requirements of Par   | ragraph (2) of Subsection B of 19:15.17.9               |
| N Shung Crueria Co              | impliance Demonstrations - based upon   | the appropriate requirements of 19   | 0.15.17.10 NMAC   |
| N Design Plan - base            | ed upon the appropriate requirements of   | E19.15.17.11 NMAC  |   |
| A Operating and Ma              | intenance Plan - based upon the approp  | riate requirements of 19.15.17.12  | NMAC  |
| X Closure Plan (Plea            | se complete Boxes 14 through 18, if ap  | plicable) - based upon the appropr   | The requirements of Subaration Open                     |
| 19.15.17.9 NMAC                 | and 19.15.17.13 NMAC  | i and a station  | and requirements of subsection C of                     |
| Previously Approved             | Design (attach copy of design)  | API  | or Permit   |
| 12                              |   |  |   |
| Liosed-loop Systems Pe          | rmit Application Attachment Checkl  | ist: Subsection B of 19.15.17.9 NM/  | AC  |
| Geologic and Hydr               | rowing tiems must be attached to the applie<br>ogeologie Data (only for an size 1 | cation. Please indicate, by a check me   | irk in the box, that the documents are attached         |
| Siting Criteria Con             | apliance Dura (only for on-site closure   | <li>c) - based upon the requirements of</li>   | f Paragraph (3) of Subsection B of 19.15.17.9           |
| Design Plan base                | d upper the   | te closure) - based upon the approp  | priate requirements of 19.15.17.10 NMAC                 |
|                                 | upon the appropriate requirements of  | 19.15.17.11 NMAC   |   |
|                                 | atenance Plan - based upon the appropr  | iate requirements of 19.15.17.12 N   | IMAC  |
| Closure Plan (Pleas             | e complete Boxes 14 through 18, if app  | licable) - based upon the appropria  | ale requirements of Submation Cost to 15 to 2           |
| NIMAC and 19.15.                | 1.13 NMAC   |  | in requirements of Subsection C of 19.15.17.9           |
| Previously Approved D           | esign (attach copy of design)   | API  |   |
| Previously Approved O           | perating and Maintenance Plan   | API  |   |
| 13                              |   |  |   |
| Permanent Pits Permit A         | pplication Checklist: Subsection B  | 0E 19.15.17.9 NMAC   |   |
| Instructions: Each of the fol   | lowing items must be attached to the appli  | cation. Please indicate by a check -   | and in the former of the second                         |
| Hydrogeologic Repo              | ort - based upon the requirements of Par  | ragranh (1) of Subsection R of 10.1  | sure in the box, that the documents are attached.       |
| Siting Criteria Com             | pliance Demonstrations - based upon th  | e appropriate requirements of 19.1   | 5.17.9 NMAC   |
| Climatological Facto            | ors Assessment  | - appropriate requirements of 19.1   | 5.17.40 NMAC  |
| Certified Engineerin            | g Design Plans - based upon the approp  | riate requirements of 19 15 17 11  | NMAC  |
| Dike Protection and             | Structural Integrity Design: based upon   | the appropriate requirements of 19   | 9 15 17 11 NMAC   |
| Leak Detection Desi             | gn - based upon the appropriate requires  | ments of 19.15.17.11 NMAC  |   |
| Liner Specifications            | and Compatibility Assessment - based i  | upon the appropriate requirements  | of 19.15.17.11 NMAC                                     |
| Quanty Control/Qua              | ily Assurance Construction and Installa   | tion Plan  |   |
| Freeboard and Maint             | enance Plan - based upon the appropriate  | te requirements of 19.15.17.12 NN  | 1AC   |
| Nuisance or Hazardo             | opping Prevention Plan - based upon the   | e appropriate requirements of 19.1.  | 5.17.11 NMAC  |
| Emergency Response              | Plan  | an   |   |
| Oil Field Waste Strea           | m Characterization  |  |   |
| Monitoring and Inspe            | ction Plan  |  |   |
| Erosion Control Plan            |   |  |   |
| Closure Plan - based i          | upon the appropriate requirements of Su   | Insection C of 10 15 17 0 March  |   |
| 14                              |   | IDSECTION C. OF 19.15.17.9 NMAC  | and 19.15.17.13 NMAC                                    |
| Proposed Closure: 19.15.1       | 7.13 NMAC   |  |   |
| nstructions: Please complete t  | he applicable boxes. Boxes 14 through 18.   | in regards to the proposed closure   |   |
| ype: Drilling Work              | over Emergency Cavitation   |  |   |
| Alternative                     |   |  | elow-grade Tank Closed-loop System                      |
| roposed Closure Method:         | X Waste Excavation and Removal  | (Below-Grade Tank)   |   |
| [                               | Waste Removal (Closed-loop systems  | only)  |   |
| [                               | On-site Closure Method (only for tem  | porary pits and closed-loon systems  |   |
|                                 | In-place Burial   | -site Trench   | ·   |
| [                               | Alternative Closure Method (Excentio  | ns must be submitted to the Santa F  | a Environment D   |
| 5                               |   |  | Environmental Bureau for consideration)                 |
| Vaste Excavation and Rem        | oval Closure Plan Charletter and the  |  |   |
| lease indicate, by a check mart | k in the box, that the documents are attend                                       | 13 NMAC) Instructions: Each of the   | e following items must be attached to the closure plan. |
| X Protocols and Procedur        | es - based upon the appropriate requires  | ments of 19 15 17 12 MAAA  |   |
| X Confirmation Sampling         | Plan (if applicable) - based upon the av  | Dependence of 19.15.17.15 NMAC   |   |
| X Disposal Facility Name        | and Permit Number (for liquids deittin  | of fluids and drill and  | ion F of 19.15.17.13 NMAC                               |
| X Soil Backfill and Cover       | Design Specifications - based upon the  | appropriate security and the security of the s |   |
| X Re-vegetation Plan - bas      | sed upon the appropriate requirements   | of Subcostion 1 - 4 10 rest  | ection H of 19.15.17.13 NMAC                            |
| X Site Reclamation Plan -       | based upon the appropriate events   | n Subsection 1 of 19.15.17.13 NM   | AC  |
|                                 | apon are appropriate requiremen   | is of Subsection G of 19.15.17.13  | NMAC  |
|                                 |   |  |   |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Crow  | nd Steel Tankage Hart Street  |  |
|--|---|--|
| instructions: Please identify the facility or facilities for the disposal of liquids, a<br>are required.   | lie Steel Fanks or Haul-off Bins Only: (19.15.17.13.D NM.<br>brilling fluids and drill cuttings. Use attachment if more than  | AC)<br>new familier :  |
| Disposal Facility Name:  |   | no pacinines   |
| Disposal Facility Name:  | Disposal Facility Permit #:   |  |
| Will any of the proposed closed-loop system operations of  | Disposal Facility Permit #:   |  |
| Yes (If yes, please provide the information No<br>Required for impacted areas which will not be the form   | tivities occur on or in areas that will not be used for fut   | ure service and operations?  |
| <ul> <li>Soil Backfill and Cover Design Specification - based upon the app</li> <li>Re-vegetation Plan - based upon the appropriate requirements of S</li> <li>Site Reclamation Plan - based upon the appropriate requirements of</li> </ul>   | itions:<br>propriate requirements of Subsection H of 19.15.17.13 N<br>Subsection I of 19.15.17.13 NMAC<br>of Subsection G of 19.15.17.13 NMAC   | МАС  |
| 17   |   |  |
| Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 f<br>Instructions: Each same criteria requires a demonstration of compliance in the closure p<br>certain string criteria may require administrative approval from the appropriate district<br>for consideration of approval. Justifications and/or demonstrations of emisulence are r   | NMAC<br>Jan. Recommendations of acceptable source material are provided<br>office or may be considered an exception which must be submitted to<br>quitted. Busing extension to the term | below. Requests regarding changes to<br>the Santa Fe Environmental Ruceau of |
| Ground water is less than 50 feet below the bottom of the bar  | quoru, Preuse refer to 19.15.17.10.NMAC for guidance.   |  |
| <ul> <li>NM Office of the State Engineer - iWATERS database search: USGS: Data</li> </ul>  | obtained from nearby wells  |  |
| Ground water is between 50 and 100 feet below the bottom of the buried w   | vaste   |  |
| - NM Office of the State Engineer - iWATERS database search; USGS: Data  | obtained from nearby wells  | Yes No   |
| but out is more than 100 feet below the bottom of the buried waste.  |   |  |
| <ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data</li> </ul>  | obtained from nearby wells  |  |
| /ithin 300 feet of a continuously flowing watercourse, or 200 feet of any other signeasured from the ordinary high-water mark).  | nificant watercourse or lakebed, sinkhole, or playa lake  | Ves No   |
| <ul> <li>Topographic map: Visual inspection (certification) of the proposed site</li> </ul>  |   |  |
| ithin 300 feet from a permanent residence, school, hospital, institution, or church<br>Visual inspection (certification) of the proposed site; Aerial photo: satellire in  | in existence at the time of initial application:  | Yes No   |
| ithin 500 horizontal fect of a private, domestic fresh water well or spring that less<br>rposes, or within 1000 horizontal fee of any other fresh water well or spring, in e<br>NM Office of the State Engineer - iWATERS database: Visual inspection (cen   | than five households use for domestic or stock watering<br>kistence at the time of the initial application.<br>tification) of the proposed site   | Yes No   |
| <ul> <li>Written confirmation or verification from the municipality; Written approval of</li> </ul>  | r well field covered under a municipal ordinance adopted  | Yes No   |
| thin 500 feet of a wetland   | and non the municipality.   |  |
| <ul> <li>US Fish and Wildlife Wetland Identification map: Topographic map: Visual in<br/>this the second se</li></ul> | spection (certification) of the proposed site   | Yes No   |
| - Written confiramtion or verification or map from the NM EMNRD Mining and   | Mineral Division  | Yes No   |
| finn an unstable area.   |   |  |
| Forgenaphic map  | Mineral Resources: USGS; NM Geological Society;   |  |
| - FEMA map   |   | Yes No   |
| Site Closure Dian Charletter (10 to to the   |   |  |
| check mark in the box, that the documents are attached.  | s of the following items must bee attached to the closur  | e plan. Please indicate,   |
| Siting Criteria Compliance Demonstrations - based upon the appropriat  | te requirements of 19.15.17.10 NMAC   |  |
| Proof of Surface Owner Notice - based upon the appropriate requireme   | nts of Subsection F of 19.15.17.13 NMAC   |  |
| Construction/Design Plan of Burial Trench (if applicable) based upon t   | he appropriate requirements of 19.15.17.11 NMAC   |  |
| Construction/Design Plan of Temporary Pit (for in place burial of a dry  | ing pad) - based upon the appropriate requirements  | 15 17 11 50  |
| Protocols and Procedures - based upon the appropriate requirements of  | 19.15.17.13 NMAC  | 15.17.11 NMAC  |
| Confirmation Sampling Plan (if applicable) - based upon the appropriate  | requirements of Subsection F of 19 15 17 13 NMARC   |  |
| Waste Material Sampling Plan - based upon the appropriate requiremen   | ts of Subsection F of 19 15 17 13 NMAC  |  |
| Disposal Facility Name and Permit Number (for liquids, drilling fluids a   | nd drill cuttings or in case on site structure  |  |
| Soil Cover Design - based upon the appropriate requirements of Subsect<br>Re-vegetation Plan - based upon the appropriate requirements of Subsect  | ion H of 19.15.17.13 NMAC   | iot be achieved)   |
| Site Reclamation Plan, based upon the annual structure in Structure  | uon 101 19.15.17.13 NMAC  |  |

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

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| I hundred and the desired of the  | ertification:   |  |  |  |
|---|---|--|--|--|
| Name (Print)  | mation submitted with this application is true  | , accurate and complete to the   | best of my knowledge and belief.   |  |
| Similar (11111).  | Crystal Tatoya  | Title:   | Regulatory Technician  |  |
| Signature:  | aptal Japan   | Date:  | 12/22/2008   |  |
| e-mail address:   | develai talova el conocophillio (com/"  | Telephone:   | 505-326-9837   |  |
| 20  |   |  |  |  |
| OCD Approval:   | mit Application (including closure plan)  | Closure Plan (only)  | OCD Conditions (see attachment)  |  |
| OCD Representative Sig  | nature:   |  | Approval Date:   |  |
| Title:  |   | OCD Perm   | it Number:   |  |
| 21  |   |  |  |  |
| <b>COSUTE REPORT (required</b><br>Instructions: Operators are re-<br>report is required to be subm  | I within 60 days of closure completion):<br>equired to obtain an approved closure plan pr<br>itted to the division within 60 days of the com  | Subsection K of 19.15.17.13 NMAC<br>for to implementing any closu-<br>pletion of the closure activities  | e activities and submitting the closure report<br>Playse do not complete this content of the                 | . The closure  |
| approved closure plan has be  | en obtained and the closure activities have be  | en completed.  | rease to not complete this section of the jo   | orm until an   |
|   |   |  | Completion Date:   |  |
| 22<br>Closure Method:   |   |  |  |  |
| Waste Excavation and  | Removal On-site Closure Metho   | d Alternative Closure !  | Aethod Waste Removal (Closed-loop)   | systems only)  |
| If different from appre   | oved plan, please explain.  |  |  | .,   |
| 23  |   |  |  |  |
| Closure Report Regarding V  | Vaste Removal Closure For Closed-loop Sys   | tems That Utilize Above Gro  | und Steel Tanks or Haul-off Bins Only:   |  |
| vere utilized.  | me facility or facilities for where the liquids,  | drilling fluids and drill cuttin   | gs were disposed. Use attachment if more th  | an two facilities                                    |
| Disposal Facility Name:   |   | Disposal Facility F  | ermit Number:  |  |
| Disnosal Facility Name  |   |  |  |  |
| reaction ruenny name.   |   | Disposal Facility F  | ermit Number:  |  |
| Were the closed-loop syste  | m operations and associated activities perform  | Disposal Facility F<br>ned on or in areas that will not  | ermit Number:  |  |
| Were the closed-loop syste  | m operations and associated activities perform<br>nonstrate complilane to the items below)  | Disposal Facility F<br>and on or in areas that will not<br>No  | ermit Number:  |  |
| Were the closed-loop syste Yes (If yes, please den Required for impacted area   | m operations and associated activities perform<br>nonstrate complilane to the items below)<br>as which will not be used for future service and  | Disposal Facility F<br>ned on or in areas that will not<br>No<br>d operations:   | ermit Number:  |  |
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| Were the closed-loop syste         Yes (If yes, please den         Required for impacted area         Site Reclamation (Pho         Soil Backfilling and Co   | m operations and associated activities perform<br>nonstrate complilane to the items below)<br>as which will not be used for future service and<br>to Documentation)<br>over Installation  | Disposal Facility F<br>ned on or in areas that will not<br>No<br>d operations:   | ermit Number:  |  |
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| Were the closed-loop syste Yes (If yes, please den Required for impacted area Site Reclamation (Pho Soil Backfilling and Co Re-vegetation Applicat  | m operations and associated activities perform<br>nonstrate complilane to the items below)<br>as which will not be used for future service and<br>to Documentation)<br>over Installation<br>tion Rates and Sceding Technique  | Disposal Facility F<br>ned on or in areas that will not<br>No<br>d operations:   | ermit Number:  |  |
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| New Mexico | <b>Office</b> | of the       | State | Engineer |
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| Township: 27N Range: 06W Sections:                                      |
|---|
| 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 Column Report |
| Clear Form iWATERS Menu Help  |
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### WATER COLUMN REPORT 08/20/2008

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|------------|----------------------|----------------|----------------|-----------|-----------|----------|---------------------|----------|---|-------|-------|--------|-----|
| POD Number | Tws                  | Rng            | Sec            | g         | g         | đ        | Zone                | х        | Y | Well  | Water | Column |     |
| SJ 03001   | 27N                  | 06W            | 07             | 2         | 2         | 1        |                     |          |   | 141   | 41    | 100    |     |
| SJ 02403   | 27N                  | 06W            | 30             | 3         | 1         | 3        |                     |          |   | 505   | 300   | 205    |     |
| SJ 00213   | 27N                  | 06W            | 32             | 1         | 4         | 4        |                     |          |   | 1308  | 485   | 823    |     |
| SJ 00062   | 27N                  | 06W            | 32             | 3         | 3         | 3        |                     |          |   | 452   | 301   | 151    |     |
| SJ 00061   | 27N                  | 06W            | 32             | 3         | 3         | 3        |                     |          |   | 445   | 301   | 144    |     |

Record Count: 5

## New Mexico Office of the State Engineer

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

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|------------|----------------------|----------------|----------------|-----------|-----------|-----------|---------------------|------------|---|-------|-------|---------|-----|
| POD Number | Tws                  | Rng            | Sec            | q         | q         | a         | 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            | 04             | 4         | 4         |           |                     |            |   | 506   | 260   | 246     |     |

Record Count: 3





# Mines, Mills and Quarries Web Map

## SAN JUAN 27-5 UNIT 69M

Unit Letter: I, Section: 07, Town: 027N, Range: 005W





### SAN JUAN 27-5 UNIT 69M

### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 27-5 UNIT 69M', which is located at 36.58601 degree, North latitude and 107.39346 degree, West longitude. This location is located on the Santos Peak 7.5' USGS topographic quadrangle. This location is in section 7 of Township 27 North Range 5 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 Turley, located 24.4 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 46.3 miles to the west (National Atlas). The nearest highway is US Highway 64, located 6.9 miles to the north. The location is on Private land and is 973 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 as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 327 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 1,009 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,903 feet to the northeast. The nearest water body is 3,892 feet to the northeast. It is classified by the USGS as an intermittent lake and is 0.7 acres in size. The nearest spring is 28,156 feet to the east. 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 4,995 feet to the southwest. The nearest wetland is a 0.4 acre other located 6.951 feet to the north. The slope at this location is 2 degree, to the south as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION -- Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 17.4 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 San 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 per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in 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, and deep dissection 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.

# 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 J36BE J45BE Min. Roll Typical Roll Min. Roll Typical Roll Min. Roll Averages Typical Roll Averages Averages Averages Averages Appearance Averages 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 ASTM D 5261 140 lbs 151 lbs (oz/yd²) 168 lbs 189 lbs 210 lbs (18.14)(20.16)(21.74)(24.19)(27.21)(30.24)Construction \*\*Extrusion laminated with encapsulated tri-directional scrim reinforcement Ply Adhesion **ASTM D 413** 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD ASTM D 7003 90 lbf MD 113 Ibf 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 **ASTM D 7003** 750 MD 550 MD Break % (Film Break) 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD **ASTM D 7003** 20 MD Peak % (Scrim Break) 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD Tongue Tear Strength 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 75 lbf DD 100 lbf MD 117 lbf MD 90 lbf DD 92 lbf DD 75 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD 180 lbf MD ASTM D 7004 222 lbf MD 220 lbf MD 257 lbf MD 180 lbf DD 210 /bf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD 146 lbf MD **ASTM D 4533** 130 lbf MD 189 lbf MD 160 lbf MD 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 lbf

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.

180° F

-70° F

83 lbf

180° F

-70° F

\*Dimensional Stability Maximum Value

180° F

-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

THE LIPAVEN 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

180° F

-70° F

Sioux Falls, South Dakota

## SALES OFFICE

80 lbf

180° F

-70° F

99 lbf

180° F

-70° F

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

Maximum Use Temperature

Minimum Use Temperature



# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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 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 replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is associated with the site inspection.

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

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

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

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

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

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

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

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

### General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

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

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

### General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by 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 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