| District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 | State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 | Form C-144 July 21, 2008 For temporary plts, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. | | | | | | | |
|---|---|---|--|--|--|--|--|--|--|
| | Pit, Closed-Loop System, Below-Grad | e Tank, or | | | | | | | |
| Propos | sed Alternative Method Permit or Closur | | | | | | | | |
| Type of action: | X Permit of a pit, closed-loop system, below-grade to | ank or proposed alternative method | | | | | | | |
| . jpe er denom | Closure of a pit, closed-loop system, below-grade | • • | | | | | | | |
| | Modification to an existing permit | uning et proposed unernan te memor | | | | | | | |
| 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 a | application (Form C-144) per individual pit, closed-loc | p system, below-grade tank or alternative request | | | | | | | |
| Please be advised that approval of | of this request does not relieve the operator of liability should operations re | esult in pollution of surface water, ground water or the | | | | | | | |
| | lieve the operator of its responsibility to comply with any other applicable | governmental authority's rules, regulations or ordinances. | | | | | | | |
| I Operator: Burlington Resources O | il & Gas Company, LP | OGRID#: 14538 | | | | | | | |
| Address: PO Box 4289, Farmingto | | 11555 | | | | | | | |
| Facility or well name: SAN JUAN | | | | | | | | | |
| | 3003907330 OCD Permit Number | | | | | | | | |
| U/L or Qtr/Qtr: G Section | on: 29 Township: 28 N Range: 5 | W County: Rio Arriba | | | | | | | |
| Center of Proposed Design: Latitud | Center of Proposed Design: Latitude: 36.63475°N Longitude: -107.37859°W NAD: X 1927 1983 | | | | | | | | |
| Surface Owner: X Federal State Private Tribal Trust or Indian Allotment | | | | | | | | | |
| Permanent Emergency C Lined Unlined Li String-Reinforced | kover Cavitation P&A | HDPE PVC Other | | | | | | | |
| Type of Operation: P&A Drying Pad Above Group Lined Unlined | notice of intent) and Steel Tanks Haul-off Bins Other | activities which require prior approval of a permit or DPE PVD Other | | | | | | | |
| 4 X Below-grade tank: Subsection Volume: 120 b Tank Construction material: | bl Type of fluid: <u>Produced Water</u> <u>Metal</u> etection X Visible sidewalls, liner, 6-inch lift and autor Visible sidewalls only Other | nspecified | | | | | | | |
| 5 Alternative Method: | | | | | | | | | |
| | quired. Exceptions must be submitted to the Santa Fe Environ | mental Bureau office for consideration of approval. | | | | | | | |
| Form C-144 | Oil Conservation Division | Page 1 of 5 | | | | | | | |

| Eencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) | | | | | |
|---|----------------------------|--|--|--|--|
| Chain hok, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permittent residence, school, hospital Four loot beight, four strands of barbed wire available much bare. | d, insulation of church) | | | | |
| et a the available of barrow whe eventy 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 19.15.17.12 NMAC (August 2010) | | | | | |
| and permanent open top tanks) | | | | | |
| | | | | | |
| Monthly inspections (If netting or screening is not physically feasible) | | | | | |
| 8 Signs: Subsection C of 19.15.17.11 NMAC | | | | | |
| 142" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | | | | | |
| X Signed in compliance with 19.15.3.103 NMAC | | | | | |
| 9 | | | | | |
| Administrative Approvals and Exceptions: | | | | | |
| 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): Remests must be submitted to the approval is in the submitted to the | | | | | |
| X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner) | consideration of approval. | | | | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | | | | | |
| | | | | | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. 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 | Yes XNo | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa luke (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | Yes XNo | | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes X No | | | | |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | | | | | |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | | | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | | | | | |
| (Applied to permanent pits) | | | | | |
| Visual inspection (certification) of the proposed site: Aerial photo: Satellite image | XNA | | | | |
| Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | Yes XNo | | | | |
| - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. | | | | | |
| within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended | Yes XNo | | | | |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality. | | | | | |
| the state of a weight. | Yes X No | | | | |
| - 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 verification or map from the NM EMNRD - Mining and Mineral Division | Yes XNo | | | | |
| Within an unstable area. | | | | | |
| - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Yes XNo | | | | | |
| Within a 100-year floodplain FEMA map | | | | | |
| • •••••••• •••••• | Yes XNo | | | | |

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| X Yrotocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 10.15.17.13 NMAC | 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 Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC X Re-vegetation Plan - based upon the appropriate requirements of Subsection L of 19.15.17.13 NMAC | e indicate, by a check mark in the box, that the documents are attached. |
| Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soit Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 10.15.17.13 NMAC | Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection L of 19.15.17.13 NMAC | Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 MMAC |
| X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 10.15.17.12 NMAAG | Soil Backfill and Cover Design Specifications - 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 | Confirmation Sampling Plan (if applicable) - based upon the anompriste requirements of Subauting F. 6 (b) 45 (5 (b) 45 (b) 45 (5 (b) 45 (b) 45 (5 (b) 45 (5 (b) 45 (b) 4 |
| Soft Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 10.15 17 12 NMAC | X Soft Backfitt and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC | The second way a second state in the initiality of the second data and and data |
| VI Deserved a subsection requirements of subsection realized by 19.17.13 NMAC | The regention that - based upon the appropriate requirements of Subsection Lof 19 15 17 13 NMAC | Soft Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 10.15.17.12 Nature |
| The regention that - based upon the appropriate requirements of Subsection Lof 19.15.17.13 NMAC | X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | is the type and the appropriate requirements of Subsection 1 of 19 15 17 13 NMAC |
| X Site Reclamation Plan - based upon the appropriate requirements of Subsection C of 10.15 17 13 March | I I I I I I I I I I I I I I I I | Site Reclamation Plan - based upon the appropriate requirements of Subsection C of 10.15 17 15 MMAC |
| squirements of Subsection C of 19.15.17.13 NMAC | | |

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| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instituctions: Please identity the facility or facilities for the disposal of liquids, drifting i are required. | <u>I Tanks or Hauf-off Bins Only:</u> (19/15/17/13/D/NMAG duids and drill cuttings. <i>Use attachment if mare than v</i> | 2) so facilities |
| | | |
| Disposal Facility Name: Disposal Facility Name: | Disposal Pacinity Permit #: | |
| Will any of the proposed closed-loon system operations and according to basicili | Disposal Facility Permit #: | |
| | occur on or in areas that will not be used for futur | e service and operations? |
| Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriat Re-vepetation Plan - based upon the appropriat | e requirements of Subsection H of 19.15.17.13 NM | IAC |
| L was a start of the start and the appropriate requirements of Subsect | 100 [0f 10 15 17 13 MAAAC | |
| Site Reclamation Plan - based upon the appropriate requirements of Subs | ection G of 19.15.17.13 NMAC | |
| 17 Siting Celesia (Dependence) is the | | |
| Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each string criteria tennires a demonstration of compliance in the closure of methods. | | |
| Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Re- certain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalence v are reasoned. | commendations of acceptable source material are provided b may be considered an exception which must be submitted to s | elow: Requests regarding changes to he South Fe Fourier and D |
| | Please refer to 19.15.17 10 NMAC for guidance | n oana ee anvironmental dareau 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 obtain | ed from nearby wells | |
| Ground water is between 50 and 100 feet below the bottom of the buried waste | | |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtaine | d from nearby wells | |
| Ground water is more than 100 feet below the bottom of the buried waste. | | |
| NM Office of the State Engineer - iWATERS database search; USGS; Data obtaine | d from pearby weits | |
| | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significan (measured from the ordinary high-water mark). | t watercourse or lakebed, sinkhole, or playa take | Yes No |
| Topographic map: Visual inspection (certification) of the proposed site | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in exis - Visual inspection (certification) of the proposed sile; Aerial photo: satellite image | stence at the time of initial application. | Yes No |
| | | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than fi purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence - NM Office of the State Engineer - iWATERS database; Visual inspection (certification Within immemory based on the state engineer - iWATERS database; Visual inspection (certification) | | |
| which incorporated municipal boundaries or within a defined municipal fresh water well f pursuant to NMSA 1978, Section 3-27-3, as amended. | ield covered under a municipal ordinance adopted | Yes No |
| Written confirmation or verification from the municipality; Written approval obtained Within 500 feet of a wetland | d from the municipality | |
| US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection | The formation of the second | Yes No |
| Within the area overlying a subsurface mine, | arcentification) of the proposed site | |
| Written confirantion or verification or map from the NM EMNRD-Mining and Miner | al Division | Yes No |
| Within an unstable area. | | |
| Engineering measures incorporated into the design; NM Bureau of Geology & Minera Topographic map | Resources: USGS; NM Geological Society; | |
| Within a 100-year floodplain. - FEMA map | | Yes No |
| 18 | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of th | e fallowing items | |
| | | plan. Please indicate, |
| Siting Criteria Compliance Demonstrations - based upon the appropriate requ | irements 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 app | ropriate requirements of 19.15.17.11 NMAC | |
| Construction/Design Plan of Temporary Pit (for in place burial of a drying pa | d) - based upon the appropriate mentionmuster of 10 | 15.17.11.NMAC |
| internet and trees and about the appropriate requirements of 19,15. | .17.13 NMAC | PROFILE DIVING |
| Confirmation Sampling Plan (if applicable) - based upon the appropriate requi | itements of Subsection F of 19 15 17 13 NMAC | |
| waste Material Sampling Plan - based upon the appropriate requirements of S | ubsection F of 19/15/17/13 MMAC | |
| Disposal Pacifity Name and Permit Number (for liquids, drilling fluids and dri | ill cuttings or in case on site closure standards and | ot be achieved) |
| Soil Cover Design - based upon the appropriate requirements of Subsection H Re-vegetation Plan - based upon the appropriate requirements of Subsection H | of 19.15.17.13 NMAC | |
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| Name (Print): | information submitted with this application is true, accur Crystal Tafoya | | |
|-----------------------------|---|--|--|
| Signature: | Platt | Title: | Regulatory Technician |
| | crystal alova @ conocochilles am | Date: | 12/22/2008 |
| e-mail address: | | Telephone: | 505-326-9837 |
| 20 OCD Approval: | | | _ |
| OCD Representative | Permit Application (including closure plan) | Closure Plan (only) | OCD Conditions (see attachment) |
| | angnature: | | Approval Date: |
| Title: | | OCD Perm | it Number: |
| 21 Clasure Report (rem | uired within 60 days of closure completion): Subsec | | |
| report is required to be s | are required to obtain an approved closure plan prior to a submitted to the division within 60 days of the completion as been obtained and the closure activities have been com | implementing any closu, of the closure activities | |
| | | | Completion Date: |
| 22 Closure Method: | | | |
| Waste Excavatio | n and Removat On-site Closure Method | Alternative Closure N | Matheat Thursday David Contract |
| If different from | approved plan, please explain. | | Method Waste Removal (Closed-loop systems only) |
| 23 | | | |
| nstructions: Please iden | ing Waste Removal Closure For Closed-loop Systems T ulfy the facility or facilities for where the liquids, drilling | That Utilize Above Gro | und Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than two facilities |
| | | g Joonis and artit cutting | gs were disposed. Use atlachment if more than two facilities |
| Disposal Facility Nam | | Disposal Facility P | Permit Number: |
| Disposal Facility Nam | | Disposal Facility P | ermit Number: |
| Yes If yes please | system operations and associated activities performed on a e demonstrate complifane to the items below) | | be used for future service and opeartions? |
| | | No | |
| Site Reclamation | l areas which will not be used for future service and opera (Photo Documentation) | ations: | |
| | nd Cover Installation | | |
| | plication Rates and Seeding Technique | | |
| i Closure Report Att | achment Charklist, Jarmaniana Sach et der | | |
| the box, that the docu | ments are attached. | ng items must be attach | ed to the closure report. Please indicate, by a check mark in |
| Proof of Closure | Notice (surface owner and division) | | |
| | otice (required for on-site closure) | | |
| Plot Plan (for on- | -site closures and temporary pits) | | |
| Confirmation Sa | mpling Analytical Results (if applicable) | | |
| Waste Material S | ampling Analytical Results (if applicable) | | |
| | Name and Permit Number | | |
| Soil Backfilling a | and Cover Installation | | |
| Re-vegetation Ap | plication Rates and Seeding Technique | | |
| Site Reclamation | (Photo Documentation) | | |
| On-site Closure L | ocation: Latitude: | Longitude: | NAD 1927 1983 |
| | | | |
| perator Closure Certi | | | |
| ereby certify that the infe | ormation and attachments submitted with this closure rem | ort is ture, accurate and | complete to the best of my knowledge and belief. I also certify that |
| ume (Print): | Il applicable closure requirements and conditions specifie | eu în îne appriveu ciosu | re plan. |
| znature: | | Title: | |
| | | Date | |
| nail address: | | | |

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New Mexico Office of the State Engineer

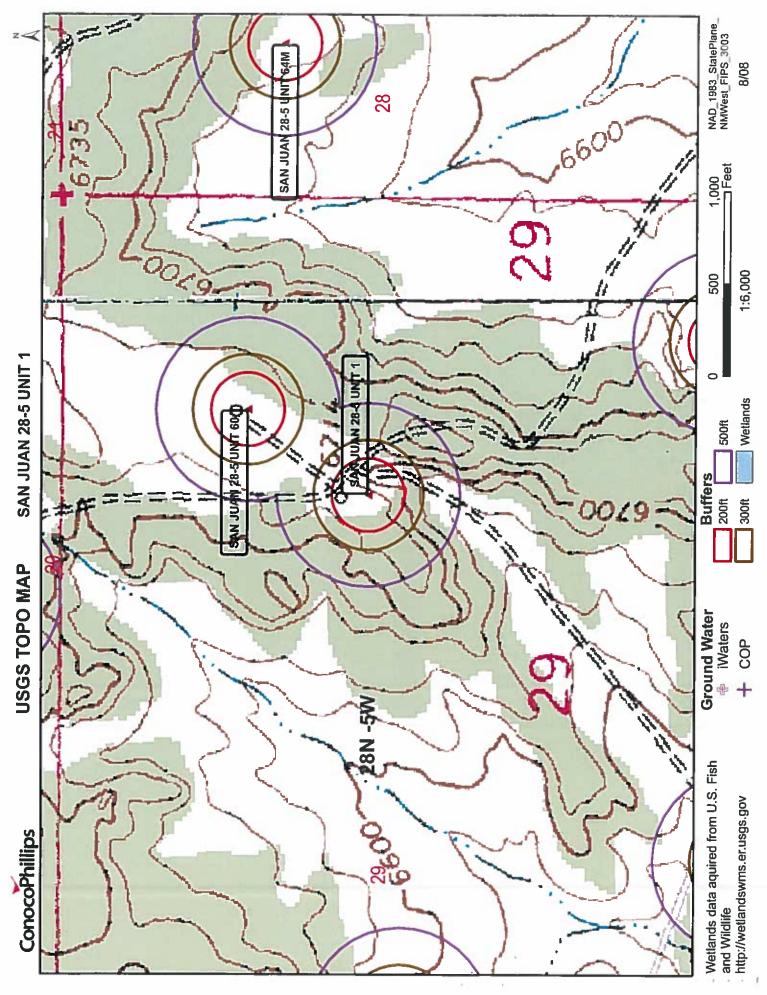
| Lage I ULI | Page | 1 | of | 1 |
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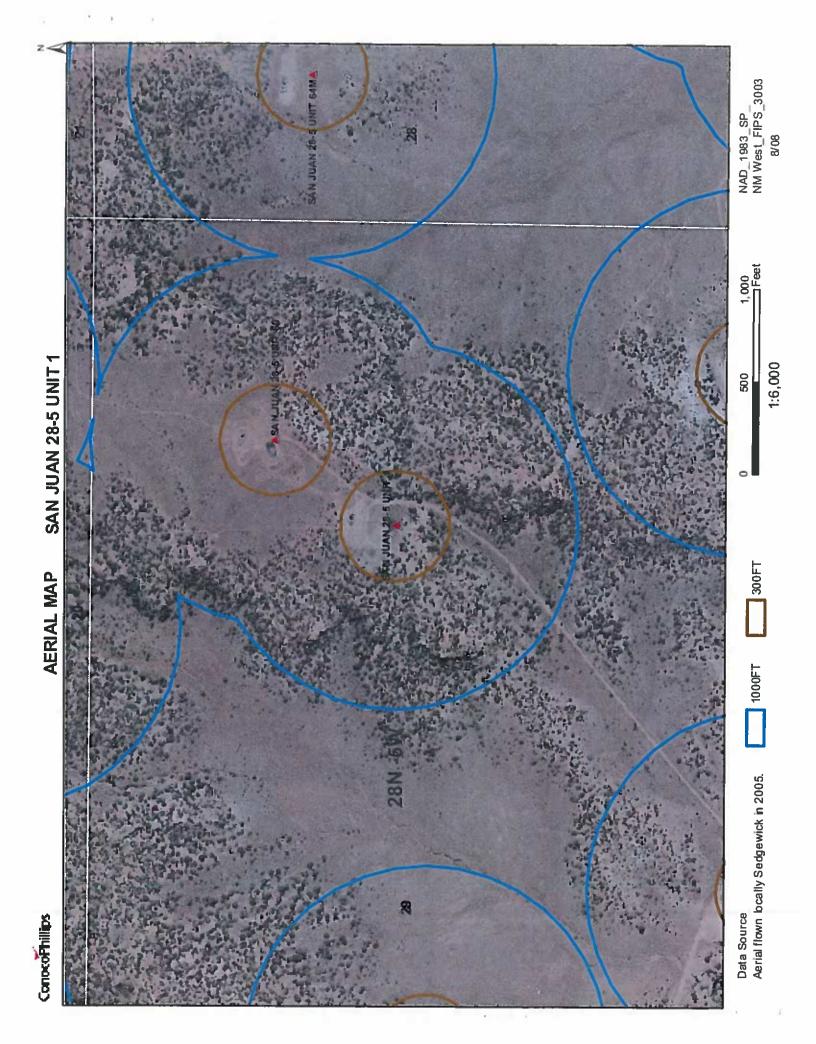
| New Mexico Office of the State Engineer POD Reports and Downloads | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Township: 28N Range: 05W Sections: | | | | | | | | | |
| NAD27 X: Y: Zone: Search Radius: | | | | | | | | | |
| County: Basin: Number: Suffix: | | | | | | | | | |
| Owner Name: (First) (Last) ONOn-Domestic ODomestic All | | | | | | | | | |
| POD / Surface Data Report Avg Depth to Water Report Water Column Report | | | | | | | | | |
| Clear Form iWATERS Menu Help | | | | | | | | | |
| WATER COLUMN REPORT 08/20/2008 | | | | | | | | | |

| | (quarter: (quarter: | | | | | | | | | Depth | Depth | Water (in |
|------------|------------------------|-----|-----|---|---|----------|------|---|---|-------|-------|-----------|
| POD Number | Tws | Rng | Sec | P | P | P | Zone | x | Y | Well | Water | Column |
| SJ 01893 | 28N | 05W | 18 | 4 | | | | | | 390 | 290 | 100 |
| SJ 00047 | 28N | 05W | 28 | | | | | | | 465 | 265 | 200 |
| SJ 00036 | 28N | 05W | 28 | 3 | | | | | | 303 | 243 | 60 |

Record Count: 3

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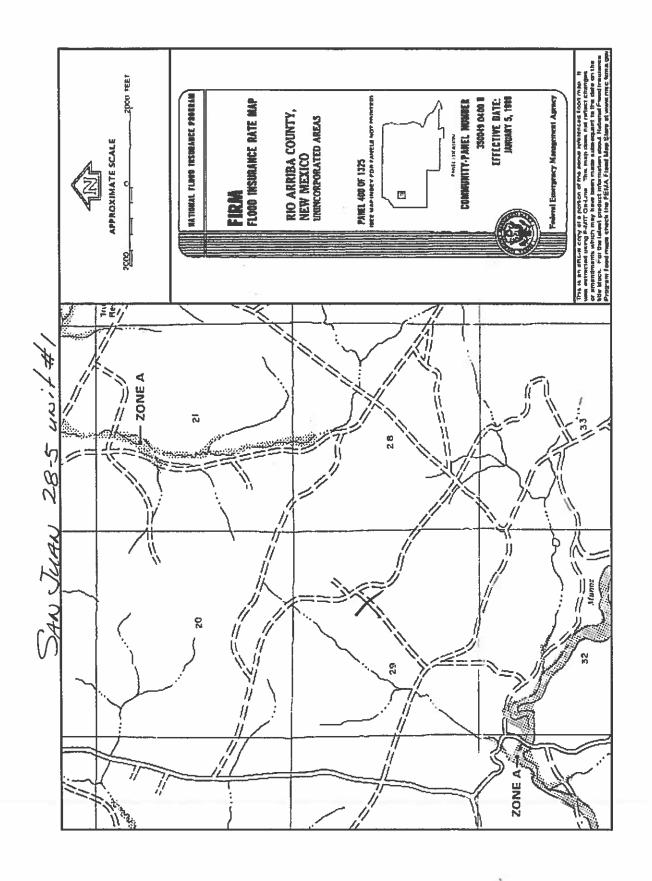


Mines, Mills and Quarries Web Map

SAN JUAN 28-5 UNIT 1 Unit Letter: G, Section: 29, Town: 028N, Range: 005W

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Page 1 of 1 56



http://map1.msc.fema.gov/temp/37125463.gif

SAN JUAN 28-5 UNIT 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 28-5 UNIT 1', which is located at 36.63475 degree, North latitude and 107.37859 degree, West longitude. This location is located on the Fourmile Canyon 7.5' USGS topographic quadrangle. This location is in section 29 of Township 28 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 23.8 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 46.4 miles to the west (National Atlas). The nearest highway is US Highway 64, located 3.7 miles to the north. The location is on BLM land and is 2,857 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 2041 meters or 6694 feet above sea level and receives 12.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 313 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 1,370 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,963 feet to the northeast. The nearest water body is 4,963 feet to the northeast. It is classified by the USGS as a perennial lake and is 0.4 acres in size. The nearest spring is 14,046 feet to the northwest. 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 2,364 feet to the north. The nearest wetland is a 29.6 acre Ravine located 5,830 feet to the south. The slope at this location is 1 degree, to the east 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 age's 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 13.9 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.

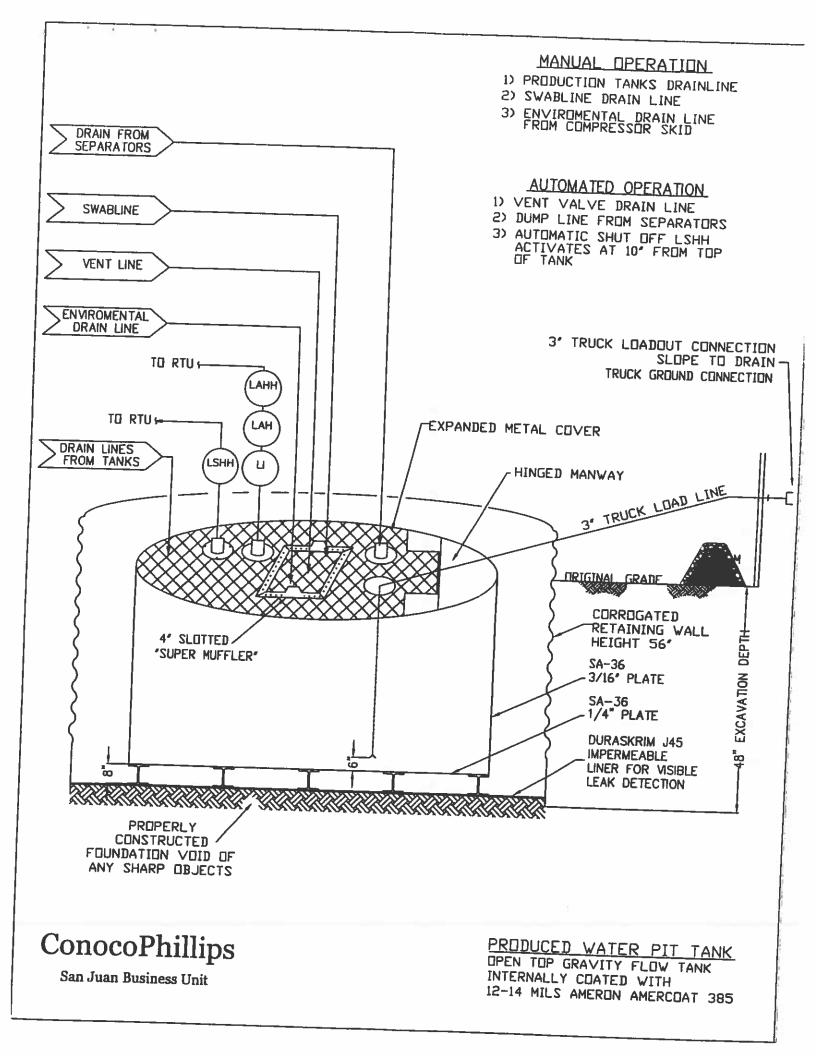
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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 J30BE **J36BE** . 45 Min. Roll Typical Roll Min. Roll **Typical Roll** Min. Roll Averages Typical Roll Averages Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness ASTM D 5199 27 mil 30 mil 32 mil 36 mil 40 mil 45 mil Weight Lbs Per MSF 126 lbs 140 lbs ASTM D 5261 (oz/yd²) 151 lbs 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 90 lbf MD **ASTM D 7003** 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 750 MD Break % (Film Break) ASTM D 7003 550 MD 750 MD 550 MD 750 MD 550 DD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @ 20 MD 33 MD **ASTM D 7003** Peak % (Scrim Break) 20 MD 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD 75 lbf MD Tongue Tear Strength 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD ASTM D 7004 180 Ibf MD 222 lbf MD 220 Ibf MD 257 lbf MD 180 lbf DD 210 lbf DD 180 Ibf DD 223 Ibf DD 220 lbf DD 258 lbf DD Trapezoid Tear 120 lbf MD **ASTM D 4533** 146 lbf MD 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 83 lbf 80 lbf 99 lbf Maximum Use Temperature 180* F 180° F 180° F 180° F 180" F 180° F Minimum Use Temperature -70* F -70° F -70° F

MD = Machine Direction

DD = Diagonal Directions

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

-70° F

*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

"Ideal BAVEN 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

R a v e nINDUSTRIES

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

-70° F

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

-70° F



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

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

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

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

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

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

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

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

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

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

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

General Plan:

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

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

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

General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; or other EPA method 300.1 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

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

19.15.17.10 NMAC SITTING REQUIREMENTS

- ✓ New Mexico Office of State Engineer attachment
- USGS TOPO map
- 🖌 Aerial Map
- ✓ Mines, Mills and Quarries Map
- FIRM map (flood insurance rate map from Federal Emergency Agency)

19.15.17.11 NMAC DESIGN PLAN CONTENTS

Below Grade Tank Design and Construction Plan

19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

REGISTRATION DATE:

05/26/2015

NOTES: