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

State of New Mexico Energy Minerals and Natural Resources

> Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

July 21, 2008

For permanent pits and exceptions submit to the Santa Fe

| <u>District IV</u> 220 S-St-Francis Dr., Santa Fe, NM-87505 | Environmental Bureau office and provide a copy to the appropriate NMOCD District Office |
|--|--|
| | n, Below-Grade Tank, or |
| Proposed Alternative Method | Permit or Closure Plan Application |
| Type of action: X Permit of a pit, closed-loop sys | tem, below-grade tank, or proposed alternative method |
| Closure of a pit, closed-loop sy | stem, below-grade tank, or proposed alternative method |
| Modification to an existing per | |
| Closure plan only submitted fo below-grade tank, or proposed | r an existing permitted or non-permitted ptt, closed-loop system, alternative method |
| Instructions: Please submit one application (Form C-144) per indivi | idual pit, closed-loop system, below-grade tank or alternative request |
| Please be advised that approval of this request does not relieve the operator of his environment. Not does approval relieve the operator of its responsibility to comply | ability should operations result in pollution of surface water, ground water or the with any other applicable governmental authority's rules, regulations or ordinances. |
| Operator: Burlington Resources Oil & Gas Company, LP | OGRID#: <u>14538</u> |
| Address: PO Box 4289, Farmington, NM 87499 | |
| Facility or well name: Stanolind Gas Com 1B | |
| API Number: 30-045- 39790 | OCD Permit Number: |
| J/L or Qtr/Qtr: P(SE/SE) Section: 16 Township: 30N | Range: 8W County: San Juan |
| Center of Proposed Design: Latitude: 36.805129 °N Surface Owner: Federal X State Private T | Longitude: 107.67383 °W NAD: 1927 X 1983 |
| Surface Owner: Federal X State Private T | ribal Trust or Indian Allotment |
| 2 X Pit: Subsection F or G of 19.15.17.11 NMAC | |
| | |
| Temporary: X Drilling Workover Permanent Emergency Cavitation P&A | |
| Permanent Emergency Cavitation P&A X Lined Unlined Liner type Thickness 20 mil | X LLDPE HDPE PVC Other |
| X String-Reinforced | |
| Liner Seams: X Welded X Factory Other | Volume. 7700 bbl Dimensions L 120' x W 55' x D 12' |
| | Volume. 7700 60 Simulations E 120 X W 33 X D 12 |
| Closed Ican Systems Subsection II of 10 15 17 11 NIMAC | |
| Type of Operation P&A Drilling a new well Workover of notice of in | or Drilling (Applies to activities which require prior approval of a permit or tent) |
| Drying Pad Above Ground Steel Tanks Haul-off Bins | Other LLDPE HDPE PVD Other |
| Lined Unlined Liner type: Thicknessmil | LLDPE HDPE PVD Other |
| Liner Seams. Welded Factory Other | /o. A |
| 4 | /,/,/ |
| X Below-grade tank: Subsection 1 of 19.15.17 11 NMAC | E APR 2000 |
| Volume 120 bbl Type of fluid: Produced | Water Water OIL CONS. DIV. DIST. 3 OTHER STREET LY |
| Tank Construction material: Metal | |
| | er, 6-inch lift and automatic overflow shut-off |
| Visible sidewalls and liner Visible sidewalls only O | other 32 DEEO |

Liner Type.

PVC

HDPE

Thickness

45

mil

X Other

LLDPE

| 6 • Fencing: Subsection D of 19 15 17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) | | 1 | | | | | |
|--|-----------------|--------|--|--|--|--|--|
| Subsection B of 1943 17.11 (Wire (Applies to permanent pa, temporary pas, and below-grade tanks) | | | | | | | |
| Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) [Four feet height, four trends of hydrod wire great between one and four feet | | | | | | | |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top. | | | | | | | |
| | | | | | | | |
| Netting: Subsection E of 19 15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | | | | | | | |
| X Screen Netting Other | | | | | | | |
| Monthly inspections (If netting or screening is not physically feasible) | | | | | | | |
| 8 | | | | | | | |
| Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | | | | | | | |
| X Signed in compliance with 19.15 3.103 NMAC | | | | | | | |
| 9 | | | | | | | |
| Administrative Approvals and Exceptions: | | | | | | | |
| Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: | | | | | | | |
| X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Fencing/BGT Liner) | ideration of ap | proval | | | | | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval | | 1 | | | | | |
| | | | | | | | |
| 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. | ∏Yes | XNo | | | | | |
| - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells | | | | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa | Yes | XNo | | | | | |
| lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | | | | | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes | XNo | | | | | |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) | □NA | | | | | | |
| - 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. | Yes | No | | | | | |
| (Applied to permanent pits) | XNA | | | | | | |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | ₩. | | | | | |
| 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 | X No | | | | | |
| - Written confirmation or verification from the municipality; Written approval obtained from the municipality | l | F7. | | | | | |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes | XNo | | | | | |
| Within the area overlying a subsurface mine. | Yes | XNo | | | | | |
| - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area | Yes | XNo | | | | | |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | 🗀 😘 | | | | | | |
| Society; Topographic map | | (F) | | | | | |
| Within a 100-year floodplain | Yes | XNo | | | | | |

Form C-144 Oil Conservation Division Page 2 of 5

| Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached X |
|---|
| X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17 10 NMAC |
| X Design Plan - based upon the appropriate requirements of 19.15.17 11 NMAC |
| X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC |
| X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17 13 NMAC |
| Previously Approved Design (attach copy of design) API or Permit |
| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Previously Approved Design (attach copy of design) API Previously Approved Operating and Maintenance Plan API |
| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15.17.13 NMAC |
| Proposed Closure: 19 15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method. X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only) X On-site Closure Method (only for temporary pits and closed-loop systems) X In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC X Disposal 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 I of 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC |

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| 16 | | | | | | |
|---|---|---|--|--|--|--|
| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required | el Tanks or Haul-off Bins Only: (19 15 17.13 D NMAC) fluids and drill cuttings—Use attachment if more than two fa | acılıties | | | | |
| Disposal Facility Name | Disposal Facility Permit #. | | | | | |
| Disposal Faculity Name: | Disposal Facility Permit #. | | | | | |
| Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No | | | | | | |
| Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements. | ction I of 19.15.17.13 NMAC | 2 | | | | |
| Siting Criteria (Regarding on-site closure methods only: 19 15.17.10 NMAA Instructions: Each sting criteria requires a demonstration of compliance in the closure plan. It certain sting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are required. | Recommendations of acceptable source material are provided belo or may be considered an exception which must be submitted to the | w Requests regarding changes to Santa Fe Environmental Bureau office | | | | |
| Ground water is less than 50 feet below the bottom of the buried waste NM Office of the State Engineer - tWATERS database search; USGS: Data obta | nined from nearby wells | Yes X No | | | | |
| Ground water is between 50 and 100 feet below the bottom of the buried waste | : | Yes X No | | | | |
| - NM Office of the State Engineer - iWATERS database search, USGS, Data obta | | N/A | | | | |
| Ground water is more than 100 feet below the bottom of the buried waste. | | X Yes No | | | | |
| - NM Office of the State Engineer - 1WATERS database search; USGS; Data obta | ned from nearby wells | ∏N/A | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark). | cant watercourse or lakebed, sinkhole, or playa lake | Yes XNo | | | | |
| - Topographic map; Visual inspection (certification) of the proposed site | | | | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site, Aerial photo; satellite image | | Yes X No | | | | |
| • | | Yes X No | | | | |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less the purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exist - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) | ence at the time of the initial application | | | | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obta | · | Yes X No | | | | |
| Within 500 feet of a wetland | ance from the municipality | Yes X No | | | | |
| - US Fish and Wildlife Wetland Identification map; Topographic map; Visual insp | ection (certification) of the proposed site | | | | | |
| Within the area overlying a subsurface mine. | | Yes X No | | | | |
| - Written confiramtion or verification or map from the NM EMNRD-Mining and M | Ameral Division | Yes XNo | | | | |
| Within an unstable area. - Enguneering measures incorporated into the design; NM Bureau of Geology & M Topographic map | ineral Resources; USGS, NM Geological Society; | Les Ano | | | | |
| Within a 100-year floodplain - FEMA map | | Yes X No | | | | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached. | of the following items must bee attached to the closur | e plan. Please indicate, | | | | |
| X Siting Criteria Compliance Demonstrations - based upon the appropriate | e requirements of 19.15.17.10 NMAC | | | | | |
| X Proof of Surface Owner Notice - based upon the appropriate requirement | nts of Subsection F of 19.15.17.13 NMAC | | | | | |
| Construction/Design Plan of Burial Trench (if applicable) based upon the | ne appropriate requirements of 19.15 17 11 NMAC | | | | | |
| Construction/Design Plan of Temporary Pit (for in place burnal of a dryi | ng pad) - based upon the appropriate requirements of 19 | 9.15.17.11 NMAC | | | | |
| X Protocols and Procedures - based upon the appropriate requirements of | | | | | | |
| Confirmation Sampling Plan (if applicable) - based upon the appropriate | e requirements of Subsection F of 19.15.17.13 NMAC | | | | | |
| X Waste Material Sampling Plan - based upon the appropriate requiremen | | | | | | |
| X Disposal Facility Name and Permit Number (for liquids, drilling fluids a | | nnot be achieved) | | | | |
| X Soil Cover Design - based upon the appropriate requirements of Subsec | | | | | | |
| X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | | | | | | |

Form C-144 Oil Conservation Division

| Operator Application (| Contification | | |
|---|--|---------------------------------|---|
| Operator Application (I hereby certify that the info | _ertification: ormation submitted with this application is true, a | accurate and complete to the | e best of my knowledge and belief |
| Name (Print): | Tamra Sessions | Title: | Staff Regulatory Technician |
| Signature: | Tamosessins | Date [.] | 4-7-09 |
| e-mail address | sessitd@conocophillips.com | Telephone: | 505-326-9834 |
| | | | |
| 20 | | | |
| OCD Approval: | ermit Application (including closure plan) | Closure Plan (only) | OCD Conditions (see attachment) |
| OCD Representative Si | gnature: Brandon & | Ill. | Approval Date: 4/-23-09 |
| | nsino/spec | 0000 | |
| Title: | nsino 1spec | OCD Per | mit Number: |
| 21 | | | |
| Closure Report (require | ed within 60 days of closure completion): | Subsection K of 19 15 17 13 NMA | AC Sure activities and submitting the closure report. The closure |
| | | | tes. Please do not complete this section of the form until an |
| approved closure plan has | been obtained and the closure activities have bee | en completed. | |
| | | Closur | re Completion Date: |
| 22 | | | |
| Closure Method: | | | |
| Waste Excavation a | and Removal On-site Closure Method | i Alternative Closur | e Method Waste Removal (Closed-loop systems only) |
| If different from ap | proved plan, please explain | | |
| 23 | | | |
| | Waste Removal Closure For Closed-loop Sys | | |
| Instructions: Please identij were utilized. | fy the facility or facilities for where the liquids, | drilling fluids and drill cut | tings were disposed. Use attachment if more than two facilities |
| Disposal Facility Name | | Disposal Facilit | y Permit Number: |
| Disposal Facility Name: | | | y Permit Number: |
| Were the closed-loop sy | stem operations and associated activities perforn | | |
| Yes (If yes, please of | demonstrate complifane to the items below) | No | |
| | reas which will not be used for future service an | d operations: | |
| = | Photo Documentation) | | |
| Soil Backfilling and | ication Rates and Seeding Technique | | |
| | | | |
| 24 Closure Report Atta | chment Checklist: Instructions: Fach of the | followine items must be att | tached to the closure report. Please indicate, by a check mark in |
| the box, that the docum | | jonowing nems musi ve un | action to the closure report. I tende indicate, by a check mark in |
| Proof of Closure | Notice (surface owner and division) | | |
| = | tice (required for on-site closure) | | |
| | site closures and temporary pits) | | |
| = | npling Analytical Results (if applicable) | | |
| = | ampling Analytical Results (if applicable) | | |
| | Name and Permit Number | | |
| | nd Cover Installation | | • |
| _ | plication Rates and Seeding Technique | | |
| | (Photo Documentation) | Longitudes | NAD 1027 1092 |
| On-site Closure L | ocation: Latitude: | Longitude: | NAD |
| | | | |
| — ₂₅ Operator Closure Certi | fication: | | |
| I hereby certify that the infe | ormation and attachments submitted with this clo | | e and complete to the best of my knowledge and belief. I also certify tha |
| the closure complies with a | ll applicable closure requirements and condition | s specified in the approved | closure plan |
| Name (Print): | | Title: | |
| Cianatura | | Data | |
| Signature: | | Date: | |
| e-mail address: | | Telephone: | |



Record Count: 12

New Mexico Office of the State Engineer Water Column/Average Depth to Water

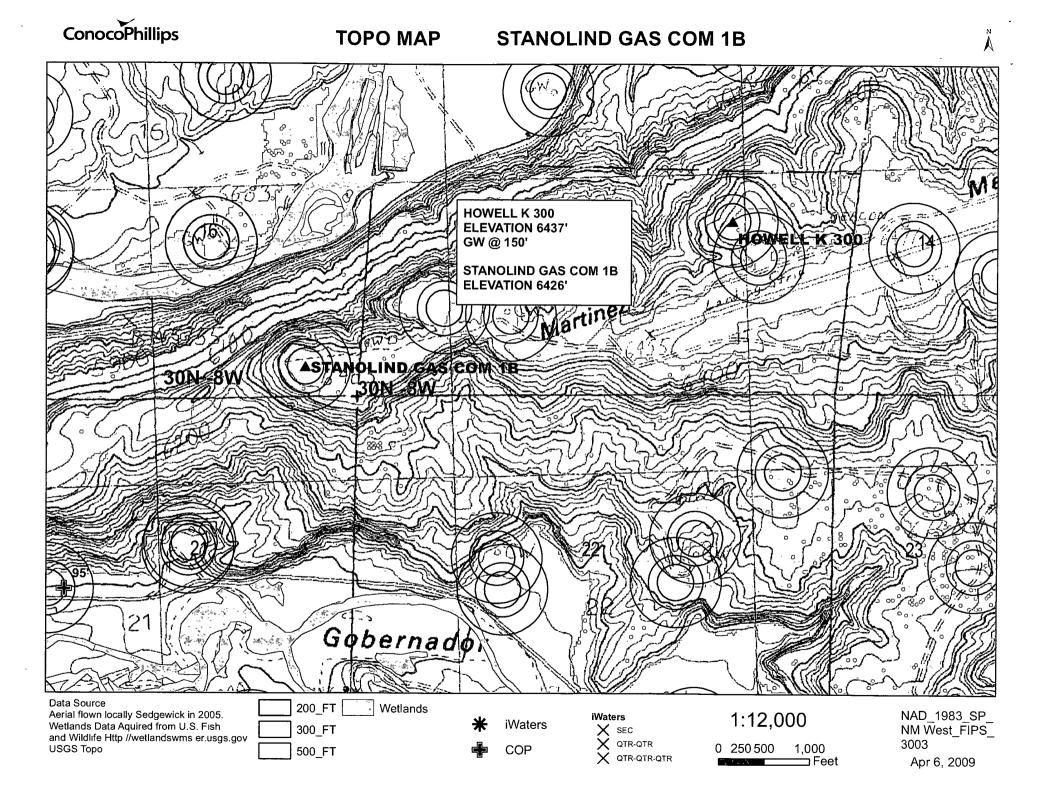
(quarters are 1=NW 2=NE 3=SW 4=SE)

| | (qu | arte | ers a | ire | small | est to I | argest) | (NAD83 UTN | /l in meters) | | (In feet) | |
|--------------|-----------|--------|---------|-------|-------|----------|---------|------------|---------------|----------|------------------|-------|
| POD Number | County | GRANTA | Q 16 | | 1.00 | Tws | Rng | | All Yallow | Depth C | epth V VaterC | 100 |
| I OD Manibon | - Ocarity | 0 1 | | ***** | | 1113 | 11119 | | | 1,1011-1 | Tatol O. | Olami |
| SJ 00090 | San Juan | 1 | 3 | 4 | 17 | 30N | 08W | 259315 | 4076804 | 23 | 12 | 11 |
| SJ 00556 | San Juan | 4 | 1 | 4 | 17 | 30N | W80 | 259540 | 4077005 | 20 | 5 | 15 |
| SJ 01022 | San Juan | | | 1 | 15 | 30N | W80 | 262112 | 4077679 | 19 | 10 | 9 |
| SJ 01024 | San Juan | | 1 | 2 | 20 | 30N | 08W | 259430 | 4076298 | 115 | | |
| SJ 01097 | San Juan | | | 2 | 20 | 30N | 08W | 259645 | 4076092 | 40 | 27 | 13 |
| SJ 01209 | San Juan | | 4 | 4 | 17 | 30N | 08W | 259806 | 4076718 | 25 | 14 | 11 |
| SJ 01307 | San Juan | | 4 | 4 | 17 | 30N | 08W | 259806 | 4076718 | 29 | 19 | 10 |
| SJ 01558 | San Juan | | 1 | 2 | 20 | 30N | 08W | 259430 | 4076298 | 20 | 8 | 12 |
| SJ 01742 | San Juan | | 3 | 1 | 20 | 30N | 08W | 258797 | 4075861 | 17 | 11 | 6 |
| SJ 01858 | San Juan | | | | 17 | 30N | 08W | 259238 | 4077281 | 25 | 10 | 15 |
| SJ 02807 | San Juan | 1 | 4 | 4 | 17 | 30N | 08W | 259705 | 4076817 | 28 | 15 | 13 |
| SJ 03603 | San Juan | 1 | 3 | 4 | 17 | 30N | 08W | 259315 | 4076804 | 18 | 10 | 8 |
| | | | | | | | | | | | | |

Average Depth to Water: 12 feet

Minimum Depth: 5 feet

Maximum Depth: 27 feet



123

3A-30-045-211005 300-30-045-26897

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

| Operator | MERIDIAN OIL | Location: Unit Sec. 15 Twp 30 Rng 8 |
|-----------|---|---|
| Name of | Well/Wells or Pipeline Serv | V |
| | | cps 1056w |
| Elevatio | n <u>6436'</u> Completion Date <u>5/31/89</u> | Total Depth 520' Land Type* N/A |
| Casing, | Sizes, Types & Depths N/ | 1 |
| | | |
| If Casin | g is cemented, show amounts | & types used N/A |
| | | |
| If Cemen | t or Bentonite Plugs have b | een placed, show depths & amounts used |
| N/A | 4 | |
| Depths & | thickness of water zones w | ith description of water when possible: |
| Fresh, C | lear, Salty, Sulphur, Etc | DAMP AT 150' & 250' |
| | | |
| Depths ga | as encountered: N/A | |
| Type & ar | mount of coke breeze used:_ | N/A |
| Depths an | nodes placed: 450', 440', 300 | ', 290', 280', 270', 260', 250', 240', 200' |
| Depths ve | ent pipes placed: 501' OF | 1" PVC VENT PIPE DECEIVE |
| Vent pipe | e perforations: BOTTOM | 350' MAY 3 1 1991 |
| | (gb. #2 | OIL CON, DIV |
| | | DIST. 2 |

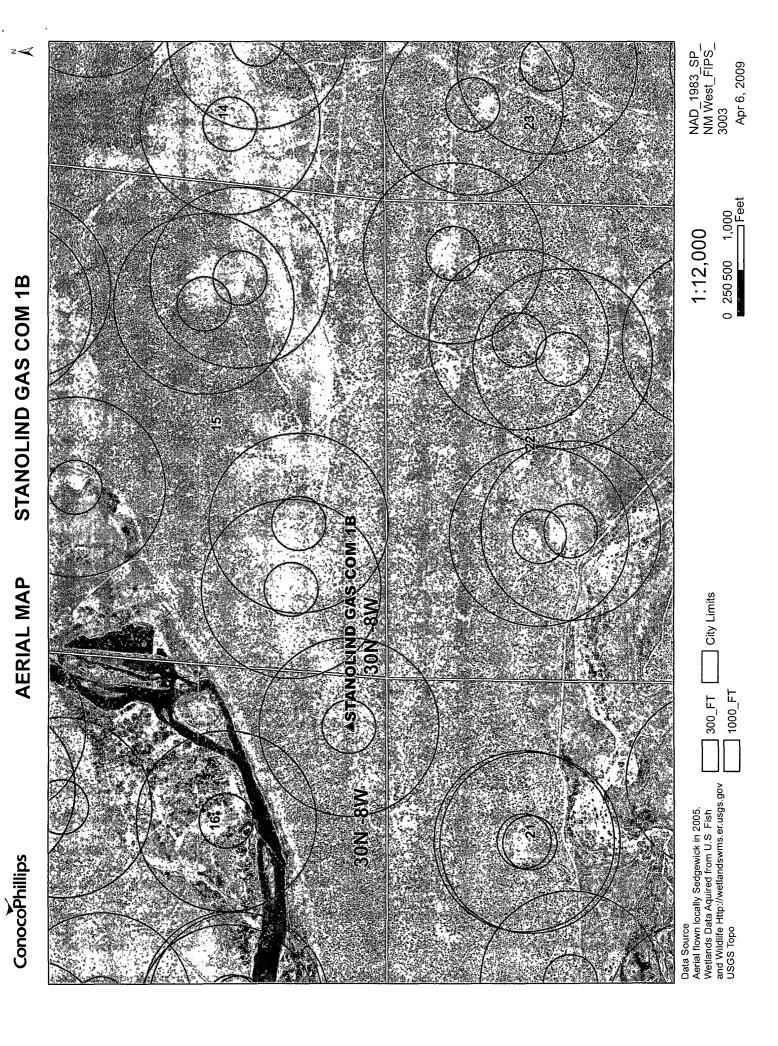
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

^{*}Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

| Form 3160-4 (November 1983) (former'y 9-330) | DEPARTM | INITED ST IENT OF T AU OF LAND MA | HE IN | TERIOR | | DUPLICATE* (See other structions of reverse and | Ex | bries Vi | remu No. 1004-0137 igust 31, 1985 |
|--|------------------------------------|---|--|-------------------|--|--|----------------|------------------|---|
| wici co | VOLCTION O | 0.0560404 | TION | SECONT 4 | | 2 4 6 6 4 | | | SMAK BEIRT SO, BITTO |
| TE TYPE OF WELL | MPLETION O | R RECOMPLI | | Other 2 | | | of the same | | |
| P TANE OL COM | WORK . PREEL | T PARCE S | NEFF. | Other E. T. | | | S PÁRN | LA (Exa) | NAME |
| | n Oil Inc. | | | ا ع را | - | IS IN IN | Marin How | ell . | <u>K</u> |
| PO Box | 4289, Farmi | ngton, NM | 8749 | | | | 1 | | OL. US WILDCAT |
| | L (Report location of | | nce with an | State requir | 200 | 8-9 1908 | - Und | es.F | ruitland Coa |
| At surface At top prod., int | 1990!S, erval reported below | , 1 7 75 E | | OIL | | ON. DI | ۷ vyx ۱ | REA | T - 30 - N , R - 8 - W |
| At total depth | | | | | וט | IST. 3 | 360 | . 13, | NMPM |
| | | 14: | PERMIT NO. | 9 | ATE | SSUED | 12. cot N | Juan | n NM |
| 15. DATE SPUDDED | 16. DATE T.D. REACH | 1 ' | , | prod.) 18. | | ATIONS (SF. REI | . RT. GR. ETC. | 19. | ELEV. CASINGREAD |
| 6-11-88 | | 06-23- | | TIPLE COMPL. | 64 | 37 GL | ROTARY | | 6437 GL |
| 32941 | 11. 71.00. 02 | E.D.; 40,4 140 | How V | ANT [®] | | DRIL LED B | yes | IOČER | (visite stoite) |
| | VAL(S). OF THIS CON le completi | | M, NAME (N | ID AND TVD).* | | *************************************** | | | MAS DIRECTIONAL SURVEY MADS TO WAS WELL COSED TO |
| 29. | | FASING RE | CORD (Rep | ort all strings i | ret in | speil) | | | |
| CABING, BIZE | WEIGHT. LE./FT. | DEPTH SET (MD) | HOI | .2 3122 | | ENENTIN | U RECORD | | CHOUNT PULLED |
| 9 5/8" | 36.0# | 6031 | | 1/4" | 10 | 21 cu f | t | | |
| 7" | 20.0# | 3115! | 8_ | 3/4" | 10 | 49 cu. fr | t | | |
| | | | | | | - | | | |
| 29. | LINI | ER RECORD | | | 1 | 30. | TUBING R | CORD | |
| 4(28 | TOP (MB) BOT | TOM (MD) BACKS | *TREMES | SCREEN (MD) | CREEN (MD) SIZE DEPTH SET (MD) PACKER SE | | | PACKER BET (MD) | |
| open ho | le completi | ОП | | | _ - | 2 3/8" | 3290' | | |
| 31. PREPORATION REC | oza (Interval, sise er | id 'number) | ; | 32. | ACI | D. SHOT, FRA | CTURE, CEM | ENT SO | UEEZE, ETC. |
| open ho | le completi | ion | | DEPTH INTE | | | | | MATERIAL CRED |
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| 33.* | | | PROT | (CTION | | | | | |
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| | flowi | ing-capable | e of co | omm HC: | to | be sole | | ehșt-in) CONN | ected |
| DATE OF TRET | HOURS TESTED | CHOKE SIZE PRO | DO'N. FOR | OIL-BRL. | ļ | GAS-MCY. | WATER | -0,8L. | GAS-OIL BATIO |
| FLOW, TUNNE PROM. | CABING PRESELES | CALCULATED DIE | ·\$86. | GAS-M | CF. | ** 4 22 | R | Ott | GRAVITT-API (CORR.) |
| SI 618 | SI 1450 | vented, etc.) | | | | | : TEST WIT | CNEASED | <u></u> |
| to be s | | · | | | | | | , | |
| 35. LINT OF ATTACH | | · · · · · · · · · · · · · · · · · · · | | | | | -' | ACCOUNT | |
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| 36. I bereby certify | that the toregoing at | d attached informati | , - | • | • | Affair | , 5 | | 15-88 |

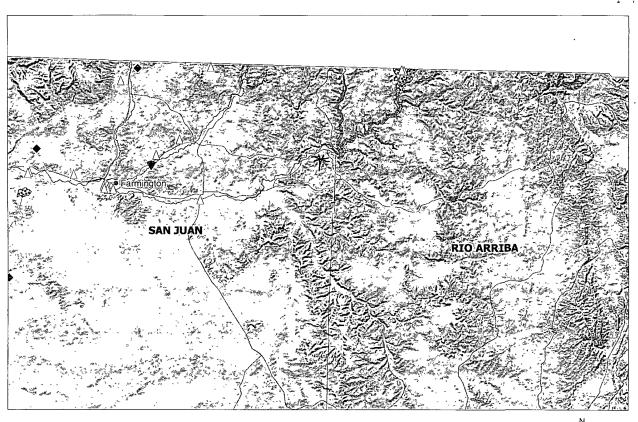
*(See Instructions and Space MING Quianal Data on Reverse Side)

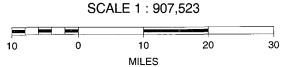
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, ficitious or fraudulent statements or representations as to any matter within its purisdiction



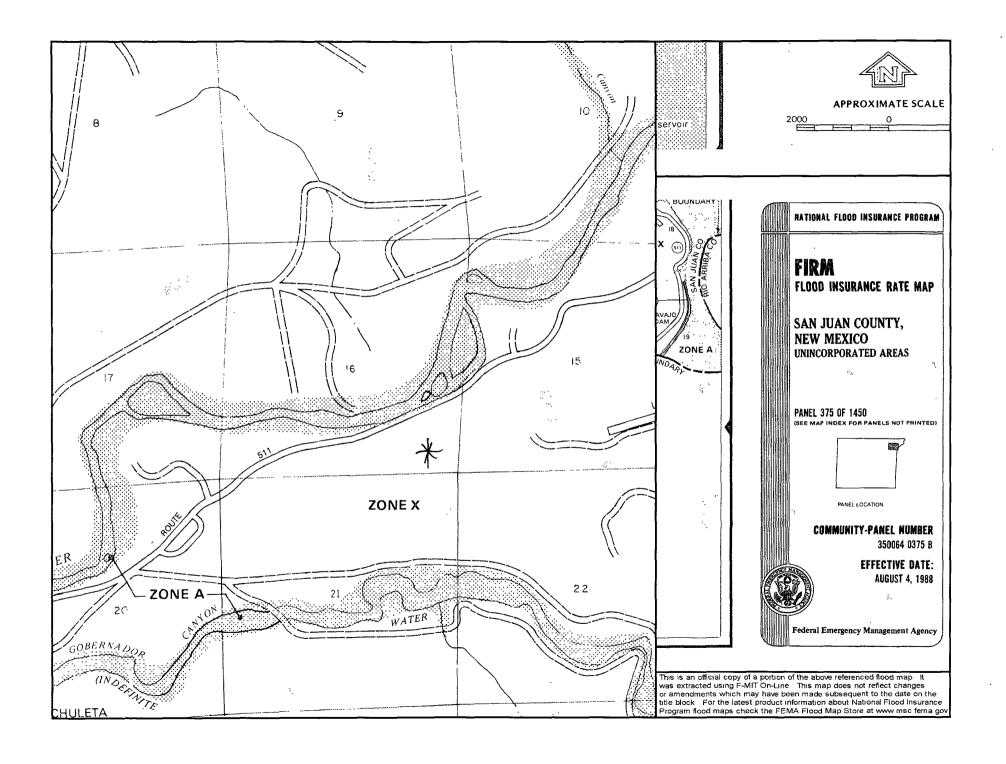
STANOLIND GAS COM 1B Mines, Mills & Quarries

| Mines, Mills & | Quarries Commodity Groups |
|----------------|----------------------------------|
| Δ | Aggregate & Stone Mines |
| • | Coal Mines |
| * | Industrial Minerals Mines |
| ♥ | Industrial Minerals Mills |
| Ø | Metal Mines and Mill Concentrate |
| 53 | Potash Mines & Refineries |
| a | Smelters & Refinery Ops. |
| * | Uranium Mines |
| • | Uranium Mills |
| Population | |
| © | Cities - major |
| Transportatio | n |
| +++ | Railways |
| | Interstate Highways |
| | Major Roads |
| | |
| | |









Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Stanolind Gas Com 1B is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the Howell K 300 has an elevation of 6437' and groundwater depth of 150'. The subject well has an elevation of 6426' which is 11' less than the Howell K 300, therefore the groundwater depth is greater than 130'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

Hydrogeological report for Stanolind Gas Com 1B

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.

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number ⁹ Pool Code | | Pool Name BASIN DAKOTA/BLANCO MESAVERDE | | | | |
|-----------------------------------|----------------------|---|------------------------|--|--|--|
| Property Code | ⁶ Pro | perty Name | • Well Number | | | |
| | STANOLINE | GAS COM | 1/B | | | |
| OGRID No. | ⁸ Ope | rator"Name | ⁰ Elevation | | | |
| | BURLINGTON RESOURCES | S OIL & GAS COMPANY LÉ | 6,426' | | | |
| | 10 Cf | and Innation | | | | |

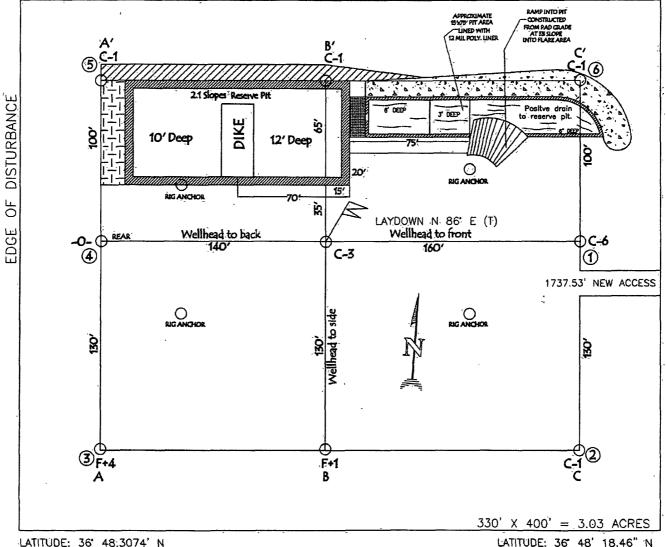
Surface Location

| UL or lot no: | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-------------------------|---------|----------|-------------|---------|-------------------------------|------------------|-------------------------|----------------|----------|
| P | 16 | 30-N | 8-W | | 330' | SOUTH | 580' | EAST | SAN JUAN |
| , | 7 4 | , | 11 Botte | om Hole | Location I | f Different Fro | m Surface | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Ď | 16 | 30-N | 8-W | | 1040' | SOUTH | 710' | EAST | SAN JUAN |
| Dedicated Acre DK 320.0 | | E/2 | is Joint or | Infill | ¹⁴ Consolidation (| Code | ¹⁵ Order No. | | |
| MV 320.0 | ACRES | E/2 | | | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | | | (7) . en |
|-----------|---------------------|---|--|
| | | | OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and beltef, and that this organization either come a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a control' with on some of such a mineral or a working interest, or to a woluntary pooling agreement or a compulsory pooling order heretafore entered by the division. |
| | ST of NM B-10938 | 43 00 02 E | Signature Printed Name |
| 1 | ST of NM B-10938-54 | 2.32 | 18 SURVEYOR CERTIFICATION hereby certify that the well location shown on this place or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Research |
| e 90° 57' | | ₽ 22 | Signature cod ser ap Messical surveyor. (15703) (15703) (15703) (Certificate Number 15703 |
| | 1 | ST of NM B-10938-54 DIRECTIONAL DISTANCE & BEARING N 06'17'49" W 714.3' ST of NM B-10938-55 | ST of NM B-10938-54 DIRECTIONAL DISTANCE & BEARING N 061749 W 714.3' ST of NM B-10938-55 OR NM B-10938-55 OR NM B-10938-55 |

S 89" 57" 46" W



LATITUDE: 36' 48:3074' N LONGITUDE: 107 40.3931' W **NAD 27**

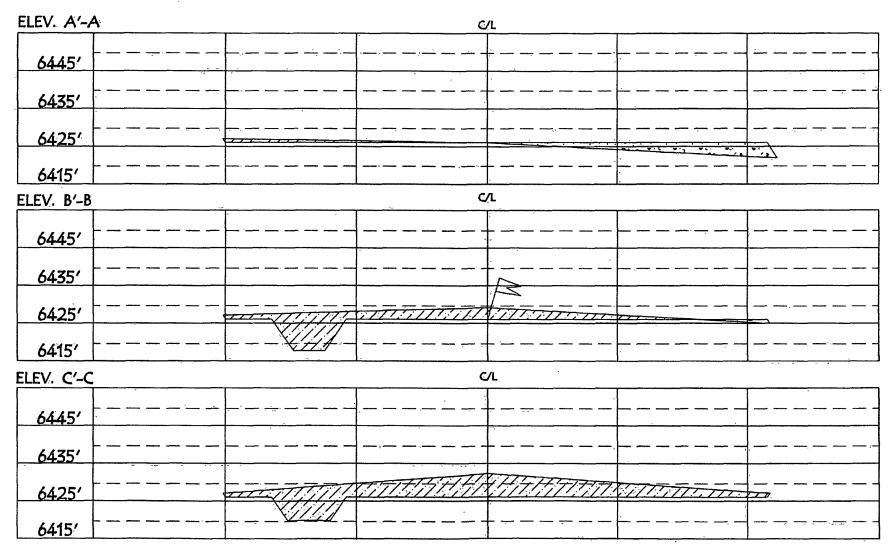
LONGITUDE: 107 40' 25.79" W

NAD 83

TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE)

BURLINGTON RESOURCES OIL & GAS COMPANY LP

STANOLIND GAS COM 1B, 330' FSL & 580' FEL SECTION 16, T-30- N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6426', DATE: AUGUST 27, 2007



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

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

- BR will design and construct a properly sized and approved temporary pit which will contain liquids and solids and should prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 4. BR shall construct all new fences around the temporary pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- BR shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

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

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

- BR will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. BR shall notify the Aztec Division office 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.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

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

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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 pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

| Components | Tests Method | Limit (mg/Kg) | | |
|------------|---------------------------|---------------|--|--|
| Benzene | EPA SW-846 8021B or 8260B | 0.2 | | |
| BTEX | EPA SW-846 8021B or 8260B | 50 | | |
| TPH | EPA SW-846 418.1 | 2500 | | |
| GRO/DRO | EPA SW-846 8015M | 500 | | |
| Chlorides | EPA 300.1 | 1000/500 | | |

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. 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. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping 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.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. 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 federal 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

| Туре | Variety or Cultivator | PLS/A 3.0 | | |
|--------------------------|--------------------------|------------------|--|--|
| Western wheatgrass | Arriba | | | |
| Indian ricegrass | Paloma or Rimrock | 3.0 | | |
| Slender wheatgrass | San Luis | 2.0 | | |
| Crested wheatgrass | Hy-crest | 3.0 | | |
| Bottlebrush Squirreltail | Unknown | 2.0 | | |
| Four-wing Saltbrush | Delar | .25 | | |

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

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:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 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.

The state of the s

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.

- 1 14 Tr 64 Tr 6 Tr 6 Tr 6

- 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.

MANUAL OPERATION 1) PRODUCTION TANKS DRAINLINE 2) SWABLINE DRAIN LINE 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID AND THE PROPERTY OF THE PROPER DRAIN FROM-SEPARA TORS AUTOMATED OPERATION 1) VENT VALVE DRAIN LINE 2) DUMP LINE FROM SEPARATORS **SWABLINE** 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10' FROM TOP OF TANK VENT LINE ENVIROMENTAL DRAIN LINE 3" TRUCK LOADOUT CONNECTION SLOPE TO DRAIN TRUCK GROUND CONNECTION TO RTU -EXPANDED METAL COVER TO RTU -DRAIN LINES FROM TANKS LSHF HINGED MANWAY 3° TRUCK LUAD LINE GRADE CORROGATED RETAINING WALL HEIGHT 56' 4" SLOTTED. SA-36 'SUPER MUFFLER' 3/16" PLATE SA-36 1/4" PLATE DURASKRIM J45 **IMPERMEABLE** LINER FOR VISIBLE LEAK DETECTION

ConocoPhillips

PROPERLY
CONSTRUCTED
FOUNDATION VOID OF
ANY SHARP OBJECTS

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

| PROPERTIES | TEST METHOD | J30 EB J36E B | | J4588 | | | | |
|--|-------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| and the second | | Min Roll Averages | Fypical Roll Averages | Min. Rolf Averages | Typical Roll Averages | Min Roll Averages | Typical Roll 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 (oz/yd²) | ASTM D 5261 | 126 lbs (18.14) | 140 lbs (20.16) | 151 lbs (21.74) | 168 lbs (24.19) | 189 lbs (27.21) | 210 lbs (30.24) | |
| Construction | | **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 | ASTM D 7003 | 88 lbf MD 63 lbf DD | 110 lbf MD 79 lbf DD | 90 lbf MD 70 lbf DD | 113 lbf MD 87 lbf DD | 110 lbf MD 84 lbf DD | 138 lbf MD 105 lbf DD | |
| 1" Tensile Elongation @ Break, % (Film Break) | ASTM D 7003 | 550 MD 550 DD | 750 MD 750 DD | 550 MD 550 DD | 750 MD 750 DD | 550 MD 550 DD | 750 MD 750 DD | |
| 1" Tensile Elongation @ Peak % (Scrim Break) | ASTM D 7003 | 20 MD 20 DD | 33 MD 33 DD | 20 MD 20 DD | 30 MD 31DD | 20 MD 20 DD | 36 MD 36 DD | |
| Tongue Tear Strength | ASTM D 5884 | 75 lbf MD 75 lbf DD | 97 lbf MD 90 lbf DD | 75 lbf MD 75 lbf DD | 104 lbf MD 92 lbf DD | 100 lbf MD 100 lbf DD | 117 lbf MD 118 lbf DD | |
| Grab Tensile | ASTM D 7004 | 180 lbf MD 180 lbf DD | 218 lbf MD 210 lbf DD | 180 lbf MD 180 lbf DD | 222 lbf MD 223 lbf DD | 220 lbf MD 220 lbf DD | 257 lbf MD 258 lbf DD | |
| Trapezoid Tear | ASTM D 4533 | 120 lbf MD 120 lbf DD | 146 lbf MD 141 lbf DD | 130 lbf MD 130 lbf DD | 189 lbf MD 172 lbf DD | 160 lbf MD 160 lbf DD | 193 lbf MD 191 lbf DD | |
| * Dimensional Stability | ASTM D 1204 | <1 | <0.5 | <1 | <0.5 | <1 | <0.5 | |
| Puncture Resistance | ASTM D 4833 | 50 lbf | 64 lbf | 65 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 | -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.

*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) tn-directional scrim reinforcement.

Note: RAYEN INDUSTRIES MAKES NO MARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO no quarontee of satisfactory results from reliance upon contained information or recommendations and discrams all subsety for recommendations or damage.

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

KAVEN

800-635-3456

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. These dates will be updated prior to December 31, 2008.

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

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

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

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

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

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

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

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

- 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 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.
- 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:

- 1. BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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 (4) of Subsection (4) of Subsection (5) of Subsection (5) of Subsection (6) of Subsection (6) of Subsection (7) of
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name

en entre properties

- 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