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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

4959

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:
- [ ] Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [X] Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [ ] Modification to an existing permit
- [ ] Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1

Operator: **Burlington Resources Oil & Gas Company, LP** OGRID#: **14538**

Address: **P.O. Box 4289, Farmington, NM 87499**

Facility or well name: **MARSHALL 1F**

API Number: **30-045-34423** OCD Permit Number

U/L or Qtr/Qtr **D(NW/NW)** Section: **14** Township. **27N** Range: **9W** County: **San Juan**

Center of Proposed Design: Latitude: **36.580711** °N Longitude: **107.76484** °W NAD: [ ] 1927 [X] 1983

Surface Owner: [X] Federal [ ] State [ ] Private [ ] Tribal 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

[X] Lined [ ] Unlined Liner type: Thickness **12** mil [X] LLDPE [ ] HDPE [ ] PVC [ ] Other

[X] String-Reinforced

Liner Seams [X] Welded [X] Factory [ ] Other Volume **4400** bbl Dimensions L **65'** x W **45'** x D **10'**

3

[ ] **Closed-loop System:** Subsection H of 19 15 17 11 NMAC

Type of Operation [ ] P&A [ ] Drilling a new well [ ] Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)

[ ] Drying Pad [ ] Above Ground Steel Tanks [ ] Haul-off Bins [ ] Other

[ ] Lined [ ] Unlined Liner type Thickness mil [ ] LLDPE [ ] HDPE [ ] PVD [ ] Other

Liner Seams [ ] Welded [ ] Factory [ ] Other

4

[ ] **Below-grade tank:** Subsection I of 19 15 17 11 NMAC

Volume bbl Type of fluid

Tank Construction material

[ ] Secondary containment with leak detection [ ] Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

[ ] Visible sidewalls and liner [ ] Visible sidewalls only [ ] Other

Liner Type Thickness mil [ ] HDPE [ ] PVC [ ] Other

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5

[ ] **Alternative Method:**

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

31

6

Fencing: Subsection D of 19 15 17 11 NMAC *(Applies to permanent pit, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate Please specify _____

7

Netting: Subsection E of 19.15 17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ 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

☒ 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:

☐ Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval **(Fencing/BGT Liner)**

☐ Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

10

Siting Criteria (regarding permitting) 19 15.17 10 NMAC

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 ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applied to permanent pits)* - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
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. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

11

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

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17 9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9
- ☐ Siting Criteria Compliance Demonstrations - 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 _____ or Permit Number _____

12

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 _____

13

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 (1) of Subsection B of 19 15 17 9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17 10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19.15 17 11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19 15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plar
- ☐ 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

14

Proposed Closure: 19 15 17 13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System ☐ Alternative

Proposed Closure Method

- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (only for temporary pits and closed-loop systems)
  - ☐ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols 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 19 15 17 13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15 17 13 D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name _____ Disposal Facility Permit #: _____

Disposal Facility Name _____ Disposal Facility Permit #. _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?
☐ Yes (If yes, please provide the information ☐ No

Required for impacted areas which will not be used for future service and operations

☐ Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

17

Siting Criteria (Regarding on-site closure methods only: 19 15 17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS. Data obtained from nearby wells	☐ Yes ☐ No ☐ N/A
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 obtained from nearby wells	☐ Yes ☐ No ☐ N/A
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 obtained from nearby wells	☐ Yes ☐ No ☐ N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

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On-Site Closure Plan Checklist: (19.15.17 13 NMAC) ***Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15 17 11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17 11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
☐ Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17 13 NMAC

19

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief

Name (Print). _____ Title _____

Signature _____ Date _____

e-mail address. _____ Telephone _____

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OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly **Approval Date:** 9/16/2011

Title: Compliance Officer **OCD Permit Number:** _____

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Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** July 29, 2008

22

Closure Method:

☐ Waste Excavation and Removal ☒ On-site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain

23

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name _____ Disposal Facility Permit Number _____

Disposal Facility Name _____ Disposal Facility Permit Number _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and opeartions?

☐ Yes (If yes, please demonstrate complilane to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installatior

☐ Re-vegetation Application Rates and Seeding Technique

24

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

☒ Proof of Closure Notice (surface owner and division)

☒ Proof of Deed Notice (required for on-site closure)

☒ Plot Plan (for on-site closures and temporary pits)

☒ Confirmation Sampling Analytical Results (if applicable)

☐ Waste Material Sampling Analytical Results (if applicable)

☒ Disposal Facility Name and Permit Number

☒ Soil Backfilling and Cover Installatior

☒ Re-vegetation Application Rates and Seeding Technique

☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude **36.5805944** °N Longitude **107.7643667** °W NAD ☐ 1927 ☒ 1983

25

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print) Crystal Tafoya Title Regulatory Tech

Signature. Crystal Tafoya Date 1/29/2010

e-mail address crystal.tafoya@conocophillips.com Telephone 505-326-9837

Burlington Resources Oil Gas Company, LP
San Juan Basin
Closure Report

Lease Name: MARSHALL 1F
API No.: 30-045-34423

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the temporary pit referenced above. All proper documentation regarding closure activities is being included with the C-144. The temporary pit for this location was constructed and location drilled before June 16, 2008 (effective date for Rule 19.15.17). While closure of the temporary pit did fall within the rule some dates for submittals are after the rig release date.

- Details on Capping and Covering, where applicable. **(See report)**
- Plot Plan (Pit Diagram) **(Included as an attachment)**
- Inspection Reports **(Included as an attachment)**
- Sampling Results **(Included as an attachment)**
- C-105 **(Included as an attachment)**
- Copy of Deed Notice will be filed with County Clerk **(Not required on Federal, State, or Tribal land as stated by FAQ dated October 30, 2008)**

<u>General Plan:</u>

1. 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.

   All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B).

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.

   The pit was closed using onsite burial.

3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.

   The closure process notification to the landowner was sent via email. (See Attached)(Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.

   Provision 4 of the closure plan requirements were not met due to rig move off date as noted on C-105 which was prior to pit rule change. Burlington will ensure compliance with this rule in the future.

5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
   i. Operator's name
   ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

   Notification is attached.

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 a licensed disposal facility.

Liner of temporary pit was removed above "mud level" after stabilization. Removal of the liner consisted of manually cutting liner at mud level and removing all remaining liner. Care was taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liner was disposed of at a licensed disposal facility, (San Juan County Landfill).

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.

Burlington mixed the Pit contents with non-waste containing, earthen material in order to achieve the solidification process. The solidification process was accomplished by using a combination of natural drying and mechanically mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio consisted of approximately 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.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	27.1 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	133 ug/kG
TPH	EPA SW-846 418.1	2500	86.3 mg/kg
GRO/DRO	EPA SW-846 8015M	500	5.1 mg/Kg
Chlorides	EPA 300.1	1000/~~500~~	69.0 mg/L

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.

The pit material passed solidification and testing standards. The pit area was then backfilled with compacted, non-waste containing, earthen material. More than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

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.

The integrity of the liner was not damaged in the pit closure process.

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

Dig and Haul was not required.

12. 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.

    The pit area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping included drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final re-contour has a uniform appearance with smooth surface, fitting the natural landscape.

13. Notification will be sent to OCD when the reclaimed area is seeded.

    Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

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 or Forest Service 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.

    Provision 14 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

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.

    Provision 15 was accomplished by installing a steel marker in the temporary pit, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial. The marker is flush with the ground to allow access of the active well pad and for safety concerns. The top of the marker contains a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate contains 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.

    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 following operator's information at the time of all wells on the pad are abandoned. The riser will be labeled: BR, BLM, MARSHALL 1F, UL-D, Sec. 14, T 27N, R 9W, API # 30-045-34423

Tafoya, Crystal

From: Tafoya, Crystal
Sent: Thursday, October 02, 2008 5:36 PM
To: 'mark_kelly@nm.blm.gov'
Subject: Surface Owner Notification

The temporary pit for the following list of wells will be closed on-site. Please let me know if you have any questions.

Klein 27P
Lively 21N
Marshall 1F
McDurmitt 1P

Thanks,

Crystal L. Tafoya
Regulatory Technician
ConocoPhillips Company
San Juan Business Unit
Phone: (505) 326-9837
Email: Crystal.Tafoya@conocophillips.com

RECEIVED

SEP 06 2007

Bureau of Land Management
Farmington Field Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-34423	71599	DAKOTA

4 Property Code	5 Property Name	6 Well Number
7289	MARSHALL	1F

7 OGRID No.	8 Operator Name	9 Elevation
14538	BURLINGTON RESOURCES OIL AND GAS COMPANY	6088

10 SURFACE LOCATION

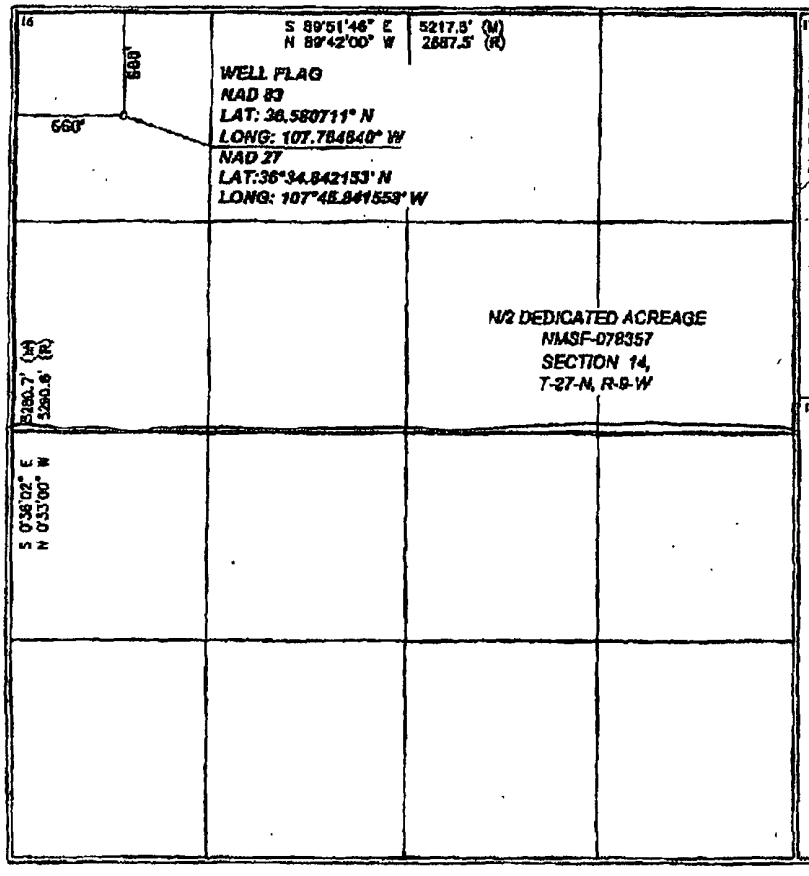
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	27-N	9-W		660	NORTH	660	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D									

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
312.13 N/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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns 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 contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Rhonda Rogers
Printed Name

Regulatory Technician
Title and E-mail Address

9-6-07
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 7/10/07
Signature and Seal of Professional Surveyor

Certificate Number: NM 11393

BURLINGTON RESOURCES OIL AND GAS COMPANY

MARSHALL 1F

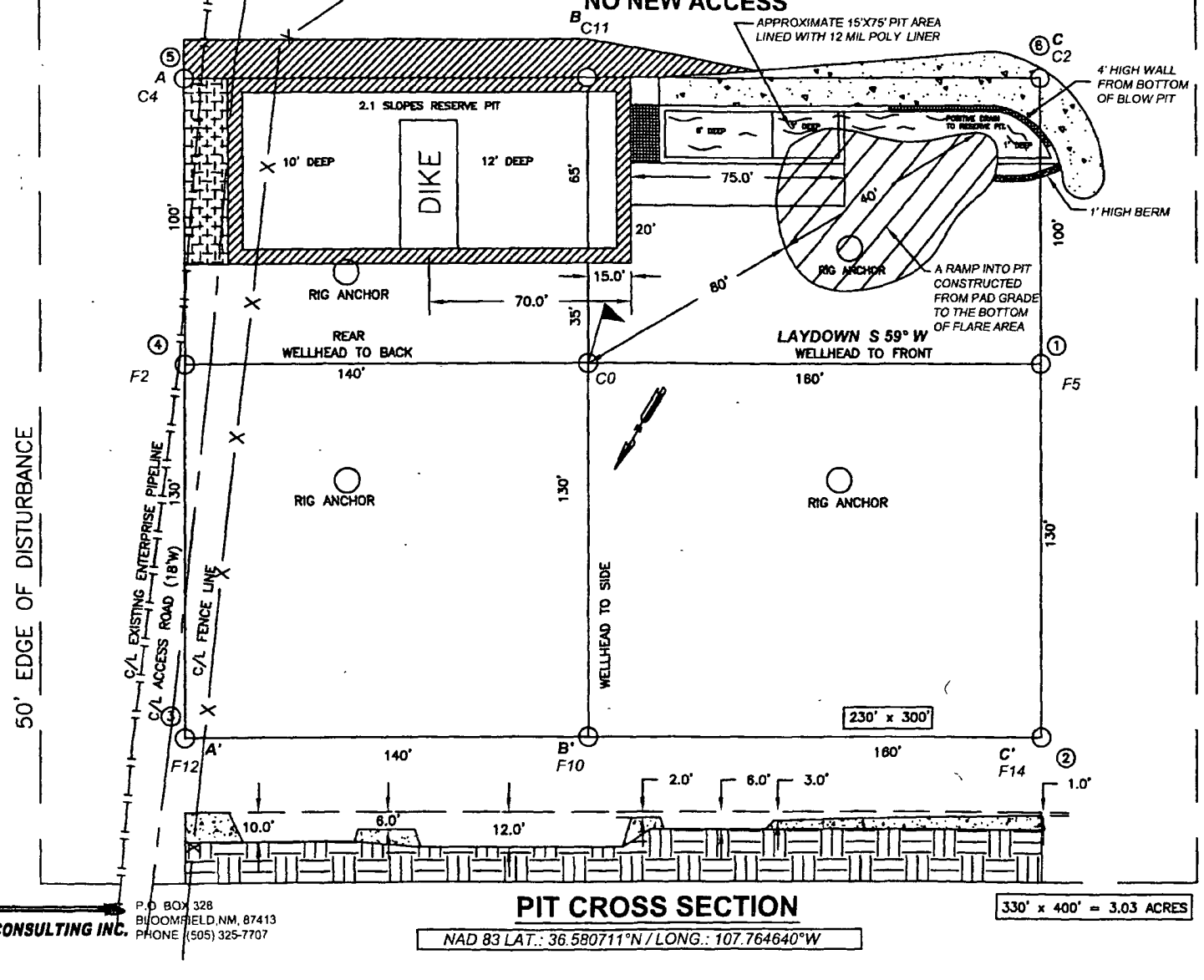
660' FNL, 660' FWL

SECTION 14, T-27-N, R-9-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEV.:6086 NAVD88 DATE: JULY 10, 2007

NO NEW ACCESS



PIT CROSS SECTION

330' x 400' = 3.03 ACRES

NAD 83 LAT.: 36.580711°N / LONG.: 107.764640°W

CCI

CHENAULT CONSULTING INC.

P.O BOX 328
BLOOMFIELD,NM, 87413
PHONE (505) 325-7707

NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. 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.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F	Date Reported:	07-31-08
Laboratory Number:	46517	Date Sampled:	07-28-08
Chain of Custody No:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-30-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**5.1**	**0.1**
Total Petroleum Hydrocarbons	**5.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drill Mud**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F Background	Date Reported:	07-31-08
Laboratory Number:	46518	Date Sampled:	07-28-08
Chain of Custody No:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-30-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drill Mud**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-30-08 QA/QC	Date Reported:	07-31-08
Laboratory Number:	46516	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-30-08
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.8870E+002	9.8910E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0131E+003	1.0135E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	246	98.4%	75 - 125%
Diesel Range C10 - C28	ND	250	252	101%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 46516 - 46420.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F	Date Reported:	07-31-08
Laboratory Number:	46517	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Analyzed:	07-30-08
Preservative:		Date Extracted:	07-29-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**27.1**	**0.9**
Toluene	**54.8**	**1.0**
Ethylbenzene	**7.2**	**1.0**
p,m-Xylene	**32.2**	**1.2**
o-Xylene	**11.5**	**0.9**
Total BTEX	**133**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drill Mud**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F Background	Date Reported:	07-31-08
Laboratory Number:	46518	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Analyzed:	07-30-08
Preservative:		Date Extracted:	07-29-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1.7**	**0.9**
Toluene	**5.4**	**1.0**
Ethylbenzene	**1.5**	**1.0**
p,m-Xylene	**3.4**	**1.2**
o-Xylene	**2.0**	**0.9**
Total BTEX	**14.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Drill Mud**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-30-BT QA/QC	Date Reported:	07-31-08
Laboratory Number:	46516	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-30-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	9.7882E+007	9.8078E+007	0.2%	ND	0.1
Toluene	7.6436E+007	7.6589E+007	0.2%	ND	0.1
Ethylbenzene	5.9728E+007	5.9847E+007	0.2%	ND	0.1
p,m-Xylene	1.2204E+008	1.2229E+008	0.2%	ND	0.1
o-Xylene	5.5920E+007	5.6033E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	5.7	5.6	1.8%	0 - 30%	0.9
Toluene	8.0	7.7	3.8%	0 - 30%	1.0
Ethylbenzene	2.9	2.4	17.2%	0 - 30%	1.0
p,m-Xylene	7.2	6.2	13.9%	0 - 30%	1.2
o-Xylene	4.3	4.0	7.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	5.7	50.0	55.3	99.3%	39 - 150
Toluene	8.0	50.0	56.0	96.6%	46 - 148
Ethylbenzene	2.9	50.0	49.9	94.3%	32 - 160
p,m-Xylene	7.2	100	105	98.1%	46 - 148
o-Xylene	4.3	50.0	49.3	90.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 46516 - 46524.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F	Date Reported:	07-30-08
Laboratory Number:	46517	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Analyzed:	07-29-08
Preservative:		Date Digested:	07-29-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.161**	**0.001**	**5.0**
Barium	**7.96**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.299**	**0.001**	**5.0**
Lead	**0.180**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Drill Mud.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F Background	Date Reported:	07-30-08
Laboratory Number:	46518	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Analyzed:	07-29-08
Preservative:		Date Digested:	07-29-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.136**	**0.001**	**5.0**
Barium	**4.55**	**0.001**	**100**
Cadmium	**0.002**	**0.001**	**1.0**
Chromium	**0.290**	**0.001**	**5.0**
Lead	**0.170**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Drill Mud.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	07-29 TM QA/AC	Date Reported:	07-30-08
Laboratory Number:	46499	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-29-08
Condition:	N/A	Date Digested:	07-28-08

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.051	0.052	0.8%	0% - 30%
Barium	ND	ND	0.001	6.49	6.53	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.175	0.194	11.0%	0% - 30%
Lead	ND	ND	0.001	0.182	0.188	3.3%	0% - 30%
Mercury	ND	ND	0.001	0.003	0.002	7.7%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.037	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.051	0.314	104%	80% - 120%
Barium	0.500	6.49	6.92	99.1%	80% - 120%
Cadmium	0.250	0.006	0.273	107%	80% - 120%
Chromium	0.500	0.175	0.581	86.1%	80% - 120%
Lead	0.500	0.182	0.583	85.5%	80% - 120%
Mercury	0.100	0.003	0.105	102%	80% - 120%
Selenium	0.100	0.037	0.152	111%	80% - 120%
Silver	0.100	ND	0.090	90.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/1QC for Samples 46499, 46501, 46502, 46517 - 46520.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F	Date Reported:	07-31-08
Laboratory Number:	46517	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil Extract	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-29/07-30-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	**6.76**	s.u.		
Conductivity @ 25° C	**1,440**	umhos/cm		
Total Dissolved Solids @ 180C	**952**	mg/L		
Total Dissolved Solids (Calc)	**888**	mg/L		
SAR	**8.6**	ratio		
Total Alkalinity as CaCO3	**54.0**	mg/L		
Total Hardness as CaCO3	**142**	mg/L		
Bicarbonate as HCO3	**54.0**	mg/L	0.89	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.300**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.00**	mg/L	0.00	meq/L
Chloride	**69.0**	mg/L	1.95	meq/L
Fluoride	**0.035**	mg/L	0.00	meq/L
Phosphate	**0.226**	mg/L	0.01	meq/L
Sulfate	**495**	mg/L	10.31	meq/L
Iron	**0.269**	mg/L	0.01	meq/L
Calcium	**43.2**	mg/L	2.16	meq/L
Magnesium	**8.19**	mg/L	0.67	meq/L
Potassium	**5.71**	mg/L	0.15	meq/L
Sodium	**234**	mg/L	10.18	meq/L
Cations			13.16	meq/L
Anions			13.15	meq/L
Cation/Anion Difference			**0.10%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drill Mud.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Marshall #1F Background	Date Reported:	07-31-08
Laboratory Number:	46518	Date Sampled:	07-28-08
Chain of Custody:	4870	Date Received:	07-29-08
Sample Matrix:	Soil Extract	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-29/07-30-08
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	**8.13**	s.u.		
Conductivity @ 25° C	**513**	umhos/cm		
Total Dissolved Solids @ 180C	**368**	mg/L		
Total Dissolved Solids (Calc)	**362**	mg/L		
SAR	**7.5**	ratio		
Total Alkalinity as CaCO3	**55.0**	mg/L		
Total Hardness as CaCO3	**37.5**	mg/L		
Bicarbonate as HCO3	**55.0**	mg/L	0.90	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**1.70**	mg/L	0.05	meq/L
Fluoride	**1.338**	mg/L	0.07	meq/L
Phosphate	**1.518**	mg/L	0.05	meq/L
Sulfate	**203**	mg/L	4.23	meq/L
Iron	**1.53**	mg/L	0.05	meq/L
Calcium	**12.1**	mg/L	0.60	meq/L
Magnesium	**1.77**	mg/L	0.15	meq/L
Potassium	**1.32**	mg/L	0.03	meq/L
Sodium	**106**	mg/L	4.61	meq/L
Cations			5.45	meq/L
Anions			5.29	meq/L
Cation/Anion Difference			**2.91%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Drill Mud.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-00026
Sample ID:	Marshall #1F	Date Reported:	07-30-08
Laboratory Number:	46517	Date Sampled:	07-28-08
Chain of Custody No:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-29-08
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**86.3**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Drill Mud.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-00026
Sample ID:	Marshall #1F Background	Date Reported:	07-30-08
Laboratory Number:	46518	Date Sampled:	07-28-08
Chain of Custody No:	4870	Date Received:	07-29-08
Sample Matrix:	Soil	Date Extracted:	07-29-08
Preservative:		Date Analyzed:	07-29-08
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**23.0**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Drill Mud.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYROCARBONS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	07-30-08
Laboratory Number:	07-29-TPH.QA/QC 46516	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	07-29-08
Preservative:	N/A	Date Extracted:	07-29-08
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	07-02-08	07-29-08	1,440	1,492	3.6%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	13.8

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	46.1	40.3	12.6%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	46.1	2,000	1,640	80.2%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **QA/QC for Samples 46516 - 46520.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Submit To Appropriate District Office
Two Copies
District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-105
July 17, 2008

1. WELL API NO.
30-045-34423

2 Type of Lease
☐ STATE ☐ FEE ☒ FED/INDIAN

3 State Oil & Gas Lease No
SF-078357

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4 Reason for filing:

☐ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☒ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19 15 17 13 K NMAC)

5 Lease Name or Unit Agreement Name
MARSHALL

6 Well Number.
1F

7 Type of Completion.
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator
Burlington Resources Oil Gas Company, LP

9. OGRID
14538

10 Address of Operator
PO Box 4298, Farmington, NM 87499

11. Pool name or Wildcat

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:										
BH:										

13 Date Spudded	14. Date T.D. Reached	15 Date Rig Released	16 Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc)
		02/24/2008		

18 Total Measured Depth of Well	19 Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run

22. Producing Interval(s), of this completion - Top, Bottom, Name

23 **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB /FT	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25 TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26 Perforation record (interval, size, and number)

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28 **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl	Gas - Oil Ratio

Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API - *(Corr)*

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Test Witnessed By

31 List Attachments

32 If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33 If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude **36.5805944°**N Longitude **107.76436667°**W NAD ☐1927 ☒1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Crystal Tafoya Printed Name Crystal Tafoya Title: Regulatory Tech Date: 1/29/2010

E-mail Address crystal.tafoya@conocophillips.com

ConocoPhillips

Pit Closure Form:

Date: 7/29/08

Well Name: Marshall #18

Footages: _____ **Unit Letter:** D

Section: 14, **T-**27 **-N, R-**9 **-W, County:** San Juan **State:** N.M

Contractor Closing Pit: Ritters

Construction Inspector: Eric Smith **Date:** 7/29/08

Inspector Signature: E Q

Revised 7/10/08

Tafoya, Crystal

From: Busse, Dollie L
Sent: Tuesday, July 22, 2008 10:15 AM
To: Brandon Powell; Busse, Dollie L; Mark Kelly; Robert Switzer; Sherrie Landon
Cc: Smith Eric (sconsulting.eric@gmail.com); jdritt@aol.com; Chavez, Virgil E; GRP:SJBU Production Foreman; GRP:SJBU Production Leads; Kramme, Jeff L; Blair, Maxwell O; Blakley, Maclovia; Clark, Joan E; Farrell, Juanita R; Finkler, Jane; Maxwell, Mary Alice; McWilliams, Peggy L; Seabolt, Elmo F
Subject: Clean Up Notice - Marshall 1F

Importance: High

Attachments: Marshall 1F.pdf

J.D. Ritter Construction will move a tractor to the **Marshall 1F** on **Friday afternoon, July 25**, to start the reclamation process. Please contact Eric Smith (608-1387) if you have any questions or need additional information.
Thanks!
Dollie

Network #: 10199648 (NANN)

Operator:	**Burlington Resources**
Legals:	660' FNL, 660' FWL Section 14, T27N, R9W Unit Letter 'D' (NWNW) San Juan County, NM
Lease:	NMSF-078357
API #:	30-045-34423
Surface/Minerals:	BLM/BLM

Marshall 1F.pdf
(232 KB)

Dollie L. Busse

ConocoPhillips Company-SJBU
Construction Technician
Project Development
505-324-6104
505-599-4062 (fax)
Dollie.L.Busse@conocophillips.com

ConocoPhillips

Reclamation Form:

Date: 9/23/08

Well Name: Marshall #12F

Footages: 660'FNL 660 FWL **Unit Letter:** D

Section: 14, **T-**27 **-N, R-** 9 **-W, County:** San Juan **State:** N.M.

Reclamation Contractor: Ritters

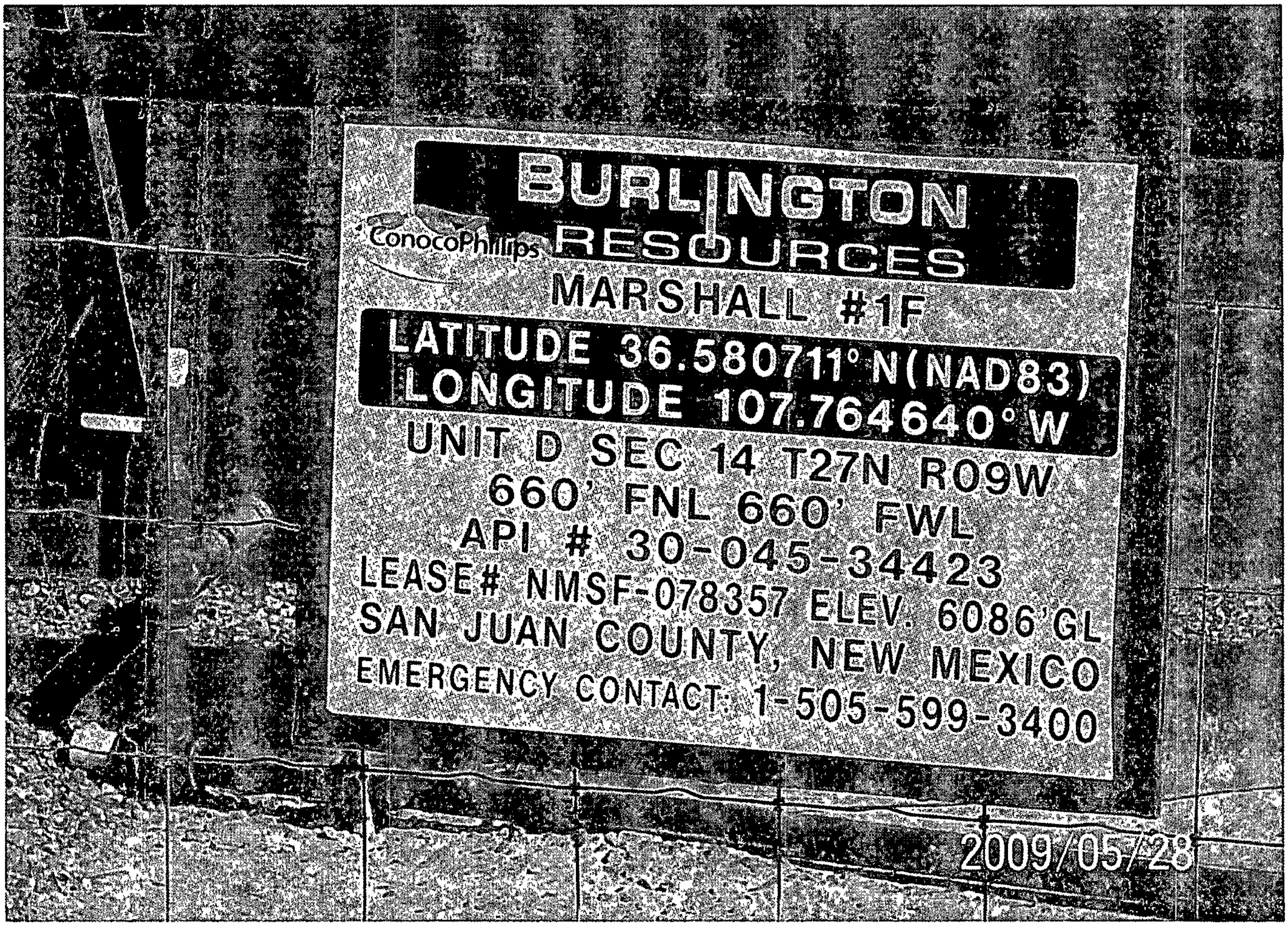
Reclamation Date: 8/28/08

Road Completion Date: 9/20/08

Seeding Date: 9/20/08

Construction Inspector: Eric Smith **Date:** 9/24/08

Inspector Signature: E Sb


BURLINGTON
ConocoPhillips RESOURCES
MARSHALL #1F
LATITUDE 36.580711° N(NAD83)
LONGITUDE 107.764640° W
UNIT D SEC 14 T27N R09W
660' FNL 660' FWL
API # 30-045-34423
LEASE# NMSF-078357 ELEV. 6086'GL
SAN JUAN COUNTY, NEW MEXICO
EMERGENCY CONTACT: 1-505-599-3400
2009/05/28


MARSHALL 1F, BLM BR,
S14, T27, R9, 660' FSL
660FWL D, SJ, NMSF-
078357 30-045-34423
2009/05/28

WELL PAD SAFETY AND ENVIRONMENTAL CHECK LIST

WELL NAME: Marshall #1F API#: 30-045-34423

DATE	INSPECTOR	SAFETY CHECK	LOCATION CHECK	PICTURES TAKEN	COMMENTS
3/7/08	Eric Smith	X	X	X	Small tear in liner and fence needs repair, called MVCI to repair, notified the OCD
3/13/08	Eric Smith	X	X	X	
3/26/08	Eric Smith	X	X	X	
4/16/08	J. McDonald	X	X	X	Called Nobles to skim oil, called MVCI to fix fence and patch liner, called OCD
4/30/08	Jared Chavez	X	X	X	A few small holes in liner, called MVCI for repairs
5/19/08	Jared Chavez	X	X	X	NE corner needs keyed and barbed wire is down, called MVCI
6/7/08	Scott Smith				Rig on site Key #11
6/13/08	Scott Smith	X	X	X	Mend and tighten barbed wire, cut back and rekey liner at blow pit, contacted MVCI
6/20/08	Scott Smith	X	X	X	Fence and liner in good condition, crew working on site
6/28/08	Scott Smith	X	X	X	Fence and liner in good condition
7/7/08	Scott Smith	X	X	X	Fence and liner in good condition
7/11/08	Scott Smith	X	X	X	Fence and liner in good condition
7/29/08	E. Smith				Pit closed