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 July 21, 2008

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

Form C-144

For permanent pits and exceptions submit to the Santa Fe

<u>District IV</u> 220 S St Francis Dr., Santa Fe, NM 87505	Junia 10, 1447 07505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
$\hookrightarrow$ $\checkmark$ $\checkmark$ $\land$	Closed-Loop System, Below-Gr Alternative Method Permit or Cl	
	ermit of a pit, closed-loop system, below-gradesure of a pit, closed-loop system, below-gradediffication to an existing permit closure plan only submitted for an existing perblow-grade tank, or proposed alternative method	ade tank, or proposed alternative method mitted or non-permitted pit, closed-loop system,
Please be advised that approval of this requ	uest does not relieve the operator of liability should operation	sed-loop system, below-grade tank or alternative as result in pollution of surface water, ground water or the ble governmental authority's rules, regulations or ordinances
Departur Purlington Passauras Oil & Ca	Company I P	OGDID# 14539

11	
Operator Burlington Resources Oil & Gas Company, LP OGRID# 14538	
Address P.O. Box 4289, Farmington, NM 87499	
Facility or well name Roelofs 1N	
API Number 30-045-34540 OCD Permit Number	<u> </u>
U/L or Qtr/Qtr K(NE/SW) Section 22 Township 29N Range 8W County. San Juan	
Center of Proposed Design Latitude 36.7109 °N Longitude 107.66607 °W NAD 192	7 X 1983
Surface Owner X Federal State Private Tribal Trust or Indian Allotment	
X   Pit: Subsection F or G of 19 15 17 11 NMAC	D 10'
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 per 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	1920272 1920272 2010 DIV. DIST 2
	- N -
Below-grade tank: Subsection I of 19 15 17 11 NMAC   Volume   bbl   Type of fluid   Tank Construction material   CONS.	2010; DIV. DIST. 3
Secondary containment with leak detection	1-1808
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of app	oroval

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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  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)				
Signs: Subsection C of 19 15 17 11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  X Signed in compliance with 19 15 3 103 NMAC				
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank.  Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consintent (Fencing/BGT Liner).  Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	proval		
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.	Yes	□No		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	□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 ☐NA	∏No		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application	Yes	□No		
- NM Office of the State Engineer - IWATERS database search, Visual inspection (certification) of the proposed site				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  - Written confirmation or verification from the municipality, Written approval obtained from the municipality	Yes	∐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		

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
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC  Instructions Lach 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 12 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 (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 Assessmen  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 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)
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.  Plane and least a big a check word in the box that the documents are attached.
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 Bu Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings are required	ns Only:(19 15 17 13 D NMAC)  Use attachment if more than two facilities				
Disposal Facility Name Disposal Facility Per	cmit #				
Disposal Facility Name Disposal Facility Per	· · · · · · · · · · · · · · · · · · ·				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas the Yes (If yes, please provide the information No		rations?			
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 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 acceptal siting criteria may require administrative approval from the appropriate district office or may be considered an exception we consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 Ni	hich must be submitted to the Santa Fe Environmental E				
Ground water is less than 50 feet below the bottom of the buried waste	Yes	s No			
- NM Office of the State Engineer - IWATERS database search, USGS Data obtained from nearby wells	□N/A				
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes	i ∐No			
- NM Office of the State Engineer - IWATERS database search, USGS, Data obtained from nearby wells	N/#	A .			
Ground water is more than 100 feet below the bottom of the buried waste	Yes	s No			
- NM Office of the State Engineer - tWATERS database search, USGS, Data obtained from nearby wells	□ N/A	`			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakel (measured from the ordinary high-water mark)	bed, sinkhole, or playa lake Yes	s No			
- Topographic map, Visual inspection (certification) of the proposed site	<u></u>				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of it - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	nitial application Yes	s No			
	Yes	s No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the in - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed s	nitial application				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a pursuant to NMSA 1978, Section 3-27-3, as amended	n municipal ordinance adopted Yes	s No			
- Written confirmation or verification from the municipality, Written approval obtained from the municipal	ility				
Within 500 feet of a wetland	Yes	: No			
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of Within the area overlying a subsurface mine	the proposed site	s $\square_{No}$			
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division		· 🗀 · · ·			
Within an unstable area	Ye	s No			
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS	5, NM Geological Society,	_			
Topographic map Within a 100-year floodplain	Ye.	s No			
- FEMA map					
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items check mark in the box, that the documents are attached.	must bee attached to the closure plan Pleas	e indicate, by a			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15	5 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 t		MAC			
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 Subs	section F of 19 15 17 13 NMAC				
Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 1					
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 Perlamation Plan - based upon the appropriate requirements of Subsection C of 19 15 17	13 NMAC				

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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
OCD Approval: Permit Application (including closuse plan) Closuse Rlan-(only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: OCD Permit Number:
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  [X] Closure Completion Date:  July 23, 2008
22
Closure Method:  Waste Excavation and Removal X 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 aleas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliane to the items below)
Required for impacted areas which will not be used for future service and operations
Ste Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique
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.  X Proof of Closure Notice (surface owner and division).  X Proof of Deed Notice (required for on-site closure).  X Plot Plan (for on-site closures and temporary pits).  X Confirmation Sampling Analytical Results (if applicable).  Waste Material Sampling Analytical Results (if applicable).  X Disposal Facility Name and Permit Number.  X Soil Backfilling and Cover Installatior.  X Re-vegetation Application Rates and Seeding Technique.  X Site Reclamation (Photo Documentation).
On-site Closure Location Latitude 36.71094 °N Longitude 107.66572 °W NAD 1927 X 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 Technician
Signature Latal Taloga Date 1/19/2010
e-mail address <u>crystal tafoya@conocophillips com</u> Telephone 505-326-9837

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

Lease Name: Roelofs 1N API No.: 30-045-34540

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)

#### **General Plan:**

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	10.1 ug/kg
BTEX	EPA SW-846 8021B or 8260B	50	298 ug/kG
TPH	EPA SW-846 418.1	2500	83.5 mg/kg
GRO/DRO	EPA SW-846 8015M	500	15.7 mg/Kg
Chlorides	EPA 300.1	1000/500	170 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 recontour 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. Reshaping 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 recontour 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, Roelofs 1N, UL-K, Sec. 22, T 29N, R 8W, API # 30-045-34540

#### Tally, Ethel

From:

Tally, Ethel

Sent:

Friday, October 03, 2008 2:46 PM

To:

'mark\_kelly@nm.blm.gov'

Subject: Surface Owner Notification

The temporary pits for the wells listed below will be closed on-site. Please let me know if you have any questions.

Rhoda Abrams 1M
Roelofs 1N
San Juan 28-7 Unit 249G

Thank You,

Ethel Tally ConocoPhillips-SJBU 3401 E. 30th Farmington NM 87402 (505)599-4027 phone Ethel.Tally@conocophillips.com District I 1625 N French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

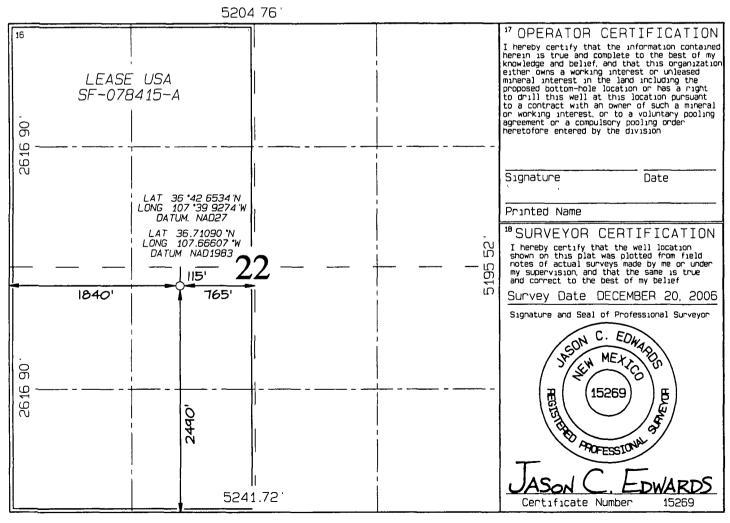
OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Numbe	Γ		*Pool Coo	le		Pool Nam	е	
'Property	Code	³Property Name ROELOFS				* W	Well Number		
'OGRID	No		BURLI	*Operator Name *Elev				Elevation 6409	
					<sup>10</sup> Surface	Location			
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
К	22	29N	8W		2490	SOUTH	1840	WEST	SAN JUAN
	<del></del>	11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres			<u> </u>		13 Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Onder No		

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



~ SURFACE OWNER ~ GRAPHIC SCALE 1"=50" LATITUDE: 36°42.6534'N LONGITUDE: 107°39.9274'W Bureau of Land Management DATUM. NADI927 50 100 0 EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS) **F**4  $\mathcal{C}^2$  $\mathcal{C}^{\mathbf{q}}$ **BURLING (4)** (i) **(** 130 95 2490" FSL & 1840" SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6409° ⋗ ➣ Mellhead to back AREA OF TOTAL DISTURBANCE 400" X 325" = 2.98 ACRES EDGE OF Reserve Pit 単点 RESO! TOTAL DISTURBANCE (MARKED WITH STEEL Dike 2 | Slopes JRCES 9 Πœ SECTION Ø  $\alpha$ 35 60 130 Wellhead to side Qο 20' 0 LAYDOWN 524°W 160' Wellhead to front ON FRUITLAND FORMATIONS 6' DEEP T-P05T5) 551 ĬΠ Blow Pit 95 **#1**乙 130 0  $\Theta$ **©** ACCESS 1200' (0-8%) F16 C2 $C_{1}$ NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N	Date Reported:	07-30-08
Laboratory Number:	46481	Date Sampled:	07-22-08
Chain of Custody No.	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Extracted:	07-28-08
Preservative:	Cool	Date Analyzed:	07-29-08
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)	15.7	0.1
Total Petroleum Hydrocarbons	15.7	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:

**Drilling Pit Sample** 

Analyst

(huster mulaster Review



#### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N Background	Date Reported:	07-30-08
Laboratory Number:	46482	Date Sampled:	07-22-08
Chain of Custody No:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Extracted:	07-28-08
Preservative:	Cool	Date Analyzed:	07-29-08
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: Drilling Pit Sample

Analyst

Review Wasters



#### EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

#### **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	07-29-08 QA/QC	Date Reported:	07-30-08
Laboratory Number:	46479	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-29-08
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	1.0134E+003	1.0138E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0001E+003	1.0005E+003	0.04%	0 - 15%

Blank@onc.:(mg/Lamg/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	6.0	5.9	1.7%	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	6.0	250	258	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 46479 - 46482 and 46500 - 46502.

Analyst



### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N	Date Reported:	07-30-08
Laboratory Number:	46481	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Analyzed:	07-29-08
Preservative:	Cool	Date Extracted:	07-28-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg <u>)</u>	Det. Limit (ug/Kg)
Benzene	10.1	0.9
Toluene	47.7	1.0
Ethylbenzene	12.7	1.0
p,m-Xylene	189	1.2
o-Xylene	38.3	0.9
Total BTEX	298	

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:

**Drilling Pit Sample** 

Analyst

Mister Walters
Review



### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N Background	Date Reported:	07-30-08
Laboratory Number:	46482	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Analyzed:	07-29-08
Preservative:	Cool	Date Extracted:	07-28-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

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:

**Drilling Pit Sample** 

Analyst

Ahreatin m Weetles
Review



### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-29-BT QA/QC	Date Reported:	07-30-08
Laboratory Number.	46479	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative <sup>-</sup>	N/A	Date Analyzed:	07-29-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection/Elmits (ug/E)	∫ECaliRE:		%Diff. je:0 - 15%	Blank Conc	Detect L'imit
Benzene	9 7554E+007	9.7749E+007	0.2%	ND	0.1
Toluene	8.1352E+007	8.1515E+007	0.2%	ND	0.1
Ethylbenzene	6.3875E+007	6.4003E+007	0.2%	ND	0.1
p,m-Xylene	1.2973E+008	1 2999E+008	0.2%	ND	0.1
o-Xylene	5.8774E+007	5.8892E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Du	iplicate	%Diff:	Accept Range	のDetectaLimit (単)
Benzene	19.9	19.8	0.5%	0 - 30%	0.9
Toluene	45.2	44.8	0.9%	0 - 30%	1.0
Ethylbenzene	13.9	13.4	3.6%	0 - 30%	1.0
p,m-Xylene	70.7	69.6	1.6%	0 - 30%	1.2
o-Xylene	24.7	24.3	1.6%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	untiSpiked: /Spik	ked Sample	%Recovery	AcceptiRange
Benzene	19.9	50.0	69.5	99.4%	39 - 150
Toluene	45.2	50.0	93.1	97.8%	46 - 148
Ethylbenzene	13.9	50.0	60.9	95.3%	· 32 - 160
p,m-Xylene	70.7	100	165	96.4%	46 - 148
o-Xylene	24.7	50.0	69.7	93.3%	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 46479 - 46482 and 46500 - 46502.

Analyst



#### TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N	Date Reported:	07-29-08
Laboratory Number:	46481	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Analyzed:	07-24-08
Preservative:	Cool	Date Digested:	07-23-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
	ŀ		
Arsenic	0.208	0.001	5.0
Barium	46.6	0.001	100
Cadmium	0.001	0.001	1.0
Chromium	0.470	0.001	5.0
Lead	0.278	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.018	0.001	1.0
Silver	0.003	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: **Drilling Pit Sample.** 

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#### TRACE METAL ANALYSIS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N Background	Date Reported:	07-29-08
Laboratory Number:	46482	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Analyzed:	07-24-08
Preservative:	Cool	Date Digested:	07-23-08
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.183	0.001	5.0
Barium	7.46	0.001	100
Cadmium	0.006	0.001	1.0
Chromium	0.287	0.001	5.0
Lead	0.310	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.011	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:

Drilling Pit Sample.

Analyst

Mother M Weller Review



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:			QA/QC
Sample ID:		07-24 TM	00/00	-			07-29-08
•			QAVAC	Date Rep			
Laboratory Number:		46479		Date Sam	•		N/A
Sample Matrix:		Soil		Date Rec			N/A
Analysis Requested:		Total RCF	A Metals	Date Ana	•		07-24-08
Condition:		N/A		Date Dige	ested:		07-23-08
Blank & Duplicate Conc. (mg/Kg)	Instrumen lank (mg/k	t Method (g) Blank	Detection Limit		i Duplicate	% Diff:	Acceptance Range
Arsenic	ND	ND	0.001	0.254	0.261	2.9%	0% - 30%
Barium	ND	ND	0.001	38.4	38.5	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.541	0.546	0.9%	0% - 30%
Lead	ND	ND	0.001	0.311	0.320	3.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.044	0.055	26.9%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spike		Spike	Sampl				Acceptance
Conc (mg/Kg)		Added		Sampl	e Recovery		Range
Arsenic		0.250	0.254	0.504	100%		80% - 120%
Barium		0.500	38.4	39.1	101%		80% - 120%
Cadmium		0.250	0.006	0.272	106.2%		80% - 120%
Chromium		0.500	0.541	1.019	97.9%		80% - 120%
Lead		0.500	0.311	0.779	96.1%		80% - 120%
Mercury		0.100	ND	0.094	94.0%		80% - 120%
Selenium		0.100	0.044	0.125	87.4%		80% - 120%
Silver		0.100	ND	0.100	99.7%		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 Emmislon

Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/1QC for Samples 46479 - 46482.** 

Analyst



#### **CATION / ANION ANALYSIS**

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N	Date Reported:	07-24-08
Laboratory Number:	46481	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil Extract	Date Extracted:	07-23-08
Preservative:	Cool	Date Analyzed:	07-24-08
Condition:	Intact		

	Analytical			
Parameter	Result	Units	,	
рН	7.30	s.u.		
Conductivity @ 25° C	1,350	umhos/cm		
Total Dissolved Şolids @ 180C	720	mg/L		
Total Dissolved Solids (Calc)	788	mg/L	`	
SAR	8.2	ratio		
Total Alkalinity as CaCO3	242	mg/L		
Total Hardness as CaCO3	143	mg/L		
Bicarbonate as HCO3	242	mg/L	3.97	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	0.400	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	170	mg/L	4.80	meq/L
Fluoride	2.32	mg/L	0.12	meq/L
Phosphate	0.300	mg/L	0.01	meq/L
Sulfate	190	mg/L	3.96	meq/L
Iron	0.071	mg/L	0.00	meq/L
Calcium	27.3	mg/L	1.36	meq/L
Magnesium	18.2	mg/L	1.50	meq/L
Potassium	6.07	mg/L	0.16	meq/L
Sodium	226	mg/L	9.83	meq/L
Cations			12.85	meq/L
Anions			12.86	meq/L
Cation/Anion Difference			0.06%	

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: Drilling Pit Sample.

Analyst

Mustlim Weeter.
Review



#### **CATION / ANION ANALYSIS**

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N Background	Date Reported:	07-24-08
Laboratory Number:	46482	Date Sampled:	07-22-08
Chain of Custody:	4402	Date Received:	07-23-08
Sample Matrix:	Soil Extract	Date Extracted:	07-23-08
Preservative:	Cool	Date Analyzed:	07-24-08
Condition:	Intact		

	Analytical			
Parameter	Result	Units		
рН	8.03	s.u.		
Conductivity @ 25° C	438	umhos/cm		
Total Dissolved Solids @ 180C	242	mg/L		
Total Dissolved Solids (Calc)	247	mg/L		
SAR	6.6	ratio		
Total Alkalinity as CaCO3	178	mg/L		
Total Hardness as CaCO3	27.0	mg/L		
Bicarbonate as HCO3	178	mg/L	2.92	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	1.72	mg/L	0.03	meq/L
Nitrite Nitrogen	1.04	mg/L	0.02	meq/L
Chloride	7.26	mg/L	0.20	meq/L
Fluoride	1.56	mg/L	0.08	meq/L
Phosphate	0.100	mg/L	0.00	meq/L
Sulfate	37.6	mg/L	0.78	meq/L
iron	0.714	mg/L	0.03	meq/L
Calcium	6.83	mg/L	0.34	meq/L
Magnesium	2.42	mg/L	0.20	meq/L
Potassium	1.08	mg/L	0.03	meq/L
Sodium	79.3	mg/L	3.45	meq/L
Cations			4.04	meq/L
Anions			4.04	meq/L
Cation/Anion Difference			0.05%	

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: Drilling Pit Sample.

Analyst

Austre m Weller Review



#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N	Date Reported:	07-28-08
Laboratory Number:	46481	Date Sampled:	07-22-08
Chain of Custody No:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Extracted:	07-28-08
Preservative:	Cool	Date Analyzed:	07-28-08
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Р	Parameter (mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

83.5

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:

Drilling Pit Sample.

Analyst

Review



#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Roelofs #1N Background	Date Reported:	07-28-08
Laboratory Number:	46482	Date Sampled:	07-22-08
Chain of Custody No:	4402	Date Received:	07-23-08
Sample Matrix:	Soil	Date Extracted <sup>.</sup>	07-28-08
Preservative:	Cool	Date Analyzed:	07-28-08
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

20.1

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:

**Drilling Pit Sample.** 

Analyst

Apriotice Walter
Review



# EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client: QA/QC N/A Project #: Sample ID: QA/QC Date Reported: 07-29-08 Date Sampled: N/A Laboratory Number: 07-28-TPH.QA/QC 46479 Date Analyzed: 07-28-08 Sample Matrix: Freon-113 07-28-08 Preservative: N/A Date Extracted: Condition: N/A Analysis Needed: TPH

Blank Conc. (mg/Kg)

Concentration

ND

Detection Limit

5.0

Duplicate Conc. (mg/Kg)SampleDuplicate% DifferenceAccept. RangeTPH69.169.10.0%+/- 30%

Spike Conc. (mg/Kg) Sample Spike Added Spike Result % Recovery Accept Range TPH Spike Added Spike Result % Recovery Accept Range 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 46479 - 46482 and 46500 - 46502.

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Submit To Appropriation Two Copies	riate District O	Office		State of New Mexico					Form C-105						
District I 1625 N French Di	, Hobbs, NM	88240	E	Energy, Minerals and Natural Resources				July 17, 2008  1. WELL API NO							
District II 1301 W Grand Av	enue, Artesia,	NM 88210		Oil Conservation Division					30-045-34540						
District III 1000 Rio Brazos R	d, Aztec, NM	87410		1220 South St. Francis Dr.					2 Type of Lease  ☐ STATE ☐ FEE ☒ FED/INDIAN						
District IV 1220 S St Francis	Dr , Santa Fe,	NM 87505			Santa Fe, 1	NM :	87505			3 State Oil & Gas Lease No					
WELL	COMPLE	TION O	R RFC	COMPL	ETION RE	POF	RT AN	DLOG		SF-078415-A					
4 Reason for file				JOINI L	LHOITIL	<u> </u>	(1 / (1)	<u> </u>		5 Lease Nam	***************************************				<u> </u>
COMPLET	ION REPOI	RT (Fill in bo	exes #1 th	rough #31	for State and Fed	e wells	only)			Roelofs 6 Well Number	ner				<u> </u>
C-144 CLOS #33, attach this a									d/or	1N					1
7 Type of Comp	oletion WELL [] v	WORKOVE	R $\square$ DEF	EPENING	□PLUGBACI	кП	DIFFER	ENT RESER	VOII	R OTHER				_	
8 Name of Opera	ator									9 OGRID				,	
Burlington R 10 Address of O	perator		ompan	y, LP						14538 11 Pool name	or W	ıldcat			
PO Box 4298, Fa	rmington, N	M 87499													
12.Location	Unit Ltr	Section	Tov	vnship	Range	Lot		Feet from	the	N/S Line	Feet	t from th	E/V	V Line	County
Surface:			_			<u> </u>									
BH: 13 Date Spudded	1 14 Date	T D Reache	d [13	5 Date Rig	Palagod	<u> </u>	11	6 Date Com	nlete	d (Ready to Proc	luca)	<u> </u>	7 Fle	vations (D)	and RKB,
				4/08/2008	Reieaseu		,   '	o Date Com	picte	1 (Ready to 1100	iucc)		RT, GR	R, etc)	
18 Total Measur	ed Depth of	Well	19	Plug Bac	k Measured Dep	pth	2	0 Was Dire	ctiona	al Survey Made	)	21 Ty	pe Ele	ctric and O	ther Logs Run
22 Producing Int	terval(s), of t	his completion	on - Top, I	Bottom, Na	ame							<u>.</u>			
23				CAS	ING REC	ORI	D (Rej	port all s	trin						
CASING SI	ZE	WEIGHT	_B /FT		DEPTH SET		H	IOLE SIZE		CEMENTIN	G RE	CORD		AMOUNT	PULLED
				<del></del>											
						_		<del></del>							
24					ER RECORD	J.			25			NG RE			
SIZE	TOP		BOTTON	И	SACKS CEM	ENT	SCRE	EN	SI	SIZE DEPTH SET PACKER SET				ER SET	
26 Perforation	record (inte	rval, sıze, and	l number)					CID, SHOT 1 INTERVA		ACTURE, CE					
							DEFII	TINIERVA	L	AMOUNT	INDI	CIND WI	A I LIKI	AL USLD	
20						DD	DIIC	CTION							~
Date First Produc	ction	Pro	duction N	Method (Flo	owing, gas lift, p				p)	Well Status	s (Pro	d or Shi	t-ın)		
Date of Test	Hours To	ested	Choke S	ıze	Prod'n For Test Period		Oil - B	ы	Ga	s - MCF	W	ater - Bb	1	Gas -	Oil Ratio
Flow Tubing Press	Casing F	Pressure	-	Calculated 24- Oil - Bbl			Ga	s - MCF		Water - Bbl		Oil Gravity - API - (Corr)		rr)	
29 Disposition o	29 Disposition of Gas (Sold, used for fuel, vented, etc.)  30 Test Witnessed By														
31 List Attachm	ents					-					L		-		
32 If a temporar	y pit was use	d at the well,	attach a p	olat with th	e location of the	tempo	orary pit								
33 If an on-site burial was used at the well, report the exact location of the on-site burial															
I hereby certi	fy that the	Latitude :	36.71094° on show	n on both		12°W s forn	NAD [	11927 ⊠19 e and comp	83 plete	to the best o	of my	knowle	edge d	and belie	f
Signature	Zota	l-Ta	Toeja	Prir Nan	nted ne Crystal T	afoy	a Tit	le: Regul	ator	y Technicıan	l	Date.	19/	2010	
E-mail Addre	ss crystal	.tafoya@c	onocopl	nillips.co	m										

.

## ConocoPhillips Pit Closure Form:

Date: 7/23/08		/
Well Name: Roel & s # 1 N		
Footages: 2490'FSL 1840'FWL	Unit Letter:	K
Section: 22, T-29-N, R-8-W, County: San	luan	state: <u>New Mexico</u>
Pit Closure Date: 7/23/08		<del></del>
Contractor Closing Pil: Aztec Exercation		
Johnny McDonald	7/23/08	
Construction inspector Name  Commy My Signature	Date	ConocoPhillips
Signatura		

Revised 10/22/07

#### Tafoya, Crystal

From:

Busse, Dollie L

Sent:

Thursday, July 17, 2008 9 01 AM

To:

Brandon Powell@state nm us, Mark Kelly, Robert Switzer, Sherrie Landon

Cc:

'McDonald Johnny (jr\_mcdonald@msn com)', Aztec Excavation, Gilbert Meador, Randy Flaherty, 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 A (SOS Staffing Services, Inc.), McWilliams, Peggy L, Seabolt, Elmo F

Subject:

Clean Up Notice - Roelofs 1N

Importance:

High

Attachments:

Roelofs 1N pdf

**Aztec Excavation** will move a tractor to the **Roelofs 1N** on **Tuesday**, **July 22** to start the reclamation process Please contact Johnny McDonald (215-2861) if you have any questions or need additional information Thanks!

Dollie

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Network #: 10200530 (NANN)

Operator:

**Burlington Resources** 

Legals

2490' FSL, 1840' FWL Section 22, T29N, R8W Unit Letter 'K' (NESW) San Juan County, NM

Lease:

SF-078415-A

API#:

30-045-34540

Surface/Minerals:

BLM/BLM



#### 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:

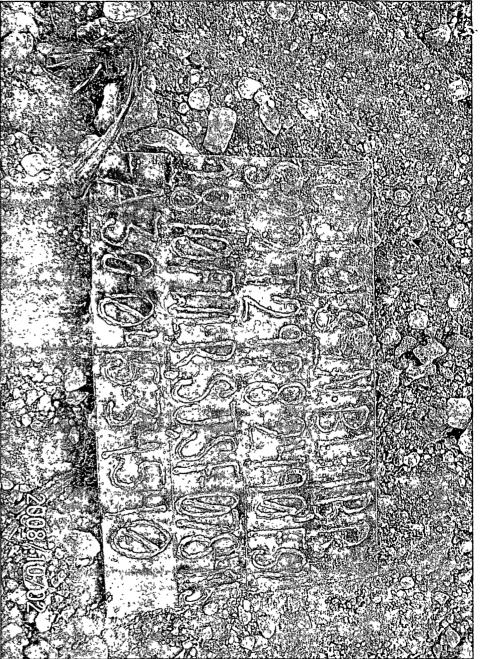
 $\binom{\mathbb{Z}^{-1}}{2}$ 

Date: 8/6/08			
Well Name: Roelofs #1N			
Footages: 2490'FSL 1840'FWL			
Section: 22 , T- 29 -N, R- 8 -W	, County: <u> க</u> ெ	n Judn	_State: New Mexico
Reclamation Contractor: Aztec Excavation		·	
Reclamation Date: 7/25/08		-	
Road Completion Date: 7/25/08		-	
Seeding Date: 8/1/08		_	
Johnny McDonald	8/6/08		
Construction Inspector Name	Date	Co	nocoPhillips
Signature			
·			
Payland 2/12/09			









#### WELL PAD SAFETY AND ENVIRONMENTAL CHECK LIST

WELL NAME: Roelofs #1N

API#: 30-045-34540

DATE	INSPECTOR	SAFETY CHECK	LOCATION CHECK	PICTURES TAKEN	COMMENTS
4/3/08	Art Sanchez	Х	Х	Х	Rig on location
4/11/08	Art Sanchez	Х	Х	Х	Rig down & moving
4/23/08	Art Sanchez	Х	Х	Х	Called contractor to repair holes in liner
4/30/08	Art Sanchez	X	Х	Х	Called vendor to pull water from blow pit, called contractor to repair liner
5/8/08	Art Sanchez	_ X	Х	Х	
5/15/08	Art Sanchez	Х	Х	Х	Oil stains on location
5/29/08	Rodney Woody	X	Х	Х	Pit and location look good
6/11/08	Scott Smith				Rig on location
6/18/08	Scott Smith	Х		Х	Water Truck in route, crew standing by to re-string fence once water truck is through
6/24/08	Scott Smith	Х	Х	Х	Liner need cut back and re-keyed at blow pit, facilities are being put in
6/30/08	Rodney Woody	Х	Х	Х	Fence is split, called vendor to pull blow pit
7/3/08	Rodney Woody	Х	Х	Х	Called contractor to repair fence and holes
7/10/08	Rodney Woody	Х	Х	Х	Pit and location look good, Resource on location
7/23/08	J. McDonald				Pit Closed
8/6/08	J. McDonald				Reclamation of pit & location done