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

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

1220 S. St. Francis Dr., Santa Fe, NM 87505		appropriate NMOC	D District Office.
	Pit, Closed-Loop System	n, Below-Grade Tank, or	
Propo	osed Alternative Method	Permit or Closure Plan Ap	<u>plication</u>
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 ag	oplication (Form C-144) per indiv	idual pit, closed-loop system, below-g	grade tank or alternative request
Please be advised that approval of	f this request does not relieve the operator of li	ability should operations result in pollution of surf	face water, ground water or the
Operator: Burlington Resources Oi	l & Gas Company, LP	OGRID#: 145	38
Address: PO Box 4289, Farmingto			
Facility or well name: San Juan 32-	9 Unit 34B		
API Number: 30)-045-35183	OCD Permit Number:	
U/L or Qtr/Qtr: K(NE/SW) Section Center of Proposed Design: Latitude: Surface Owner: X Federal	: <u>36.93987</u> °N	Range: 10W County: Longitude: 107.85738 Fribal Trust or Indian Allotment	San Juan °W NAD: ### X 1983
Lined Unlined Lin String-Reinforced		LLDPE HDPE PVC	RCVD DEC 6'13 OIL CONS. DIV. DIST. 3 Other
Type of Operation: P&A Drying Pad Above Groun Lined Unlined Lines	ion H of 19.15.17.11 NMAC Drilling a new well Workover notice of ir notice of ir nd Steel Tanks Haul-off Bins r type: Thickness milectory Other	or Drilling (Applies to activities which requestent) Other LLDPE HDPE PVD	
		ner, 6-inch lift and automatic overflow shut Other	-off
5 Alternative Method: Submittal of an exception request is requ	uired. Exceptions must be submitted to	the Santa Fe Environmental Bureau office	e for consideration of approval.

Form C-144

Oil Conservation Division

Page 1 of 5

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, instance of the proof of the permanent pits and permanent open top tanks) 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)	tution or chur	rch)
Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC		
9 Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Cavitation pit for Pre-set)	ideration of ap	proval.
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.	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.	Yes	No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	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.	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

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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) APIor Permit			
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 (I) of Subsection B of 19.15.17.9 NMAC			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment			
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC			
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC			
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC			
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC			
Quality Control/Quality Assurance Construction and Installation Plan			
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC			
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan			
Emergency Response Plan			
Oil Field Waste Stream Characterization			
Monitoring and Inspection Plan			
Erosion Control Plan			
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC			
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 X 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			
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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National Contents of the China Section of the Secti					
Disposal Facility Name: Read Disposal Facility Disposal Facility Permit # Nht-01-005 Will any of the proposed closed-loop system operations and genomisted activities occur on or in areast that will not be used for future service and Yes (1/55)-p. Dates proved the conformation No. No. Disposal for impacted areast which will not be used fur finite service and agentations No. Sol Backfill and Cvere Design Specification - Needed upon the appropriate requirements of Subsection II of 19, 15, 17, 13 NMAC Sol Backfill and Cvere Design Specification - Needed upon the appropriate requirements of Subsection II of 19, 15, 17, 13 NMAC Sol Backfill and Cvere Design Specification - Needed upon the appropriate requirements of Subsection II of 19, 15, 17, 13 NMAC Sol Backfill and Cvere Design Specification - Needed upon the appropriate requirements of Subsection II of 19, 15, 17, 13 NMAC Sol Backfill and Cvere Design Specification - Needed upon the appropriate requirements of Subsection II of 19, 13, 17, 13 NMAC Sol Backfill and Cvere Design Specification - Needed upon the appropriate active region of the Control of Active Regulation of Pacification of Pac					
Vest (If yes, place provided in formation No	Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #: NM-01-0011 / NM-01-0	010B			
Yes (If yes, please provide the information No	Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #: NM-01-005				
Site Recital and Cover Design Specification - based upon the appropriate requirements of Subsection In 67 19 15 17 13 NMAC		service and			
Sinte Criteria (Regarding on-site closure methods only: 19.13.7.10 NMAC Internativas: Data in general and preparate administrativa or promised below. Request regarding clonings to cereasia sing criteria only require administrativa complete in the capture plan. Recommendations of acceptable source material and premature approach from the appropriate district affects on the proposed site of the state Engineer - IWATERS database search, USGS. Data obtained from nearby wells 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 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 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 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (pressured from the ordinary ligh-water match) - Topographic map, Yisual inspection (certification) of the proposed site within 300 feet of an openment residence, school, baspit, institution, or barbot in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo, satellite image Within 500 lonizontal feet of a private, dementic feeth water well or spring, in existence at the time of the initial application. - Within the area overlying a subsurface mine. - Within the area overlying a subsurface mine	Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection II of 19.15.17.13 NM/Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	AC			
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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 Ves	Ground water is less than 50 feet below the bottom of the buried waste.	Yes No			
- NM Office of the State Engineer - IWATERS database search; USGS, Data obtained from nearby wells - NM Office of the State Engineer - IWATERS database search; USGS, Data obtained from nearby wells - NM Office of the State Engineer - IWATERS database search; USGS, Data obtained from nearby wells - Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image Within 500 horizontal feet of a private, domestic 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 Within incorporated sunscipal boundaries or within a defined musicipal houndaries or within a substurble area. - Witten confinantion or verification map; Topographic map; Visual inspection (certification) of the proposed site - Witten confinantion or verification map; Topogra	- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A			
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Within 500 horizontal feet of a private, domestic 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 Within incorporated municipal boundaries or within a defined municipal fresh water well of spring, in existence at the time of the initial application. - Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland - Witten confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland - US Fish and Writdiffe Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain. - FEMA map - Is 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 19.15.17.11 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Confirmation Sämpling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Confirmation Sämpling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Confirmation Sämpling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Su	- Visual hispection (certification) of the proposed site, Aerial photo, satellite mage	□Yes □No			
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Within a 100-year floodplain. FEMA map Pease No	Within an unstable area.	Yes No			
Within a 100-year floodplain FEMA map 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 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of Subsection F 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)					
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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)					
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Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)	Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC				
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					

Form C-144 Oil Conservation Division Page 4 of 5

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:		
Dut		
Signature: Date: -mail address: Telephone:		
#OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 12/9/2013 Title: 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. Closure Completion Date: 8/3/2011		
Closure Method: Waste Excavation and Removal On-site Closure Method X Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.		
# <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> 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 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 operations?		
Yes (If yes, please demonstrate complilane to the items below)		
Required for impacted areas which will not be used for future service and operations:		
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Re-regeration Application Rates and Security 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. 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 Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude: 36.93987 Longitude: 107.85738 NAD 1927 X 1983		
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): Kenny Davis Title: Staff Regulatory Technician		
Signature: Date: 12/5/2013		
e-mail address: kenny.r.davis@conocophillips.com Telephone: 505-599-4045		

Burlington Resources Oil & Gas Company, LP Cavitation Pit for Closed-Loop Locations

Design:

Burlington Resources Oil & Gas Company, LP will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations. The drill cuttings will be stockpiled on the surface.

Operations and Maintenance:

The cavitation pit will be operated and maintained as follows:

- 1. Only Fresh water and air will be used in the drilling of the surface casing.
- 2. The Cement used will be: Neat Cement with no additives.
- 3. All of the fluids will be removed within 48hrs after drilling.
- 4. A representative five point composite sample will be taken of the drill cuttings, after the setting of the surface casing is complete, using sampling tools and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e.

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

5. The NMOCD will be notified via email of the test results of the cavitation surface as follows:

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	5.7
TPH	EPA SW-846 418.1	2500	72.4
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	500	ND

Closure Plan:

- 1. The NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location.
- 2. In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005) and/or JFJ Landfarm % Industrial Ecosystem Inc. (Permit #NM-01-0010B).
- 3. Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144.

Burlington Resources is aware that approval of this plan does not relieve Burlington Resources of liability should operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve ConocoPhillips of its responsibility to comply with any other applicable governmental authority's rules and regulations.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1706
. Sample ID:	Air Preset Cuttings	Date Reported:	08-04-11
Laboratory Number:	59171	Date Sampled:	08-03-11
Chain of Custody No:	9543	Date Received:	08-04-11
Sample Matrix:	Soil	Date Extracted:	08-04-11
Preservative:	Cool	Date Analyzed:	08-04-11
Condition:	Intact	Analysis Requested:	8015 TPH
Condition:	Intact	Analysis Requested:	8015 1PH

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	

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:

San Juan 32-9 #34B

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-04-11 QA/QC	Date Reported:	08-04-11
Laboratory Number:	59155	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-04-11
Condition:	N/A	Analysis Requested:	TPH

	l-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08/04/11	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	08/04/11	1.009E+03	1.010E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	2.6	0.2
Diesel Range C10 - C28	2.3	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	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	253	101%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	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 59155-59159, 59163-59171



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air Preset Cuttings	Date Reported:	08-04-11
Laboratory Number:	59171	Date Sampled:	08-03-11
Chain of Custody:	9543	Date Received:	08-04-11
Sample Matrix:	Soil	Date Analyzed:	08-04-11
Preservative:	Cool	Date Extracted:	08-04-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

		Det.	
_	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	

Benzene	ND	0.9
Toluene	1.6	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.0	1.2
o-Xylene	2.1	0.9
Total BTEX	5.7	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.4 %
	1,4-difluorobenzene	93.9 %
	Bromochlorobenzene	110 %

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:

San Juan 32-9 #34B

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A 0804BBLK QA/QC 59155 Soil N/A N/A I-Cal RF: 3.2016E+006 3.2604E+006 2.9085E+006 7.9179E+006 2.6517E+006		Project #:	N/	A
Sample ID:	0804BBLK QA/QC		Date Reported:	80	-04-11
Laboratory Number:	59155		Date Sampled:	N/	Α
Sample Matrix:	Soil		Date Received:	N/	Α
Preservative:	N/A		Date Analyzed:	08	-04-11
Condition:	N/A		Analysis:	B	ΓEX
			Dilution:	10	
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Ran	nge 0 - 15%	Conc	Limit
Benzene	3.2016E+006	3.2080E+006	0.2%	ND	0.1
Toluene	3.2604E+006	3.2669E+006	0.2%	ND	0.1
Ethylbenzene	2.9085E+006	2.9144E+006	0.2%	ND	0.1
p,m-Xylene	7.9179E+006	7.9338E+006	0.2%	ND	0.1
o-Xylene	2.6517E+006	2.6570E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	1.4	1.7	21.4%	0 - 30%	1.0
Ethylbenzene	2.2	2.2	0.0%	0 - 30%	1.0
p,m-Xylene	3.2	3.2	0.0%	0 - 30%	1.2
o-Xylene	2.0	1.8	10.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spi	ked Sample %	Recovery	Accept Range
Benzene	ND	500	517	103%	39 - 150
Toluene	1.4	500	518	103%	46 - 148
Ethylbenzene	2.2	500	515	103%	32 - 160
p,m-Xylene	3.2	1000	1,030	103%	46 - 148
o-Xylene	2.0	500	520	104%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 59155-59159, 59163-59164, 59171



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air Preset Cuttings	Date Reported:	08/04/11
Laboratory Number:	59171	Date Sampled:	08/03/11
Chain of Custody No:	9543	Date Received:	08/04/11
Sample Matrix:	Soil	Date Extracted:	08/04/11
Preservative:	Cool	Date Analyzed:	08/04/11
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

72.4

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:

San Juan 32-9 #34B

Review

5796 US Highway 64, Farmington, NM 87401

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS **QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported: Date Sampled:

08/04/11

Laboratory Number: Sample Matrix:

08-04-TPH,QA/QC 59171

N/A

Preservative:

Freon-113

Date Analyzed: Date Extracted: 08/04/11 08/04/11

Condition:

N/A N/A

Analysis Needed:

1.750

TPH

Calibration

I-Cal Date 07/25/11

C-Cal Date 08/04/11

I-Cal RF.

C-Cal RF: % Difference 3.3%

Accept. Range +/- 10%

Blank Conc. (mg/Kg)

Concentration

1.810

Detection Limit

TPH

10.1

5.0

Duplicate Conc. (mg/Kg) **TPH**

Sample

Duplicate

% Difference Accept. Range

72.4

57.9

20.0%

+/- 30%

Spike Conc. (mg/Kg) **TPH**

Sample 72.4

2,000

Spike Added Spike Result % Recovery 1,950

94.1%

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 59171



Chloride

Client: ConocoPhillips Project #: 96052-1706 Sample ID: Air Preset Cuttings Date Reported: 08/04/11 Lab ID#: 59171 Date Sampled: 08/03/11 Sample Matrix: Soil Date Received: 08/04/11 Preservative: Cool Date Analyzed: 08/04/11 Condition: Chain of Custody: Intact 9543

intact chair of Gastody.

Parameter

Concentration (mg/Kg)

Total Chloride

ND

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

San Juan 32-9 #34B

Analyst

Rush CHAIN OF CUSTODY RECORD

09543

Client:	~ ~ ~	1	Project Name / I	ocation	:	-41.								ANAL	YSIS	 / PAR	AME	TERS					_
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Client: Client Address: Client Address: Client Phone No.		ey C	Sampler Name: Client No.:	#	96	052-17			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	Metals	Anion		th H/P		8.1)	A 出				Sool	1
Sample No./	Sample	Sample Time	1717129 E 10	S	<u>/03100</u> ample Matrix	No./Volume of Containers			гРН (Ме	STEX (N	VOC (ME	RCRA 8 Metals	Cation / Anion	PC.	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	to the later of
RESET CUTTING	08.03.11	PM 13:00	59171	Soll Solid	Sludge Aqueous	1/402 AAR			X	X							X	X				Ÿ	Y
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		L
				Soil Solid	Sludge Aqueous																		
Rush BRO	ER_			Soil Solid	Sludge Aqueous																		_
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E-177A1				Soil Solid	Sludge Aqueous																		
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