District 1 1625 N French Dr., Hobbs, NM 88240

1625 N French Dr., Hobbs, NM 88240

District II
1301 W Grand Ave., Artesia, NM 88210

District III
1000 Rio Brazos Rd , Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

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

 $\begin{array}{c} \text{Form C-}144 \\ \text{July 21, 2008} \\ \end{array}$ For temporary pits, closed-loop sytems, and below-grade

tanks, submit to the appropriate NMOCD District Office

1000 Rio Bi District IV	razos Rd , Aztec, NM 87410	Santa Fe, NM 8750	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	Di Cl. 11 C. 5	appropriate NMOCD District Office.
	Th	Pit, Closed-Loop System, Belo	
, Q	Prop	osed Alternative Method Permi	t or Closure Plan Application
911	Type of action:	Permit of a pit, closed-loop system, be	low-grade tank, or proposed alternative method
۱ ₀ '		X Closure of a pit, closed-loop system, be	elow-grade tank, or proposed alternative method
V		Modification to an existing permit	
		Closure plan only submitted for an exi- below-grade tank, or proposed alternat	sting permitted or non-permitted pit, closed-loop system, ive method
Instru	ctions: Please submit one d	application (Form C-144) per individual pit	, closed-loop system, below-grade tank or alternative request
			ld operations result in pollution of surface water, ground water or the her applicable governmental authority's rules, regulations or ordinances
1 Operator:	Burlington Resources O	vil & Gas Company, LP	OGRID#: 14538
-	PO Box 4289, Farmingt		11000
	or well name: SCOTT 7M		
API Nun			ermit Number:
U/L or O			
`	Proposed Design: Latitud		ange: 10W County: San Juan own NAD: 1927 X 1983
Surface C	_ ·		ust or Indian Allotment
Surrace C	Tederal Pederal		ust of Indian Amountent
Line	nanent Emergency X d Unlined I g-Reinforced		LLDPE HDPE PVC Other me:bbl Dimensions Lx Wx D
	Nosed-loop System: Subsection: P&A	ction H of 19.15.17 11 NMAC Drilling a new well Workover or Drilling notice of intent)	g (Applies to activities which require prior approval of a permit or
Пр	rying Pad Above Gro	und Steel Tanks Haul-off Bins Othe	LLDPE HDPE PVD Other RECEIVED
=		<u> </u>	LLDPE HDPE PVD Other 718 19202
Liner Se	<u> </u>	Factory Other	\$0 Per 1000
-			RECEIVED
4 Re	low-grade tank: Subsection	I of 19.15.17.11 NMAC	E SEP 2010
Volume		bbl Type of fluid:	OIL CONS DIV DIS
	onstruction material:		a lift and automatic overflow shut-off Other
	ondary containment with leak d	letection Visible sidewalls liner 6-inch	n lift and automatic overflow shut-off
느	isible sidewalls and liner	Visible sidewalls only Other	123456
Liner T	· L	mil HDPE PVC	Other
5 A1	ternative Method:		
Submitt	al of an exception request is re	quired. Exceptions must be submitted to the Sant	ta Fe Environmental Bureau office for consideration of approval.

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: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	deration of app	roval.		
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.		i		
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)	Yes NA	No		
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. 	Yes	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 ChecklistSubsection 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
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17.13 NMAC
Crossic Film based upon the appropriate requirements of subsection 6 of 17/15/17/5 (1/17/6 and 17/15 17/15) (1/17/6
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)
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 1 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 3 of 5

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions Please identify the facility or facilities for the disposal of liquids, drilling facilities are required.	Tanks or Haul-off Bins Only: (19 15.17.13.D NMAC) unds and drill cuttings Use attachment if more than two			
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI	visposal Facility Permit #: NM-01-0011 / NM-01-0	010B		
Disposal Facility Name: Basin Disposal Facility	Pisposal Facility Permit #: NM-01-005			
Will any of the proposed closed-loop system operations and associated activiti Yes (If yes, please provide the information No	es occur on or in areas that will nbe used for future	service and		
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 Reccertain siting criteria may require administrative approval from the appropriate district office or mosfice for consideration of approval. Justifications and/or demonstrations of equivalency are requi	ay be considered an exception which must be submitted to the Sa			
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 obtain	ned from nearby wells	Yes No		
Ground water is between 50 and 100 feet below the bottom of the buried waste		☐Yes ☐No		
- NM Office of the State Engineer - iWATERS database search; USGS, Data obtain	ned from nearby wells	□N/A		
Ground water is more than 100 feet below the bottom of the buried waste.		☐Yes ☐No		
- NM Office of the State Engineer - iWATERS database search, USGS; Data obtain	ned from nearby wells	□ N/A		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark).	ant watercourse or lakebed, sinkhole, or playa lake	Yes No		
- Topographic map, Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in e. - Visual inspection (certification) of the proposed site, Aerial photo; satellite image	xistence at the time of initial application.	∐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				
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 obtain Within 500 feet of a wetland William William Welland Heart Continuous Transport in the province of the second William Welland Heart Continuous Transport in the province of the prov	Yes No			
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspetitions with the area overlying a subsurface mine. 	□ves □No			
- Written confiramtion or verification or map from the NM EMNRD-Mining and M	meral Division			
Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mil	neral Resources; USGS, NM Geological Society,	Yes No		
Topographic map				
Within a 100-year floodplain FEMA map		YesNo		
On-Site Closure Plan Checklist: (19.15 17.13 NMAC) Instructions: Each	of the following items must be a attracked to the ele-	guva plan. Plagga indicata		
by a check mark in the box, that the documents are attached.	, your oou amacine to the city.	p evado mentonto,		
Siting Criteria Compliance Demonstrations - based upon the appropriat	e 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				
Yerotocols 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				
X 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 1 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.
Nama (Print)
Signature: Date:
e-mail address: Telephone:
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2/06/2012
A Province of the second of th
Title: OCD Permit Number:
Closure Report (required within 60 days of closure completion): 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: 9/3/2009
22
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.
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 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:
Site 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. 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: Longitude: NAD 1927 1983
On-site closure Eocation Latitude
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): Marig E. aramillo // Title: Staff Regulatory Technician
Signature: Date:
e-mail address: marie.e.jaramillb@donocophillips.com Telephone: 505-326-9865

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	ND
TPH	EPA SW-846 418.1	2500	28.9
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	500	25

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.

SCOTT 7M API# 30-045-34942 PERMIT# 6919 RESULTS/SAMPLES

Scott 7m

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·	ND
TPH	EPA SW-846 418.1	2500	28.9
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA,300.1.	500	25

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).
- 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 impollution 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.

From:

Jaramillo, Marie E

Sent:

Monday, April 05, 2010 9:52 AM

To:

'Powell, Brandon, EMNRD'

Subject:

SCOTT 7M_CL CAVITATION PRESET LAB RESULTS

Brandon, please find attached the results of the testing on the spud cuttings from the SCOTT 7M Cuttings will be dispersed on location on 09/02/2009.

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	N/D
BTEX	EPA SW-846 8021B or 8260B	50	N/D
TPH	EPA SW-846 418.1	2500	28.9
GRO/DRO	EPA SW-846 8015M	500	N/D
Chlorides	EPA 300.1	500	25

Marie Jaramillo Staff Regulatory Tech. ConocoPhillips Office # (505) 326-9865 Fax # (505) 599-4062

mailto:marie.e.jaramillo@conocophillips.com



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Preset Cuttings	Date Reported:	09-08-09
Laboratory Number:	51535	Date Sampled:	09-03-09
Chain of Custody No:	6278	Date Received:	09-03-09
Sample Matrix:	Soil	Date Extracted:	09-03-09
Preservative:	Cool	Date Analyzed:	09-04-09
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:

Scott 7M

Analyst

Aristum Walters Review



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Mustum Walters
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	09-04-09 QA/QC	Date Reported:	09-08-09
Laboratory Number:	51508	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-04-09
Condition:	N/A	Analysis Requested:	TPH

		SECOLAR .	Callais	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0821E+003	1.0825E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.4473E+002	9.4511E+002	0.04%	0 - 15%

Elanik Connectino Italian (MOXIVI)	e proportion as	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

		Displicate 5	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Since Pends (malky)		STIKE/AUTER	Sjolke (Kesull)	7/a PCeutovajny	Accept Range
Gasoline Range C5 - C10	ND	250	254	102%	75 - 125%
Diesel Range C10 - C28	ND	250	230	92.0%	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 51508 - 51510, 51512 - 50513, 51522, 51532, and 51535.

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-0026
Sample 1D:	Preset Cuttings	Date Reported:	09-08-09
Laboratory Number:	51535	Date Sampled:	09-03-09
Chain of Custody:	6278	Date Received:	09-03-09
Sample Matrix:	Soil	Date Analyzed:	09-04-09
Preservative:	Cool	Date Extracted:	09-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	0.9	
Toluene	ND 14D	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	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:

Scott 7M

Analyst

Muster Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-04-BT QA/QC	Date Reported:	09-08-09
Laboratory Number:	51508	Date Sampled.	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-04-09
Condition:	N/A	Analysis:	BTEX

Calibration and Defection Limits (ug/L)	Control of the Control of the Control	E-Cal RF Accept Rand		Blank Conc	Detect - Limit
Benzene	2.4787E+006	2.4837E+006	0.2%	ND	0.1
Toluene	2.3146E+006	2.3193E+006	0.2%	ND	0.1
Ethylbenzene	2.0442E+006	2.0483E+006	0.2%	ND	0.1
p,m-Xylene	5.3015E+006	5.3121E+006	0.2%	ND	0.1
o-Xylene	1.9658E+006	1 9698E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Fg)	Semilore - Pro-	plicate	%Diff	Accept Range	Detect Limit	
Benzene	ND	ND	0.0%	0 - 30%	0.9	
Toluene	ND	ND	0.0%	0 - 30%	1.0	
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0	
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2	
o-Xylene	ND	ND	0.0%	0 - 30%	0.9	

Sвідріє — Апо	tim:Spikee Spik	ed Sample	We Recovery	Accept Range
ND	50.0	49.5	99.0%	39 - 150
ND	50.0	49.1	98.2%	46 - 148
ND	50.0	48.5	97.0%	32 - 160
ND	100	102	102%	46 - 148
ND	50.0	43.0	86.0%	46 - 148
	ND ND ND ND	ND 50.0 ND 50.0 ND 50.0 ND 100	ND 50.0 49.5 ND 50.0 49.1 ND 50.0 48.5 ND 100 102	ND 50.0 49.1 98.2% ND 50.0 48.5 97.0% ND 100 102 102%

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 51508 - 51514, 51522, 51532, and 51535.

Re

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Conoco Phillips	Project #:	96052-0026
Sample ID:	Preset Cuttings	Date Reported:	09-08-09
Laboratory Number:	51535	Date Sampled:	09-03-09
Chain of Custody No:	6278	Date Received:	09-03-09
Sample Matrix:	` Soil	Date Extracted:	09-04-09
Preservative:	Cool	Date Analyzed:	09-04-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons 28.9 17.3

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:

Scott 7M



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	09-08-09
Laboratory Number:	09-04-TPH.QA/QC 51533	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	09-04-09
Preservative:	N/A	Date Extracted:	09-04-09
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	08-25-09	09-04-09	1,440	1,540	6.95%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	17.3

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
ТРН	809	832	2.86%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	809	2,000	2,890	103%	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 51533 and 51535.



Chloride

Client: ConocoPhillips Project #: 96052-0026 09-08-09 **Preset Cuttings** Date Reported: Sample ID: Lab ID#: 51535 Date Sampled: 09-03-09 `Sample Matrix: Soil Date Received: 09-03-09 09-05-09 Preservative: Date Analyzed: Cool Condition: Intact Chain of Custody: 6278

Parameter

Concentration (mg/Kg)

Total Chloride

25

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:

Scott 7M.

Analyst

DATE: 2/01/12

WELL NAME: SCOTT 7M

API# 30-045-34942 PERMIT #: 6919

MISSING DATA: COPY OF CLOSURE NOTIFICATION – NOT NEEDED CL