District 1

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

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505			appropriate NMOCD District (
	Pit, Closed-Loop Syster	n, Below-Gra	ide Tank, or	
Type of action:	sed Alternative Method	Permit or Clo	osure Plan Applicat	<u>ion</u>
Type of action:	Permit of a pit, closed-loop sys	stem, below-grade t	tank, or proposed alternative	e method
)•	X Closure of a pit, closed-loop sy		·	
	Modification to an existing per	rmit		
	Closure plan only submitted for below-grade tank, or proposed			losed-loop system,
Instructions: Please submit one ap				nk or alternative request
Please be advised that approval of	this request does not relieve the operator of leve the operator of its responsibility to comply	liability should operations	s result in pollution of surface water,	ground water or the
Operator: Burlington Resources Oil	& Gas Company, LP		OGRID#: 14538	
Address: PO Box 4289, Farmington				
Facility or well name: Grenier A 3N				
API Number: 30-	045-35421	OCD Permit Number	er:	
U/L or Qtr/Qtr: A(NE/NE) Section	n: <u>34</u> Township <u>30N</u>	Range:1	10W County: San Ju	an
Center of Proposed Design: Latitude:		Longitude:	107.86544 °W N	NAD: 🔲 1927 🗶 1983
Surface Owner: X Federal	State Private T	ribal Trust or India	ın Allotment	
String-Reinforced	over ·	LLDPE Volume:	HDPE PVC Other	RCVD OCT 31'13 OIL CONS. DIV. DIST. 3 *** ***
Type of Operation: P&A Drying Pad Above Groun Lined Unlined Liner	notice of int	tent) Other	o activities which require prior	approval of a permit or
4 Volume: bb Tank Construction material: Secondary containment with leak det Visible sidewalls and liner Liner Type: Thickness	ection Visible sidewalls, line	other	omatic overflow shut-off	
5 Alternative Method: Submittal of an exception request is requ	uired. Exceptions must be submitted to	o the Santa Fe Enviro	onmental Bureau office for con	sideration of approval.

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Oil Conservation Division

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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, inst Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	itution or chu	rch)
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 cons (Cavitation pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	oproval.
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	Yes	No
 Written confirmation or verification from the municipality: Written approval obtained from the municipality 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 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			
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			
Critified 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)			
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)			
Disposal Facility Name and Permit Number (for Inquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC			

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NM Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than	IAC)	
facilities are required. Disposal Facility Name: Favirates / IELL on Aform 0/ IEL Disposal Facility Parmit #- NIM 01 0011 / NIM 01.	00100	
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #: NM-01-0011 / NM-01-005 Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #: NM-01-005	<u> </u>	
Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #: NM-01-005 Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future and provide the information No	re 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 NI 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	MAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided be certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	Yes No	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application.	Yes No	
 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 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 confirantion 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 Burcau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No	
Within a 100-year floodplain FEMA map	Yes No	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the clindicate, by a check mark in the box, that the documents are attached.	osure plan. Please	
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC		
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC X 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 NM	AC	
X 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		

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19 Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:
20 OCD Approval: Permit Application (including closure plan) Costre Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: U5/20/3 Title: OCD Permit Number:
21
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: 12/18/2012
Closure Method: Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and opeartions? - Yes (If yes, please demonstrate compliant to the items below) - No
Required for impacted areas which will not be used for future service and operations:
Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark
in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude: Longitude: NAD 1927 1983
25 Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Denise Journey Title: Regulatory Technician
Signature: Date: 10/28/2013
e-mail address: Denise.Journey@conocophillips.com Telephone: 505-326-9556



Report Summary

Client: ConocoPhillips

Chain of Custody Number: 6302

Samples Received: 12-17-12

Job Number: 96052-1706

Sample Number(s): 63995

Project Name/Location: Grenier A 3N/ MOTE 212

Entire Report Reviewed By:

_ Date: 12/19/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

		4	
Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Pre-Set Cuttings	Date Reported:	12-18-12
Laboratory Number:	63995	Date Sampled:	12-17-12
Chain of Custody No:	6302	Date Received:	12-17-12
Sample Matrix:	Soil	Date Extracted:	12-17-12
Preservative:	Cool	Date Analyzed:	12-17-12
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	

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:

Grenier A 3N / Mote 212



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

% Difference Accept. Range.

0 - 30%

0 - 30%

0.0%

3.3%

Client:	QA/QC		Project #:		N/A
Sample ID:	1217TCAL QA/QC		Date Reported:		12-18-12 ⁻
Laboratory Number:	63934		Date Sampled:		N/A
Sample Matrix:	Methylene Chloride		Date Received:		N/A
Preservative:	N/A		Date Analyzed:		12-17-12
Condition:	N/A		Analysis Reques	ted:	TPH
Gasoline Range C5 - C10 Diesel Range C10 - C28 Blank Conc. (mg/L - mg/	12-17-12 1. 12-17-12 1	-Cal RF: .0439E+03 .0181E+03	1.0443E+03 1.0185E+03	6 Difference 0.04% 0.04% effection Limi	0 - 15% 0 - 15%
Gasoline Range C5 - C10	in man in the second of the se	ND	E. C. Same Busines de Christian (S.)	0.2	G.
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbor	าร	ND			
				•	

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	5.6	250	291	114%	75 - 125%
Diesel Range C10 - C28	9.2	250	250	96.3%	75 - 125%

Duplicate

5.6

8.9

ND - Parameter not detected at the stated detection limit.

References:

Duplicate Conc. (mg/Kg)

Gasoline Range C5 - C10

Diesel Range C10 - C28

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating

Solid Waste, SW-846, USEPA, December 1996.

Sample

5.6

9.2

Comments:

QA/QC for Samples 63828, 63934-63939, 63973 and 63995.



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	Co	oncentration	Det. Limit
<u> </u>	1	Dilution:	50
Condition:	Intact	Analysis Requested:	BTEX
Preservative:	Cool	Date Extracted:	12-17-12
Sample Matrix:	Soil	Date Analyzed:	12-17-12
Chain of Custody:	6302	Date Received:	12-17-12
Laboratory Number:	63995	Date Sampled:	12-17-12
Sample ID:	Pre-Set Cuttings	Date Reported:	12-18-12
Client:	ConocoPhillips	Project #:	96052-1706
•			

	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
_			
Benzene	ND	10.0	
Toluene	ND	10.0	
Ethylbenzene	ND	10.0	
p,m-Xylene	ND	10.0	
o-Xylene	ND	10.0	

Total BTEX ND

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.5 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	98.4 %

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: Grenier A 3N / Mote 212



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition: Calibration and Detection Limits (ug/L)		D D D D A	roject #: ate Reported: ate Sampled: ate Received: ate Analyzed: nalysis: ilution:	N// N// 12	-18-12 4
Benzene Toluene Ethylbenzene	9.3982E-06 9.6605E-06 1.3072E-05	9.3982E-06 9.6605E-06 1.3072E-05	0.000 0.000 0.000	ND ND ND	0.2 0.2 0.2
p,m-Xylene o-Xylene	1.1363E-05 1.4180E-05	1.1363E-05 1.4180E-05	0.000	ND ND	0.2 0.2
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	Sample: ND ND ND ND ND ND ND	Duplicate ND ND ND ND ND ND	%Diff. A 0.00 0.00 0.00 0.00 0.00	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	Detect: Limit 13 10 10 10 10 10
Spike Conc. (ug/Kg)	Sample , A	mount Spiked	Spiked Sample	· % Recovery	Accept Range
Benzene	ND	2500	2030	81.2	39 - 150
Toluene	ND	2500	2320	92.8	46 - 148
Ethylbenzene	ND	2500	2140	85.6	32 - 160
p,m-Xylene	ND	5000	3950	79.0	46 - 148
o-Xylene	ND	2500	1970	78.8	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:

5796 US Highway 64, Farmington, NM 87401

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 63828, 63937-63939 and 63995-63996.

Ph (505) 632-0615 Fx (505) 632-1865

enviroted)-inccom laboratory@envirotech-laccom



TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Pre-Set Cuttings	Date Reported:	12-18-12
Laboratory Number:	63995	Date Sampled:	12-17-12
Chain of Custody No:	6302	Date Received:	12 - 17-12
Sample Matrix:	Soil	Date Extracted:	12-18-12
Preservative:	Cool	Date Analyzed:	12-18-12
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

121

13.4

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: Grenier A 3N/ MOTE 212

Ph (505) 632-0615 Fx (505) 632-1865

anylioted)-fiscom leboratory@envirotech-incom



TOTAL PETROLEUM HYDROCARBONS **QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

12-18-12

Laboratory Number:

12-18-TPH.QA/QC 63898 Freon-113

Date Sampled: Date Analyzed: N/A

Sample Matrix: Preservative:

N/A

Date Extracted:

12-18-12 12-18-12

Condition:

N/A

Analysis Needed:

TPH

Calibration :

I-Cal Date 11-15-12 C-Cal Date 12-18-12

1,680

1,720

2.4%

C-Cal RF: / % Difference Accept Range +/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

TPH

ND

13.4

Duplicate Conc. (mg/Kg)

Sample:

Duplicate:

% Difference

Accept: Range

TPH

TPH

10,800

12,100

12%

+/- 30%

Spike Conc. (mg/Kg)

Sample. 10,800 Spike Added Spike Result * 2,000

9,680

% Recovery 75.6%

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 63898-63907, 63995.

Note:

5796 US Highway 64, Farmington, NM 87401

* Outside Acceptance Range



Chloride

Client: ConocoPhillips Project #: 96052-1706 Sample ID: Pre-Set Cuttings Date Reported: 12-18-12 Lab ID#: 63995 Date Sampled: 12-17-12 Soil Sample Matrix: Date Received: 12-17-12 Preservative: Cool Date Analyzed: 12-18-12 Condition: Chain of Custody: Intact 6302

Parameter

Concentration (mg/Kg)

Total Chloride

24.2

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:

Grenier A 3N/ MOTE 212

CHAIN OF CUSTODY RECORD

	Client: Well Name/ Rig: Grenier A 3N / MOTE 212 Engineer: Cara Blais Network #: 10343094 Client Address: Recular Flant: HZF3 ConocoPhillips Recular Flant: HZF3 Analysis / Parameters Analysis / Parameters																							
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Burlington Resources Oil & Gas Company, LP Cavitation Pit for Closed-Loop Locations GRENIER A 3N / 30-045-35421

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	121
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	500	24.2

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.