

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Burlington Resources Telephone: (505) 326-9841 e-mail address: LHasely@br-inc.com
Address: 3401 East 30th Street, Farmington, New Mexico, 87402
Facility or well name: Jicarilla 101 No. 1A API #: 30039218410000 U/L or Qtr/Qtr I Sec 1 T 26N R 4W
County: Rio Arriba Latitude 36.51326 Longitude -107.19773 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☒

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☐

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume _____ bbl

Below-grade tank

Volume: 60 bbl Type of fluid: Produced Water and Incidental Oil

Construction material: Fiberglass

Double-walled, with leak detection? Yes ☐ If not, explain why not.

No. Tank in place prior to Rule 50.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)	
	No	(0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	20
Ranking Score (Total Points)			20

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility TNT Environmental. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

Maximum reasonable extent of excavation occurred at 12' BGS, encountered sandstone.

BTEX Lab Analysis attached.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 12/19/06

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

Signature Ed Hasely

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: Bob Roll DIST. IV

Printed Name/Title _____ Signature Bob Roll

Date: DEC 28 2006

CLIENT: <u>Burlington Resources</u>	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	LOCATION NO: _____ C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>Jicarilla 101</u> WELL #: <u>1A</u> PIT: QUAD/UNIT: <u>I</u> SEC: <u>1</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NMPM</u> CNTY: <u>Alameda</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1820' FSL</u> <u>1185' FEL</u> CONTRACTOR: <u>LOR</u>	DATE STARTED: <u>11/1/06</u> DATE FINISHED: <u>11/3/06</u> ENVIRONMENTAL SPECIALIST: <u>MPM</u>
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EXCAVATION APPROX. <u>14</u> FT. x <u>17</u> FT. x <u>12</u> FT. DEEP.	CUBIC YARDAGE: <u>120 yd³</u>	
DISPOSAL FACILITY: <u>TNT Environmental</u>	REMEDIATION METHOD: <u>Landfill/Biopile</u>	
LAND USE: _____	LEASE: <u>09-000101</u>	FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>143'</u> FT. <u>65°</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>8</u>	NEAREST WATER SOURCE: <u>8</u> NEAREST SURFACE WATER: <u>20</u>
NMDCD RANKING SCORE: <u>20</u>	NMDCD TPH CLOSURE STD: <u>100</u> PPM
SOIL AND EXCAVATION DESCRIPTION: CHECK ONE : ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED	

11/1 Wellsite is on Jicarilla-Apache land, closure will have to be under 100 ppm.

Fiberglass B&T - Encountered sandstone 12' B&S. Will need environmental excavation.

11/3 Slight discoloration present in NE corner approx 9' B&S, not representative of excavated area. BTEX Sample taken @ 12' B&S.

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1136	Bottom 12'	1	5	20	10	0.054	3750
1142	Wall, Comp	1	5	20	1	0.0126	87.4

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 12' B&S	966
2	
3	
4	
5	

PIT PROFILE

w = Wall, Comp
y = Bottom.

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Burlington Resources
Sample No.: 1
Sample ID: Bottom @ 12' BGS
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

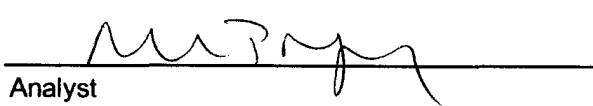
Project #: 92115-046-058
Date Reported: 11/6/2006
Date Sampled: 11/3/2006
Date Analyzed: 11/3/2006
Analysis Needed: TPH-418.1

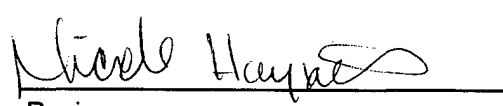
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,750	50.0

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: Jicarilla 101 No. 1A


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Burlington Resources
Sample No.: 2
Sample ID: Walls, Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

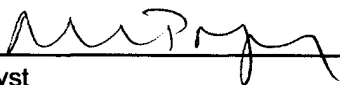
Project #: 92115-046-058
Date Reported: 11/6/2006
Date Sampled: 11/3/2006
Date Analyzed: 11/3/2006
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	87.4	5.0

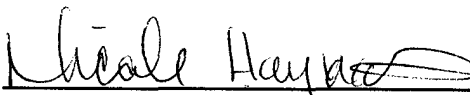
ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla 101 No. 1A



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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Burlington Resources	Project #:	92115-046-058
Sample ID:	QA/QC	Date Reported:	11/6/2006
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	11/3/2006
Preservative:	N/A	Date Extracted:	11/3/2006
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	05-22-04	11/3/2006	1,735	1,639	5.5%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,471	2,352	4.8%	+/- 30%

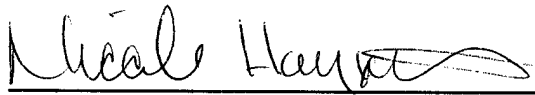
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	2,471	2,000	5,030	112.5%	80 - 120%

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 Jicarilla 101 No. 1A


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-046-058
Sample ID:	Bottom @ 12'	Date Reported:	11-07-06
Laboratory Number:	39036	Date Sampled:	11-03-06
Chain of Custody:	1658	Date Received:	11-03-06
Sample Matrix:	Soil	Date Analyzed:	11-06-06
Preservative:	Cool	Date Extracted:	11-05-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	496	1.8
Toluene	3,000	1.7
Ethylbenzene	2,050	1.5
p,m-Xylene	12,400	2.2
o-Xylene	4,460	1.0
Total BTEX	22,400	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Jicarilla 101 #1A.


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-06-BTEX QA/QC	Date Reported:	11-07-06
Laboratory Number:	39031	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-06-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	4.4777E+007	4.4867E+007	0.2%	ND	0.2
Toluene	5.4580E+007	5.4689E+007	0.2%	ND	0.2
Ethylbenzene	2.3673E+007	2.3721E+007	0.2%	ND	0.2
p,m-Xylene	1.0086E+008	1.0106E+008	0.2%	ND	0.2
o-Xylene	4.5857E+007	4.5948E+007	0.2%	ND	0.1

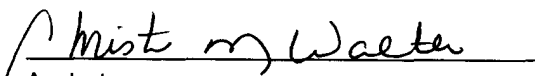
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	2.1	2.1	0.0%	0 - 30%	1.8
Toluene	3.2	3.1	3.1%	0 - 30%	1.7
Ethylbenzene	2.4	2.4	0.0%	0 - 30%	1.5
p,m-Xylene	6.6	6.5	1.5%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

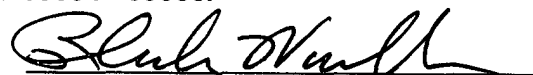
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.1	50.0	52.1	100.0%	39 - 150
Toluene	3.2	50.0	53.1	99.8%	46 - 148
Ethylbenzene	2.4	50.0	52.2	99.6%	32 - 160
p,m-Xylene	6.6	100	106	99.1%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 39031 - 39032 and 39034 - 39036.


Analyst


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