

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

Form C-144
June 1, 2004

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

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: <u>Burlington Resources</u> Telephone: <u>(505) 326-9841</u> e-mail address: <u>LHasely@br-inc.com</u>		
Address: <u>3401 East 30th Street, Farmington, New Mexico, 87402</u>		
Facility or well name: <u>San Juan 28-5 Unit 88M</u>	API #: <u>30039238560000</u>	U/L or Qtr/Qtr <u>E</u> Sec <u>15</u> T <u>28N</u> R <u>5W</u>
County: <u>Rio Arriba</u>	Latitude <u>N36d 39.8'</u>	Longitude <u>W107d 21.2'</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
Pit Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u> </u> mil Clay <input type="checkbox"/> Pit Volume <u> </u> bbl	Below-grade tank Volume: <u>95</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes <input checked="" type="checkbox"/> If not, explain why not <u> </u>	
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) 10
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) 10
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 . (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:

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: 8/12/06

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.

DEPUTY OIL & GAS INSPECTOR, DIST. 23

Approval:

Printed Name/Title

Signature Brenda Ford

Date: AUG 23 2006

CLIENT: <u>Burlington Resources</u>	ENVIROTECH INC. <small>ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615</small>	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>San Juan 28-5</u> WELL #: <u>88M</u> PIT: _____ QUAD/UNIT: <u>E</u> SEC: <u>15</u> TWP: <u>28N</u> RNG: <u>5W</u> PM: <u>NMPM</u> CNTY: <u>Ariz</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1840' FNL</u> <u>815' FWL</u> CONTRACTOR: <u>LJR</u>	DATE STARTED: <u>12/13/05</u> DATE FINISHED: <u>12/15/05</u> ENVIRONMENTAL SPECIALIST: <u>MPM</u>
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EXCAVATION APPROX. 32 FT. x 35 FT. x 13 FT. DEEP. CUBIC YARDAGE: 500 yd³

DISPOSAL FACILITY: On-site REMEDIATION METHOD: Landfarm

LAND USE: _____ LEASE: NMSF 079250 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 43' FT. 120° FROM WELLHEAD.

DEPTH TO GROUNDWATER: 10 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 10

NMOCB RANKING SCORE: 20 NMOCB TPH CLOSURE STD: 100 PPM

CHECK ONE:
☐ PIT ABANDONED
☒ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

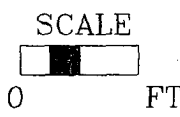
N36° 39.8'
 W107° 21.2'

During initial excavation of 95' bbl BGT, encountered assorted sandstone boulders. Also encountered contamination approximately 1.5' BGS.

12/15 Shale encountered 13' BGS. Large sandstone boulder makes up east wall. Minimal staining present in southeast corner, approximately 1 ft² size.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
0925	Bottom @ 13'		5	20	1	0.0112	81.9
0935	Walls Comp					0.0132	
0935	Walls (Comp)		5	20	1	0.0132	91.6



PIT PERIMETER

OVM RESULTS

PIT PROFILE

SAMPLE ID	FIELD HEADSPACE P10 (ppm)
13' below	68 ppm
213' depth	0 ppm
Test hole	
4 3' depth	97 ppm
5	
Walls Comp	21
Bottom	5

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

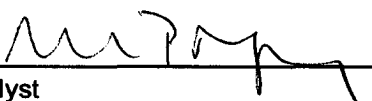
Client:	Burlington Resources	Project #:	92115-046-054
Sample No.:	1	Date Reported:	12/15/2005
Sample ID:	Bottom @ 13' (Shale)	Date Sampled:	12/15/2005
Sample Matrix:	Soil	Date Analyzed:	12/15/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	81.9	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 28-5 Unit 88M**



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Burlington Resources
Sample No.: 2
Sample ID: Walls, 4 Pt Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-046-054
Date Reported: 12/15/2005
Date Sampled: 12/15/2005
Date Analyzed: 12/15/2005
Analysis Needed: TPH-418.1

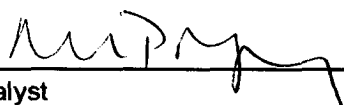
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	91.6	5.0
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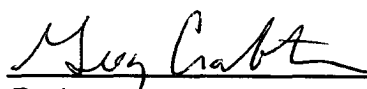
ND = Parameter not detected at the stated detection limit.

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

Comments: San Juan 28-5 Unit 88M



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Burlington Resources	Project #:	92115-046-054
Sample ID:	QA/QC	Date Reported:	12/15/2005
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	1/24/2005
Preservative:	N/A	Date Extracted:	1/24/2005
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	1/24/2005	1,735	1,613	7.0%	+/- 10%

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

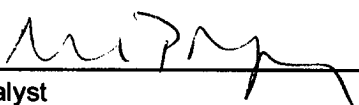
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,471	2,352	4.8%	+/- 30%

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

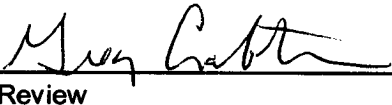
ND = Parameter not detected at the stated detection limit.

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

Comments: QA/QC for San Juan 28-5 Unit 88M



Analyst



Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

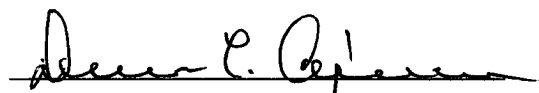
Client:	Burlington Resources	Project #:	92115-001-1179
Sample ID:	San Juan 28-5 #88M	Date Reported:	07-24-06
Laboratory Number:	37932	Date Sampled:	07-13-06
Chain of Custody No:	1179	Date Received:	07-20-06
Sample Matrix:	Soil	Date Extracted:	07-21-06
Preservative:	Cool	Date Analyzed:	07-24-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

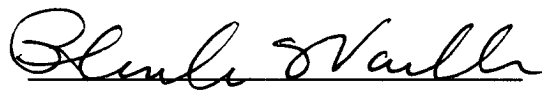
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.2	0.2
Diesel Range (C10 - C28)	21.1	0.1
Total Petroleum Hydrocarbons	21.3	0.2

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: (2006 Project) Landfarm PID 4.8


Analyst


Review