

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>Sharp No. 2</u> API #: <u>30045132190000</u> U/L or Qtr/Qtr <u>P</u> Sec <u>18</u> T <u>28N</u> R <u>8W</u>		
County: <u>San Juan</u> Latitude <u>36.65687</u> Longitude <u>-107.71667</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
Pit Type: Drilling <input type="checkbox"/> Production <input 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 _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Below-grade tank Volume: <u>60</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>No. Tank in place prior to Rule 50.</u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 20
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) 20
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 20
Ranking Score (Total Points)		60

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:
Maximum Practical Extent of Excavation Reached at 8'-12' Depth, Encountered <u>Sandstone</u>
BTEX Lab Analysis Attached.
Soil landfarmed on same lease <u>(Sharp #300)</u>
Excavation treated with potassium permanganate-urea nitrate solution prior to backfill

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: 5/5/05

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

Signature [Signature]

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:

Printed Name/Title _____

Signature [Signature]

Date: _____

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE (505) 832-0815

LOCATION: NAME	Sharp	WELL #.	2	PIT		DATE STARTED	4/4/05	
QUAD/UNIT	P SEC 18 TWP 28N	RNG	8W	PM	CNTY:	ST	DATE FINISHED	4/14/05
GTR/FOOTAGE		CONTRACTOR	LOR				ENVIRONMENTAL SPECIALIST	MEM

EXCAVATION APPROX _____ FT X _____ FT X _____ FT DEEP CUBIC YARDAGE: _____

DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____

LAND USE: _____ LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 63 FT 180 FROM WELLHEAD.

DEPTH TO GROUNDWATER: 20 NEAREST WATER SOURCE 20 NEAREST SURFACE WATER 20

NMOC RANKING SCORE: 60 NMOC TPH CLOSURE STD: 100 PPM

CHECK ONE

SOIL AND EXCAVATION DESCRIPTION:

PIT ABANDONED

☒ STEEL TANK: INSTALLED

Soil is very gray from beneath pit to. There is a water well located on same pad. Les Hogner on site. To the North is a pond within 100'. Informed Les Hogner of results.

FIELD 418.1 CALCULATIONS

FIELD 410.1 CALCULATIONS							
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

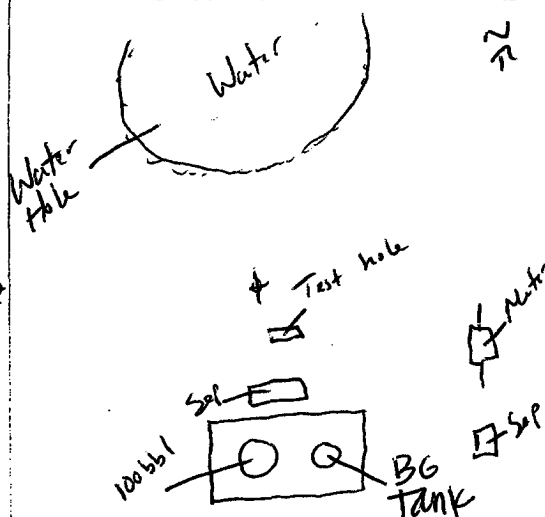


0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES

ON-SITE

CLIENT: _____

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: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 2 of 2

LOCATION: NAME: SharpWELL #: 2PIT: _____

DATE STARTED: 4/4/05DATE FINISHED: 4/4/05

QUAD/UNIT: _____SEC: _____TWP: _____RNG: _____PM: _____CNTY: _____ST: _____

QTR/FOOTAGE: _____CONTRACTOR: M&M

ENVIRONMENTAL SPECIALIST: MPM

EXCAVATION APPROX 120 FT. x 166 FT. x 9 FT. DEEP. CUBIC YARDAGE: 1200

DISPOSAL FACILITY: LF on same leaseREMEDIAATION METHOD: _____

LAND USE: _____LEASE: _____FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY _____ FT. _____ FROM WELLHEAD.

DEPTH TO GROUNDWATER: _____NEAREST WATER SOURCE: _____NEAREST SURFACE WATER: _____

NMOCB RANKING SCORE: _____NMOCB TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: _____

CHECK ONE :
PIT ABANDONED
STEEL TANK INSTALLED

4/14 Excavated area ready for sampling. Bottom is a sandstone / gypsum bottom. All walls passed below 100 ppm. BTEX sample taken from bottom. Will need to spray with potassium permanganate.

1520 Bottom1555 Wall A1530 Wall B1530 Wall C1530 Wall D

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1455	Wall A	1	5	20	1	0.0048	33.3
1505	Wall B	5	5	20	1	0.0022	15.3
1515	Wall C	1	5	20	1	0.0082	56.9
1530	Wall D	5	5	20	1	0.0036	25

SCALE

0 FT

PIT PERIMETER

RESULTS

PIT PROFILE

66

12

60

x = Wall B

o = Wall C

□ = Wall A

* = Wall D

Δ = Bottom

Δ = Also BTEX Sample

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 Wall A	5 ppm
2 Wall B	3 ppm
3 Wall C	28 ppm
4 Bottom	328 ppm
5	

SAMPLE ID	ANALYSIS	TIME

66

60

66

A

B

C

D

Bottom

TRAVEL NOTES: _____

CALLOUT: _____

ONSITE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Burlington Resources
Sample No.: 1
Sample ID: Wall A, 5 Pt Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-021-053
Date Reported: 4/18/2005
Date Sampled: 4/14/2005
Date Analyzed: 4/14/2005
Analysis Needed: TPH-418.1

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

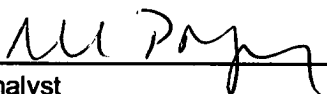
33.3

5.0

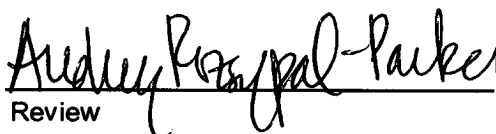
ND = Parameter not detected at the stated detection limit.

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

Comments: **Sharp # 2**



Analyst



Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Burlington Resources
Sample No.: 2
Sample ID: Wall B, 5 Pt Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-021-053
Date Reported: 4/18/2005
Date Sampled: 4/14/2005
Date Analyzed: 4/14/2005
Analysis Needed: TPH-418.1

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

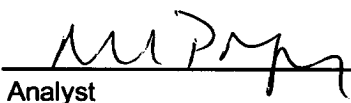
15.3

5.0

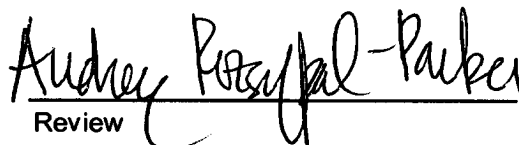
ND = Parameter not detected at the stated detection limit.

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

Comments: **Sharp # 2**



Analyst



Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Burlington Resources
Sample No.: 3
Sample ID: Wall C, 5 Pt Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-021-053
Date Reported: 4/18/2005
Date Sampled: 4/14/2005
Date Analyzed: 4/14/2005
Analysis Needed: TPH-418.1

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

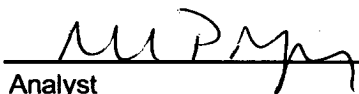
56.9

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: **Sharp #2**



Analyst



Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Burlington Resources
Sample No.: 4
Sample ID: Bottom, 5 Pt Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-021-053
Date Reported: 4/18/2005
Date Sampled: 4/14/2005
Date Analyzed: 4/14/2005
Analysis Needed: TPH-418.1

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


645

5.0

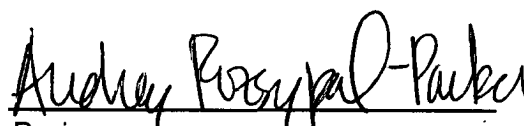
ND = Parameter not detected at the stated detection limit.

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

Comments: **Sharp # 2**



Analyst



Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Burlington Resources
Sample No.: 5
Sample ID: Wall D, 5 Pt Comp
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-021-053
Date Reported: 4/18/2005
Date Sampled: 4/14/2005
Date Analyzed: 4/14/2005
Analysis Needed: TPH-418.1

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

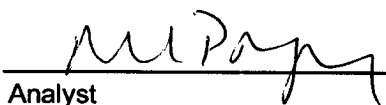
25.0

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: **Sharp # 2**



Analyst



Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-021-053
Sample ID:	Bottom @ 6'	Date Reported:	04-16-05
Laboratory Number:	32645	Date Sampled:	04-15-05
Chain of Custody:	13861	Date Received:	04-15-05
Sample Matrix:	Soil	Date Analyzed:	04-16-05
Preservative:	Cool	Date Extracted:	04-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	124	2.1
Toluene	581	1.8
Ethylbenzene	1,290	1.7
p,m-Xylene	6,030	1.5
o-Xylene	2,100	2.2
Total BTEX	10,130	

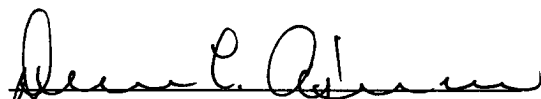
ND - Parameter not detected at the stated detection limit.

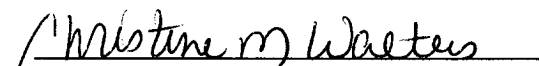
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Sharp No. 2.


Analyst


Review