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: Murphy D No. 4 API #: 30045268170000 U/L or Qtr/Qtr I Sec 27 T 30N R 11W
County: San Juan Latitude 36.78084 Longitude -107.9727 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**		
Type: Drilling ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume ____bbl	Volume: 40 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (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 No	(20 points) (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 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	10
	Ranking Score (Total Points)		10

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 your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Envirotech Landfarm 2 . (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:
Excavation Reached Bedrock

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: 3/18/05
Printed Name/Title Mr. Ed Hasely, Environmental Advisor Signature E 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:
Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. Signature Denny Foust Date: MAR 21 2005

CLIENT: Burlington Resources

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: 13650

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: Murphy D WELL #: 4 PIT:
QUAD/UNIT: I SEC: 27 TWP: 30N RNG: 11W PM: NMPM CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR: L&R

DATE STARTED: 2/24/05
DATE FINISHED: 3/7/05
ENVIRONMENTAL SPECIALIST: MPM

EXCAVATION APPROX. 30 FT. x 25 FT. x 8 FT. DEEP. CUBIC YARDAGE: 111 yd³
DISPOSAL FACILITY: Envirotech Landfarm 2 REMEDIATION METHOD: _____
LAND USE: _____ LEASE: NM 02758 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75 FT. 359° FROM WELLHEAD.
DEPTH TO GROUNDWATER: 0 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 10
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
___ PIT ABANDONED
✓ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

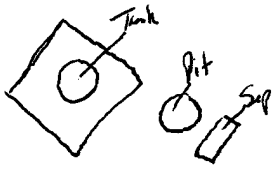
Location very muddy. Appears to be sandstone bottom at 8'. ~~Fed~~ S/W Los, he said to have L&R crew dig. Passed both TPH.
BTEX sample taken @ 8' depth.
Excavation filled with on site material.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1510	4 Pt of Walls		5	20	1	0.033	229 ppm Δ
1530	5 Pt of Bottom		5	20	1	0.098	680 ppm □

SCALE
0 FT

PIT PERIMETER



8' total depth

Meter Hose

OVM RESULTS

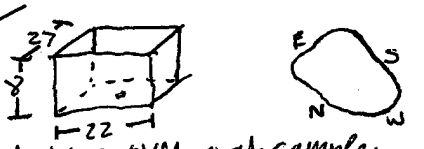
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 3' below	628 ppm
2 N. Wall	267
3 E. Wall	~~338~~ 338
4 S. Wall	53
5 W. Wall	73
4 Pt Walls	173 Δ
5 Pt Comp Bottom	456 □

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

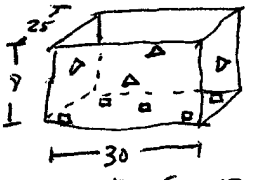
PIT PROFILE

Note sandstone bottom.



Initial OVM grab sample

Final Dimensions



Δ = Sample Point for 4 Pt. Wall composite

□ = Sample Pt. for 5 pt. bottom composite.

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-034
Sample No.:	1	Date Reported:	3/15/2005
Sample ID:	Four Point Composite of Walls @ Dimensions 25' x 30' x 8' Depth	Date Sampled:	2/24/2005
		Date Analyzed:	2/24/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**229**	**5.0**

ND = Parameter not detected at the stated detection limit.

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

Comments: **Murphy D No. 4**

Michael P. Marquez
Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-034
Sample No.:	2	Date Reported:	3/15/2005
Sample ID:	Five Point Composite of Bottom @ Dimensions 25' x 30' x 8' Depth	Date Sampled:	2/24/2005
		Date Analyzed:	2/24/2005
Sample Matrix:	Soil	Analysis Needed:	TPH-418.1
Preservative:	Cool		
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**680**	**5.0**

ND = Parameter not detected at the stated detection limit.

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

Comments: **Murphy D No. 4**

Michael P. Mayney
Analyst

Audrey Rosapal-Parker
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-021-034
Sample ID:	8' Below Surface Level	Date Reported:	03-08-05
Laboratory Number:	32304	Date Sampled:	03-07-05
Chain of Custody:	13650	Date Received:	03-07-05
Sample Matrix:	Soil	Date Analyzed:	03-08-05
Preservative:	Cool	Date Extracted:	03-08-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**18.6**	**1.5**
o-Xylene	**2.8**	**2.2**
Total BTEX	**21.4**	

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: **Murphy D #4.**

Analyst

Review

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