

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>Huerfano Unit No. 186</u> API # <u>30045205310000</u> U/L or Qtr/Qtr <u>F</u> Sec <u>31</u> T <u>27N</u> R <u>9W</u>		
County: <u>San Juan</u> Latitude <u>36.53452</u> Longitude <u>-107.83239</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 checked="" type="checkbox"/> If not, explain why not.	
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) 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	(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)		30

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 Envirotech Landfarm No. 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:
Maximum Vertical Extent of Excavation Reached at a Depth of 26' on Shale Layer - <u>Rock Bottom</u>
Maximum Practical Horizontal Extent of Excavation Reached at Meter House. Exposed walls near Meter House treated with a potassium permanganate / urea nitrate solution
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: 5/26/05

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.

Approved: DEPUTY OIL & GAS INSPECTOR, DIST. IV

Printed Name/Title _____ Signature Benny Fery

Date: MAY 31 2005

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>Huertano Unit</u>	WELL #: <u>186</u>	PIT: _____	DATE STARTED: <u>1/26/05</u> DATE FINISHED: <u>3/12/05</u>
QUAD/UNIT: <u>F</u> SEC: <u>31</u> TWP: <u>21N</u> RNG: <u>9W</u> PM: <u>NMPM</u> CNTY: <u>SJ</u> ST: <u>NM</u>			ENVIRONMENTAL SPECIALIST: <u>MPM/DY/JLB</u>
QTR/FOOTAGE: _____ CONTRACTOR: <u>LOR/Baileys Welding</u>			

EXCAVATION APPROX _____ FT. x _____ FT. x _____ FT. DEEP	CUBIC YARDAGE: <u>5686</u>
DISPOSAL FACILITY: <u>Envirotech LF #2</u> REMEDIATION METHOD: <u>Landfarm</u>	
LAND USE: _____ LEASE: <u>NM 01051</u> FORMATION: _____	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>80'</u> FT. <u>170°</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>20</u>	NEAREST WATER SOURCE: <u>0</u>	NEAREST SURFACE WATER: <u>10</u>	
NMOC D RANKING SCORE: <u>30</u>	NMOC D TPH CLOSURE STD: <u>100</u> PPM		
SOIL AND EXCAVATION DESCRIPTION:			

CHECK ONE :
☐ PIT ABANDONED
☒ STEEL TANK INSTALLED

Initially fiberglass B6T had a hole in bottom. Secondary liner did not contain. After failed initial sampling, location set up temporary. Baileys Welding came to location on 2/15/05. Excavation and hauling of contaminated continued for approximately 1 month. Maximum horizontal extent reached on wells surrounding meter house. They were treated w/ potassium permanganate/urea nitrate solution.

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
See 418.1 TPH Forms / Sample Locations							

PIT PERIMETER

Date: _____
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	
2	See Sample
3	Locations
4	
5	

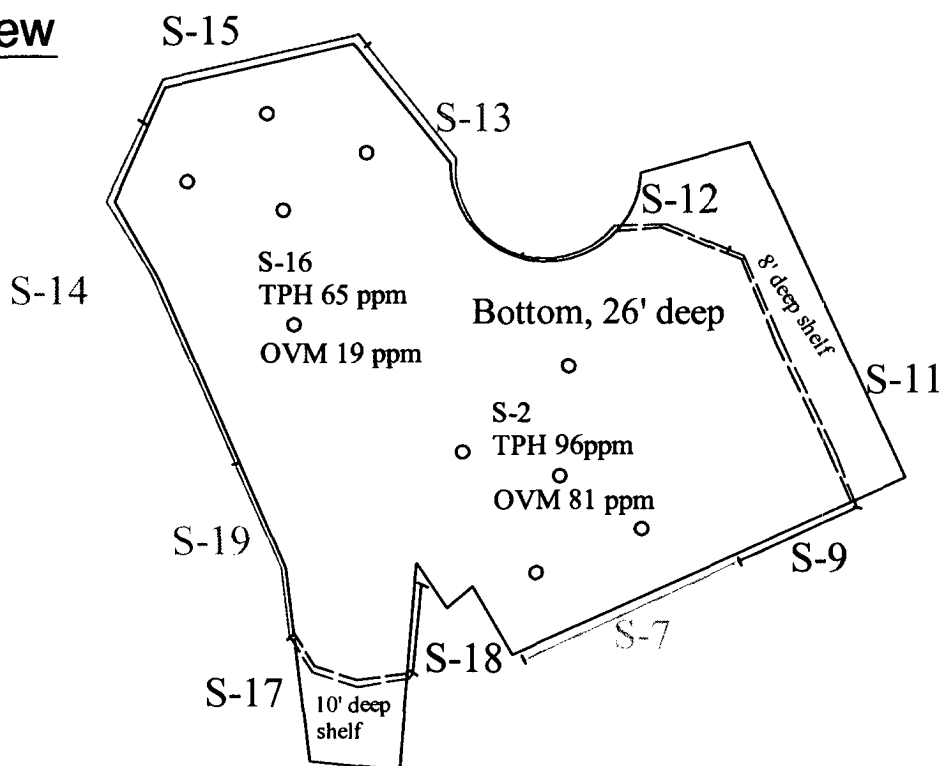
PIT PROFILE

LAB SAMPLES

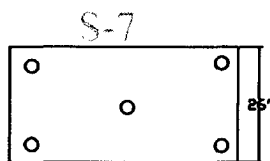
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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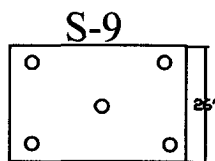
Top View



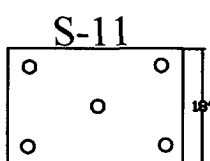
Walls



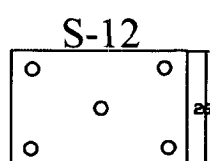
TPH 97 ppm
OVM 72 ppm



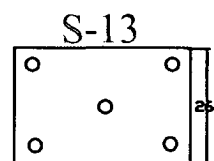
TPH 48 ppm
OVM 6 ppm



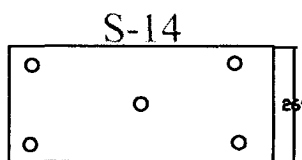
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OVM 7 ppm



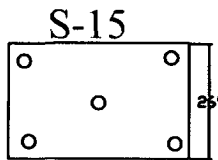
TPH 36 ppm
OVM 6 ppm



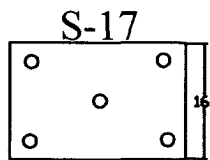
TPH 50 ppm
OVM 28* ppm



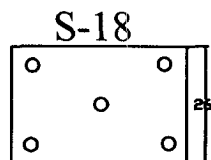
TPH 68 ppm
OVM 9 ppm



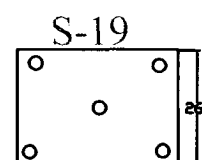
TPH 31 ppm
OVM 3 ppm



TPH 24 ppm
OVM 2 ppm



TPH 808 ppm
OVM 621 ppm



TPH 72 ppm
OVM 6 ppm

* Corrected 5-13-05

Sample Locations

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5798 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
(505) 632-0615

Huerfano Unit Well No. 186
Sec 31, Township 27N, Range 09W

REVISIONS
BY MPM DATE 05/12/05
BY DATE

Project No.
92115-021-008

DATE 04/29/05
SCALE NTS

DRAWN DMY
APPROVED CJC

FIGURE
3

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-008
Sample No.:	1	Date Reported:	4/29/2005
Sample ID:	5 pt comp, bottom 26'	Date Sampled:	2/25/2005
Sample Matrix:	Soil	Date Analyzed:	2/25/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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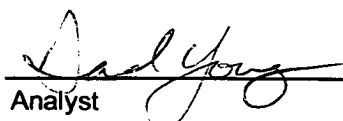
Total Petroleum Hydrocarbons	96	5.0
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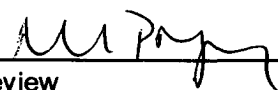
ND = Parameter not detected at the stated detection limit.

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

Comments: **Huerfano Unit No. 186, S-2**

Instrument callibrated to 200 ppm standard. Zeroed before each sample


Analyst


Review