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

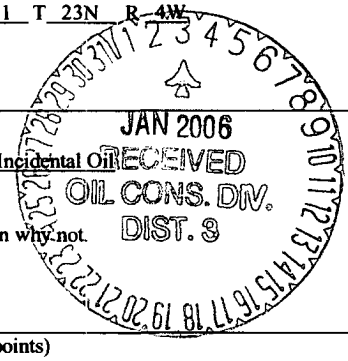
Form C-144
June 1, 2004

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: Elm Ridge Resources Telephone: (505) 632-3476 e-mail address: amackey1@elmridge.net
Address: #20 CR 5060, Bloomfield, New Mexico, 87413
Facility or well name: Jicarilla Contract 428 No. 2 API #: 3004320178 U/L or Qtr/Qtr A Sec 31 T 23N R 4W
County: Sandoval Latitude 36.1854 Longitude -107.2918167 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: 80 bbl Type of fluid: Produced Water and Incidental Oil Construction material: Fiberglass Double-walled, with leak detection? Yes ☐ If not, explain why not. 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)	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 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)		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 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:
Approximately 60 cubic yards of contaminated soil was removed from around the fiberglass tank. Soil was hauled to Envirotech's Landfarm #2

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: 12/28/05
Printed Name/Title Ms. Amy Mackey, Production Technician Signature Amy Mackey

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:
DEPUTY OIL & GAS INSPECTOR, DIST. 3
Printed Name/Title _____ Signature Denny Foust Date: JAN 03 2006

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: 1 of 1

LOCATION: NAME: Jicarilla 428 WELL #: 2 PIT: Sep
QUAD/UNIT: A SEC: 31 TWP: 23N RNG: 4W PM: NMI CNTY: Sandoval ST: NM
QTR/FOOTAGE: 790 FNL 790 FEL API# CONTRACTOR: 3004320178

DATE STARTED: 11/28/05
DATE FINISHED: 11/28/05
ENVIRONMENTAL SPECIALIST: GWC

EXCAVATION APPROX. 14 FT. x 14 FT. x 8 FT. DEEP. CUBIC YARDAGE: 60
DISPOSAL FACILITY: Envirotech Landfarm #2 REMEDIATION METHOD: _____
LAND USE: grazing LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FT. 110° FROM WELLHEAD.
DEPTH TO GROUNDWATER: 50-100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: 200-100
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

CHECK ONE:
X PIT ABANDONED
___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

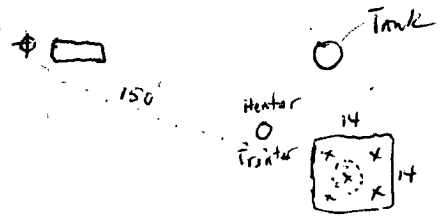
Removed approximately 2' of soil from around tank, walls and bottom of pit tested clean. Excavated soil tested 1432 ppm TPH, Approximately 40 yd³ hauled to Envirotech Landfarm #2

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1300	Composite		5.0	20	4	23	92
1305	Excavated material		5.0	20	4	358	1432

SCALE
0 FT

PIT PERIMETER



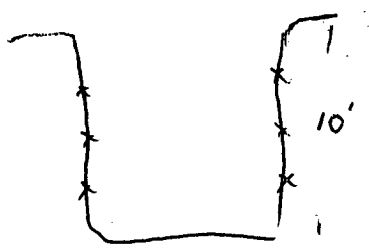
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 Composite	1.0
2	
3	
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Method 418.1 Analysis Log
Total Petroleum Hydrocarbons

Date 11/28/05 Analyst _____

Location Jicarilla 428 #2 Instrument _____

Job No. 03056-040-004

Sample No.	Sample Description	Sample Wt. (g)	Volume Freon (mL)	Dilution Factor	Abs. Reading	TPH (mg/kg)
1	excavated material	5.0	20	4	358	1424
2	composite of bottom & sides	5.0	20	4	23	92

Ovm
126
10

Infrared Spectrophotometer Calibration

New Freon _____

Date Standards Prepared _____

Standard Concentration (mg/L)	Absorbance
100	_____
200	_____
500	_____
1000	_____

I-CAL RF: _____ C-CAL RF: _____

RSD: _____ % % Difference: _____ %

QA/QC Acceptance Criteria: I-CAL RSD +/- 20% C-Cal Difference +/- 10%

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 28-Sep-05

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	210
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

11/28/05
Date

Review

11/28/05
Date

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-004
Sample No.:	1	Date Reported:	11/28/2005
Sample ID:	Composite sample of walls and bottom of pit	Date Sampled:	11/28/2005
Sample Matrix:	Soil	Date Analyzed:	11/28/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**92.0**	**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: **Jicarilla Contract 428 No. 2**

Instrument callibration checked against 200 ppm standard. Zeroed before each sample

Analyst

Review

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