

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 ☒

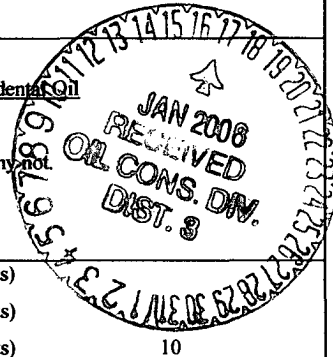
Operator: Elm Ridge Resources Telephone: (505) 632-3476 e-mail address: amackey@elmridge.net
Address: #20 CR 5060, Bloomfield, New Mexico, 87413
Facility or well name: Jicarilla 430 #5,6,9,12 Tank Battery API #: 300432057 U/L or Qtr/Qtr C Sec 36 T 23N R 5W
County: Sandoval Latitude 36.5892667 Longitude -107.4478 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☒

Pit

Type: Drilling ☐ Production ☐ Disposal ☐
Workover ☐ Emergency ☐
Lined ☐ Unlined ☐
Liner type: Synthetic ☐ Thickness mil Clay ☐
Pit Volume bbl

Below-grade tank

Volume: 40 bbl Type of fluid: Produced Water and Incident 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	(20 points)	10
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	
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)	0
	No	(0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	0
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	
	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 you 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 476 cubic yards of contaminated soil was excavated and hauled to Envirotech's NMOCD permitted Landfarm #2 for remediation

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 OGD-approved plan ☐.

Date: 1/12/06

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.

DEPUTY OIL & GAS INSPECTOR, DIST. 8
Approval:

Printed Name/Title

Signature Denny Keit

Date: JAN 17 2006

CLIENT: Elm Ridge 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: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: Jicarilla 430 ~~SECT 17~~ WELL #: 5, 6, 9, 12 TB PIT: SEP
QUAD/UNIT: C SEC: 36 TWP: 23 RNG: 5 PM: NM CNTY: Sambora ST: NM
QTR/FOOTAGE: 990 FNL 1650 FWL CONTRACTOR: 1

DATE STARTED: 11/21/05
DATE FINISHED: 12/1/05
ENVIRONMENTAL SPECIALIST: GWC

EXCAVATION APPROX. 35 FT. x 38 FT. x 20 FT. DEEP. CUBIC YARDAGE: 500
DISPOSAL FACILITY: Envirotech LF #2 REMEDIATION METHOD: Landfarm
LAND USE: Grazing LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FT. 0' FROM WELLHEAD.
DEPTH TO GROUNDWATER: 50' 100 NEAREST WATER SOURCE: > 1000 NEAREST SURFACE WATER: 71000
NMOC D RANKING SCORE: 10 NMOC D TPH CLOSURE STD: 10000 PPM

SOIL AND EXCAVATION DESCRIPTION:
Approximately ⁵⁰⁰ ~~1000~~ yd³ of contaminated soil was removed and hauled to Envirotech's NMOC D permitted Landfarm

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
	SEE following pages: METHOD 418.1 Analysis Log						

PIT PERIMETER

OVM RESULTS

PIT PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 bottom 10'	54
2 Sides	8
3 bottom 15'	26
4 Sides	22
5 bottom 20'	18
Sides	0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-001
Sample No.:	1	Date Reported:	11/21/2005
Sample ID:	Composite sample below BGT	Date Sampled:	11/21/2005
Sample Matrix:	Soil	Date Analyzed:	11/21/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

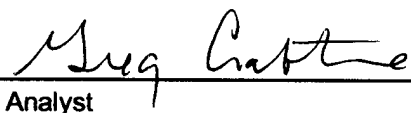
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	8,040.0	5.0

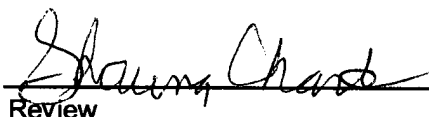
ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla 430 #5,6,9,12 Tank Battery

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


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-001
Sample No.:	2	Date Reported:	11/21/2005
Sample ID:	Composite sample of walls	Date Sampled:	11/21/2005
Sample Matrix:	Soil	Date Analyzed:	11/21/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,624.0	5.0

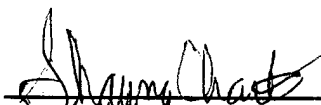
ND = Parameter not detected at the stated detection limit.

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

Comments: Jicarilla 430 #5,6,9,12 Tank Battery

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


Analyst


Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-001
Sample No.:	5	Date Reported:	12/5/2005
Sample ID:	Composite sample of walls	Date Sampled:	12/1/2005
Sample Matrix:	Soil	Date Analyzed:	12/1/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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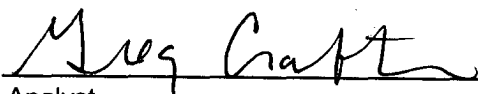
Total Petroleum Hydrocarbons	32.0	5.0
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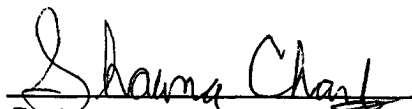
ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla 430 #5,6,9,12 Tank Battery**

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


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-001
Sample No.:	6	Date Reported:	12/5/2005
Sample ID:	Composite of bottom @ 20 feet	Date Sampled:	12/1/2005
Sample Matrix:	Soil	Date Analyzed:	12/1/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

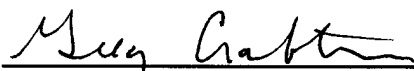
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	916.0	5.0


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 430 #5,6,9,12 Tank Battery

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


Analyst


Review