

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: Elm Ridge Resources - Amy Mackey Telephone: (505) 632-3476 e-mail address: amackey1@elmridge.net
Address: #20 CR 5060, Bloomfield, New Mexico, 87413
Facility or well name: Martin Whittaker No. 050 API #: 3003923540 U/L or Qtr/Qtr B Sec 14 T 23N R 5W
County: Rio Arriba Latitude 36227909 Longitude -107.32835 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☒

<u>Pit</u>	<u>Below-grade tank</u>
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	Volume: <u>40</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 _____ 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) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (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 (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) 0
	Ranking Score (Total Points) 0

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:

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: 10/16/06

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.

Approval:

DEPUTY OIL & GAS INSPECTOR, DIST. 8

Signature: Brandon Powell

Date: OCT 18 2006

FIELD REPORT: CLOSURE VERIFICATION

PAGE NO: 1 of 1

LOCATION: NAME: MARTIN Wh. Haker WELL #/H: 50 PIT: Sep

DATE STARTED. 9/1/64

QUAD/UNIT: NW/NE SEC: 14 TWP: 23N RNG: 5W PM: NMAP1 CNTY: Rio Arriba ST: NM

DATE FINISHED: 9/1/66

QTR/FOOTAGE:

CONTRACTOR: Franks

ENVIRONMENTAL SPECIALIST: GWC

EXCAVATION APPROX 0 FT. x 0 FT. x 0 FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: N/A REMEDIATION METHOD: N/A

LAND USE: grazing LEASE: Jicarilla Contract 78 FORMATION:

FIELD NOTES & REMARKS:

PIT LOCATED APPROXIMATELY 116' FT. 86° FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1,000 NEAREST SURFACE WATER: >1,000

NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5,000 PPM

CHECK ONE :

SOIL AND EXCAVATION DESCRIPTION:

PIT ABANDONED

X STEEL TANK INSTALLED

Soil tested clean, no soil remediation required
slight odor but no visible signs of contamination

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1120	Bottom @ 5'		5.0	20	4	556	2,224
1135	Watts composite		5.0	20	4	12	48

SCALE



0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 bottom	22
2 walls	4
3	
4	
5	

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

X - bottom sample
O - wall sample

TRAVEL NOTES:

CALLOUT:

ON SITE:

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-049
Sample No.:	1	Date Reported:	9/8/2006
Sample ID:	Composite sample @ 5' BGS	Date Sampled:	9/1/2006
Sample Matrix:	Soil	Date Analyzed:	9/1/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

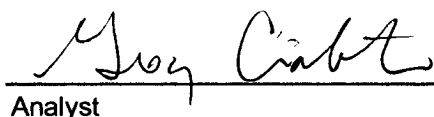
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,224.0	5.0

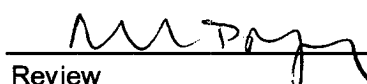
ND = Parameter not detected at the stated detection limit.

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

Comments: **Martin Whittaker No. 050**

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 #:	03056-040-049
Sample No.:	1	Date Reported:	9/8/2006
Sample ID:	Composite sample of walls	Date Sampled:	9/1/2006
Sample Matrix:	Soil	Date Analyzed:	9/1/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

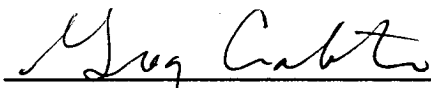
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	48.0	5.0

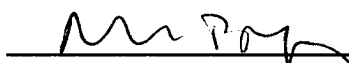
ND = Parameter not detected at the stated detection limit.

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

Comments: **Martin Whittaker No. 050**

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


Analyst


Review

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 1-Sep-06

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

9/8/06

Date



Review

9/11/06

Date

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: 1 of 1

FACILITY LOCATION: MARTIN Wh. HAZARD No. 50

DATE STARTED: 9/2/06

SOURCE LOCATION: _____

DATE FINISHED: 9/1/06

SOURCE LOCATION: _____

ENVIRONMENTAL
SPECIALIST: GWC

FACILITY CLASSIFICATION: _____

PIT TYPE: _____

SOIL REMEDIATION: QUANTITY: Approximately 200 yards # OF COMP. SAMPLES: 1
DIMENSIONS: 60 x 117 x 1

VISIBLE OBSERVATIONS: Sagebrush growing in LF Area, No berm present
SAMPLING PLAN: (1) Composite from LF Area

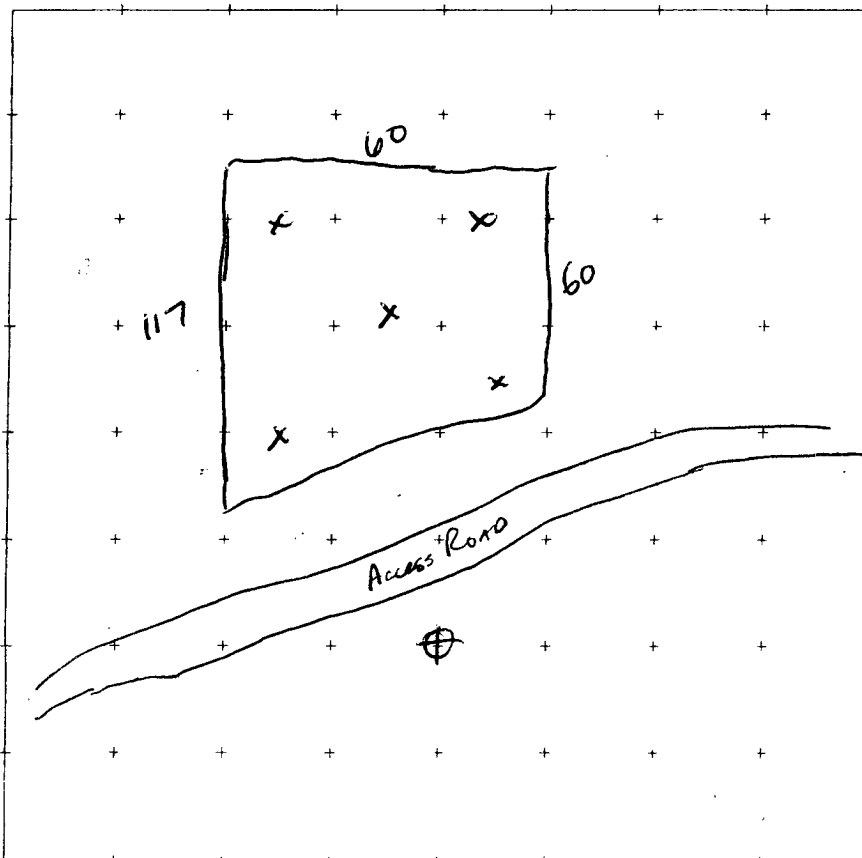
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 100 YARDS 0° FROM WELLHEAD.
feet

DEPTH TO GROUNDWATER: > 100
NEAREST WATER SOURCE/TYPE: > 1,000
NEAREST SURFACE WATER: > 1,000
MAX TPH PER NMCD: \$,000

No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

FACILITY DIAGRAM

GRID SCALE: _____



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)
<u>Comp</u>	<u>1.0</u>

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
<u>Comp</u>	<u>416.1</u>	<u>972</u>



NORTH



WELLHEAD



SURFACE
FLOW DIR.



ESTIMATED
GROUNDWATER
FLOW DIR.

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-049
Sample No.:	1	Date Reported:	9/8/2006
Sample ID:	Composite sample of Landfarm	Date Sampled:	9/1/2006
Sample Matrix:	Soil	Date Analyzed:	9/1/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

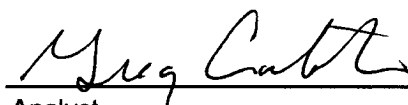
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	972.0	5.0

ND = Parameter not detected at the stated detection limit.

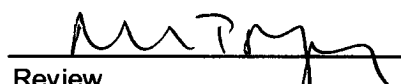
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Landfarm at the Martin Whittaker No. 050**

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



Analyst



Review

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 1-Sep-06

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

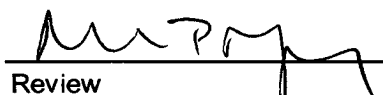
The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.



Analyst

9/8/06

Date



Review

9/11/06

Date