

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 Telephone: (505) 632-3476 e-mail address: amackey1@elmridge.net
Address: P.O. Box 156, Bloomfield, New Mexico, 87413
Facility or well name: Jicarilla 492 # 001 API #: 30039237930000 U/L or Qtr/Qtr P Sec 28 T 28N R 2W
County: Rio Arriba Latitude 36.60593 Longitude -107.04178 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: 60 bbl Type of fluid: Produced Water

Construction material: Fiberglass

Double-walled, with leak detection? Yes ☐ 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)

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)

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 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:

Soil tested clean, no soil remediation required

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. #9
Printed Name/Title Brandon Powell

Signature Brandon Powell

Date: OCT 18 2006

CLIENT: <u>Elm Ridge 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>
LOCATION: NAME: <u>Jicarilla</u> 492 WELL #: <u>1</u> PIT: _____		DATE STARTED: <u>10/3/06</u>
QUAD/UNIT: <u>SE/SE</u> SEC: <u>28</u> TWP: <u>22N</u> RNG: <u>2W</u> PM: <u>NMPM</u> CNTY: <u>Ariz</u> ST: <u>NM</u>		DATE FINISHED: <u>10/3/06</u>
QTR/FOOTAGE: _____	CONTRACTOR: <u>Franks</u>	ENVIRONMENTAL SPECIALIST: <u>MPM</u>

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

DISPOSAL FACILITY: N/A REMEDIATION METHOD: _____

LAND USE: _____ LEASE: Jicarilla cont. 492 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100' FT. 320° FROM WELLHEAD.

DEPTH TO GROUNDWATER: 0 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 10

NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPM

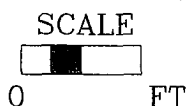
SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE :
☐ PIT ABANDONED
☒ STEEL TANK INSTALLED

No visible or odors of contamination present. No soil removed from site.

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1313	3' Below	1	5	20	1	0.0132	91.6



PIT PERIMETER

OVM
RESULTS

PIT PROFILE

	<table border="1" style="width:100%"> <tr> <th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr> <tr><td>1 3' Below</td><td>14</td></tr> <tr><td>2</td><td> </td></tr> <tr><td>3</td><td> </td></tr> <tr><td>4</td><td> </td></tr> <tr><td>5</td><td> </td></tr> </table> <table border="1" style="width:100%"> <tr> <th colspan="3">LAB SAMPLES</th></tr> <tr> <th>SAMPLE ID</th><th>ANALYSIS</th><th>TIME</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 3' Below	14	2		3		4		5		LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME													<p style="text-align: center;">x = Sample point</p>
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TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

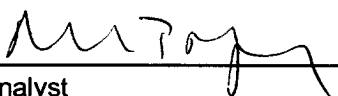
Client:	Elm Ridge Resources	Project #:	03056-040-055
Sample No.:	1	Date Reported:	10/3/2006
Sample ID:	Discrete, 3' Below BG Tank	Date Sampled:	10/3/2006
Sample Matrix:	Soil	Date Analyzed:	10/3/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	91.6	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 492 # 001



Analyst

Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Elm Ridge Resources	Project #:	03056-040-055
Sample ID:	QA/QC	Date Reported:	10/3/2006
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	10/3/2006
Preservative:	N/A	Date Extracted:	10/3/2006
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	05-22-04	10/3/2006	1,735	1,639	5.5%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,471	2,352	4.8%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
TPH	2,471	2,000	5,030	112.5%	80 - 120%

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: QA/QC for Jicarilla 492 # 001

Analyst

Review