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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144 June 1, 2004

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: Federal 6 No. 43 API #: 3003922	2792 U/L or Qtr/Qtr _I Sec _6_ T_23N	1 R 7W		
/	ongitude107.60664 NAD: 1927 ⊠ 1			
Surface Owner: Federal State Private Indian	1107.0000			
	T =			
Pit -	Below-grade tank	MAY 2006		
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	3		
Workover ☐ Emergency ☐	Construction material:	ST ONLY STATE STAT		
Lined ☐ Unlined ☑	Double-walled, with leak detection? Yes  If not,	explain why not		
Liner type: Synthetic Thicknessmil Clay _				
Pit Volume 20 bbl		C. T. M. J.		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)		
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)		
ingli water devation of ground water.	100 feet or more	( 0 points) 10		
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)		
water source, or less than 1000 feet from all other water sources.)	No	( 0 points) 0		
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)		
1	200 feet or more, but less than 1000 feet	(10 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	( 0 points) 10		
	Dauling Searce (Total Baints)	20		
	Ranking Score (Total Points)	<u> </u>		
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's	s relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if		
your are burying in place) onsite $\square$ offsite $\boxtimes$ If offsite, name of facility $\underline{\ }$	Envirotech Landfarm #2 . (3) Attach a general description	ription of remedial action taken including		
remediation start date and end date. (4) Groundwater encountered: No 🛛	es If yes, show depth below ground surface	ft. and attach sample results.		
(5) Attach soil sample results and a diagram of sample locations and excavat	tions.			
Additional Comments:				
Approximately 130 cubic yards of contaminated soil was transported to Envirotech's NMOCD permitted landfarm 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 $\Box$ , a general permit $\Box$ , or an (attached) afternative OCD-approved plan $\Box$ .				
1 -1-1.				
Date: 5/15/06				
Printed Name/Title Ms. Amy Mackey, Production Technician Signature MM HGCLLL				
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pixor 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: MAY 1 8 2006				
Printed Name/Title Signature Date:				

CLIENT: Elm Ridge	ENVIROTECH INC.  ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014  FARMINGTON, NEW MEXICO 87401  FHONE: (505) 632-0615	C.D.C. ND:
FIELD REPOR	CT: CLOSURE VERIFICATI	ON PAGE No: of
1	WELL #: 43 PIT: Sep  TWP: 23N RNG: 8W PM: NMPM CNTY.95 S  CONTRACTOR:	DATE STARTED: 4/10/06  DATE FINISHED: 4/10/06  ENVIRONMENTAL SPECIALIST: 6WC
DISPOSAL FACILITY: E	FT. x _15	METHOD: Lynofarm FORMATION:
DEPTH TO GROUNDWATER 450	NEAREST WATER SOURCE: 710 00 NEAREST  NMOCD TPH CLOSURE STD: 100 PPM  NDESCRIPTION:	
Approximately 130 to Envivotech's  SCALE  O FT  PIT PERIMI	See 418.1 Analysis Log	
SEP T	SAMPLE SELD HEADSPACE ID FIELD HEADSPACE PID (ppm)  1 See 418.1 Analysis  2 3 4 5  LAB SAMPLES SAMPLE ANALYSIS TIME ID ANALYSIS TIME  * - WA	* * * * * * * * * * * * * * * * * * *
TRAVEL NOTES: CALLOUT:	ONSITE:	



# Method 418.1 Analysis Log Total Petroleum Hydrocarbons

		4/10 - 4/12 Federal 6 4	 			Analyst G. Crabbup  Instrument Infraca /		
	Job No.	03056-040-	033					
	Sample No.	Sample Description	Sample Wt. (g)	Volume Freon (mL)	Dilution Factor	Abs. Reading	TPH (mg/kg)	OVM (mg/kg)
4/10	1	Rotton Spoint Composite @ 10 BGS	5.0	20	7	473	1,892	29
4/10	2	wall composite	5.0	w	4	<b>4</b> 31	524	1
4/12	ı	Bottom 5 point composite (214 BGS	5.0	20	4	19	76	17
	2	WAN composite	5.0	20	4	23	92	. (

#### Infrared Spectrophotometer Calibration

New Freo	n		
Date Standards Prepared	d	<u> </u>	
Standard Concentration (mg/L)	Absorbance		
100	115/113		
200	-		
500			
1000	***************************************		
I-CAL RF:	_	C-CAL RF:	
RSD:	_%	% Difference:	%
QA/QC Acceptance Criteria: I-CAL R:	SD +/- 20%	C-Cal Difference ±/- 10%	



### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Resources

Project #:

03056-040-033

Sample No.:

1

Date Reported:

4/12/2006

Sample ID:

Composite sample of bottom at 14'

Date Sampled:

4/12/2006

Sample Matrix:

Soil

Date Analyzed:

4/12/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

76

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:

Federal 6 No. 43

Instrument callibration checked against 100 ppm standard. Zeroed before each sample

Analyst

Review



## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Resources

Project #:

03056-040-033

Sample No.:

2

Date Reported:

4/12/2006

Sample ID:

Composite sample of walls

Date Sampled:

4/12/2006

Sample Matrix:

Soil

Date Analyzed:

4/12/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(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:

Federal 6 No. 43

Instrument callibration checked against 100 ppm standard. Zeroed before each sample

Analyst

Review