District l 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 \(\simega\) Closure of a pit or below-grade tank \(\simega\) Telephone: (505) 632-3476 e-mail address: amackey l@elmridge.net Operator: Elm Ridge Resources Address: #20 County Road 5060, Bloomfield, New Mexico, 87413 Facility or well name: McKenzie Federal Compressor No. 1 API #: 3003960002 U/L or Qtr/Qtr <u>M</u> Sec <u>25</u> T <u>25N</u> R <u>6W</u> NAD: 1927 **⊠** 1983 **□** -107.42478 Latitude 36.366759 County: Rio Arriba Longitude Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐ Below-grade tank Type: Drilling Production Disposal Volume: 40 bbl Type of fluid: Workover Emergency Construction material: Fiberglass Lined [Unlined [Double-walled, with leak detection? Yes If not, explain why not. Liner type: Synthetic Thickness mil Clay No, Tank in place prior to Rule 50 Pit Volume 10 bbl Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 0 100 feet or more (0 points) (20 points) Yes Wellhead protection area: (Less than 200 feet from a private domestic O No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 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) U Ranking Score (Total Points) 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 660 cubic yards of contaminated soil was transported and disposed of at Envirotech's Landfarm #2 Maximum reasonable extent of excavation reached at 12' due to shale layer, BTEX of bottom shale layer are attached Lici. 3 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 .

Signature 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

Printed Name Title Date: APR 2 7 2006

Ms. Amy Mackey - Production Technician

regulations.

FIELD REPORT: CLOSURE VERIFICATION PAGE NO: L of L DOCATION: NAME: Militarie, Fill Comp. WELL #: PIT. DATE STRATED BILL QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND STREET BILL QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND STREET BILL QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND ST. JM. QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND ST. JM. QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND ST. JM. QUAD/UNIT: M. SEC 25 TWP 25M RNG. UN PM. NAME/ONTY AND ST. JM. QUAD/UNIT: M. SEC 25 TWP 25M RNG. CONTRACTOR FRAME CONTRACTOR FRAME CONTRACTOR FRAME SECURITY: EAUTO SEC. LOS TRACTOR GOLD SECURITY: EAUTO SEC. LOS TRACTOR CANADATA CANADATA CONTRACTOR CANADATA CONTRACTOR CANADATA CONTRACTOR CANADATA	CLIENT: Elm Ridge	Envirotech Inc.	LOCATION NO:
OCATION: NAME: Mikingle Fid. Comp WELL #: PIT: QUAD/UNIT: M SEC: 15 TWP 25N RNG: LU PM NAME CNTY AND ST. NM OTR/FOOTAGE CONTRACTOR: FRANKS CONT		5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401	
QUAD/UNIT! M SEC 25 TWP 25N RNG ULI PM: NAMEWONTY AND STAND DATE PINASHED: 3/L/L QTR/FOOTAGE: CONTRACTOR: FRANKS EXCAVATION APPROX 3D FT. x 20 FT. x 12 FT. DEEP. CUBIC YARDAGE: ULU ys DISPOSAL FACILITY: Enviro to Land France "2 REMEDIATION METHOD: Land France." AND USE: RANY LEASE: FORMATION: ELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 20 FT. 300 FROM WEETHEAD MOCD RANKING SCORE: 0 NAMCO THE CLOSURE STD. 7/000 PPH MOCD RANKING SCORE: 0 NAMCO THE CLOSURE STD. 7/000 PPH MOCD RANKING SCORE: 0 NAMCO THE CLOSURE STD. 7/000 PPH APPROXIMATE by 640 yd of 850.1 WAS TRANSPIRED TO ENLIVOYED STELL TANK INSTALLED APPROXIMATE by 640 yd of 850.1 WAS TRANSPIRED TO ENLIVOYED STELL TANK INSTALLED APPROXIMATE by 640 yd of 850.1 WAS TRANSPIRED TO ENLIVOYED STELL TANK INSTALLED TIME SAMPLE ID LAB NO: WEIGHT (3) ML FROM DILUTION READING CALC ppm SCALE O FT PIT PERIMETER RESULTS PIT PROFILE AND OVM PIT PROFILE SEA MITHIAN 418.1 ANALYSIS, Sheet AND OVM PIT PROFILE LAB SAMPLES LAB SAMPLES	FIELD REPOI	RT: CLOSURE VERIFICATION	PAGE No: L of
CONTRACTOR: FRANKS ELLO GRANTS ELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 20 FT. 300° FROM WELTHEAD. EDD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 20 FT. 300° FROM WELTHEAD. EPTH TO GROUNDWATER 7100 NEAREST VATER SOURCE 71000 PPM EDIL AND EXCAVATION DESCRIPTION: Approximately 600 yd of soil was transplated to Envivotech's CHARD FORM: 2 for Remarking Street SCALE O FT PIT PERIMETER OVM RESULTS FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULAT	OCATION: <u>name: Mckin</u> Quad/unit: M sec:	25 TWP: 25N RNG: UW PM: NMPMCNTY: AND ST: NO	M DATE FINISHED: 3/21
DISPOSAL FACILITY: Enviro to Lang Frame 2 REMEDIATION METHOD: Lamp Frame AND USE: Pary LEASE: FORMATION: ELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY ZO FT. 300° FROM WEELHEAD. REPTH TO GROUNDWATER 7/00 NEAREST VATER SOURCE: 7/000 NEAREST SURFACE VATER: 7/000 MICCO RANKING SCORE: O NHOOD THE CLOSURE STD. 5/000 PPM CHECK ONE: Y PIT ABANDONED STEEL TANK INSTALLED Approximately 1640 yd of a Soil was transpersed to Envivoted 'S CAMPO FURTH & Z for REMEDITE SCALE O FT PIT PERIMETER RESULTS SURFACE VATER: 7/000 NEAREST SURFACE VATER: 7/000 NEAREST SURFACE VATER: 7/000 NEAREST SURFACE VATER: 7/000 CHECK ONE: Y PIT ABANDONED STEEL TANK INSTALLED FIELD 4181 CALCULATIONS TIME SAMPLE ID LAB No: WEIGHT (g) mL FREON DILUTION READING CALC. ppm SCALE O FT PIT PERIMETER RESULTS SURFACE O PM SEE PIETHON 418,1 AMAY SINGLE PIT PROFILE SURFACE SURFACE Y PIT PROFILE Y PIT PROFILE SURFACE Y PIT PROFILE SURFACE Y PIT PROFILE NOTE TO SURFACE Y PIT PROFILE SURFACE Y PIT PROFILE SURFACE Y PIT PROFILE NOTE TO SURFACE Y PIT PROFILE Y PIT PROFILE NOTE TO SURFACE Y PIT PROFILE Y PIT		CONTRACTOR: FRANKS	SPECIALIST: GWC
Approximately 600 yd of a Soil was transpirated to Envirotech's Land Fire Sample 1.D. LAB No: WEIGHT (g) ml. FREON DILLUTION READING CALC ppm SCALE O FT PIT PERIMETER OVM RESULTS SAMPLE 1.D. LAB No: WEIGHT (g) ml. FREON DILLUTION READING CALC ppm SCALE OVM RESULTS PIT PROFILE SAMPLE PRED MEDISANCE 1.0 SAMPLE SULTS SAMPLE PRED MEDISANCE 1.0 SAMPLE SPEED MEDISANCE 1.0 SAMPLES LAB SAMPLES	DISPOSAL FACILITY: ELAND USE: REMAI	LEASE: FOR STANDARD STENSION METERS FOR STANDARD F	ORMATION: 300° FROM WELLHEAD.
Approximately 600 yd of soil was transported to Envirotect's (and firm # 2 for remediation FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. ppm SCALE OFT PIT PERIMETER RESULTS PIT PROFILE SAMPLE RESULTS PIT PROFILE SAMPLE RESULTS PIT PROFILE AND SAMPLE RESULTS BELLIAM SAMPLES			ACE WATER: 7000
Approximately 600 yd of a Soil was transpersed to Envirotech's Lamo Frien 2 for Remediation FIELD 418.1 CALCULATIONS TIME SAMPLE 1.D. LAB No: WEIGHT (g) ml. FREON DILUTION READING CALC. ppm SCALE OFT PIT PERIMETER RESULTS PIT PROFILE Super PRED MEGOSPACE PO (ppm) 1 See Mitchap Strate 2 3 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NMOCD RANKING SCORE:		
Approximately 600 yd of a soil was transported to Envirotech's (mo first 2 for remediation FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB No: WEIGHT (g) ml. FREON DILUTION READING CALC. ppm SCALE O FT PIT PERIMETER OVM RESULTS PIT PROFILE SAMPLE FEED HORSPACE 10 FRED HORSPACE 10 FROM 1 Specific 10 Specific 1		IN DESCRIPTION:	STEEL TANK INSTALLED
PIT PERIMETER OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 Spe Attributed streets RESULTS AND THE FIELD HEADSPACE PID (ppm) 1 Spe Attributed streets RESULTS LAB SAMPLES	SCALE	TIME SAMPLE I.D. LAB No: WEIGHT (g) mL. FREON	DILUTION READING CALC. ppm
RESULTS SAMPLE FIELD HEADSPACE PID (sporm) 1 Spe Attrichap streets 2 3 3 4 4 5 5 5 5 5 6 6 6 7 12 12 12 12 12 12 12 12 12 12 12 12 12		OVIM	
Birlains 5 LAB SAMPLES Attraction streets LAB SAMPLES	PIT PERIM		r PROFILE
	No. No. of the last of the las	Building 5 LAB SAMPLES	



Method 418.1 Analysis Log Total Petroleum Hydrocarbons

Date	3/16/06	_		Analyst	G. Crab	tree	
Location	Mckinzie Feberal Comp. #1		Instrument	Infrace	N		
Job No.							
Sample No.	Sample Description	Sample Wt. (g)	Volume Freon (mL)	Dilution Factor	Abs. Reading	TPH (mg/kg)	OVI (mg/l
ı	composite sampor of walls	5,0	20	40	176	7,040	255
r	of Bottom At 12'BGS	5.0	20	40	45	1800	77
3	Excauntep MAJoriM	<i>5</i> .0	70	40	303	12120	1359
4	South And wolf war composite	S. 0	70	4	126	504	8
5	NORTH AND EAST WALL COMPOSITE	5,0	20	4	164	656	10
		Infrared	Spectrophoto	meter Calibra	ation		
	New Freon		-	-1		- 0	
Date	Standards Prepared				OUM ST		
Standard Absorbance Concentration (mg/L)			721				
	100		-				
	200	220/210	<i>)</i>				
	500		-				
	1000		-				÷
I-CAL RF	:	_			C-CAL RF:		_
RSD:		%		%	Difference:		%



Client:

Elm Ridge Resources

Project #:

03056-040-032

Sample No.:

1

Date Reported:

4/14/2006

Sample ID:

Composite sample of Walls

Date Sampled: 3/16/2006

Sample Matrix:

Soil

Date Analyzed:

3/16/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

7,040.0

500.0

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:

McKenzie Federal Compressor No. 1

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

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-032

Sample No.:

2

Date Reported:

4/14/2006

Sample ID:

Composite sample 12' below surface Date Sampled:

3/16/2006

Sample Matrix:

Soil

Date Analyzed:

3/16/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

1,800.0

50.0

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:

McKenzie Federal Compressor No. 1

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

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-020

Sample No.:

3

Date Reported:

4/14/2006

Sample ID:

Composite sample Excavated Material Date Sampled:

3/16/2006

Sample Matrix:

Soil

Date Analyzed:

3/16/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

12,120

50.0

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:

McKenzie Federal Compressor No. 1

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



Client:

Elm Ridge Resources

Project #:

03056-040-032

Sample No.:

4

Date Reported:

4/14/2006

Sample ID:

Composite sample of S & W Walls

Date Sampled:

3/21/2006

Sample Matrix:

Soil

Date Analyzed:

3/21/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

504.0

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:

McKenzie Federal Compressor No. 1

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

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-032

Sample No.:

5

Date Reported:

4/14/2006

Sample ID:

Composite sample of N & E Walls

Date Sampled:

3/16/2006

Sample Matrix:

Soil Cool Date Analyzed:
Analysis Needed:

3/16/2006 TPH-418.1

Preservative: Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

656

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:

McKenzie Federal Compressor No. 1

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

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-040-032
Sample ID:	McKinzie Compressor #1	Date Reported:	03-17-06
Laboratory Number:	36463	Date Sampled:	03-16-06
Chain of Custody:	15678	Date Received:	03-16-06
Sample Matrix:	Soil	Date Analyzed:	03-17-06
Preservative:	Cool	Date Extracted:	03-17-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

	Det.	
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)
Benzene	10.5	1.8
Toluene	40.7	1.7
Ethylbenzene	52.7	1.5
p,m-Xylene	336	2.2
o-Xylene	64.6	1.0
Total BTEX	505	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Bottom Composite at 12' BGS.

Analyst P. Ophian

Mustere m Watters
Review