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

Date: /

Printed Name/Tifle

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

Form C-144

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 🔯 Telephone: (505) 632-3476 Operator: Elm Ridge Resources e-mail address: amackey1@elmridge.net Address: #20 CR 5060, Bloomfield, New Mexico, 87413 Facility or well name: Candado No. 17 A API #: 3003921282 U/L or Qtr/Qtr <u>I</u> Sec <u>10</u> T <u>26N</u> R <u>7W</u> County: Rio Arriba Latitude __36.497200 __ Longitude -107.556433 NAD: 1927 🛛 1983 🔲 Surface Owner: Federal State Private Indian Below-grade tank Type: Drilling ☐ Production ☒ Disposal ☐ Volume: ____bbl Type of fluid: Workover ☐ Emergency ☐ Construction material: Lined Unlined Double-walled, with leak detection? Yes \(\Boxed{\Boxes}\) If not, explain why not. Liner type: Synthetic Thickness mil Clay Pit Volume_ 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) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No (0 points) 0 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) 0 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 ____. (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:** The Soil sample passed method 418.1 analysis, the sample failed the field OVM headspace test. The sample passed method 8021 Results of BTEX analysis by USEPA method 8021 are attached

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

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

has been/will be constructed or closed according to NMOCD guidelines , a general permit, , or/an (attached) alternative OCD-approved plan .

regulations. JAN 23 2006 épupyatur a gas respector, dest. 🙉 Printed Name/Title _ Signature

Ms. Amy Mackey, Production Technician

CLIENT: Elm R.dge ENVIROTECH INC. ENVIROTECH INC. ENVIROMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	C.O.C. NO:		
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of		
LOCATION: NAME: CANDADO WELL #: 17-A PIT: SEP QUAD/UNIT: T SEC: 10 TWP: 26 RNG: 7 PM: WMAM CNTY: RA ST: WM QTR/FUDTAGE: NSO FSL/190 FEL CONTRACTOR:	DATE STARTED: 1/9/66 DATE FINISHED: 1/9/66 ENVIRONMENTAL GWC		
EXCAVATION APPROX FT. x FT. DEEP. CUBIC DISPOSAL FACILITY: REMEDIATION METHOD LAND USE: FOR	D:		
	CHECK ONE:		
SOIL AND EXCAVATION DESCRIPTION: Soil Passed 418.1 test, failed the field our headspace test, sample Analized for BTEX Via MSEPA Method 8021. Results attached			
FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB No: WEIGHT (g) ml. FREON DIL	LUTION READING CALC. ppm		
SCALE 1420 Pit composite 5.0 20	4 16 640		
i435 Excavates 5.0 20	4 105 4200		
0 FT OVM PIT PERIMETER PERIMETE PIT	PROFILE		
RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 OUM 6,7 441 2 Excanato 44B 3 LAB SAMPLES SAMPLE ANALYSIS TIME Bed Rock TRAVEL NOTES:	× 17		



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Resources

Project #:

03056-040-009

Sample No.:

1

Date Reported:

1/10/2006

Sample ID:

Composite sample of pit area

Date Sampled:

1/9/2006

Sample Matrix:

Soil

Date Analyzed:

1/9/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

640.0

200.0

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:

Candado No. 17

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 #:

03056-040-009

Sample No.:

1

Date Reported:

1/10/2006

Sample ID:

Composite sample excavated materi Date Sampled:

1/9/2006

Sample Matrix:

Soil

Date Analyzed:

1/9/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

4,200.0

200.0

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:

Candado No. 17

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

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-040
Sample ID:	Candado 17A Composite	Date Reported:	01-11-06
Laboratory Number:	35683	Date Sampled:	01-09-06
Chain of Custody:	15348	Date Received:	01-09-06
Sample Matrix:	Soil	Date Analyzed:	01-11-06
Preservative:	Cool	Date Extracted:	01-10-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

	Det.		
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Benzene	3.7	1.8	
Toluene	163	1.7	
Ethylbenzene	2,510	1.5	
p,m-Xylene	2,450	2.2	
o-Xylene	989	1.0	
Total BTEX	6,120		

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:

Rio Arriba County.

Analyst C. Office

Mistere M Walles
Review