

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: South Blanco Federal 30-1 API #: 3003922717 U/L or Qtr/Qtr M Sec 30 T 24N R 7W
County: San Juan Latitude 36.2739317 Longitude -107.62252 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: 40 bbl Type of fluid: Produced water and incidental oil
Construction material: polypropylene
Double-walled, with leak detection? Yes ☐ If not, explain why not.
No, 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)	10
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	
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)	0
	No	(0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	20
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	
	Ranking Score (Total Points)		30

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 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:
Below grade tank was remove and contamination was discovered. Below grade tank was located at the South Blanco Federal 30 – 1 Well Site. Well is P&A but Tank Battery is maintained for the South Blanco Federal 30-2 well.

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: 8/30/06
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.

DEPUTY OIL & GAS INSPECTOR, DIST. II

Approval: _____
Printed Name/Title _____ Signature Brad Roll Date: AUG 30 2006

CLIENT: <u>Elm Ridge Resources</u>	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5785 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	LOCATION: NO. _____ COC NO. _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>S. Blanco Federal</u> WELL #: <u>30-1+30-2</u> PIT: <u>Sep</u>		DATE STARTED: <u>7/26/06</u>
QUAD/UNIT: <u>M1</u> SEC: <u>30</u> TWP: <u>24N</u> RNG: <u>7W</u> PM: <u>11PM</u> CNTY: <u>SAN JUAN</u> ST: <u>NM</u>		DATE FINISHED: <u>7/26/06</u>
QTR/FOOTAGE: _____ CONTRACTOR: <u>Franks</u>		ENVIRONMENTAL SPECIALIST: <u>GWC</u>

EXCAVATION APPROX. <u>18</u> FT. x <u>15</u> FT. x <u>12</u> FT. DEEP.	CUBIC YARDAGE: <u>120</u>
DISPOSAL FACILITY: <u>Envirotech LF # 2</u>	REMEDIATION METHOD: <u>Landfarm</u>
LAND USE: <u>grazing</u>	LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>145'</u> FT. <u>60°</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>50-100</u>	NEAREST WATER SOURCE: <u>>100'</u> NEAREST SURFACE WATER: <u><200</u>
NMCD RANKING SCORE: <u>30</u>	NMCD TPH CLOSURE STD: <u>100</u> PPM

SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE : ☐ PIT ABANDONED ☒ STEEL TANK INSTALLED
pit located at S. Blanco Federal 30-1, 30-1 well P+A. Location serves as tank battery for 30-1 + 30-2	

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
	Bottom @ 8'		5.0	20	4	646	2580
	Walls		5.0	20	4	256	1020
	Bottom @ 12'		5.0	20	4	12	36
	Wall		5.0	20	4	22	88

Std 202

PIT PERIMETER
OVM RESULTS
PIT PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 bottom 8'	29
2 WALL Comp	1
3 bottom 12'	3
4 WALL Comp	
5	

SAMPLE ID	ANALYSIS	TIME

x - bottom sample
* wall sample

TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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CONTINUOUS CALIBRATION

EPA METHOD 418.1

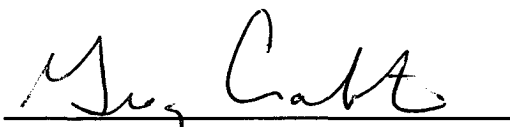
TOTAL PETROLEUM

HYDROCARBONS

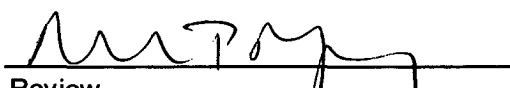
Cal. Date: 26-Jul-06

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	202
	200	
	500	
	1000	

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


Analyst

7/27/06
Date


Review

7/28/06
Date

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-046
Sample No.:	1	Date Reported:	7/27/2006
Sample ID:	Composite sample of bottom @8' BGS	Date Sampled:	7/26/2006
Sample Matrix:	Soil	Date Analyzed:	7/26/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

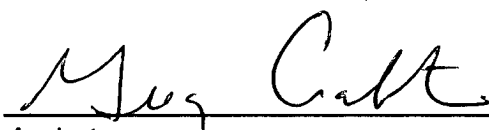
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,580	5.0

ND = Parameter not detected at the stated detection limit.

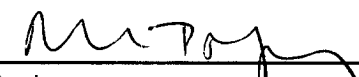
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **South Blanco Federal 30-1 & 30-2 Tank Battery**

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



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Resources	Project #:	03056-040-046
Sample No.:	2	Date Reported:	7/27/2006
Sample ID:	Composite wall sample	Date Sampled:	7/26/2006
Sample Matrix:	Soil	Date Analyzed:	7/26/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	1,020	5.0
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ND = Parameter not detected at the stated detection limit.

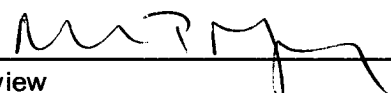
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **South Blanco Federal 30-1 & 30-2 Tank Battery**

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



Analyst



Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Elm Ridge Resources	Project #:	03056-040-046
Sample No.:	3	Date Reported:	7/27/2006
Sample ID:	Composite sample of bottom @12' BGS	Date Sampled:	7/26/2006
Sample Matrix:	Soil	Date Analyzed:	7/26/2006
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.

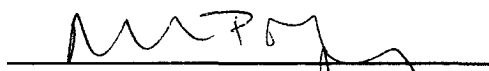
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **South Blanco Federal 30-1 & 30-2 Tank Battery**

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 #:	03056-040-046
Sample No.:	4	Date Reported:	7/27/2006
Sample ID:	Composite sample of walls	Date Sampled:	7/26/2006
Sample Matrix:	Soil	Date Analyzed:	7/26/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

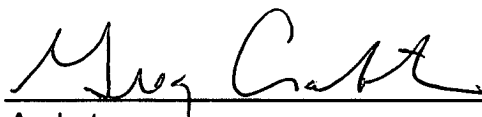
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	88.0	5.0

ND = Parameter not detected at the stated detection limit.

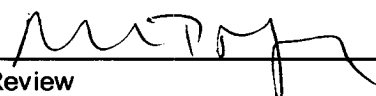
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **South Blanco Federal 30-1 & 30-2 Tank Battery**

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



Analyst



Review

Bill of Lading

MANIFEST #

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 9 27-06 JOB # 03056-040-096

RECEIVED JUL 28 2006

ENTERED JUL 31 2006

ENTERED JUL 26 2008

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Jim Cardenas

COMPANY Subvortech

SIGNATURE

DATE 7-29-06

COMPANY CONTACT _____ PHONE _____

COMPANY CONTACT
san juan reproduction 578-126

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 7-27-06

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Jason Holden COMPANY Enviro-tech SIGNATURE Jason Holden

DATE 8/11/06

2001

PHONE

COMPANY CONTACT

san juan reproduction 578-126