

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

NMOC Original

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOC 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: Resource Development Technology LLC Telephone: (303) 716-3200 e-mail address: ras.rdt@mindspring.com

Address: P.O. Box 1020, Morrison, CO 80465

Facility or well name: Fikes Fed. Com. #2 API #: 30-039-22938 U/L or Qtr/Qtr 2110' FNL & 1650' FWL, Unit F of Sec 27 T 25N R 6W

County: Rio Arriba Latitude _____ Longitude _____ 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 275 Bbl.

Below-grade tank

Volume: 55 Bbl Type of fluid: Separator Fluids

Construction material: Fiberglass Tank

Double-walled, with leak detection? Yes ☐ If not, explain why not.

NO: The Fiberglass Tank was Improperly Installed & Removed.

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)

20

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)

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)

10

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 _____. (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: One unlined approx. 275 Bbl. production pit containing an improperly installed below-grade fiberglass tank was remediated by removing the fiberglass tank, excavating contaminated soil to bedrock refusal, and land farming the soil on-site. The pit was the original production pit south of the separator. Approximately 125 cubic yards of soil were excavated from this pit, with bedrock refusal at 7 feet. On 6/28/04, a composite wall sample and a composite bottom sample were taken from the pit, sent to the laboratory for TPH and BTEX analysis, and met remediation standards. The Pit Pile was sampled on 6/28/2004 & met TPH & BTEX remediation standards. The Pit Pile was ordered flattened, land farmed and was re-sampled on 8/25/04 & met the TPH & BTEX remediation standards. The site diagram and sample results are attached. All FINAL sample results are less than the TPH & BTEX Remediation Standard for this site.

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 NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 1/16/2004

Printed Name/Title: Robert A. Schwering, P.E., Operations Manager

Signature

Your certification and NMOC 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. #3

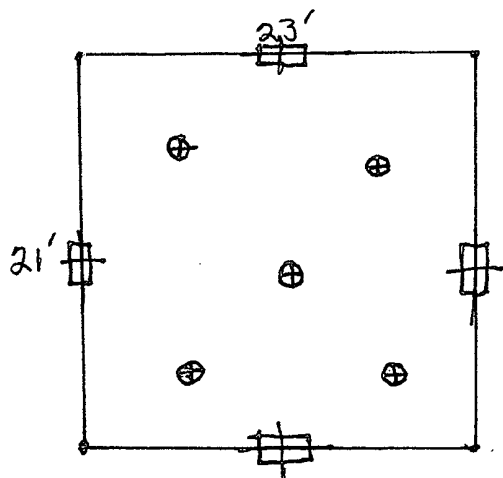
Printed Name/Title

Signature

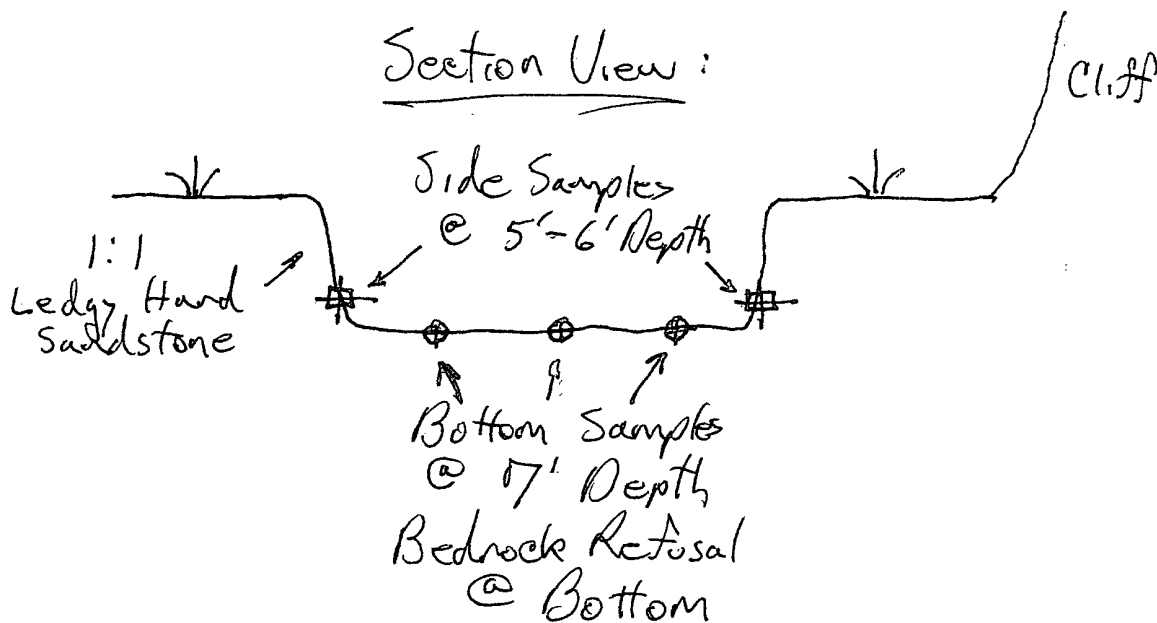
Brandon Penell

Date:

JAN 25 2007

Plan View:

Scale:
1" = 10'

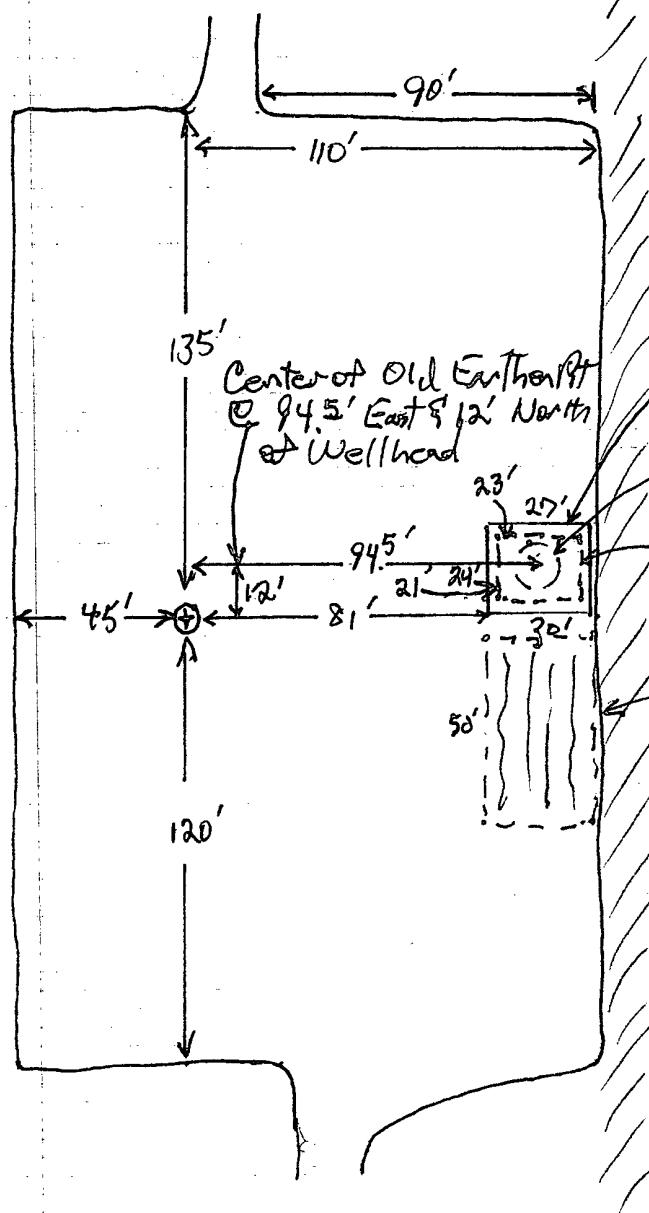
Section View:

⊕: Approx. Sampling Points for Bottom Composite Sample (5-Spot)

⊞: Approx. Sampling Points for Side Composite Sample (4-Spot)

FIGURE 2: Location Schematic : Remediation:

Fikes Fed. Com. #2
API #: 30-039-

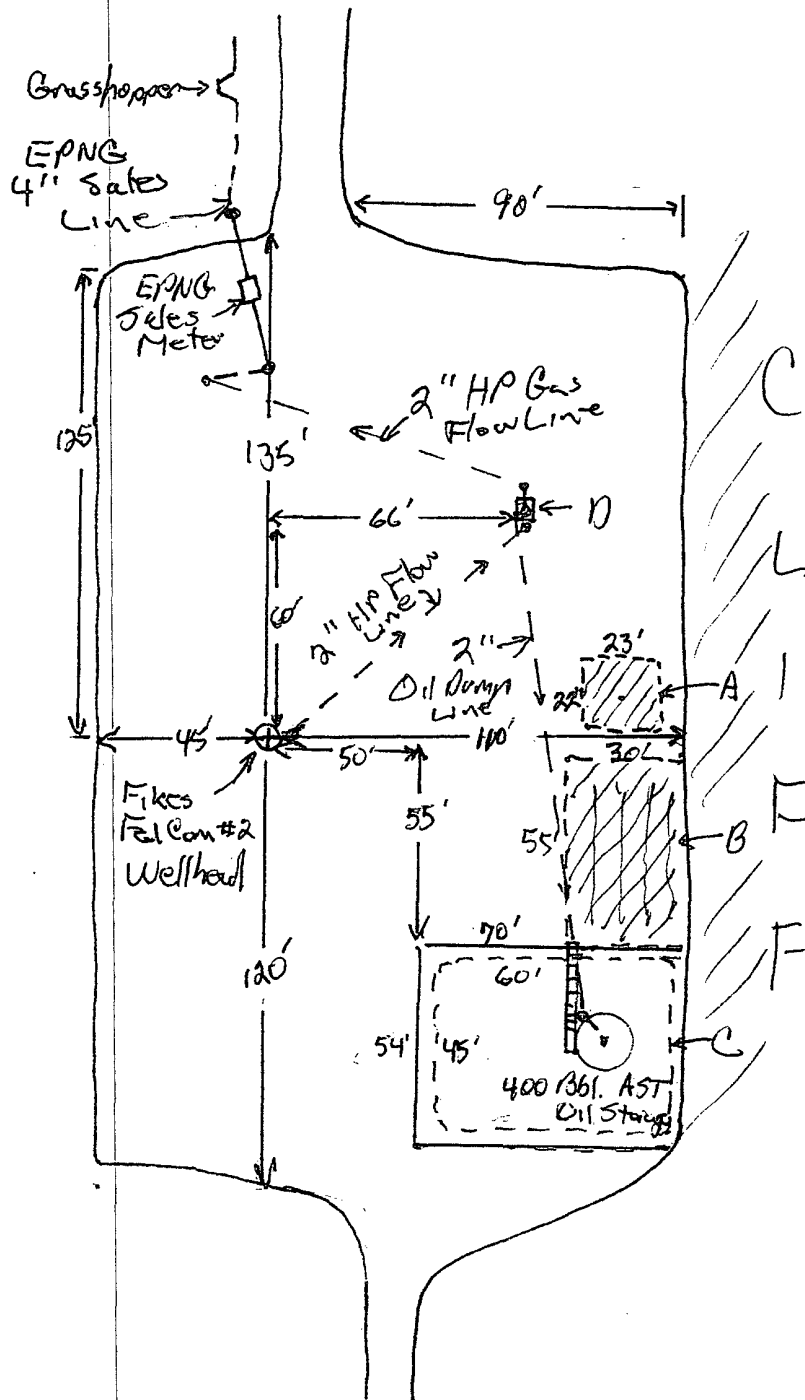


RDT Remediated As Follows:

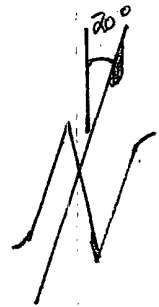
1. Remove the Improperly-Installed Below-Grade Fiberglass Tank.
- ** 2. Excavate Pit Bottom to 7' Depth & Bedrock Refusal: 23' x 21' x 7' Deep.
3. Sample Pit Bottom & Sides. OK. Sample Pit Pile. OK.
Flatten & Re-Sample Pit Pile. OK.
4. Fertilize Pit Bottom w/ 100# Hi-Na Fertilizer & Land Farm (Pit Pile)
w/ 150# Hi-Na Fertilizer. Re-Fill Excavation.
- ** Excavated Pit Sides until no visible stain or detectable odor.
Excavate Bottom until Bedrock Refusal.

Fikes Fel. Con. #2 Current Site Schematic

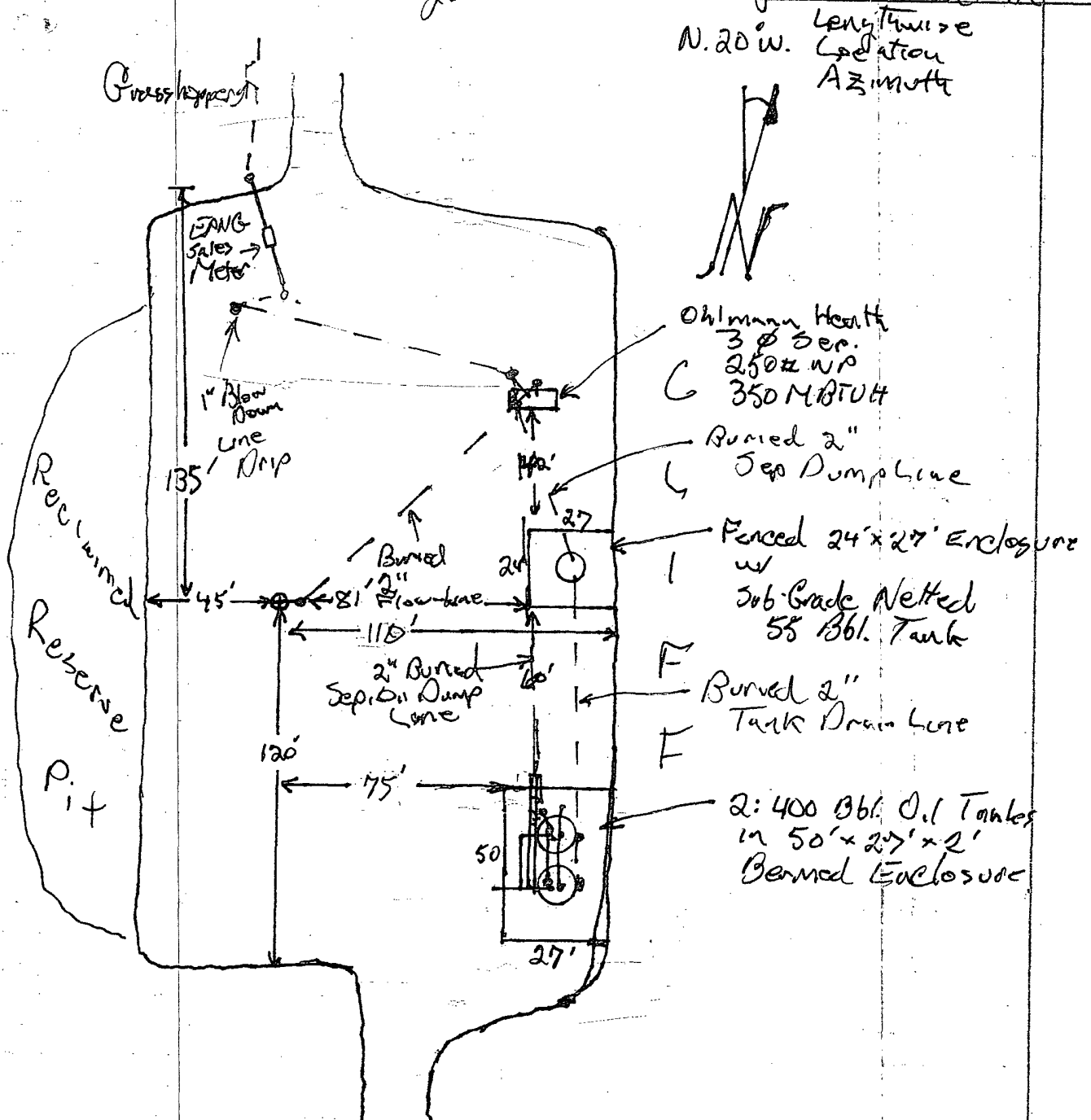
Figure 3



Longitudinal
Location
Azimuth
N. 20° W.



- A. 22'x23'x07' Deep Fully Remediated Earthy Production Pit that encountered Bedrock Refusal @ 7' Depth.
- B. 30'x55' Flattened Pit-Pile Land - Farm Fully Remediated.
- C. Fenced (70'x54') & Bermed (60'x45'x2' Berm) Enclosed Above-Ground Storage Tank & Oil w/ 400 Bbl. AST
- D. CIP 24"x6' 250# WPA Separator (Serial #1351) w/ 2500 BTU/Hr. Catalytic Heater.



1. Excavate Remove & Test Pit Enclosure Repair Net w/ Re-Installation
2. NO SIGN.

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-04

Date Received: 06/29/04

Date Reported: 07/02/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 2 Pit Bottom

*ok @ Bottom.
Bedrock Refuse
@ Bottom.*

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/01/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/01/04	LM
TPHDRO	8015	10	23.6	1	mg/kg	07/01/04	LM
Total TPH	8015/8021		23.6	1	mg/kg	07/01/04	LM

*TPH < 100 PPM
BTEX @ ND*


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-05

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 2 Pit Sides

OK @ Sides
@ 5'-6'

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/07/04	LM
TPHDRO	8015	10	<10	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		<10	1	mg/kg	07/11/04	LM

TPH @ ND < 100 PPM
BTEx @ ND


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 406-141-06

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: FIK 2 Pile

Pile OK.

*Order Flatter, Farm
& Re-Test*

Sample Date: 06/28/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/07/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/07/04	LM
TPHDRO	8015	10	<10	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		<10	1	mg/kg	07/11/04	LM

*TPH @ NO < 100 PPM
BTEX @ NO*


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Resource Development Technology LLC
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

GAL I.D.: 408-127-33

Date Received: 08/26/04

Date Reported: 09/10/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.:

FIKES 2 Pile *Pile OK @ Re-Test.*
After Flatten & Farm

Sample Date: 08/25/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	5.0	<5.0	1	µg/kg	09/10/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	09/10/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	09/10/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	09/10/04	LM
TPHGRO	8015	100	<100	1	µg/kg	09/10/04	LM
TPHDRO	8015	10	<10	1	mg/kg	09/08/04	LM

TPH @ ND < 100ppm
BTEX @ ND

D3
for John Green, Laboratory Manager