

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

NMOCDC Original

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 NMOCDC 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: Rita Com. #2 API #: 30-039-22883 U/L or Qtr/Qtr: 980' FSL & 1820' FEL, Unit 'O' of Sec. 5 T23N R6W

County: Rio Arriba Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

RCVD FEB20'07

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume 100 Bbl

Below-grade tank

Volume: 40 Bbl Type of fluid: Produced Fluids

Construction material: Fiberglass Tank

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

NO: The Fiberglass Tank was Improperly-Installed Below-Grade & was Removed.

OIL CONS. DIV.
DIST. 3

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	20
	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)	10
	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 _____. (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 production pit was remediated by excavating contaminated soil and mixing with an existing land-farm & land-farming the soil on-site. The pit was the original production pit east of the separator. The pit had an improperly installed 40-bbl fiberglass tank in it, which was removed. Approximately 390 cubic yards of soil were excavated from this pit. Initial pit samples were taken on 7/7/2004 from the pit sides & bottom, the excavated pit pile, and the existing land-farm and sent to the laboratory for TPH and BTEX analysis. The land-farm was fertilized & mixed with the pit pile & land-farmed. The pit bottom was fertilized & filled with clean fill out of a stock pond built SE of location with concurrence of the BLM. A final land-farm sample was taken on 5/06/2005 & met site remediation standards. The site diagram and sample results are attached. All FINAL sample results are less than the 100 ppm TPH standard for the 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 NMOCDC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 2/1/2007

Printed Name/Title Robert A. Schwering, PE, Operations Manager

Signature

Your certification and NMOCDC 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:

Printed Name/Title

DEPUTY OIL & GAS INSPECTOR, DIST. #4

Signature

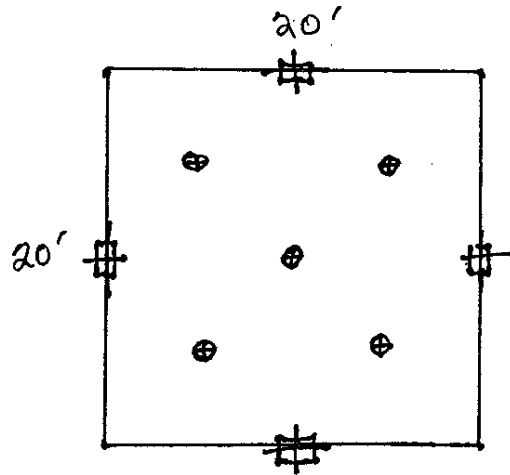
Date:

FEB 20 2007.

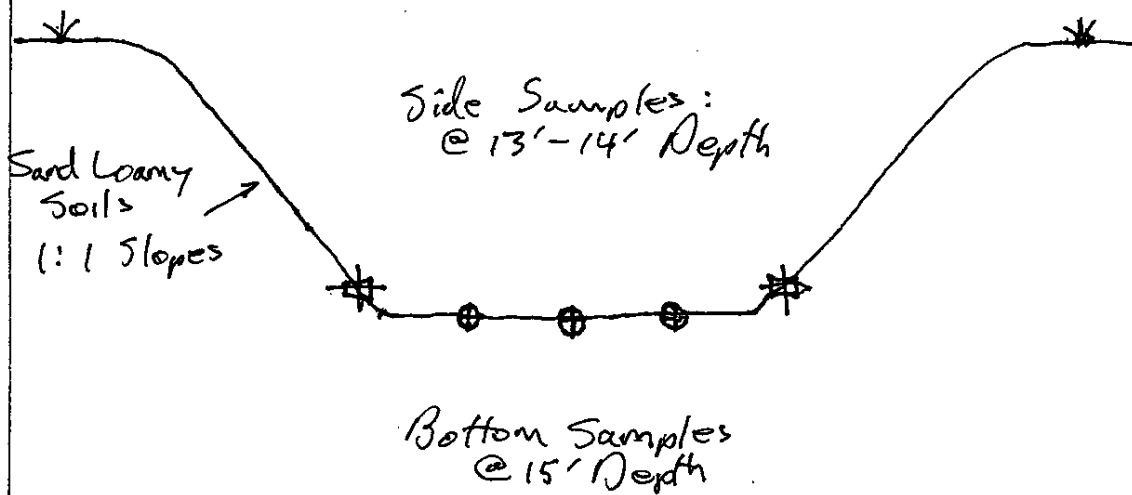
WELL	Comments	Pit #	Date Of Sample	Location	Depth or Lateral	Benzene PPM	BTEX PPM	TPH GRO PPM	TPH DRO PPM	TPH DRO+GRO PPM	Allowable TPH MAX
API #	Mitigation Methodology										
Location	NMOCD Comments										

Date: 07-08-2005

Rita Com. #2	ORDER CLOSED w/ Clean Fill: 10/7/2004.	###	7/7/2004	Pit Bottom	15'	ND	ND	ND	77.80	77.80	100.00
API: 30-039-22893	Final Pit: 20' x 20' x 15'.		7/7/2004	Pit Slides @	13' - 14'	ND	ND	ND	ND	ND	100.00
980' FSL & 1820' FEL	EXCAVATION COMPLETE & CLOSED.		7/7/2004	Pit Pile		ND	ND	ND	136.00	136.00	100.00
Unit 'O' of Section 5			7/7/2004	Old Land Farm		ND	ND	ND	1280.00	1280.00	100.00
T23N- R6W	Re-Test Land Farm after Cornbine Old + New & Fert & Disc: Failed.		11/10/2004	Land Farm		ND	ND	ND	352.00	352.00	100.00
Rio Arriba Co. NM	REMEDIAATION COMPLETE		5/6/2005	Final Test: Land Farm		ND	ND	ND	36.00	36.00	100.00
	Fertilize Pit Bottom w/ 100#.		PIT WORK:	Pit excavated to Below Limit. Back-Filled w/ Clean Fill.							
	Fertilize Land Farm w/ 150#.		Land Farm:	Mixed/fertilized pit excavation & only dirt on location w/ Old Land Farm.							



Scale:
1" = 10'

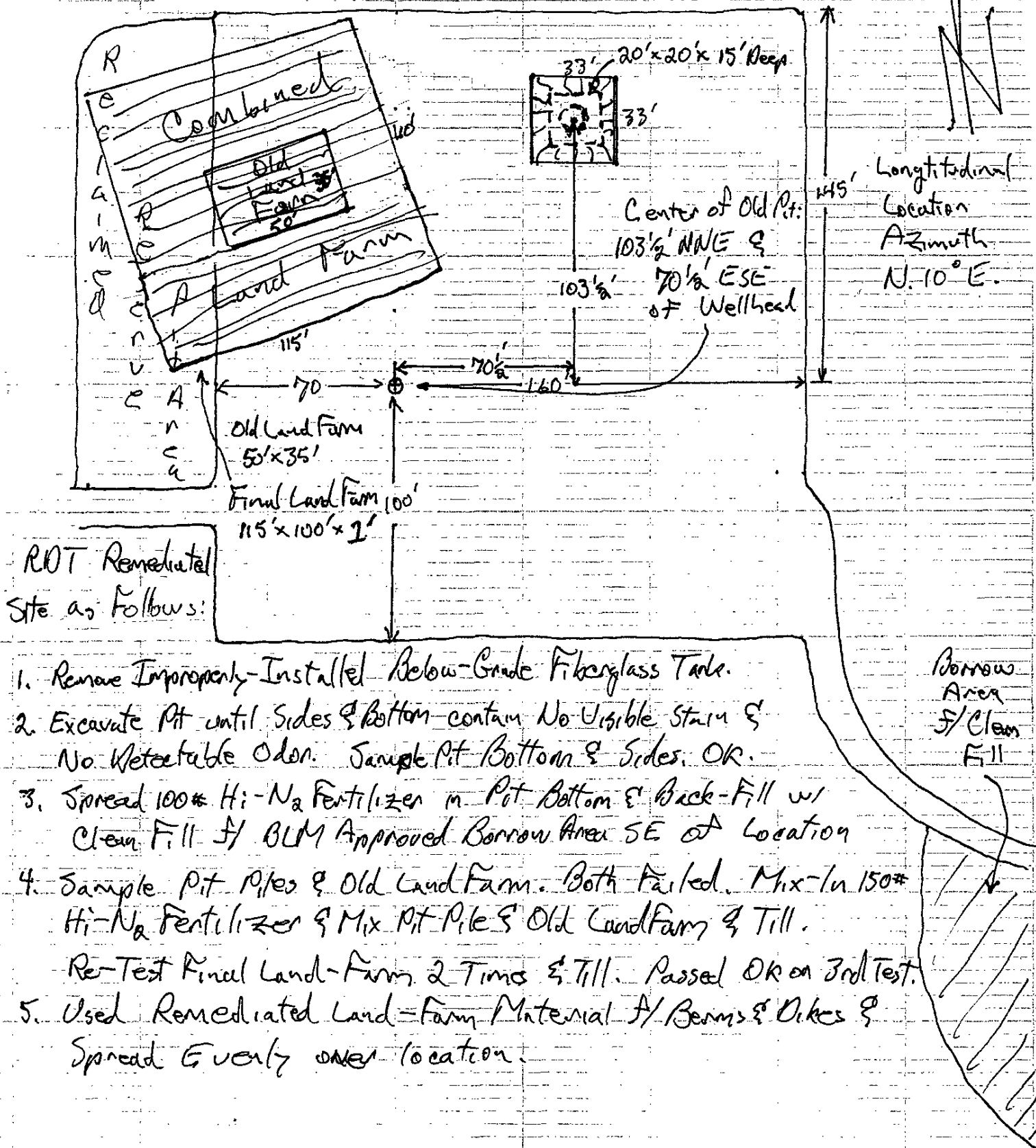
Section View:

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

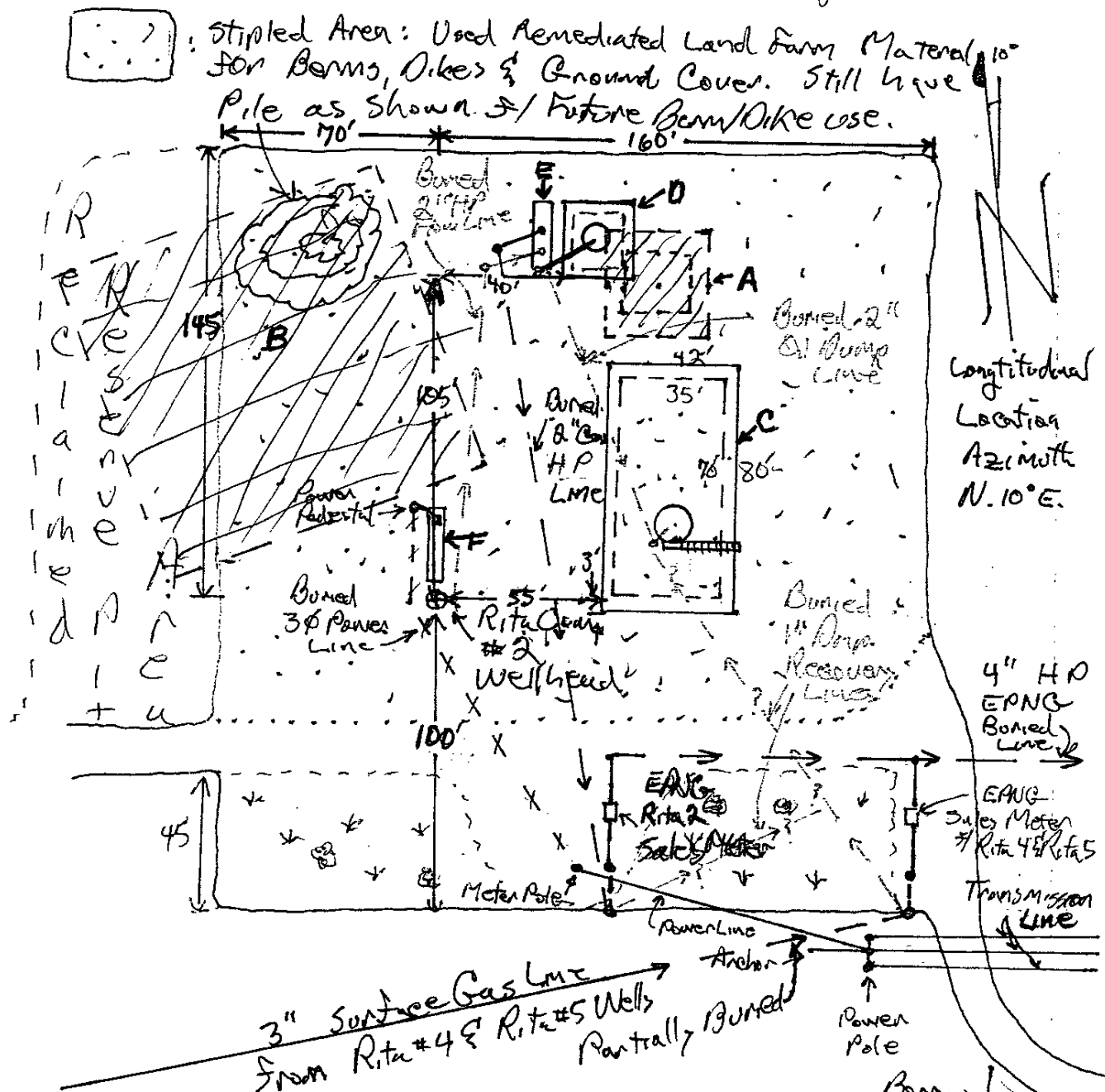
#: Approx. Sampling Points: Side Composite Sample
(4-spot)

Figure 2 : Location Schematic: Remediation

Rita Corn #2: API # 30-039-22883

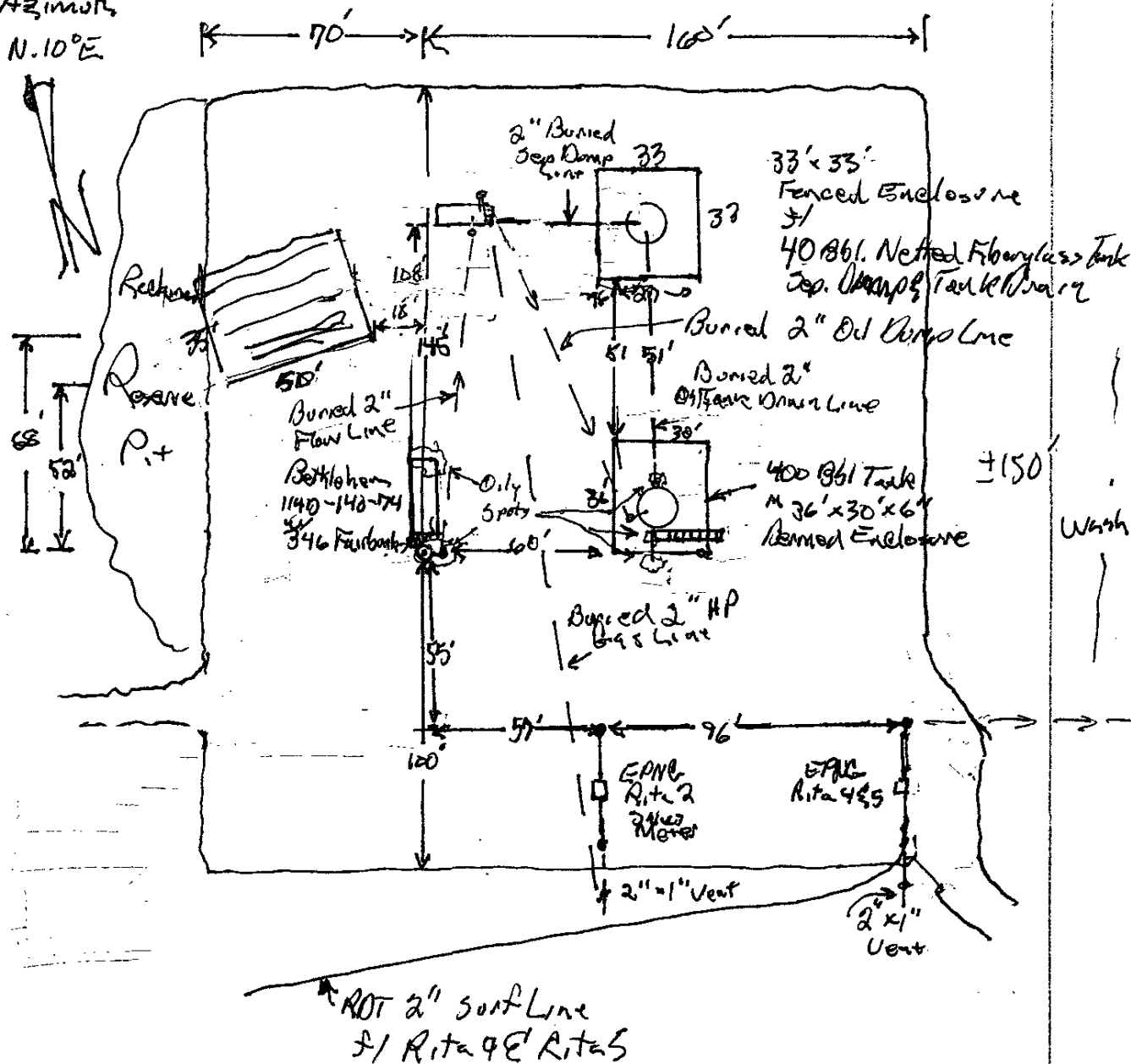


Rita Corn. #2 Current Site Schematic Figure 3



- A: 20' x 20' x 15' Deep Excavation @ Bottom of Old Earthen Production Spread 100# Hi-N₂ Fertilizer in Pit Bottom & Back-Filled w/ Clean Fill from After Tested OK.
- B: 115' x 100' x 1' Land Farm Mixed w/ 150# Hi-N₂ Fertilizer. Tested OK on 5/6/2005 Fully Remediated to Site Standard
- C: Fenced (80' x 42') & Bermed (70' x 35' x 3' Berm) Tank Battery Enclosure Using Land-Farmed Remediated Material in Berms & Containing a 400 Bbl. Above-Ground Oil Storage Tank.
- D: Fenced (24' x 24') & Bermed (19' x 19' x 18") Water Tank Enclosure Using Land-Farmed Remediated Material in Berms & Containing a 35 Bbl. Above-Ground Fiberglass Water Tank.
- E: National 3φ 250# W 36" x 12' Separator w/ a 375 BTU Heater (SN# 20881)
- F: Bethlehem 114N-140-74 Pumping Unit w/ a 20 Hp. Baldor Electric Motor

Lengthwise
Location
Azimuth
N. 10° E



1. Excavate, Remove & Test Below Fiberglass Tank; Reinstall and Re-net Tank
2. Clean-up oily dirt & Finish Remediating Land Area
3. REBUILD TANK BEAM TO 3'

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.: 407-029-06

Date Received: 07/08/04

Date Reported: 07/13/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 2 Pit Bott

Bottom OK
@ 15'

Sample Date: 07/07/04

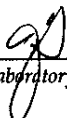
Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/13/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/13/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/13/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/13/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/13/04	LM
TPHDRO	8015	10	77.8	1	mg/kg	07/11/04	LM
Total TPH	8015/8021	10	77.8	1	mg/kg	07/11/04	LM

TPH @ 77.8 PPM < 100 PPM
BTEx @ N.D.


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.: 407-029-07

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 2 Pit Sides

Pit Sides OK
@ 13'-14'

Sample Date: 07/07/04

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	07/15/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/15/04	LM
TPHDRO	8015	10	<10	1	mg/kg	07/14/04	LM
Total TPH	8015/8021	10	<10	1	mg/kg	07/14/04	LM

TPH @ N.D. < 100 PPM
BTEX @ N.D.


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.: 407-029-08

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 2 Pile

Pit Pile Fails.

Sample Date: 07/07/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/15/04	LM
TPHDRO	8015	10	136	1	mg/kg	07/14/04	LM
Total TPH	8015/8021	10	136	1	mg/kg	07/14/04	LM

Fail: TPH @ 136 PPM > 100 PPM Standard. Fails

Pass: BTEX @ N.D.


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.: 407-029-09

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 2 Land

Old Land Farm
Fuels

Sample Date: 07/07/04

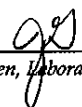
Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Ethylbenzene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Toluene	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
Xylene, total	8021	0.005	<0.005	1	mg/kg	07/15/04	LM
TPHGRO	8015	0.1	<0.1	1	mg/kg	07/15/04	LM
TPHDRO	8015	10	1280	1	mg/kg	07/14/04	LM
Total TPH	8015/8021	10	1280	1	mg/kg	07/14/04	LM

Fail: TPH @ 1280 PPM > 100 PPM Standard.
Pass: BTEX @ N.D.


John Green, Laboratory Manager

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

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

GAL I.D.: 411-061-11

Date Received: 11/11/04

Date Reported: 11/22/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: RAS 0015

SAMPLE I.D.: Rita Fed #2 Land Farm

*Land Farm Fails.
11/10/2004*

Sample Date: 11/10/04

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	5.0	<5.0	1	µg/kg	11/15/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	11/15/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	11/15/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	11/15/04	LM
TPHGRO	8015	100	<100	1	µg/kg	11/17/04	LM
TPHDRO	8015	10	352	1	mg/kg	11/22/04	LM

*Mixed & Fertilized Pit Pile & Old Land Farm.
Fail : TPH @ 352 PPM > 100 PPM Standard
Pass : BTEX @ N.D.*

D. Zupelt
for John Green, Laboratory Manager

Final Land Farm Test. OK. Sample Date 5/6/2005

Green Analytical
75 Suttle Street
Durango CO, 81303

Project: Resource Development
Project Number: GA05-092
Project Manager: Debbie Zufelt

Reported:
05/16/05 11:22

Rita 2 Land
T500565-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	ND	500	ug/kg	1	5051014	05/10/05	05/13/05	EPA 8015m	
Surrogate: 4-Bromofluorobenzene	81.6 %	65-135			"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	36	10	mg/kg	1	5051006	05/10/05	05/11/05	EPA 8015m	D-09
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Volatile Organic Compounds by EPA Method 8021B

Benzene	ND	5.0	ug/kg	1	5051014	05/10/05	05/13/05	EPA 8021B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	78.8 %	65-135			"	"	"	"	

TPH @ 36 PPM < 100 PPM. OK.
BTEX @ N.D.

SunStar Laboratories, Inc.



Dennis Dorning, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.