

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

NMOCOD Original Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCOD 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 #5 API #: 30-039-23351 U/L or Qtr/Qtr: 890' FSL & 760' FWL, Unit 'M' of Sec. 5 T23N R6W

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

Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

RCVD FEB20'07

OIL CONS. DIV.
DIST. 3

Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume <u>140 Bbl</u>	Below-grade tank Volume: <u>40 Bbl</u> Type of fluid: <u>Produced Fluids</u> Construction material: <u>Foiberglass Tank</u> Double-walled, with leak detection? Yes ☐ If not, explain why not. <u>NO: The Fiberglass Tank was Improperly-Installed Below-Grade & was Removed.</u>
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 production pit was remediated by excavating contaminated soil and mixing with an existing landfarm & landfarming the soil on-site. The pit was the original production pit between the separator & the Oil Tank. The pit had an improperly installed 40-bbl fiberglass tank in it, which was removed. Approximately 720 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 landfarm and sent to the laboratory for TPH and BTEX analysis. The landfarm was fertilized & mixed with the pit pile & landfarmed. The pit bottom was fertilized & filled with clean fill out of the location cut bank. A final landfarm sample was taken on 11/10/2004 & 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 NMOCOD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 1/31/2007

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

Signature R.A. Schwering

Your certification and NMOCOD 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 Brand R.D.

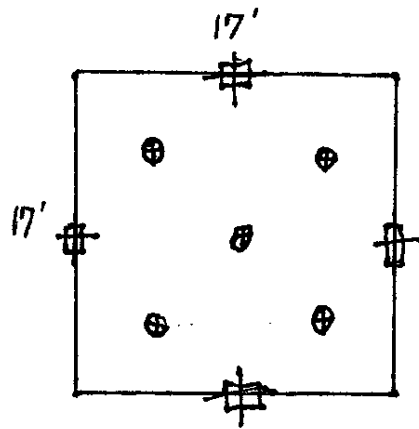
Date: FEB 20 2007

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										

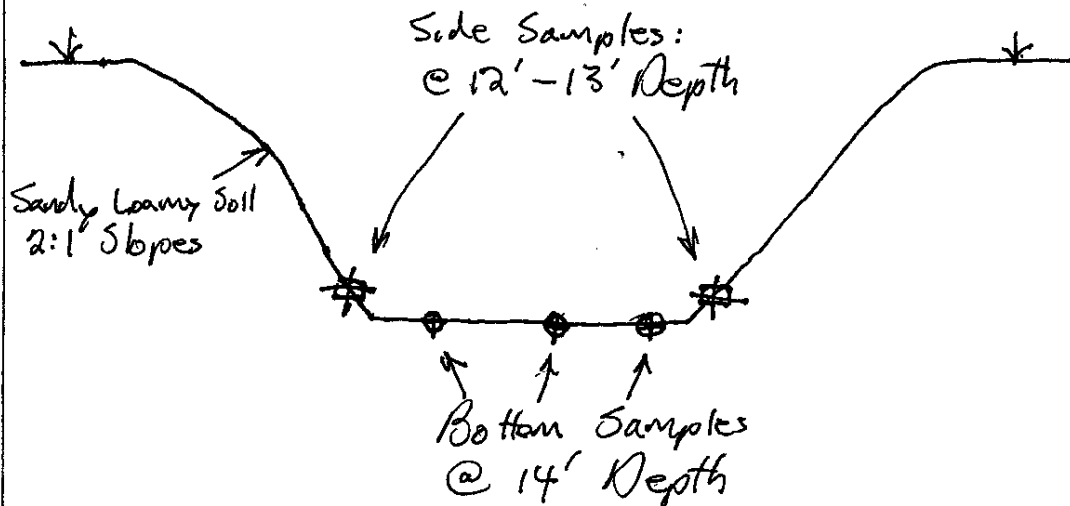
Date: 07-08-2005

Rita #5	ORDER CLOSED w/ Clean Fill: 7/30/2004.	15	7/7/2004	Pit Bottom	14'	ND	ND	ND	ND	ND	100.00
API: 30-039-23351	Final Pit: 17' x 17' x 14'		7/7/2004	Pit Sides @	12 - 13'	ND	ND	ND	ND	ND	100.00
890' FSL & 760' FWL	EXCAVATION COMPLETE & CLOSED.		7/7/2004	Pit Pile		ND	ND	ND	113.00	113.00	100.00
Unit M of Section 5			7/7/2004	Old Land Farm		ND	ND	ND	578.00	578.00	100.00
123M-R6W	Re-Test Land Farm after Combine Old + New & Fert. & Farm. Now OK		11/10/2004	Final Test: Land Farm		ND	ND	ND	97.90	97.90	100.00
Rio Arriba Co., NM	REMEDIAATION COMPLETE										
	Fertilize Pit Bottom w/ 100#.										
	Fertilize Land Farm w/ 100#.										

Land Farm: Mixed pit excavation dirt, fertilizer & oily dirt on location w/ Old Land Farm. Land Farm Below Limit.

Plan View:

Scale
1" = 10'

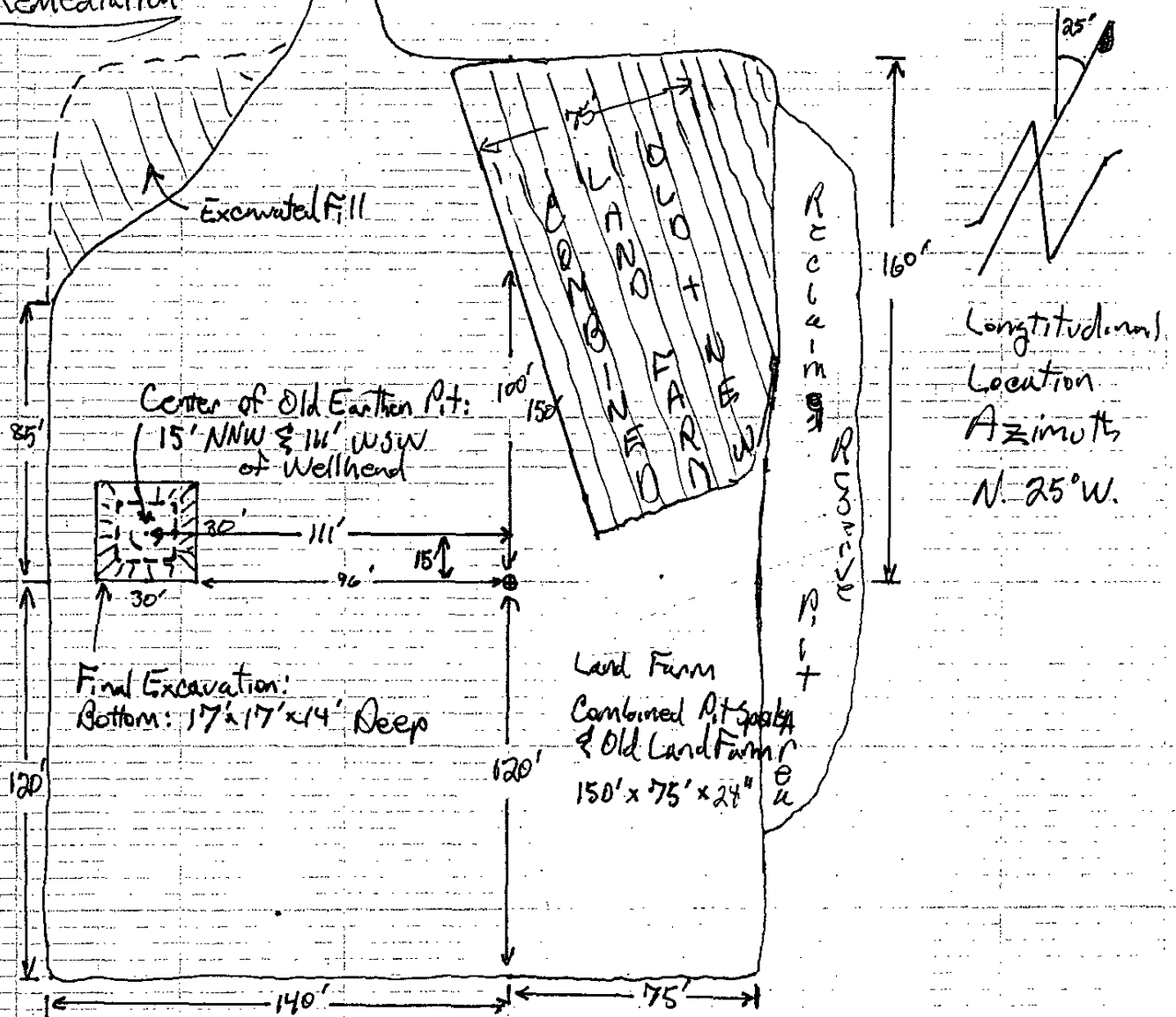
Section View:

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

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

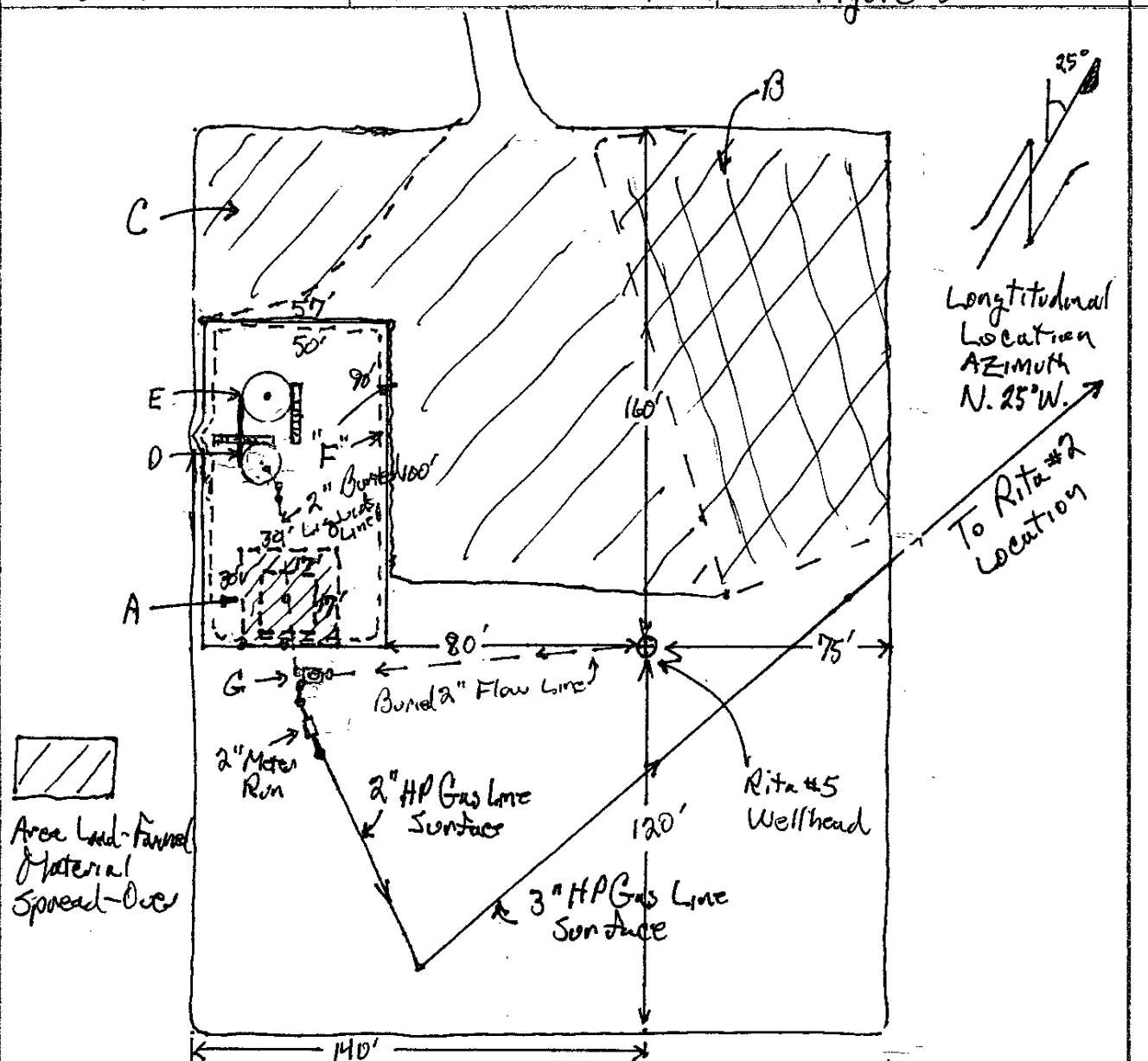
Figure 2:
Location Schematic:
Remediation

Rita #5:
ANI: 30-039-23351



PNT Remediated As Follows

1. Remove Improperly-Installed Below-Ground Fiberglass Tank.
2. Excavate Pit Until Sides & Bottom contained No Visible Stain & No Detectable Odor.
3. Sample Pit Bottom & Sides. OK.
4. Spread 100# Hi-Na Fertilizer in Pit & Fill Pit w/ Clean Fill Excavated f/ NW Corner of Location.
5. Sample Pit Spoils & Old Land Farm, Both Failed. Mix in 100# Hi-Na Fertilizer & Pit Spoils & Old Land Farm & Till. Re-Test Land Farm. OK.
6. Use Land Farm f/ Berms & Drag & Spread Evenly over N 1/2 of Location.



A. 17' x 17' x 14' Deep Excavation @ Bottom of Earthen Production Pit. Spread 100# Hi-Na Fertilizer on Bottom of Pit. Back-Filled w/ Clean Dirt From Area C. Tested OK.

B. 75' x 150' x 2' Land Farm Mixed w/ 100# Hi-Na Fertilizer. Tested OK on 11/11/2004 Fully Remediated to Site Standards.

C. Area in NW Corner of Location where obtained clean-Fill # Pit.

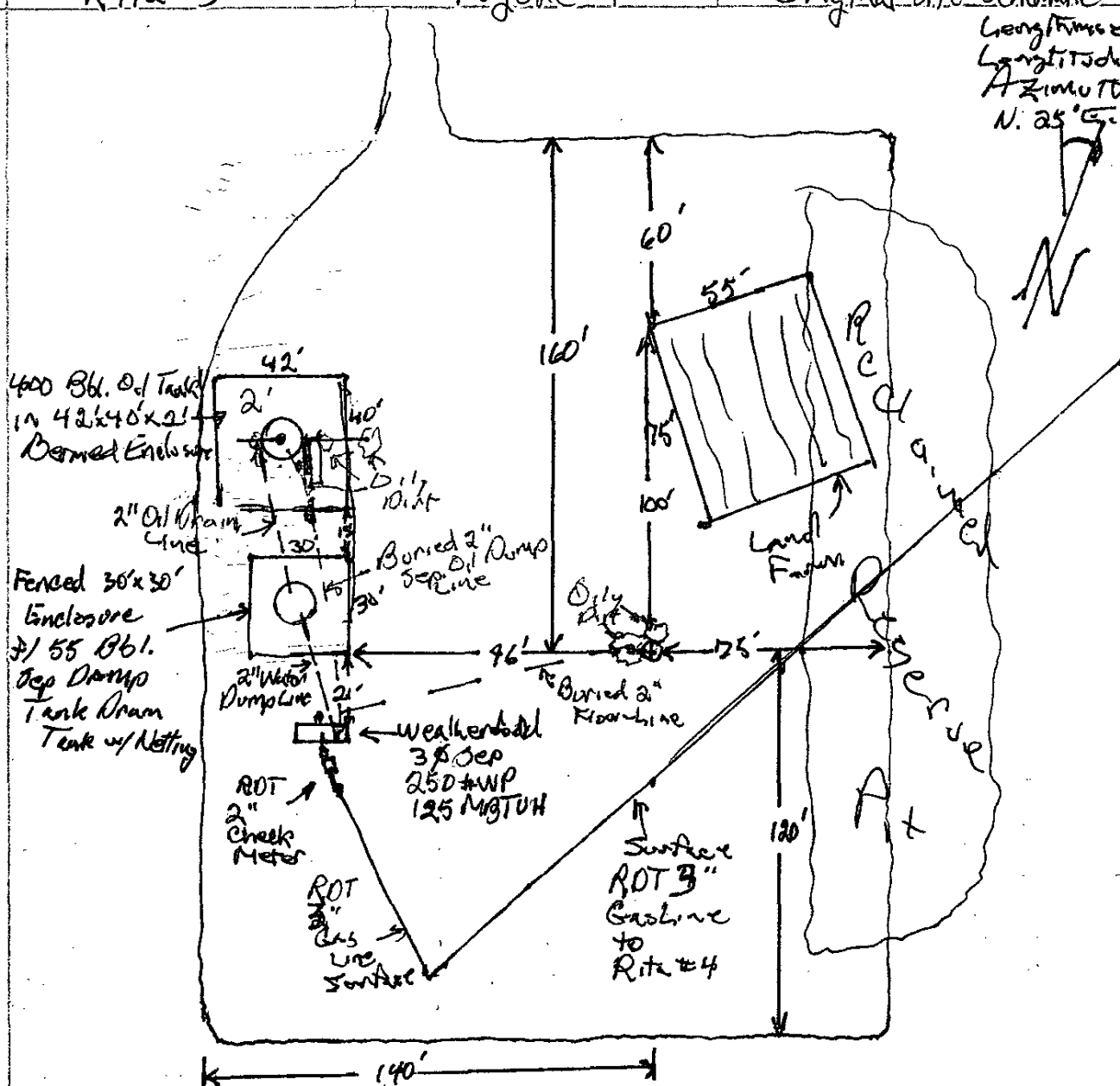
D. 210 Bbl. Heated Separator Tank. (AST).

E. 400 Bbl. Oil Tank (AST).

F. Fenced (57' x 100') & Bermed (50' x 90' x 2' Berm) Tank Battery Enclosure Used Land-Farmed Material to Build Bermed Enclosure.

G. CIP 6' x 18" Vertical 2" Separator (Ser. # 36183)

Longitude
Longitude
Azimuth
N. 25° E.



1. Excavate & Remove 55 Bbl. Fiberglass Tank
Re-Install same w/ New Netting
2. Clean-up Oil Dirt to Land Farm
3. Finish Remediating Land Farm

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.: 407-029-10

Date Received: 07/08/04

Date Reported: 07/13/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 5 Pit Bott

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	<10	1	mg/kg	07/11/04	LM
Total TPH	8015/8021	10	<10	1	mg/kg	07/11/04	LM

TPH @ N.D. < 100 ppm
BTX @ 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.: 407-029-11

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 5 Pit Sides

Sides
OK @ 12'-13'

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.: 407-029-12

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 5 Pile

*Pit Pile Test
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	113	1	mg/kg	07/14/04	LM
Total TPH	8015/8021	10	113	1	mg/kg	07/14/04	LM

BTEX @ N.D. Ok.

TPH @ 113 ppm.

Max w/ Land Farm & Fertilize


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.: 407-029-13

Date Received: 07/08/04

Date Reported: 07/15/04

QC Batches:

PROJECT NAME: RTD Pits

PROJECT NUMBER:

SAMPLE I.D.: RITA 5 Land

Old Land Farm
Initial Test Fuels.

Sample Date: 07/07/04

Sample Matrix: Soil

Petroleum Hydrocarbons

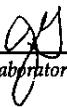
RESULTS

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	578	1	mg/kg	07/14/04	LM
Total TPH	8015/8021	10	578	1	mg/kg	07/14/04	LM

BTEX @ N.D.

TPH @ 578 PPM.

Mix w/ Pit Spoils & Fertilizer.


John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
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Resource Development Technology
PO Box 1020
Morrison, CO 80465
Attention: Bob Schwering

*Combined
Land Farm
Final Test. OK*

GAL I.D.: 411-061-10

Date Received: 11/11/04

Date Reported: 11/22/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: RAS 0014

SAMPLE I.D.: Rita #5 Land Farm

Sample Date: 11/10/04

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	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	97.9	1	mg/kg	11/22/04	LM

BTEX @ N.D. OK.

TPH @ 97.9 ppm < 100 ppm.

Below Site Standard.

Remediation Complete.

D. Zupfel
for: John Green, Laboratory Manager