

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

NMOCDO Original Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCDO 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: <u>Resource Development Technology LLC</u> Telephone: <u>(303) 716-3200</u> e-mail address: <u>ras.rdt@mindspring.com</u> Address: <u>P.O. Box 1020, Morrison, CO 80465</u> Facility or well name: <u>Gonzalez Fed. Com. #1</u> API #: <u>30-039-22951</u> U/L or Qtr/Qtr <u>950' FSL & 1850' FWL, Unit N of Sec 22 T 25N R 6W</u> County: <u>Rio Arriba</u> 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 <u>120</u> Bbl. (14' x 12' x 4' Deep in 20' x 20' Berm)	Below-grade tank Volume: <u>NA</u> Bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____	RCVD SEP 6 '07 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) 0 (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 No	(20 points) (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 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) 10 (0 points)
Ranking Score (Total Points)		10

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: The original unlined approx. 120 Bbl. earthen production pit (north of the separator) was remediated by excavating contaminated soil, and land-farming the soil on-site. Approximately 105 cubic yards of soil were excavated from this pit. On 9/30/2004 a composite pit bottom sample @ 8' Depth @ Bedrock met TPH & BTEX Site Remediation Standards (excavation @ 15' x 15' x 8' Deep: the Side Composite Sample @ 6' - 7' Failed). The excavation was enlarged until no visible stain or odor was left in the sides & on 12/6/2004 a composite side sample was taken from the pit (21' x 21' x 8' Deep @ Bedrock) and sent to the laboratory for TPH and BTEX analysis and met site remediation standards. The original excavated soil (Land Farm #1) was fertilized (800# Hi-N2), tilled & sampled repeatedly with the final 2 samples collected on 11/7/2005 & 11/14/2006 met site remediation standards. The finally excavated material (Land Farm #2) was fertilized (100# Hi-N2), tilled & met site remediation standards on 12/6/2004 & was used in battery berm construction. The excavation was back-filled w/ 150# Hi-N2 fertilizer & clean fill. The site diagram and sample results are attached. All FINAL excavation & sample results are less than the TPH & BTEX Remediation Standards 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 NMOCDO guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 8/23/2007

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

Signature

Your certification and NMOCDO 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,
District #3

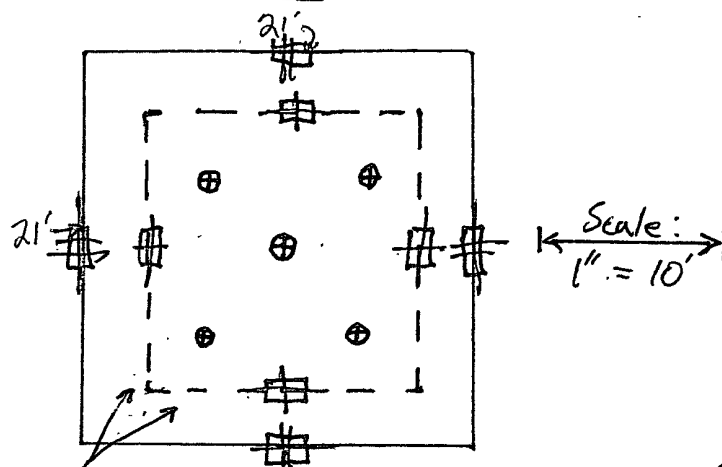
Printed Name/Title

Signature

Date:

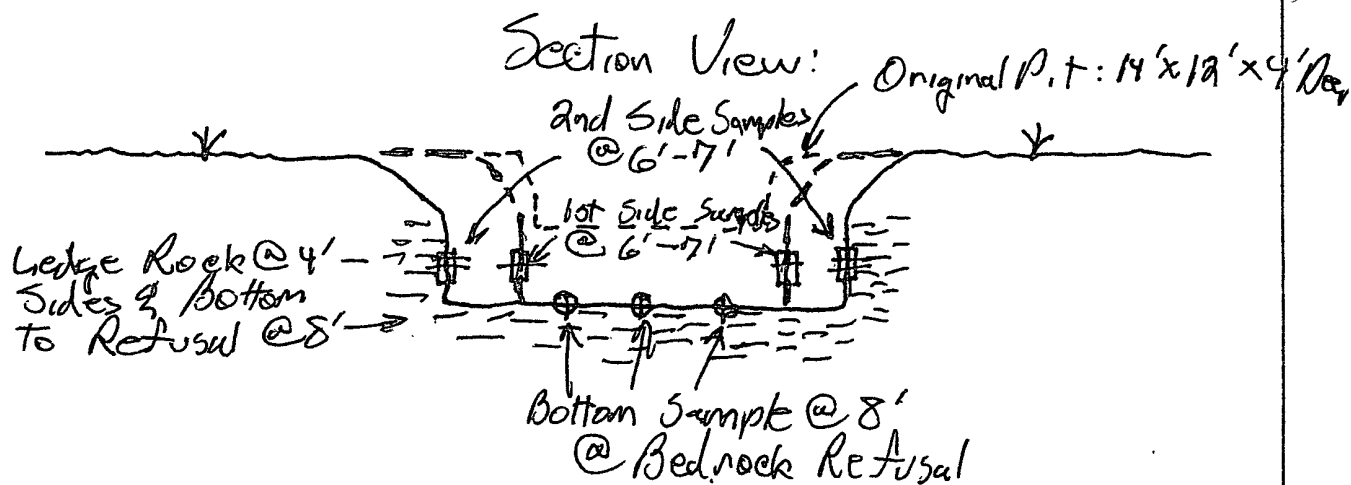
SEP 20 2007

Plan View



15' x 15' Original Excavation: 8' Deep @ Bedrock
 21' x 21' Final Excavation: 8' Deep @ Bedrock

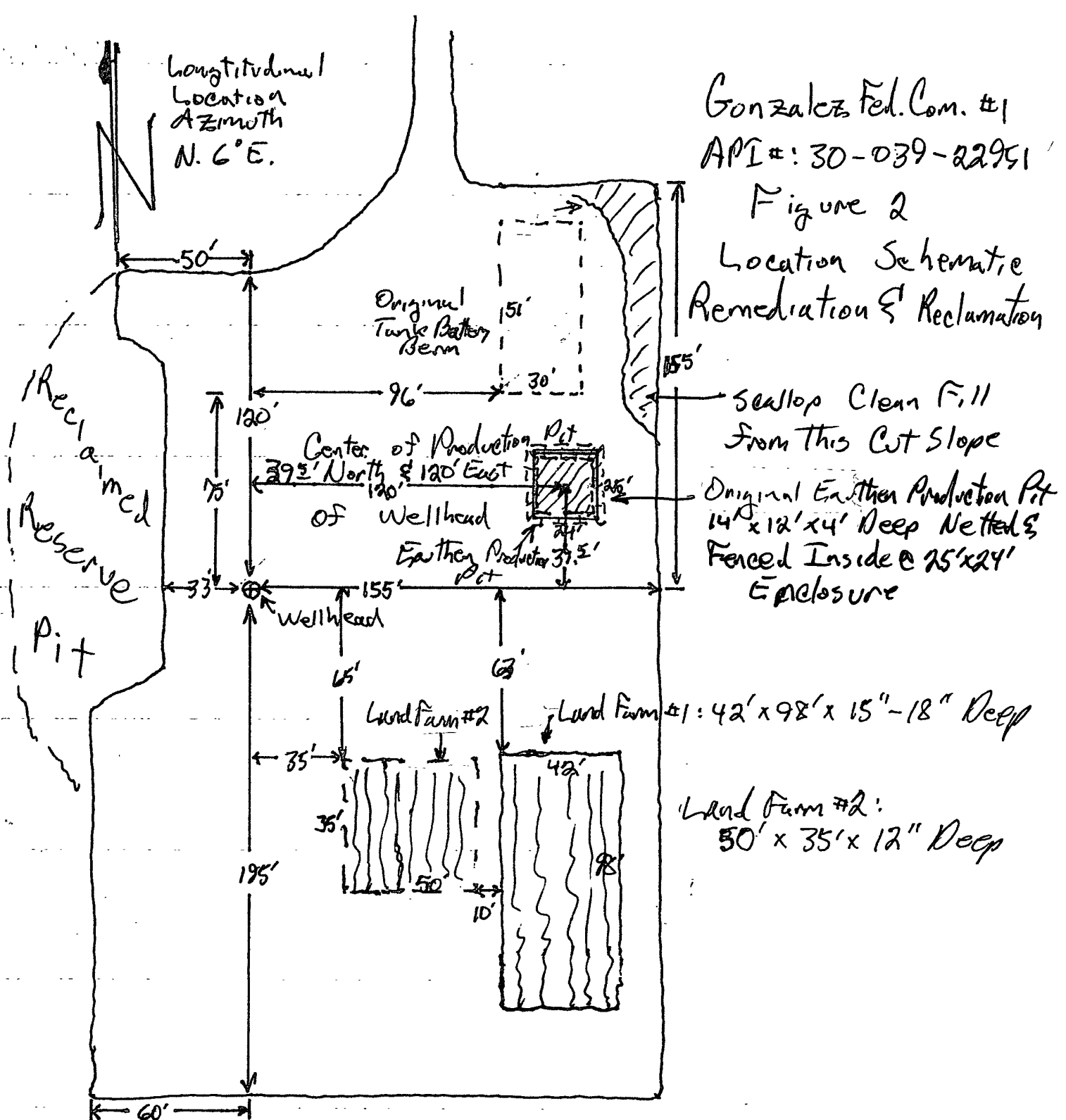
Section View:



⊗ : Approx. Sampling Points: Bottom Composite Sample:
 5-Spot Pattern

Orig. Excavation Final Excavation

⊗ ⊗ : Approx. Sampling Points: Side Composite Samples:
 4-Spot Pattern

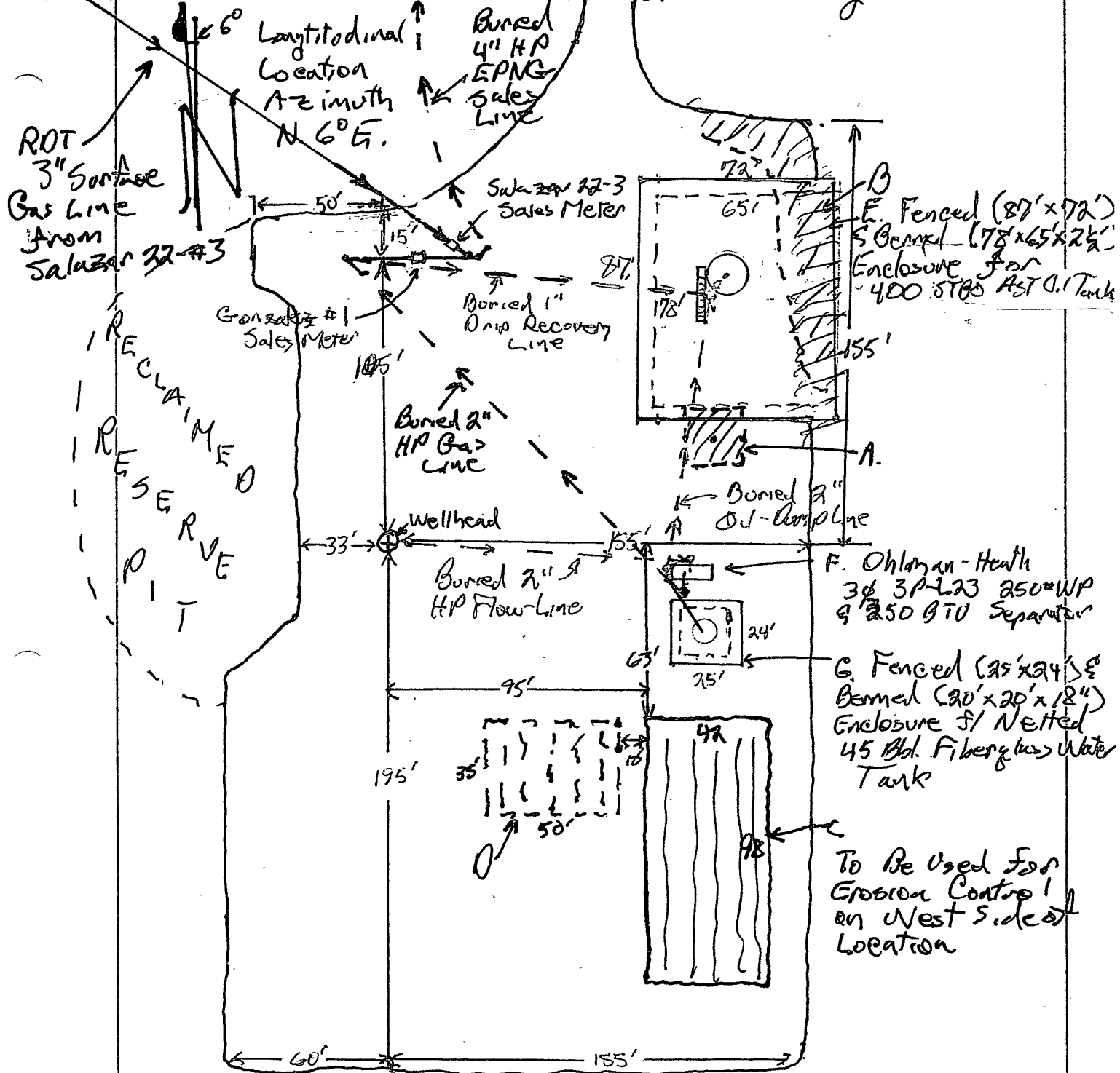


1. Take down Fence & Excavate 15' x 15' x 8' Deep @ Bedrock Refusal. Sample Bottom, Sides & Pile on 9/30/2004 & Bottom Passed.
2. Continue Excavating Laterally to 21' x 21' x 8' Deep @ Bedrock Refusal. Sample Sides & Land Farm #1 & Land Farm #2. Sides & Land Farm #2 Passed. No Odiferous or Oil-Stained Material In-Sides of Larger Excavation.
3. Fertilize Pit Bottom w/ 150# Hi-N₂ Fertilizer and Back-Fill w/ Clean Fill scalloped off NE cut slope behind tank battery.
4. Fertilize Land Farm #1 w/ 800# Hi-N₂ Fertilizer & Till Repeatedly until Land-Farm passed 2 consecutive tests w/ No Gas Range detected in final test. Used Land Farm #2 for Bottom Sample. Plan to use Land Farm #1 for Fertilizer Control.

Gonzalez Fed. Com. #1

Current Site Schematic

Figure 3



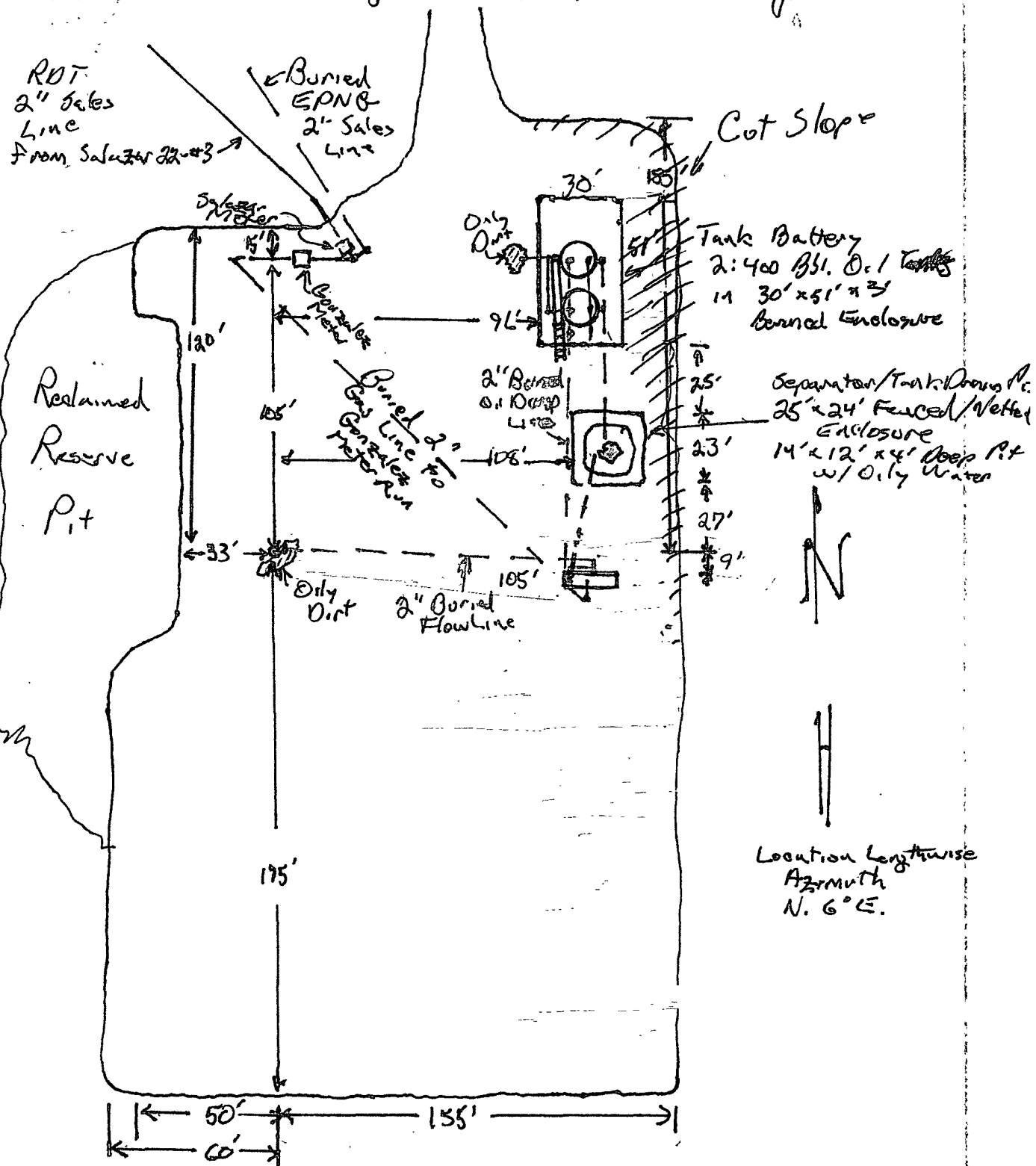
A. 21' x 21' x 8' Deep Earthen Production Excavation to Meet Site Remediation Standards. Back-filled w/ 150# H₂-N₂ Fertilizer.

Filled w/ Clean-Fill Scalped from Cut-Slope behind Tank Battery.

B. Borrow Area of Clean Fill behind what was then the Tank Battery.

C. 42' x 98' x 18" Deep Land Farm #1, Fertilized w/ 800# H₂-N₂ Fertilizer & Tilled until met Site Remediation Standards.

D. Previous Location of 35' x 50' x 1' Deep Land Farm #2 Fertilized w/ 100# H₂-N₂ Fertilizer & Tilled until met Site Remediation Standards Used in Constructing Improved Battery Berms



1. 5 lbs Yellow-Band 2 3/8" on Location

1. Excavate & Clean-up Separator/Tank Drain Pit
2. Clean-up oil-stained dirt.

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.: 410-003-29

Date Received: 10/01/04

Date Reported: 10/27/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: GONZ 1 PIT BOTTOM @ 8'

Sample Date: 09/30/04

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	10/21/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
TPHGRO	8015	100	<100	1	µg/kg	10/26/04	LM
TPHDRO	8015	10	443	1	mg/kg	10/20/04	LM

Passed: TPH @ 443 PPM < 1,000 PPM Site Standard
@ Bedrock

Passed: BTEX @ N.D. < 50 PPM Site Standard

D. Zufelt
For: 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.: 410-003-30

Date Received: 10/01/04

Date Reported: 10/27/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: GONZ 1 PIT SIDES @ 6'-7'

Sample Date: 09/30/04

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	10/21/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
TPHGRO	8015	100	<100	1	µg/kg	10/26/04	LM
TPHDRO	8015	10	1240	1	mg/kg	10/20/04	LM

Failed: TPH @ 1,240 PPM > 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

D. Zufelt
for 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.: 412-030-18

Date Received: 12/07/04

Date Reported: 12/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Gonz 1 Pit Sides @ Final Excavation

Sample Date: 12/06/04

Sample Matrix: Soil

@ 6'-7' Depth
Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
TPHGRO	8015	100	<100	1	µg/kg	12/17/04	LM
TPHDRO	8015	10	<10	1	mg/kg	12/17/04	LM

Passed: TPH @ N.D. < 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

D. Zufelt
For 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.: 410-003-31

Date Received: 10/01/04

Date Reported: 10/27/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: GONZ 1 PILE (From Initial Excavation)

Sample Date: 09/30/04

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	10/21/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	10/21/04	LM
TPHGRO	8015	100	98400 98.4	1	µg/kg	10/26/04	LM
TPHDRO	8015	10	5530	1	mg/kg	10/20/04	LM

Failed: TPH @ 5,628.4 PPM > 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

For: D. Zufelt
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.: 412-030-19

Date Received: 12/07/04

Date Reported: 12/20/04

QC Batches: --

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Gonz 1 Land 1

Sample Date: 12/06/04

Sample Matrix: Soil

Land Farm from Initial Excavation

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
TPHGRO	8015	100	39600 <i>39.6</i>	1	µg/kg	12/17/04	LM
TPHDRO	8015	10	2920	1	mg/kg		LM

Failed: TPH @ 2959.6 PPM > 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

D. Zupelt
For: 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.: 412-030-20

Date Received: 12/07/04

Date Reported: 12/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: Gonz 1 Land 2

Sample Date: 12/06/04

Sample Matrix: Soil

Land Farm from Final Excavation

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	12/17/04	LM
TPHGRO	8015	100	29000 <i>29.0</i>	1	µg/kg	12/17/04	LM
TPHDRO	8015	10	338	1	mg/kg		LM

Passed: TPH @ 367 PPM < 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

D. Zufelt
For: John Green, Laboratory Manager

Green Analytical
75 Suttle Street
Durango CO, 81303

Project: RDT Pits
Project Number: S05-099
Project Manager: Bob Schwening

Reported:
07/01/05 15:45

Gonzalez #1 Land Farm

RAS2-014
T500649-14 (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)	1600	<i>1.5</i> 500	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8015m	D-12
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Surrogate: 4-Bromofluorobenzene

94.4 % 65-135

" " " "

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	4200	10	mg/kg	1	5052707	05/27/05	06/03/05	EPA 8015m	D-04
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Volatile Organic Compounds by EPA Method 8021B

Benzene	ND	5.0	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8021B	
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Toluene	ND	5.0	"	"	"	"	"	"	
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Ethylbenzene	ND	5.0	"	"	"	"	"	"	
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m,p-Xylene	ND	10	"	"	"	"	"	"	
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o-Xylene	ND	5.0	"	"	"	"	"	"	
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Surrogate: 4-Bromofluorobenzene

99.2 % 65-135

" " " "

Failed: TPH @ 4,201.60 PPM > 1,000 PPM Site Standard

SunStar Laboratories, Inc.



John Shepler For 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.



CHAIN OF CUSTODY RECORD

Page 2 of 2

Client: Resource Development
Contact: Bob Schwerling
Address: PO Box 1020
Morrison, CO 80465
Phone Number: 303-716-3200
FAX Number: 303-716-5780

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO#

Project Name: RDT Pits

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY

GAL JOB #

505-099

Samplers Signature: _____

Lab Name: Green Analytical Laboratories, Inc. (970) 247-4220 FAX (970) 247-4227		Analyses Required										Comments					
Address: 75 Suttle Street, Durango, CO 81303		Collection		Miscellaneous			Preservative(s)										
Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH		Other (Specify)				
1. RAS2-011	5-25-05	6:00pm		3	1		X						BTEX	X	X	X	Warner 26 #1 Land Fill Salazar 23 #1 Land Fill Salazar 22 #1 Land Fill Portales #1 Land Fill Salazar 22 #3 Land Fill
2. RAS2-012		6:15pm		3	1		X						GRO	X	X	X	
3. RAS2-013		6:30pm		3	1		X						DRO	X	X	X	
4. RAS2-014		6:45pm		3	1		X							X	X	X	
5. RAS2-015		7:00pm		3	1		X							X	X	X	
6.																	
7.																	
8.																	
9.																	
10.																	
Relinquished by: <u>RA Schwerling</u>		Date: <u>5/26</u>	Time: <u>9:30am</u>	Received by: <u>Dellia Zuffert</u>		Date: <u>5-26-05</u>	Time: <u>09:30</u>										
Relinquished by:		Date:	Time:	Received by:		Date:	Time:										

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

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.: 511-046-08

Date Received: 11/08/05

Date Reported: 11/30/05

QC Batches:

PROJECT NAME: Pit Remediation

PROJECT NUMBER:

SAMPLE I.D.: 711-8 Gonzalez #1 Landfarm

Sample Date: 11/07/05

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	11/17/05	KP
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	11/17/05	KP
Toluene	8021	5.0	<5.0	1	µg/kg	11/17/05	KP
Xylene, total	8021	5.0	<5.0	1	µg/kg	11/17/05	KP
TPHGRO	8015	100	2340 <u>2,340</u>	1	µg/kg	11/17/05	KP
TPHDRO	8015	10	922	1	mg/kg	11/16/05	KP

Passed: TPHGRO 2340 PPM < 1000 PPM Site Standard

Passed: BTEX @ N.D. < 50 PPB Site Standard

Order additional follow-up test to
Confirm Clean-Up.

For D. Zupelt
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.: 611-090-05

Date Received: 11/15/06

Date Reported: 12/12/06

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: 1114-005

SAMPLE I.D.: Gonzales #1 LF

Sample Date: 11/14/06

Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	50	<50	1	µg/kg	12/06/06	KP
Ethylbenzene	8021	50	<50	1	µg/kg	12/06/06	KP
Toluene	8021	50	<50	1	µg/kg	12/06/06	KP
Xylene, total	8021	50	<50	1	µg/kg	12/06/06	KP
TPHGRO	8015	1000	<1000	1	µg/kg	12/06/06	KP
TPHDRO	8015	16	898	1	mg/kg	12/04/06	KP

Passed: TPH @ 898 PPM < 1000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPB Site Standard

For: D. Zupelt
John Green, Laboratory Manager

