

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

NMOCO 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: Warren 'G' Fed. 35- #2 API #: 30-039-22823 U/L or Qtr/Qtr 1650' FSL & 610' FEL, Unit 'I' of Sec 35 T 25N R 6W

County: Rio Arriba

Latitude

Longitude

NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

RCVD SEP 6 '07

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness _____ mil Clay ☐

Pit Volume 175 Bbl. (18' x 18' x 3' Deep in 20' x 20' Berm)

Below-grade tank

Volume: NA Bbl Type of fluid:

Construction material:

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

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)

50 feet or more, but less than 100 feet

(10 points)

0

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)

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. 175 Bbl. earthen production pit (N of the wellhead) was remediated by excavating contaminated soil, and land-farming the soil on-site. Approximately 36 cubic yards of soil were excavated from this pit in a 20' x 19' x 9' Deep Excavation. The Side Composite Samples met TPH & BTEX site remediation standards on 9/30/2004 (Bottom Sample failed @ 6'). The pit was deepened to 9' & the Bottom Sample taken on 12/6/2004 was again sent to the laboratory for TPH and BTEX analysis. The Bottom Sample @ 9' met site remediation standards. The excavation was then back-filled w/ 150# Hi-N2 fertilizer & clean fill. The excavated soil was fertilized (300# Hi-N2), tilled & sampled repeatedly until the final sample collected on 5/25/2005 met site remediation standards. The remediated sandy soil was used in battery berm construction & to prevent additional erosion on the west side of the location. The site diagram and sample results are attached. All FINAL excavation & sample results met 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 NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 8/22/2007

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,
District #3

Printed Name/Title

Signature

Date:

SEP 20 2007

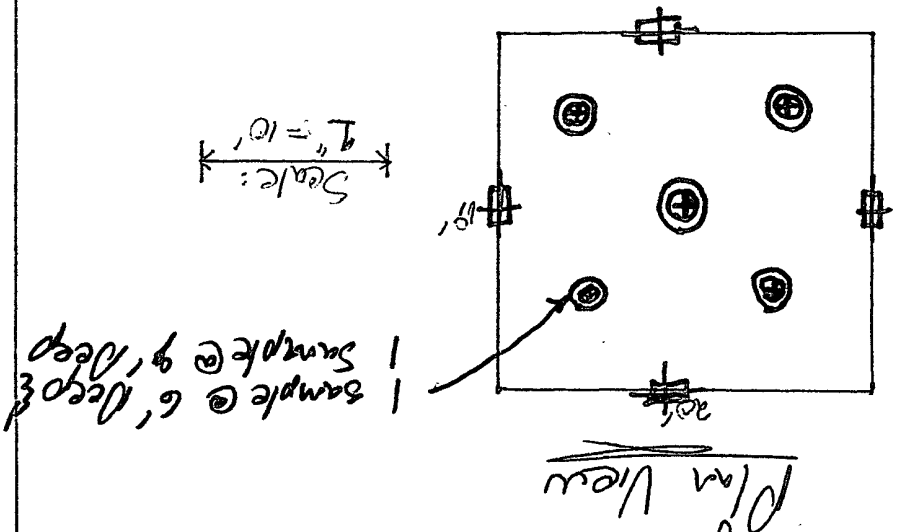
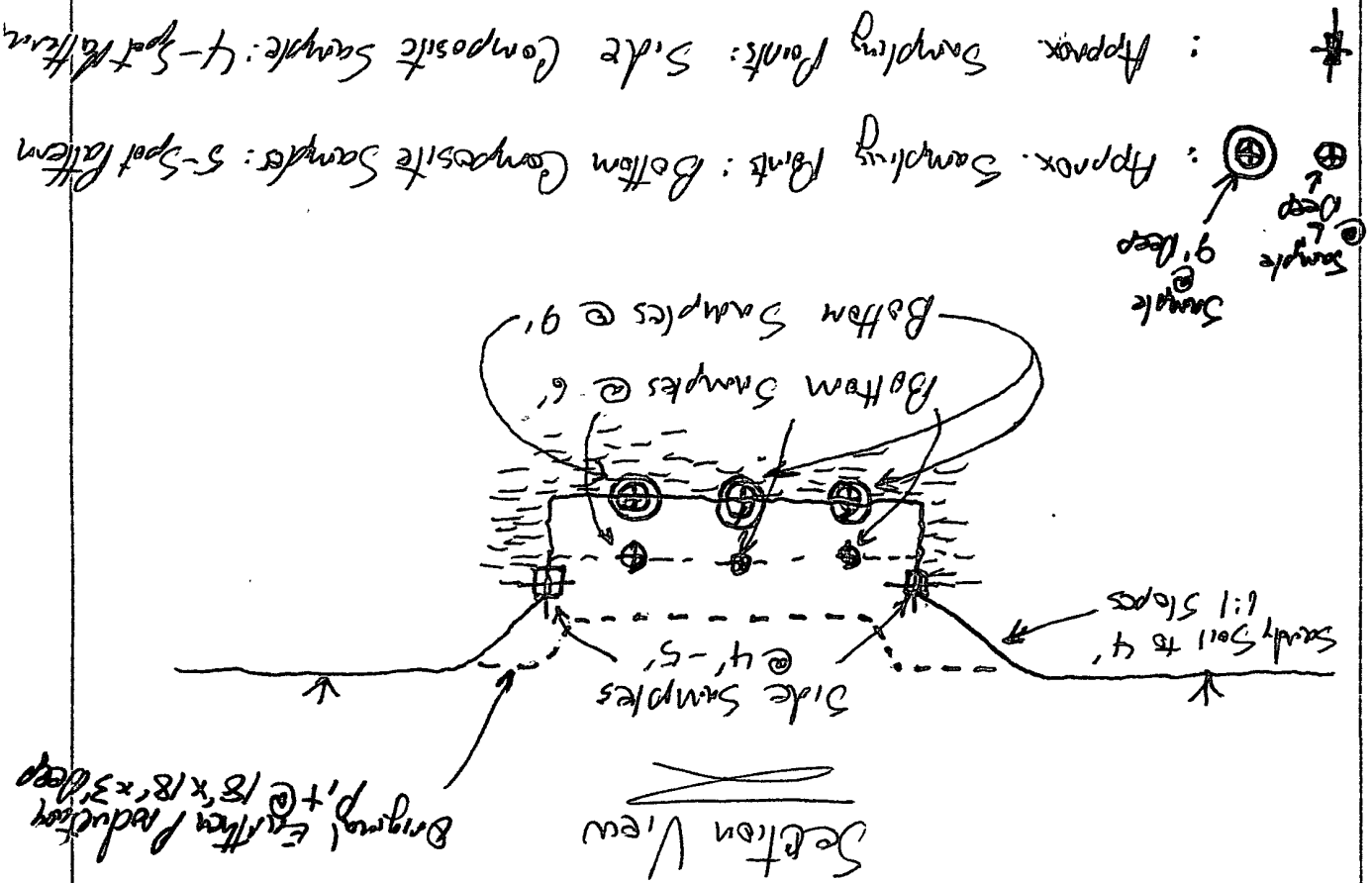
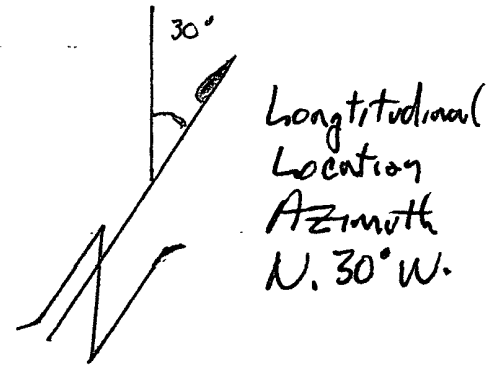


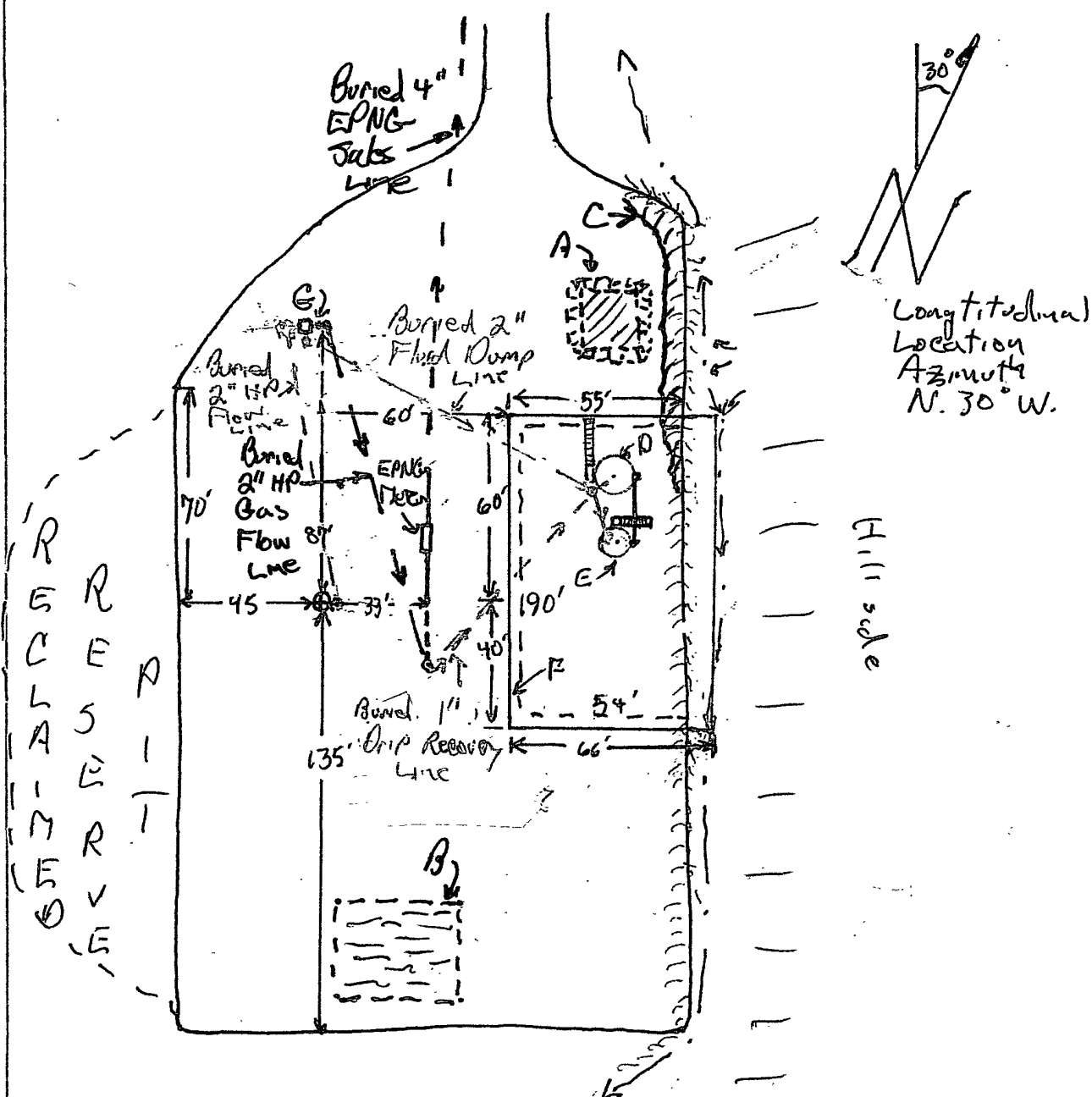
Figure 1 Earth Retention Pt Schematic.

Wanna 'G' Fed. 35-#2

Remediation & Reclamation

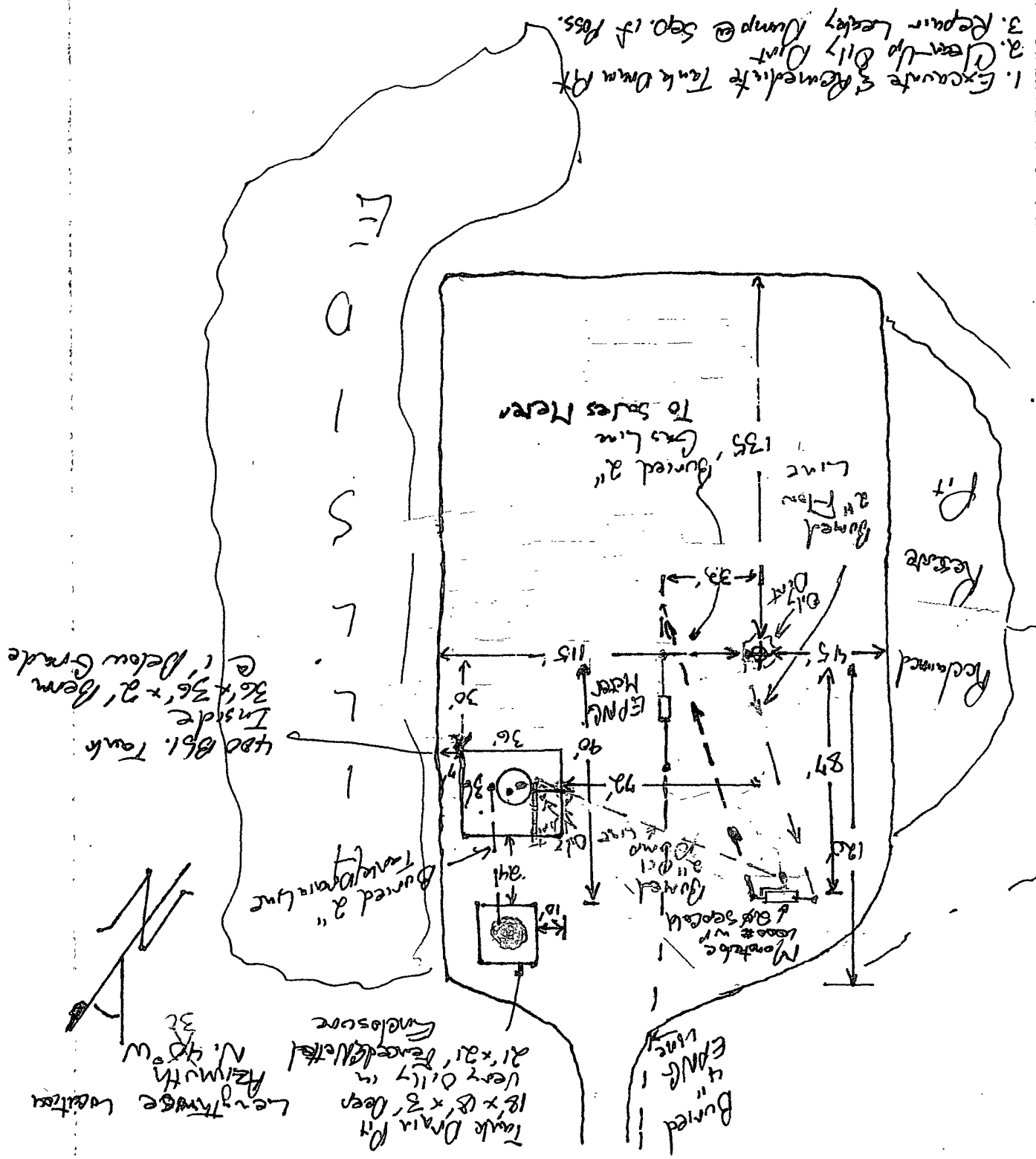


1. Take Down Fence & Excavate 20' x 19' x 6' Deep to Test. Side Sample did meet Site Remediation Standards. Bottom Sample did NOT meet Standards. Order Pit Deepened.
2. Deepen Pit to Excavation 20' x 19' x 9' Deep @ Solid Bedrock Refusal. Bottom Sample Met Site Remediation Standards.
3. Back-Fill Pit w/ 150# Hi-N₂ Fertilizer & Clean Fill Scalloped from Base of Cut Slope @ NE Edge of Location.
4. Fertilize Excavated Material w/ 300# Hi-N₂ Fertilizer & Till & Test Repeatedly Until Met Site Remediation Standards. Used Material for Battery Berms & Erosion Control @ Site.



- A. 20' x 19' x 9' Deep Excavation below Old Earthen Production Pit to Meet Site Remediation Standards @ Bedrock Refusal. Back-Filled w/ 150# Hi-N₂ Fertilizer followed w/ Clean-Fill scalloped from NNE Corner of Location @ Foot of Cut Slope.
- B. 40' x 30' x 2' Deep Land Farm. Fertilized w/ 300# Hi-N₂ Fertilizer & Till & Test until Met Site Remediation Standards. Used Materials for Bottom, Berms & Erosion Control @ Reserve Pit Side of Location.
- C. Borrow Area F/ Clean-Fill @ Base of Cut-Slope in NNE Corner of Location.
- D. 400 Bbl. AST Oil Tank.
- E. 210 Bbl. AST Heated Separator Tank.
- F. Fenced (100' x 66') & Bermed (90' x 54' x 2') Tank Battery Enclosure.
- G. NATCO 2# 1000# WP Separator (Cold)

Warner's Fed. 35-#2 Original Site Schematic Figure 4



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.: 410-003-07

Date Received: 10/01/04

Date Reported: 10/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: WAR 35-2 PIT BOTTOM @ 6'

Sample Date: 09/30/04

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	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	8130 8.13	1	µg/kg	10/19/04	LM
TPHDRO	8015	10	1050	1	mg/kg	10/19/04	LM

Failed: TPH @ 1,058.13 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.: 410-003-08

Date Received: 10/01/04

Date Reported: 10/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: WAR 35-2 PIT SIDES @ 4'-5'

Sample Date: 09/30/04

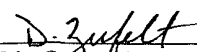
Sample Matrix: Soil

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	10/19/04	LM
TPHDRO	8015	10	701	1	mg/kg	10/19/04	LM

Passed: TPH @ 701 PPM < 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPM Site Standard


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.: 410-003-09

Date Received: 10/01/04

Date Reported: 10/25/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: WAR 35-2 Pile

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	10200 10.2	1	µg/kg	10/21/04	LM
TPHDRO	8015	10	441	1	mg/kg	10/20/04	LM

Passed: TPH @ 451.2 PPM < 1,000 PPM Site Standard

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

Order Flattened, Fanned & Re-Tested mixed
w/ Additional Excavated Material.

D. Zupelt
for: John Grach, 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.: 412-030-09

Date Received: 12/07/04

Date Reported: 12/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: War 35-2 Pit Bottom @ 9' @

Sample Date: 12/06/04

Sample Matrix: Soil

Bedrock Refusal

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	370	1	mg/kg	12/17/04	LM

Passed: TPH @ 370 PPM < 1,000 PPM site Standard

Passed: BTEX @ N.D. < 50 PPM 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.: 412-030-10

Date Received: 12/07/04

Date Reported: 12/20/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: War 35-2 Land *Farm*

Sample Date: 12/06/04

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	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	31700 <i>31.2</i>	1	µg/kg	12/17/04	LM
TPHDRO	8015	10	<i>1970</i> <i>2001.2</i>	1	mg/kg		LM

Failed: TPH @ 2,001.2 PPM > 1,000 PPM Site Standard
Passed: BTEX @ N.D. < 50 PPM 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

Warner 35-#2 Land Farm

RAS2-008
T500649-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015m

C6-C12 (GRO)	650	500	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8015m	D-12
--------------	-----	-----	-------	---	---------	----------	----------	-----------	------

Surrogate: 4-Bromofluorobenzene	0.65	81.6 %	65-135		"	"	"	"	
---------------------------------	------	--------	--------	--	---	---	---	---	--

Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	520	10	mg/kg	1	5052707	05/27/05	06/03/05	EPA 8015m	D-02
---------------------------	-----	----	-------	---	---------	----------	----------	-----------	------

Volatile Organic Compounds by EPA Method 8021B

Benzene	ND	5.0	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8021B	
---------	----	-----	-------	---	---------	----------	----------	-----------	--

Toluene	ND	5.0	"	"	"	"	"	"	
---------	----	-----	---	---	---	---	---	---	--

Ethylbenzene	ND	5.0	"	"	"	"	"	"	
--------------	----	-----	---	---	---	---	---	---	--

m,p-Xylene	ND	10	"	"	"	"	"	"	
------------	----	----	---	---	---	---	---	---	--

o-Xylene	ND	5.0	"	"	"	"	"	"	
----------	----	-----	---	---	---	---	---	---	--

Surrogate: 4-Bromofluorobenzene		86.4 %	65-135		"	"	"	"	
---------------------------------	--	--------	--------	--	---	---	---	---	--

520.65

Passed: TPH @ 520.65 PPM < 1,000 PPM site standard

Passed: BTEX @ N.D. < 50 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.

Page 1 of 2

Client: Reganec Rev. 1 ech
Contact: Bob Schwering
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 #

S 05-099

Samplers Signature:

Lab Name: Green Analytical Laboratories, Inc. (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303

Analyses Required

Sample ID	Collection		Miscellaneous				Preservative(s)						Comments	
	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. RAS2-001	5/25	9:45am	RAS	3	1		X						BLEX	Amie #1 Land Farm
2. RAS2-002	5/25	10:45am	RAS	3	1		X						GRO	Old Rock #2 Upper Land Farm
3. RAS2-003	5/25	11:00am	RAS	3	1		X						ORO	Old Rock #2 Lower Land Farm
4. RAS2-004		11:15am	RAS	1	1		X							Old Rock #3 Land Farm
5. RAS2-005		11:30am	RAS	1	1		X							Salazar 21 #1 Land Farm
6. RAS2-006		12:00pm	RAS	1	1		X							Fikes #1 Land Farm
7. RAS2-007		4:45pm	RAS	1	1		X							Salazar 34 #3 Land Farm
8. RAS2-008		5:15pm	RAS	1	1		X							Warren 35 #2 Land Farm
9. RAS2-009		5:30pm	RAS	1	1		X							Warren 35 #1 Land Farm
10. RAS2-010		5:45pm	RAS	1	1		X							Warren 35 #3 Land Farm
Relinquished by: RD Thompson			Date: 5/26/05		Time: 9:30am		Received by: Delaine Zupfeld			Date: 5-26-05		Time: 0930		
Relinquished by:			Date:		Time:		Received by:			Date:		Time:		

* Sample Reject: ☐ Return ☐ Dispose ☐ Store (30 Days)