

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

NMOC 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 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 ☒

REV'D JAN 25 '07
OIL CONS. DIV.

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: Salazar G Fed. 34- #1 API #: 30-039-22821 U/L or Qtr/Qtr 1630' FSL & 1660' FWL, Unit K of Sec 34 T 25N R 6W
County: Rio Arriba Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

DIST. 2

Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume <u>334</u> Bbl	Below-grade tank Volume: <u>55</u> Bbl Type of fluid: <u>Separator Fluids</u> Construction material: <u>Fiberglass Tank</u> Double-walled, with leak detection? Yes ☐ If not, explain why not. <u>NO: The Fiberglass Tank was Improperly Installed & 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) 100 feet or more (0 points)	20
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) 1000 feet or more (0 points)	10
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.

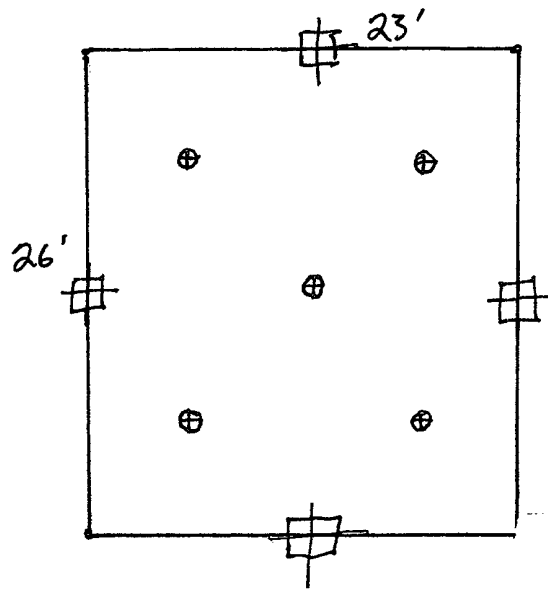
Additional Comments: One unlined approx. 334 Bbl. production pit containing an improperly installed below-grade fiberglass tank was remediated by removing the fiberglass tank, excavating contaminated soil, and then mixing & fertilizing contaminated soil on-site. The pit was the original production pit south of the separator. Approximately 266 cubic yards of soil were excavated from this pit. On 6/28/04, a composite wall sample and a composite bottom sample were taken from the pit and sent to the laboratory for TPH and BTEX analysis and met remediation standards. The soil pile & land farm was sampled 3 times, with the final sample collected on 11/10/2004. The soil pile was tested, flattened & re-tested & mixed and finally tested OK. The site diagram and sample results are attached. All FINAL excavation & land farm 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 NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 1/12/2007
Printed Name/Title Robert A. Schwering, P.E., Operations Manager Signature [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.

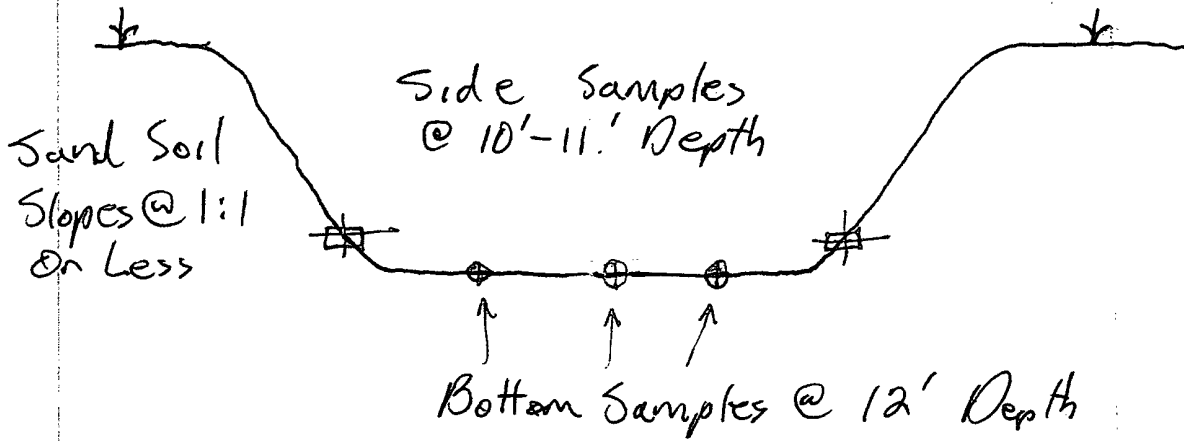
Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 2
Printed Name/Title _____ Signature [Signature] Date: JAN 25 2007

Plan View:



Scale:
1" = 10'

Section View:



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

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

FIGURE 2 : Location Schematic : Remediation Salazar 'G' Fed. 34-#1

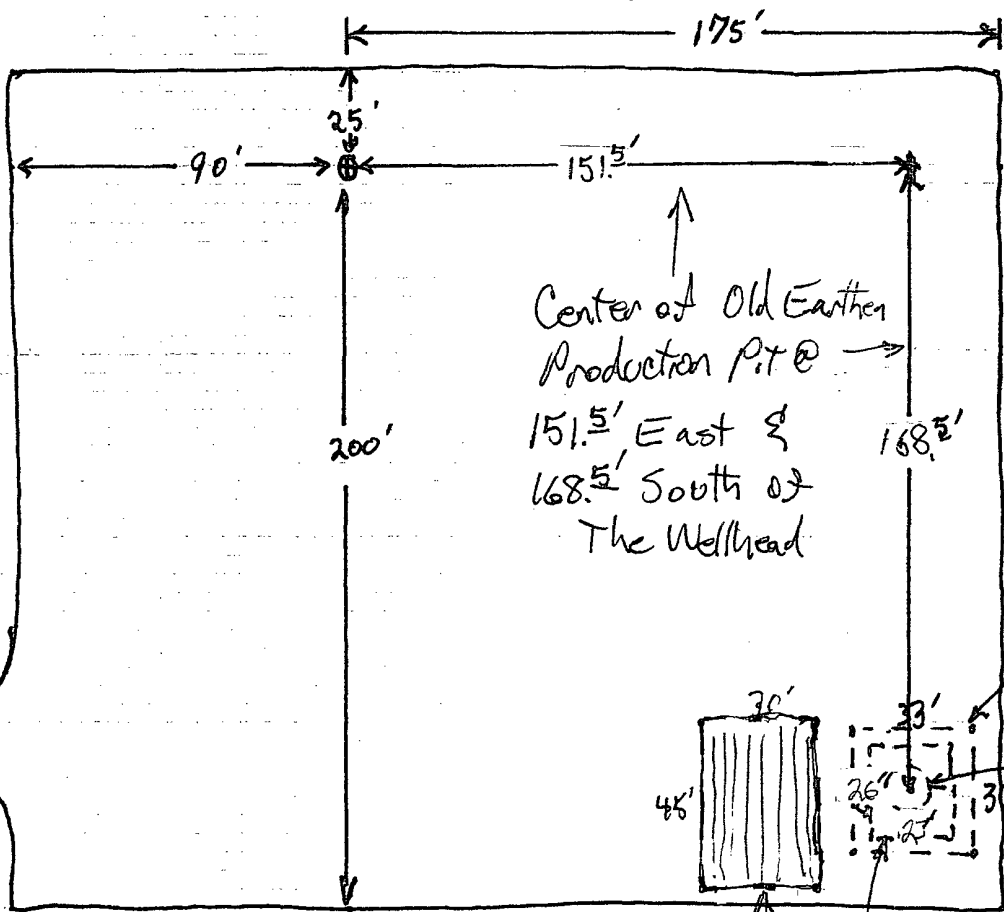
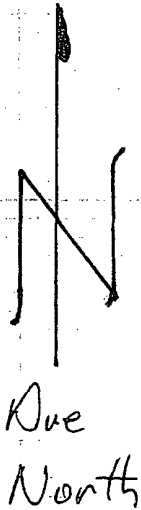
API # : 30-039-22821

1630' MSL & 1660' FWL : Unit 'k'

Section 34, T. 25N., R. 6W.

Rio Arriba Co., NM

Longitudinal
Location
Azimuth

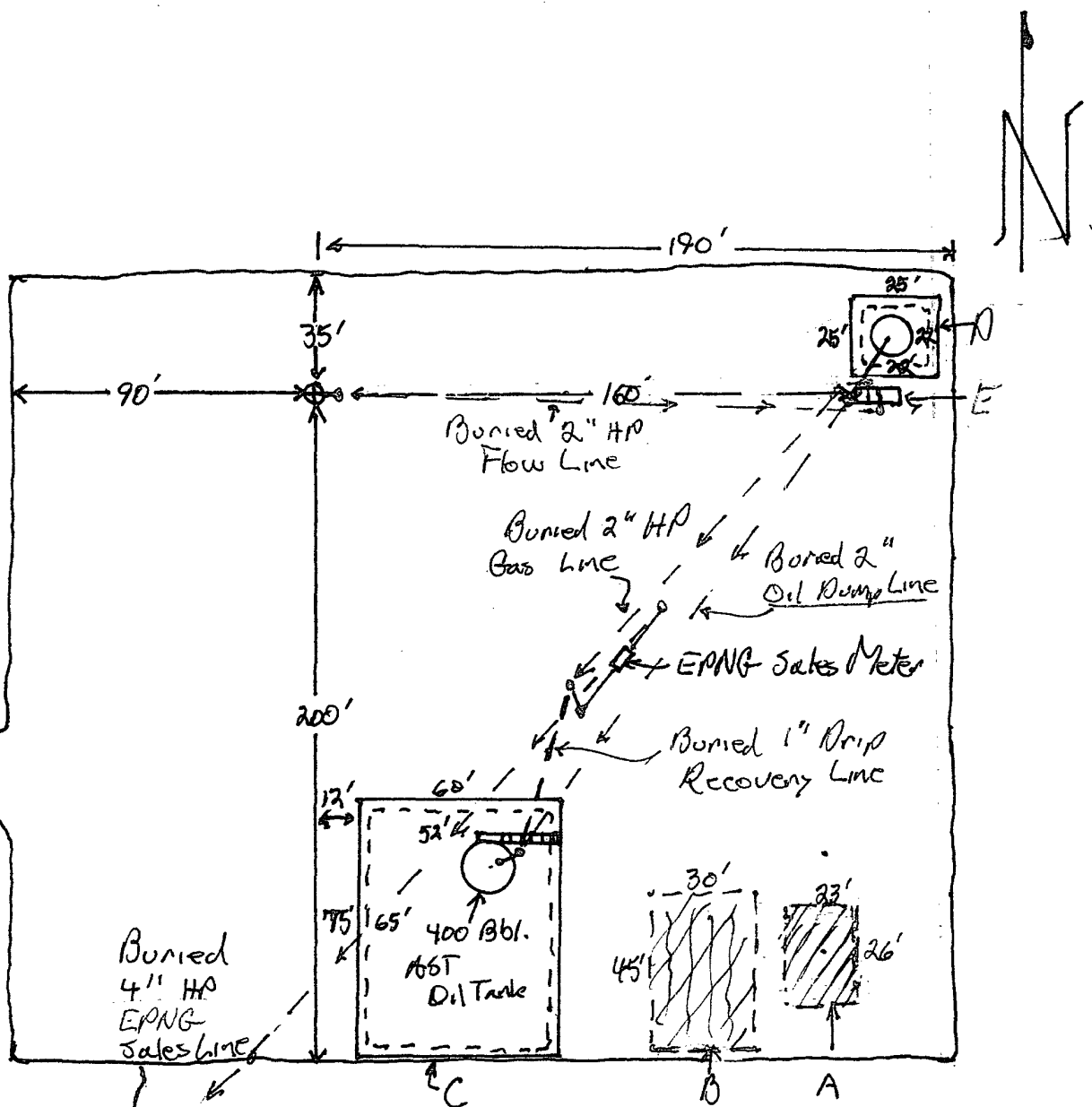


RDT Remediated as follows:

1. Remove the Improperly Installed Below Grade Fiberglass Pit.
2. Excavate Pit w/ Bottom Dimensions 23' x 26' x 12' Deep. Temporary Land Farm w/ Soil Pile & Excavations
3. Sample Pit Bottom & Sides. OK.
4. Sample & Fertilize Pit Spoils 3 Times & Fertilize w/ 100 # Hi-Na Fertilizer.
5. Fertilize Pit Bottom w/ 100 # Hi-Na Fertilizer & Back-Fill w/ Remediated Pit Spoils.
- ** Excavate Pit Bottom & Sides Until No Visible Staining Left & No Noticeable Odor in Pit

Final Excavation:

Bottom: 23' x 26' x 12' Deep



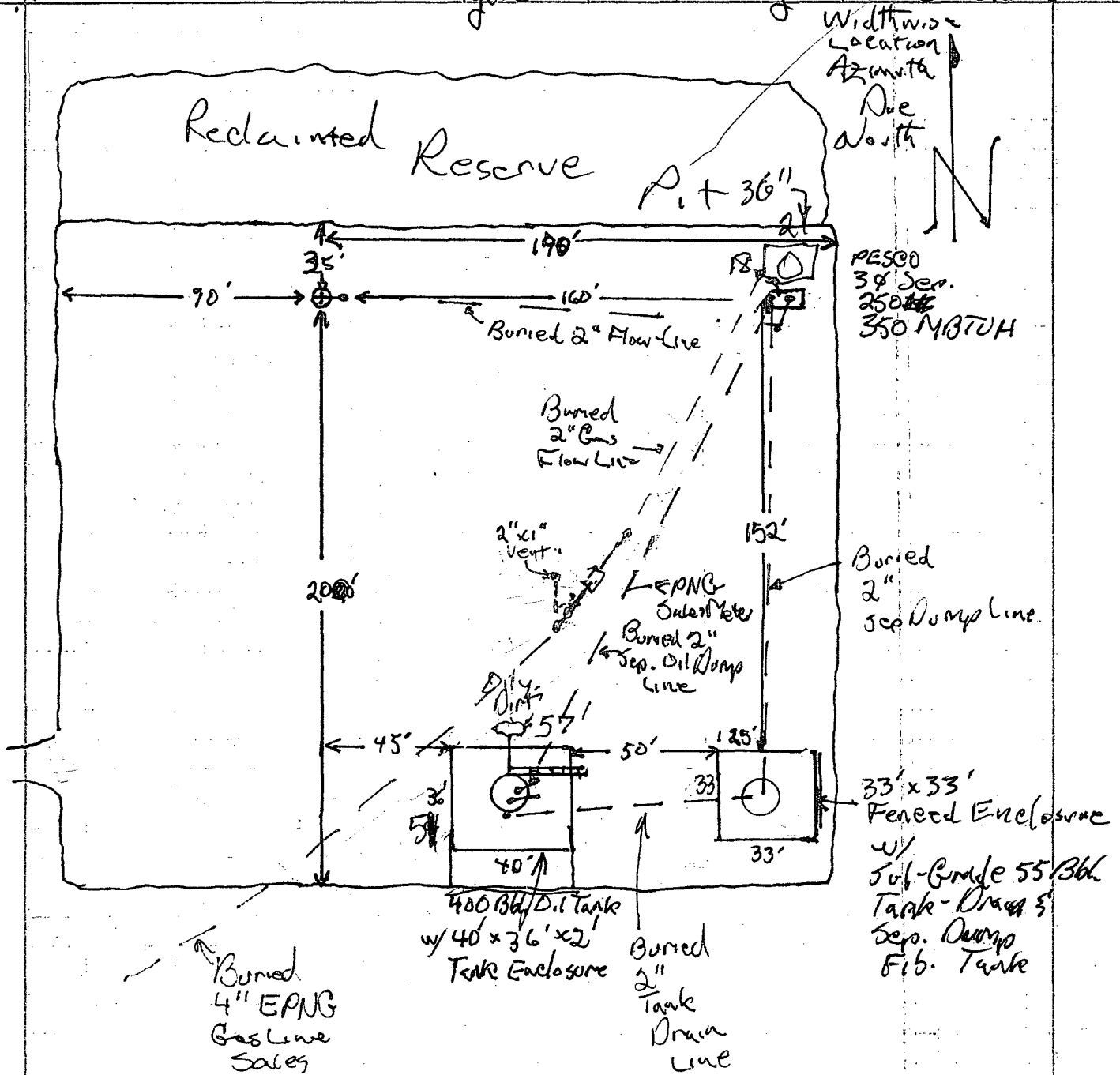
A. 26'x23'x12' Deep Fully Remediated Earthen Production Pit

B. 30'x45' Land Farm Area used to Remediate Pit Spoils.

C. Fenced (75'x60') & Bermed (65'x52'x2' Berm) Enclosed Above-Ground Oil Storage Facility w/ 400 Bbl. AST

D. Fencel (25'x25') & Bermed (22'x22'x1½' Berm) Enclosed Above-Ground Fiberglass Water Tank Facility w/ 45 Bbl. AST

E. PESCO 3Ø 30'x10' Horizontal Separator Ser# 20790
 WP = 250± BTU = 325 MBTU/Hr.



1. Excavate & Remove Fiberglass Tank
Test Soil Below Tank
Repair Netting & Re-Install
2. Land Farm Only Dirt on Location

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.: 406-141-07

Date Received: 06/29/04

Date Reported: 07/02/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-1 Pit Bottom

Sample Date: 06/28/04

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	07/01/04	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	57.2	1	mg/kg	07/01/04	LM
Total TPH	8015/8021		57.2	1	mg/kg	07/01/04	LM

C12' : Below TPH Limit < 100 PPM

OK


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.: 406-141-08

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-1 Pit Sides

Sample Date: 06/28/04

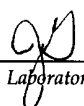
Sample Matrix: Soil

Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	
		LIMIT	RESULT			ANALYZED	ANALYST
Benzene	8021	0.005	<0.005	1	mg/kg	07/07/04	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

@ 10'-11' : Below TPH Limit <100 PPBY
OK


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.: 406-141-09

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-1 Pile

Sample Date: 06/28/04

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	07/07/04	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	48.0	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		48.0	1	mg/kg	07/11/04	LM

Below TPH Limit

Order to Flatten Pike & Pc-Test


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.: 408-127-31

Date Received: 08/26/04

Date Reported: 09/10/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-1 Pile

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	127	1	mg/kg	09/08/04	LM

Flatten & Re-Sample Pile

Fail

Mix in 100# Hi-N₂ Fertilizer

D3
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.: 411-061-07

Date Received: 11/11/04

Date Reported: 11/15/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: RAS 0011

SAMPLE I.D.: Salazar 34-#1 Land Farm

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	11/15/04	LM
TPHDRO	8015	10	58.7	1	mg/kg	11/15/04	LM

Re-Sample Flattened/Mixed Pit Pile

Below TPH Limit < 100PPM

OK

D. Zupelt
for: John Green, Laboratory Manager