

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 ☒

RCVD JAN 25 2007

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- #3 API #: 30-039-22940 U/L or Qtr/Qtr 1650' FNL & 980' FWL, Unit E of Sec 34 T 25N R 6W

County: Rio Arriba 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 334 Bbl

Below-grade tank

Volume: 55 Bbl Type of fluid: Separator Fluids

Construction material: Fiberglass Tank

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

NO: The Fiberglass Tank was Improperly Installed & Removed.

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 approx. 334 Bbl. production pit containing an improperly installed below-grade fiberglass tank was remediated by removing the fiberglass pit, excavating contaminated soil, and land-farming the soil on-site. The pit was the original production pit south of the separator. The excavated material was mixed with the soil in an existing land farm off the NW corner of the location. Approximately 233 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 tested OK. The land farm was sampled multiple times, with the final sample collected on 5/25/05 and 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 NMOCOD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 1/11/2007

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

Signature [Signature]

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:

Printed Name/Title

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Signature [Signature]

Date:

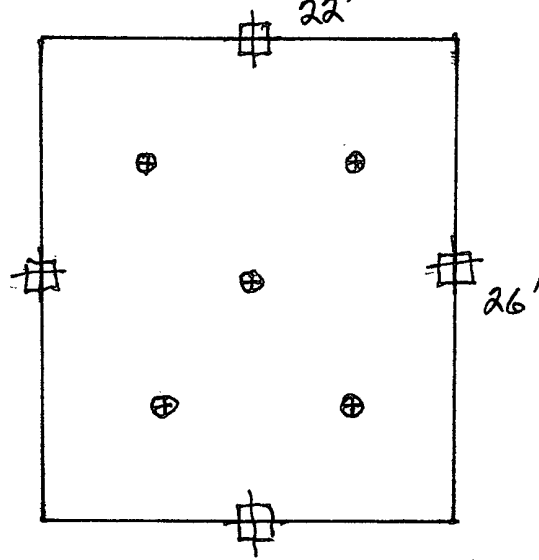
JAN 25 2007

Salazar G' Fel. 34-#3

Figure 1

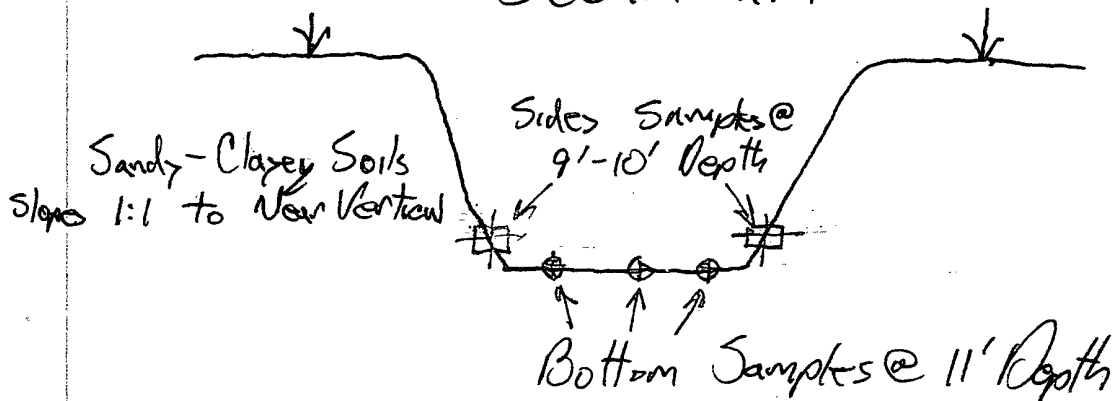
Earthen Pit Schematic

Plan View



Scale:
1" = 10'

Section View:



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

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

FIGURE 2: Location Schematic: Remediation

Salazar G' Fed. 34-#3

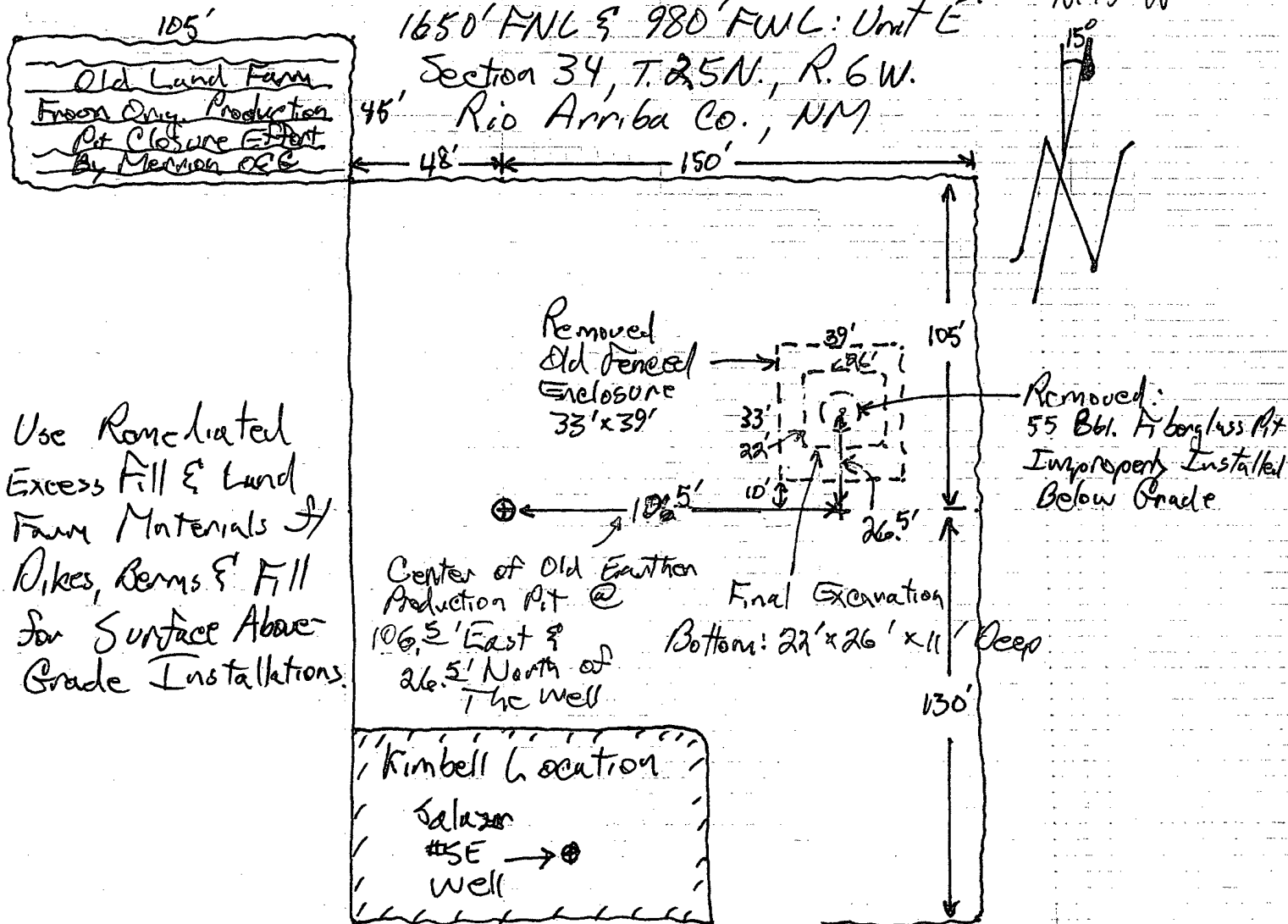
API #: 30-039-22940

1650' FNL & 980' FNL: Unit 'E'

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

Rio Arriba Co., NM

Longitudinal
Location Azimuth
N. 15° W



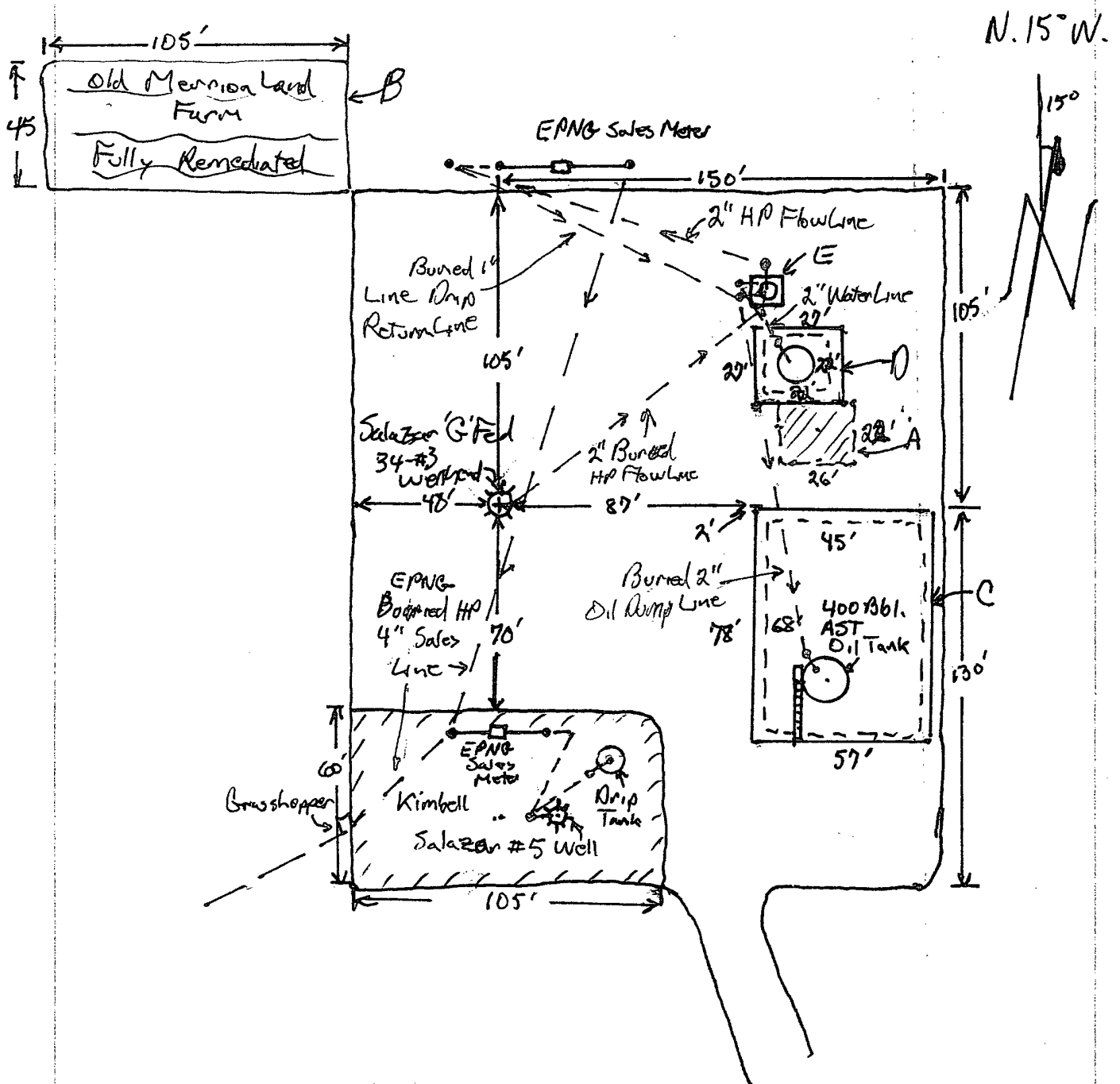
Use Remediated
Excess Fill & Land
Farm Materials &
Dikes, Berms & Fill
for Surface Above-
Grade Installations.

In 1994 Mennon Oil & Gas Excavated
the Earthen Production Pit 25' x 25' x 8' Deep
& Created the Old Land Farm.

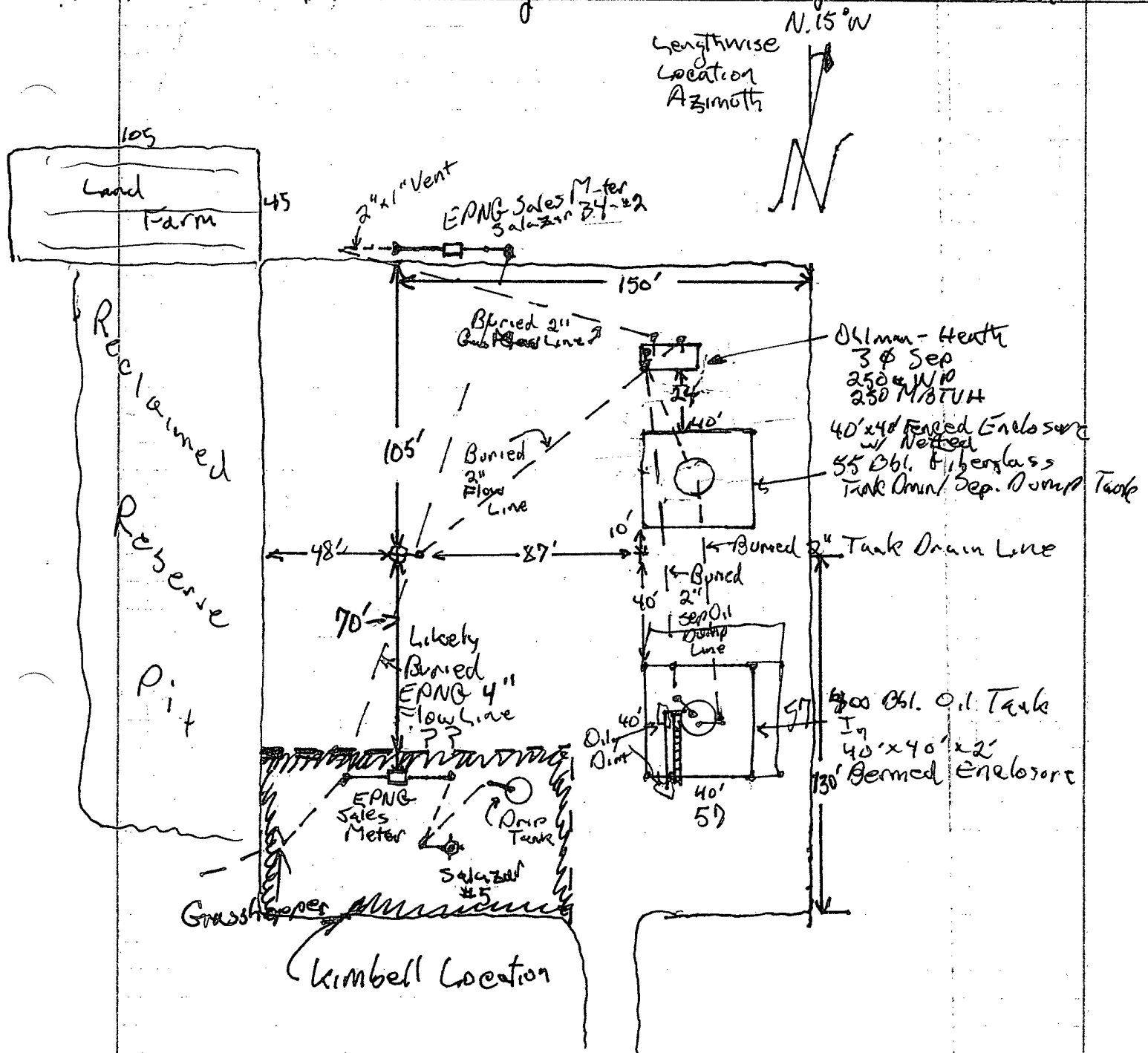
** Excavate Pit Bottom & Sides
until No Visible Staining &
No Noticeable Odor.

ROT Remediated As Follows:

1. Remove the Improperly Installed Below-Grade Fiberglass Pit.
2. Excavate pit with Bottom Dimensions 22' x 26' x 11' Deep. **
3. Sample Pit Bottom & Sides. OK. Sample Pit Spoils. OK. Twice.
4. Sample & Fertilize Old Land Farm w/ 200# Hi-Na Fertilizer until it passed.
5. Fertilize Pit Bottom w/ 100# Hi-Na Fertilizer & Pit Spoils w/ 250# Hi-Na Fertilizer & Re-Fill Excavation



- A. 22' x 26' x 11' Deep Fully Remediated Earthen Production Pit
- B. 45' x 105' Old Mernion Land Farm: Fully Remediated
- C. Fenced (78' x 57') and Bermed (45' x 68' x 2' Berm) Enclosed Above Ground Oil Storage Facility w/ 400 Bbl. AST.
- D. Fenced (27' x 27') and Bermed (22' x 22' x 2' Berm) Enclosed Above Ground Fiberglass Water Tank Facility w/ 45 Bbl. AST
- E. Smith Pipe 3" 30" x 10' Vent. Separator Ser. # RM 3803
WP = 1000# BTU = 250 MBTU



1. Excavate & Test Below Fiberglass Tank
Re-install same w/ New Netting
2. Test & Complete Remediation of Old Land Farm
3. Land Farm any Dirty Dirt off-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.: 406-141-10

Date Received: 06/29/04

Date Reported: 07/02/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-3 Pit Bottom

OK @ 11'

Sample Date: 06/28/04

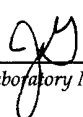
Sample Matrix: Soil

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	44.6	1	mg/kg	07/01/04	LM
Total TPH	8015/8021		44.6	1	mg/kg	07/01/04	LM

TPH < 100 PPM


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.: 406-141-11

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-3 Pit Sides

OK @ 9'-10'

Sample Date: 06/28/04

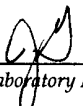
Sample Matrix: Soil

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

TPH < 100 PPM


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.: 406-141-12

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-3 Pile

Sample Date: 06/28/04

Sample Matrix: Soil

Ok.
Order Flatter to
Re-Test & Re-Sample
Petroleum Hydrocarbons

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
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	74.3	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		74.3	1	mg/kg	07/11/04	LM

TPH < 100 PPM


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.: 406-141-13

Date Received: 06/29/04

Date Reported: 07/12/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER:

SAMPLE I.D.: SAL 34-3 Land

*Old Land Farm
Does Not Pass*

Sample Date: 06/28/04

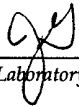
Sample Matrix: Soil

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	257	1	mg/kg	07/11/04	LM
Total TPH	8015/8021		257	1	mg/kg	07/11/04	LM

TPH > 100 PPM


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.: 411-061-08

Date Received: 11/11/04

Date Reported: 11/22/04

QC Batches:

PROJECT NAME: RDT Pits

PROJECT NUMBER: RAS 0012

SAMPLE I.D.: Salazar 34 #3 Land Farm

Sample Date: 11/10/04

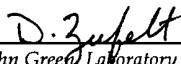
Sample Matrix: Soil

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	11/17/04	LM
TPHDRO	8015	10	254	1	mg/kg	11/22/04	LM

Fail: Does Not Pass < 100 TPH


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

Selzer 34-#3 Land Farm

RAS2-007
T500649-07 (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)	840	500	ug/kg	1	5052709	05/27/05	05/30/05	EPA 8015m	D-12
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Surrogate: 4-Bromofluorobenzene	101 %	65-135	"	"	"	"	"	"	"
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Extractable Petroleum Hydrocarbons by 8015

Diesel Range Hydrocarbons	ND	10	mg/kg	1	5052707	05/27/05	06/03/05	EPA 8015m	
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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	105 %	65-135	"	"	"	"	"	"	"
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Pass

GRO = 0.84 PPM

TAH < 100 PPM

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.