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SUBMIT COPY TO
NATURAL RESOURCES DEPT
DIET GAS ADMINISTRATION

DEC - 2 1999

OIL COMPANY

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: 326-7099
Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: MARTIN WHITAKER #32
Location: Unit or Qtr/Qtr Sec NE NW Sec 16 T 23N R 4W County Rio ARriba
Pit Type: Separator X Dehydrator Other
Land Type:

Pit Location: Pit dimensions: length 25', width 30', depth 15'
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: _____
Direction from reference: _____ Degrees _____ East North _____
_____ of _____ West South _____

Depth To Groundwater:	Less than 50 feet	(20 points)	
(Vertical distance from	50 feet to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	<u>0</u>
high water elevation of			
groundwater)			

Distance to an Ephemeral Stream	Less than 100 feet	(10 points)	
(Downgradient dry wash greater than ten feet in width)	Greater than 100 feet	(0 points)	<u>0</u>

Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet (10 points)
(Downgradient lakes, playas and Greater than 100 feet (0 points) 0
livestock or wildlife watering ponds)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or: less than
1000 feet from all other water sources)

Distance To Surface Water:
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 100 feet	(20 points)
100 feet to 1000 feet	(10 points)
Greater than 1000 feet	(0 points)

0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/18/98 Date Completed: 8/18/98

Remediation Method: Excavation X

Approx. cubic yards 420 CY

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL FROM
EARTHEN PIT AND SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Earthen Pit floor 4 Bank Composite
Closure Sampling: GAS ND (PPM)
(if multiple samples, DIE SS (PPM)
attach sample results By EPA 8015M
and diagram of sample 11.6 PID PPM
locations and depths) Sample depth 15'
Sample date 8/18/98 Sample time 12:45 PM

Sample Results

Soil: Benzene (ppm)	<u>N/A</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTEX (ppm)	<u>N/A</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>11.4</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH <u>8015M</u> (ppm)	<u>GAS ND PPM</u>	Total Xylenes (ppb)	<u>N/A</u>
	<u>DIE 80 PPM</u>		

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10/21/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE environmental consultant

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Ken C. Mamm DATE: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker No.32
Work Order:	9808041	Client Sample ID:	MW32-300 Floor
Lab ID:	9808041-03A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/18/98 12:45:00 PM
		COC Record:	4395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	80	25		mg/Kg	1	8/26/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/20/98

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE FARMINGTON AREA

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker No.32
Work Order:	9808041	Client Sample ID:	MW32-301 Wall
Lab ID:	9808041-04A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/18/98 12:55:00 PM
		COC Record:	4395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	55	25		mg/Kg	1	8/26/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/20/98

Qualifiers:

PQL - Practical Quantitation Limit

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- TECHNOLOGY BEHINDING INDUSTRY WITH THE ENVIRONMENT

1 of 1

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Site Name: Martin WH, HAKER No 32

Date: 8-18-98

Time Started: 11:00

Time Finished: 2:00 8-18-98

Pit starting size: 20x25x5

Pit size when finished: 25x30x15' DEEP

Land farm size: _____

Distance to wash > or < 100': > 100'

Distance to lake or pond: > 1000'

Distance to private or domestic water source > or < 1000': > 1000'

P.I.D. Readings

North wall: _____

South wall: _____

East wall: _____

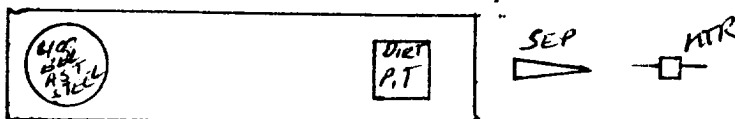
West wall: _____

Land farm: _____

Equipment used: P.S.D. PID EXCAVATOR Jim Kirby Linda Wilson

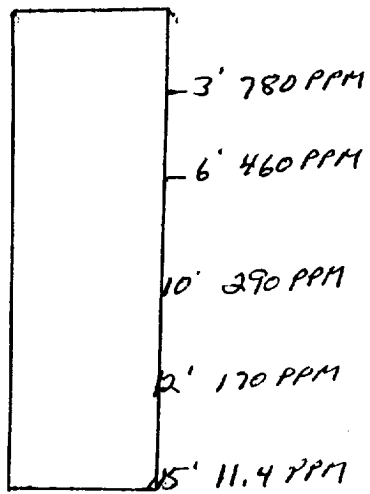
Remarks: 2 402. Samples to lab for EPA 8015M

Site Diagram

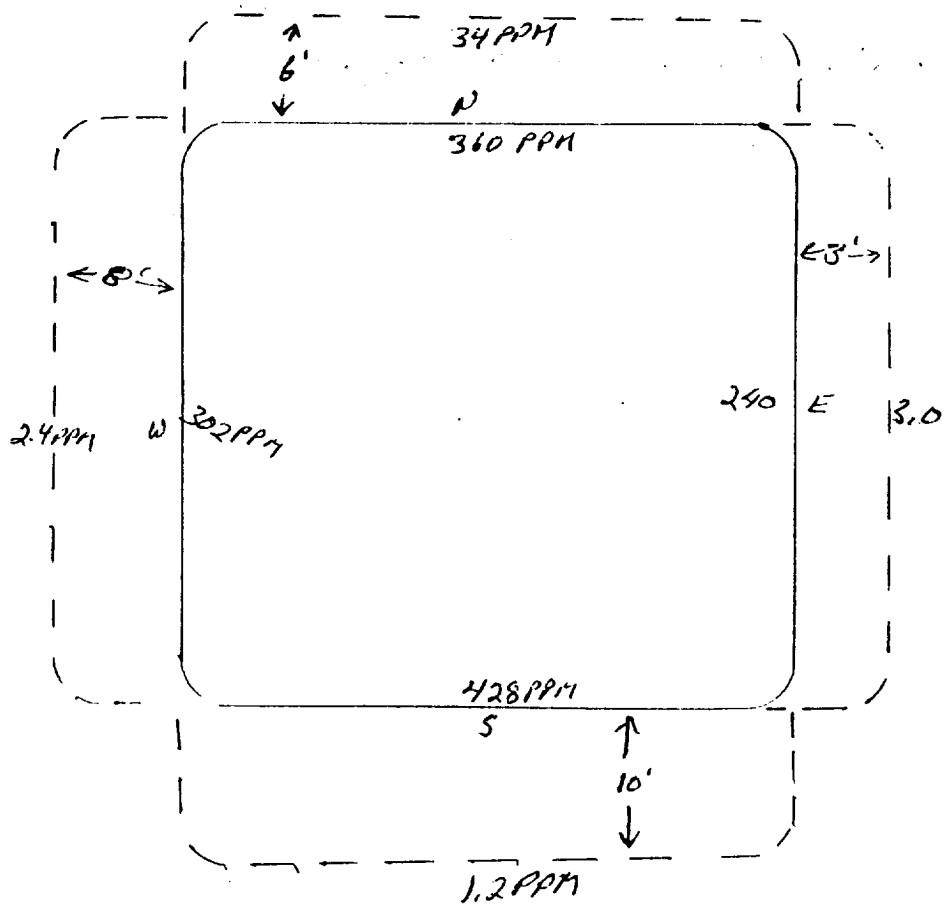


MW 32-300 Processed to Lab

MW 32-301 Processed to Lab



4 wall comp 11.6 PPM



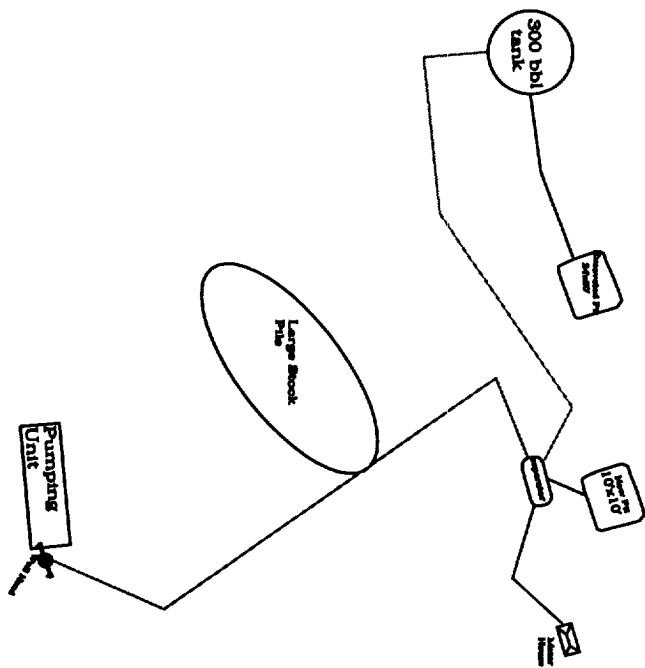
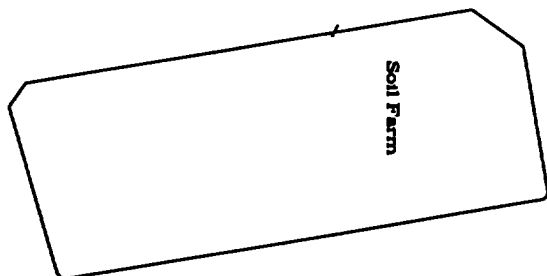
0007

ON SITE
TECHNOLOGIES, LTD.

TECHNOLOGIES, LTD. 
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

L229N
 OL
 WGR
 GS
 OL/Nilu
 Lm/OL/Nilu



Field Data Recorded : _____ Date: _____
 Reviewed : _____ Date: _____
 Drawn : _____ Date: _____

Elm Ridge Resources
 Martin Whitaker 32
 NE/NW Sec. 16, T29N, R4W
 Rio Arriba County, NM

Contract Environmental Services, Inc.
 505-325-1198
 Farmington, New Mexico

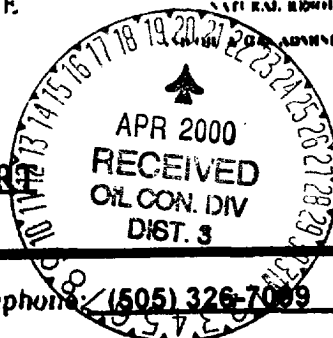
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SMITH COPY TO

SAFETY, HEALTH & ENVIRONMENT

ADMINISTRATIVE

ON-SITE SOIL REMEDIATION REPORT



Operator: Elm Ridge Resources Telephone: (505) 326-7089

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #32

Location: Unit or Qtr/Sec NE/1/4 Sec 16 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 8-18-98 Date Completed: 8-25-99

Remediation Method: Landfirmed X Approx. cubic yards 440

Composted —

Other —

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-25-99 Time: 1045

Sample Results:

Field Headspace (ppm) 0.8

TPH (ppm) GRO ND Method 8015
ORO NP

Other —

RANKING SCORE (TOTAL POINTS): 0

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9-23-99 PRINTED NAME Bill Schaaphok

SIGNATURE Bill Schaaphok AND TITLE Environmental Specialist

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES — NO — (REASON) —

SIGNED: — DATE: —

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarms
Work Order:	9908055	Client Sample ID:	MW#32 Landfarm 1-3
Lab ID:	9908055-01A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/25/1999 10:45:00 AM
		COC Record:	10252

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	09/01/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/26/1999

Qualifiers:

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1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Overview of Landfarm and Sampling :

Location : <u>Martin Whittaker # 32</u>																																								
Quad : <u>NE/NW</u> Section : <u>16</u>																																								
Township : <u>23 N</u> Range : <u>4 W</u>																																								
Pit : <u>Separator</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Location</th> <th>OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td><u>1-1</u></td><td><u>0.6</u></td></tr> <tr><td>2</td><td><u>1-2</u></td><td><u>0.1</u></td></tr> <tr><td>3</td><td><u>1-3</u></td><td><u>0.8</u></td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td></tr> </tbody> </table>	Sample #	Location	OVM	1	<u>1-1</u>	<u>0.6</u>	2	<u>1-2</u>	<u>0.1</u>	3	<u>1-3</u>	<u>0.8</u>	4			5			6			7			8			9			10			11			12		
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9																																								
10																																								
11																																								
12																																								
Reference : <u>60' North</u>																																								
Size : <u>12.5' x 9.5' x 1'</u>																																								
Yds : <u>440</u>																																								
<u>3-5</u> - Point Composite																																								
Comments : <u>dry brown sandy loam, covered with vegetation, no odor or staining</u> <u>sample depth 8" to 12"</u>																																								
Environmental Specialist :																																								

