

OK -

SUBMIT COPY TO
 NATURAL RESOURCE DEPT.
 AND OIL & GAS ADMINISTRATION

REC - 100

APR 2000

APPROVED

Land Type: _____

Direction from reference: _____ Degrees _____ East North _____
West South _____

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/10/98 Date Completed: 9/10/98

Remediation Method: Excavation X Approx. cubic yards 83 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 USING EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER

4 BANKS N,S,E,W

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 10'

GAS ND PPM

DIE ND PPM

Sample date 9/10/98

Sample time 3:45 P

METHOD: BOISM

PID = 2.9 PPM

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 3.0

Ethylbenzene (ppb) N/A

TPH BOISM (ppm) GAS ND PPM
DIE ND PPM

Total Xylenes (ppb) N/A

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 12/1/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENV. 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: Kenn C. M... DATE: 12-7-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	MW27
Work Order:	9809023	Client Sample ID:	MW27-206 Floor
Lab ID:	9809023-11A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/10/98 3:45:00 PM
		COC Record:	5212

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/21/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/18/98

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

Sur: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	MW27
Work Order:	9809023	Client Sample ID:	MW27-207 4 Wall Comp.
Lab ID:	9809023-12A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/10/98 3:50:00 PM
		COC Record:	5212

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/22/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/18/98

Qualifiers:

- PQL - Practical Quantitation Limit
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- J - Analyte detected below Practical Quantitation Limit
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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: ELM RIDGE RESOURCES

Site Name: MARTIN WH HAKER No 27

Date: 9-10-98

NE 1/4, NE 1/4, SEC. 6, T 23 N, R 4 W.

Time Started: 1:15

Time Finished: ---

Pit starting size: 15X15X5

Pit size when finished: 15X15X10

Land farm size: -----

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

Distance to lake or pond: -----

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

P.I.D. Readings

North wall: 3.0

South wall: 2.1

East wall: 2.7

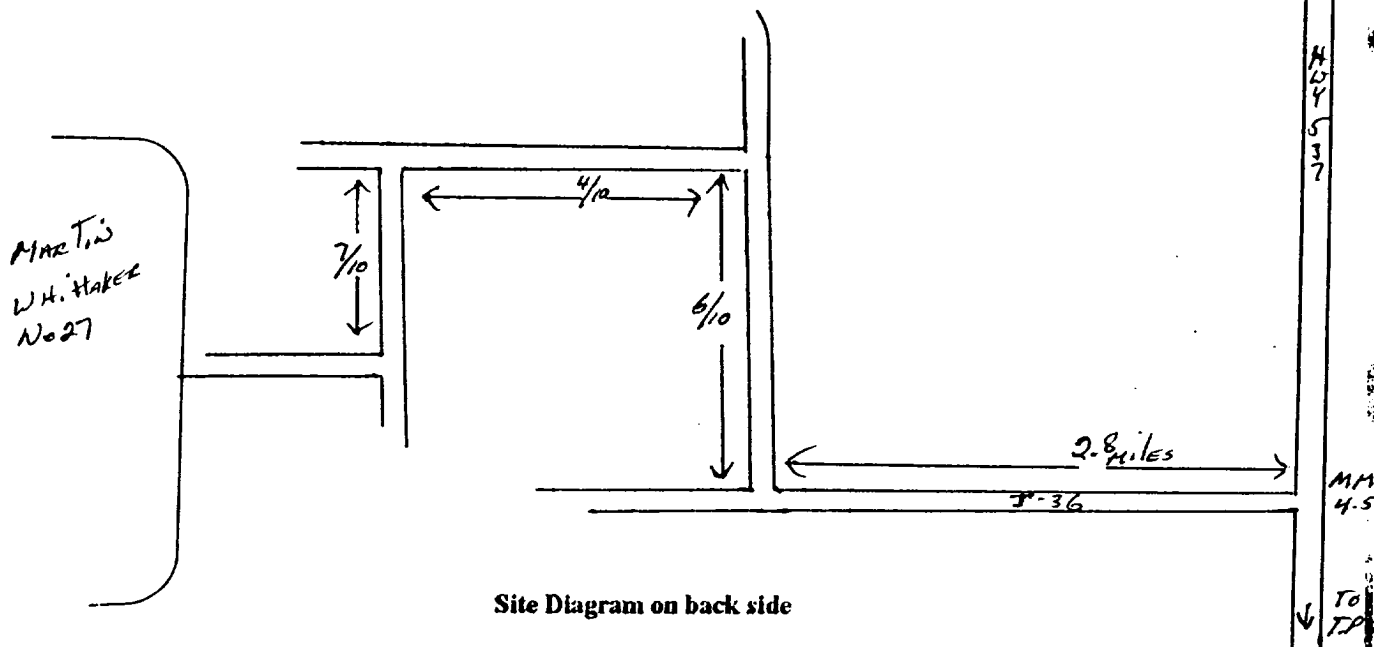
West wall: 3.6

Land farm: -----

Equipment used: RID P.S.D. EXCAVATOR LOADER Jim Kirby Linn Wilson

Remarks: TWO SAMPLES TO LAB 402 JAR MW 27-206 P.T FLOOR 3.0, PPM
402 JAR MW 27-207 4 WALL COMP 2.7, PPM.

Map to site



Site Diagram on back side

Site Diagram

Site Name: March 14, 14 Lake No 27

Sample No.

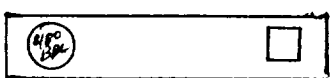
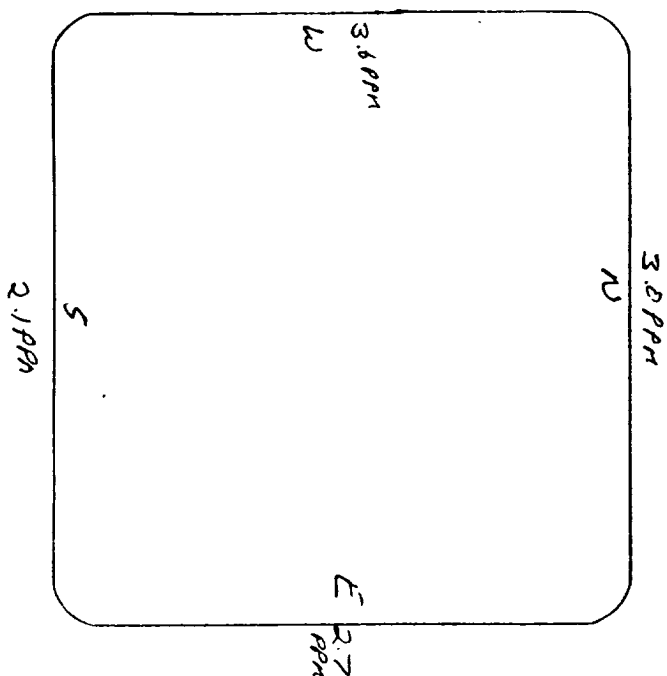
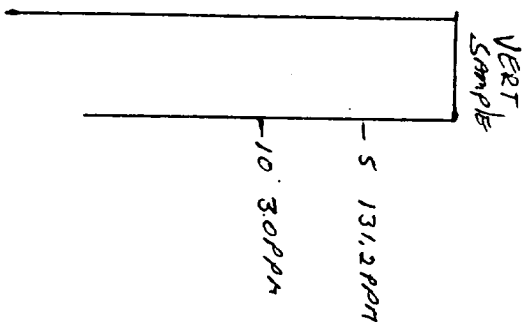
Description

PID (PPM)

M027-206
M027-207

P.T. Floor
4m 11 Comp

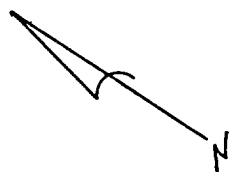
3.0 PPM
2.9 PPM



SEP

ANT

Pump Jack *WELL HEAD



5212

Page _____ of _____

Date:

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

Purchase Order No.: Job No.						
Name	Sharon Adams					
Company	Contract Environmental Sys.					
Address	P.O. Box 3376					
City, State, Zip	Farmington, NM 87401					
Sampling Location:	MW18, MW19 MLD, MW24, MW24MLD1, # W24MLD2, MW27					
Sampler:	LRW					
	SAMPLE IDENTIFICATION	SAMPLE		MATRIX	PRES.	
		DATE	TIME			
MWMLD 8-100	Pit Floor	7/1/78	7:00	Soil	Above	
MWMLD 8-101	4 wall comp	"	7:05			
MW18-102	Pit Floor	"	10:40			
MW18-103	4 Wall comp	"	10:45			
MW24-200	Pit Floor	7/1/78	10:15			
MW24-201	4 Wall comp	"	10:20			
MW24-202	4 Wall comp	"	11:10			
MW24-203	Pit Floor	"	11:05			
MW24-204	Pit Floor	"	11:50			
MW24-205	4 Wall comp	"	11:55			
MW27-206	Floor	"	3:45			
MW27-207	4 Wall comp	"	3:50			
Relinquished by:		Date/Time		Date/Time		
Relinquished by:		Date/Time		Date/Time		
Relinquished by:		Date/Time		Date/Time		
Method of Shipment:						
Authorized by:		(Client Signature Must Accompany Request)				



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

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

SUBMIT TO:
NAT. ENV. MON. & REPT.
UNIT & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APR 2000

Telephone: (505) 326-7099

Operator: Elm Ridge Resources

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #27

Location: Unit or Qtr/Qtr Sec NE/NE Sec 06 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-10-98

Date Completed: 8-17-99

Remediation Method: Landfarmed X

Approx. cubic yards 83

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: 8-17-99 Time 0945

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 800 NO Method 8015

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: 24-Aug-99

Client: Elm Ridge Resources, Inc.
Work Order: 9908041
Lab ID: 9908041-07A **Matrix:** SOIL
Project: Elm Ridge Resources Landfarms

Client Sample Info: Elm Ridge Landfarm
Client Sample ID: MW #27 Sep LF
Collection Date: 08/17/1999 9:45:00 AM
COC Record: 10248

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	08/20/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/18/1999

Qualifiers:

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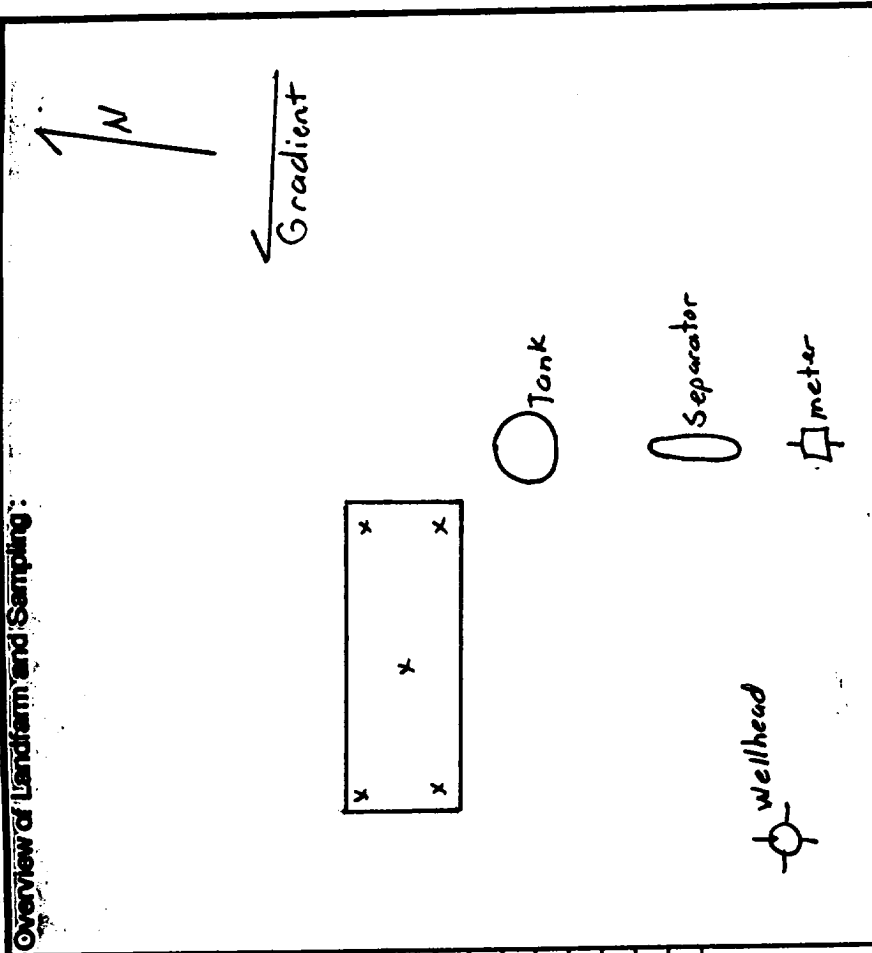
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Client: Elm Ridge Resources

Date Started: 9/10/1988 Date Completed: 9/17/1988

Overview of Landfarm and Sampling:

Location: <u>Martin Whittaker # 27</u>																																								
Quad: <u>NE/NE</u> Section: <u>06</u>																																								
Township: <u>23N</u> Range: <u>4W</u>																																								
Pit: <u>Separator</u>	<table border="1"><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>0.0</u></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></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>0.0</u>	2			3			4			5			6			7			8			9			10			11			12		
Sample #	Location	OVM																																						
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12																																								
Reference: <u>120' N 20° E</u>																																								
Size: <u>80' x 30' x 1</u>																																								
Yds: <u>83</u>																																								
<u>1-5</u> - Point Composite																																								
Comments: <u>Sandy loam, light brown, no odor or staining, covered with vegetation.</u> <u>sample depth 8" to 12"</u>																																								
Environmental Specialist:																																								



Client : Elm Ridge Resources
Date Started : 1998 Date Completed : 1999

[illegible]