

LF will

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1257
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NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION
DEC 2 1999

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

PIT REMEDIATION AND CLOSURE REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: 326-7099

Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401

Facility or Well Name: MARTIN WHITAKER #57

Location: Unit or Qtr/Qtr Sec 05 Sec 05 T 23N R 5W County Bio ARRIBA

Pit Type: Separator Dehydrator Other

Land Type: _____

Pit Location: Pit dimensions: length 10', width 10', depth 3'
(Attach diagram)

Reference: wellhead other

Footage from reference: _____

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

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

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

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

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 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: 10/9/98 Date Completed: 10/9/98

Remediation Method: Excavation X (Check all appropriate sections) Landfarmed X In situ 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 BACKHOE, 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 3' GAS ND PPM
Sample date 10/9/98 Sample time 9:45AM DIE 1700 PPM
METHOD: BOISM
Sample Results PII = 1.7 PPM

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A
Total BTEX (ppm) N/A Toluene (ppb) N/A
Field Headspace (ppm) 1.3 Ethylbenzene (ppb) N/A
TPH BOISM (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE 2200 PPM

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 12/2/98 PRINTED NAME SHAWN ADAMS
SIGNATURE [Signature] 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: [Signature] DATE: 12-7-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Oct-98

Client: Contract Environmental Services, Inc.	Client Sample Info: Martin Whittaker #57
Work Order: 9810035	Client Sample ID: MW57-500; Pit Floor
Lab ID: 9810035-01A Matrix: SOIL	Collection Date: 10/9/98 9:45:00 AM
Project: Martin Whittaker	COC Record: 5222

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	2200	25		mg/Kg	1	10/20/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/17/98

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #57
Work Order:	9810035	Client Sample ID:	MW57-501; 4 Wall Comp
Lab ID:	9810035-02A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	10/9/98 9:50:00 AM
		COC Record:	5222

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	1700	25		mg/Kg	1	10/20/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/17/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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E - Value above quantitation range
Surr: - Surrogate

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1 of 1

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Elm Ridge Resources

Site Name: Martin Whiteaker No 57
NE 1/4 NW 1/4 SEC 5 T23N R5W R10 ARR 6A

Date: 10-9-98

Time Started: _____

Time Finished: _____

Pit starting size: 10x10x3

Pit size when finished: 10x10x3

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: _____

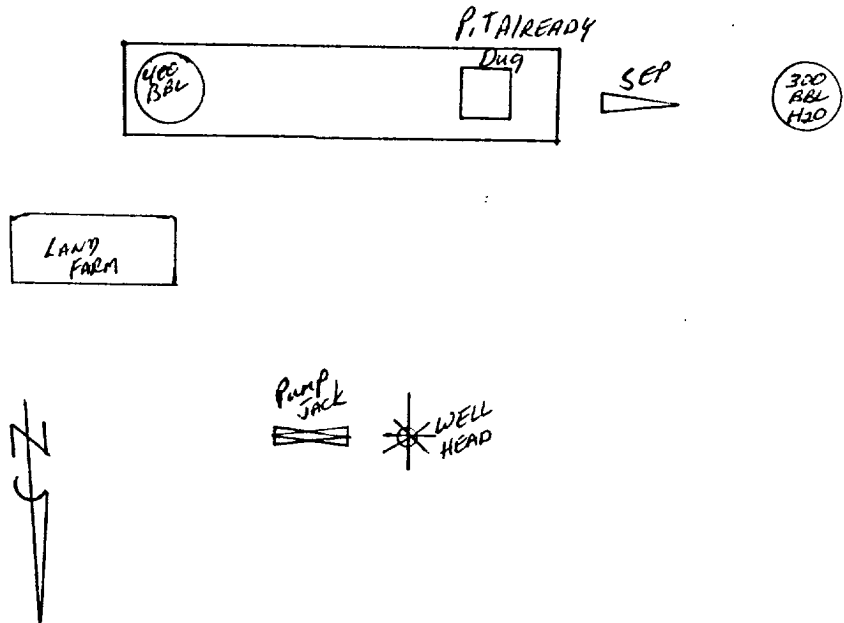
West wall: _____

Land farm: _____

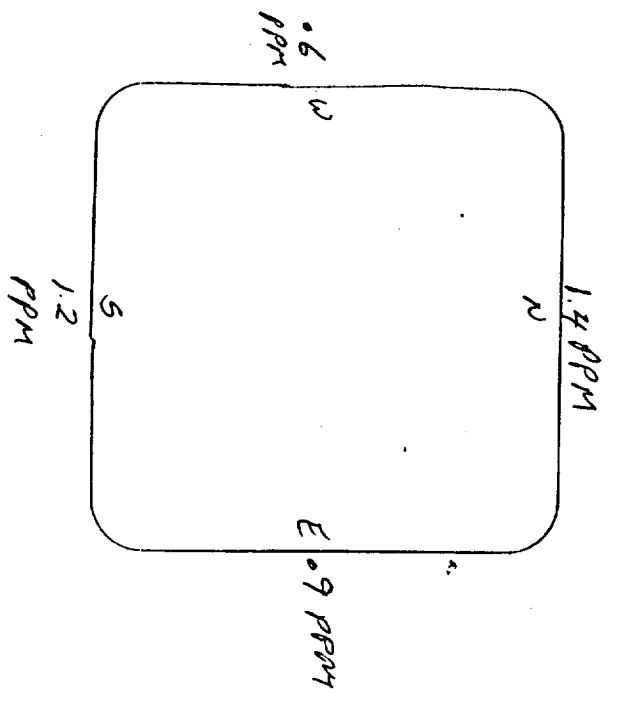
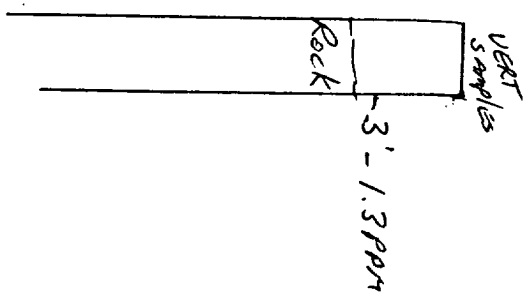
Equipment used: P.S.O. P.I.O. Backhoe, James Kirby Lynn Wilson

Remarks: Two Samples To Lab MW57-500 P.T Floor 1.3 PPM
MW57-501 4 wall PPM 1.7 PPM
HIT Rock at
P.T Had Been Previously Dug Clean Bottom out

Site Diagram



Sample No.	Description	P10 (ppm)
1) MW57-500	P1 Floor	1.3 ppm
2) MW57-501	40411 Corp	1.7 ppm



Elm Ridge Resources

Risk Analysis

Prepared by:

Contract Environmental Services, Inc.

Prepared for:

Oil Conservation Division - District III

Jicarilla Apache Tribe - EPO

Date: 12/2/98

Location: Martin Whittaker # 57 Separator Pit

NW / NW, Sec 05, T23N, R5W

Lease Number:

Resources

Ground Water: 100 feet +

Closest Surface Water: No down gradient perennial bodies within 1000 feet (visual inspection of the area)

Water Sources: No private water source is located within 1000 feet of this site.

Risk Management

Natural Barriers: Natural soil permeability is one natural barrier that will protect ground water from site contamination.

Additional Investigation:

This earthen pit had bedrock at 3' of depth. Field-testing and laboratory analysis was done on this earthen pit. The results of this analysis and testing are shown in the following pages. All data is supported with lab result sheets and field data sheets found in this closure package.

Additional
Investigation: (continued)

Table 1. Field and laboratory results summary.

	Sample			
	Depth	Field Headspace Results	Laboratory Results	Remarks
	(feet)	(PPM)	(PPM)	
MW57- 500	3'	1.3	Gas = ND Die = 2220	Pit Bottom
MW57- 501	3'	1.7	Gas = ND Die = 1700	4 Banks NSEW

Risk

The following table and conclusion summarize the risk this contamination sources poses to the ground water.

Table 2. Total risk table.

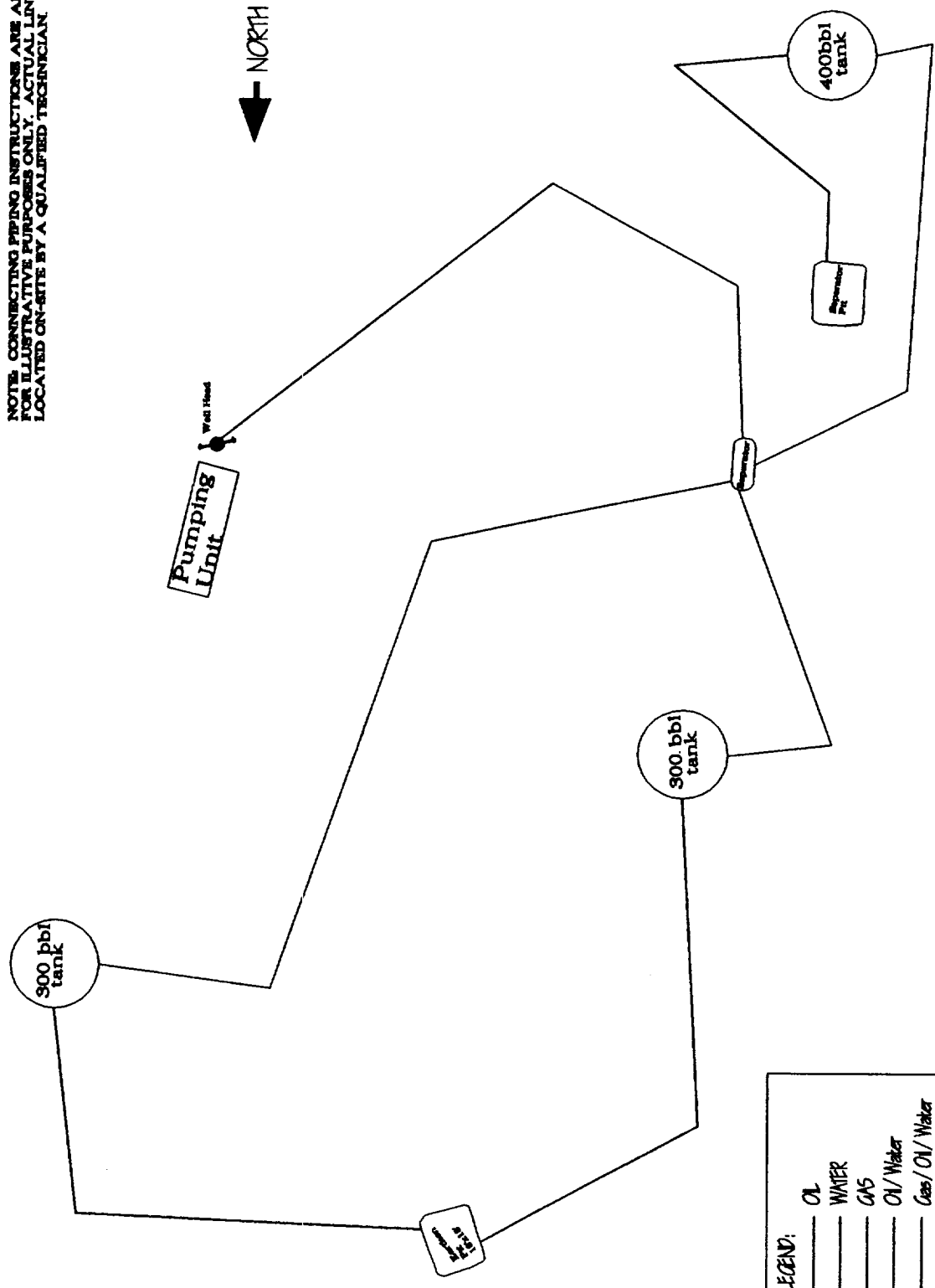
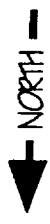
RISK	CHOICE
Extremely Low	X
Low	
Moderate	
High	

Risk Analysis

Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

The ground water under this site is at almost no danger of being impacted by contamination from this site. From the low laboratory and field-test results and the restrictive geologic soil barriers it is concluded that the risk of resource contamination is extremely low.

NOTE: CONNECTING PIPING INSTRUCTIONS ARE APPROXIMATE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LINES MUST BE LOCATED ON-SITE BY A QUALIFIED TECHNICIAN.



LEGEND:

—	Oil
—	Water
—	Gas
—	Oil/Water
—	Gas/Oil/Water

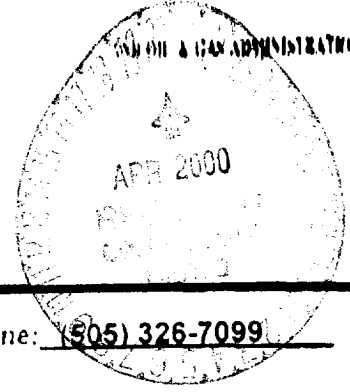
Field Data Recorded:	_____	Date:	_____
Reviewed:	_____	Date:	_____
Drawn:	_____	Date:	_____

Elm Ridge Resources
 Martin Whittaker 57
 Rio Arriba County, NM

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

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
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OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



ON-SITE SOIL REMEDIATION REPORT

Operator: Elm Ridge Resources Telephone: (505) 326-7099
Address: 312 W La Plata, Farmington NM 87401
Facility or Well Name: Martin Whittaker #57 Separator and Line Drips #1+#3
Location: Unit or Qtr/Qtr Sec NW/NW Sec 05 T 23N R 5W County Rio Arriba
Land Type: Jicarilla Range
Date Remediation Started: 10-9-98 Date Completed: 8-26-99
Remediation Method: Landfarmed Approx. cubic yards 83
Composted
Other _____
Depth To Groundwater: (pts.) 0 Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) 0 Sampling Date: 8-26-99 Time: 0934
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0 Sample Results:
Wellhead Protection Area: (pts.) 0 Field Headspace (ppm) 0.0
Distance To Surface Water: (pts.) 0 TPH (ppm) GRO ND 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: 09-Sep-99

Client: Elm Ridge Resources, Inc.	Client Sample Info: Elm Ridge Landfarm
Work Order: 9908058	Client Sample ID: MW #57 LF SEP & LD #1&3
Lab ID: 9908058-08A Matrix: SOIL	Collection Date: 8/26/99 9:34:00 AM
Project: Elm Ridge Landfarms	COC Record: 10257

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/7/99
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/1/99

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

Location : <u>Martin Whittaker # 57</u> Quad : _____ Township: _____ Range: _____	Pit : <u>Separator + Linedrips #1 + #3</u> Reference : <u>90' N40W</u> Size : <u>75' x 60' x .5"</u> Yds : <u>83</u> 1-5 - Point Composite	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sample #</th> <th style="width: 10%;">Location</th> <th style="width: 10%;">OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td>1-1</td><td>0.0</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	1-1	0.0	2			3			4			5			6			7			8			9			10			11			12			Overview of Landfarm and Sampling :
Sample #	Location	OVM																																								
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Comments : <u>Sand, damp, slight staining, no odor, covered with vegetation. sample dept 5"</u>																																										
Environmental Specialist : _____																																										