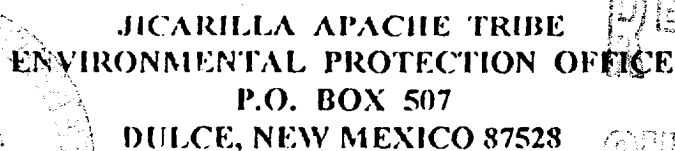


✓ 2



3 SUBMIT COPY TO
NATURAL RESOURCES DEPT
OIL & GAS ADMINISTRATION

CELL CON. DIV.
DIST. ADD

APPROVED

PIT REMEDIATION AND CLOSURE REPORT

Operator: ELM RIDGE RESOURCES Telephone: 326-7099

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

Facility or Well Name: MARTIN WHITTAKER #20

Location: Unit or Qtr/Qtr Sec DE/SW Sec 08 T 23 N R 45 County Yio AR R 13A

Pit Type: Separator X Dehydrator _____ Other _____

Land Type: _____

Pit Location: Pit dimensions: length 19', width 21', depth 14'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: _____

Direction from reference: _____ Degrees _____ East North _____
 _____ 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>10</u>

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: 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): 10

Date Remediation Started: 9/1/98 Date Completed: 9/1/98

Remediation Method: Excavation X Approx. cubic yards 200 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 14' GAS ND PPM
Sample date 9/1/98 Sample time 10:25AM DIE ND PPM
Sample Results METHOD: 8015M
18.5 PPM PID

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A Toluene (ppb) N/A

Field Headspace (ppm) 20.9 Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE ND 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 11/24/98 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: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #20
Work Order:	9809008	Client Sample ID:	MW20-200
Lab ID:	9809008-01A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/1/98 10:25:00 AM
		COC Record:	4388

Pit floor

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/13/98

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 ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #20
Work Order:	9809008	Client Sample ID:	MW20-201
Lab ID:	9809008-02A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/1/98 10:30:00 AM
		COC Record:	4388

4 wall

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/13/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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1 of 1

ON SITE

TECHNOLOGIES, LTD.

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

Date: 9/11/15

Page 1 of 1

THE

[illegible]

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: ELM RIDGE RESOURCES

Site Name: MARTIN WHITTAKER No 20

NE 1/4, SW 1/4, SEC. 8, T 23 N, R 4 W.

Date: 9-1-98

Time Started: 7:45

Time Finished: _____

Pit starting size: 15X15X5

Pit size when finish: 19X21X14

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: 7.3 PPM

South wall: 10.6 PPM

East wall: 6.4 PPM

West wall: 10.2 PPM

Land farm: N/A

Equipment used: P.S.D. P.I.D. Excavator, Jim Kirby Linn Wilson

Remarks: Two Samples To Lab. 1 4oz Jar MU20-200 P.T Floor 20.9 PPM
1 4oz Jar MU20-201 4wall Comp. 18.5 PPM

Map to site

MARTIN WHITTAKER
No 20

↑
2/10
MILES
↓



← 2 1/2 miles →

J-36

H
3
1
5
3
7

4.5
M.M

Site Diagram on back side

TO
T.A.

Site Name: Machi WH, Hakea No 20

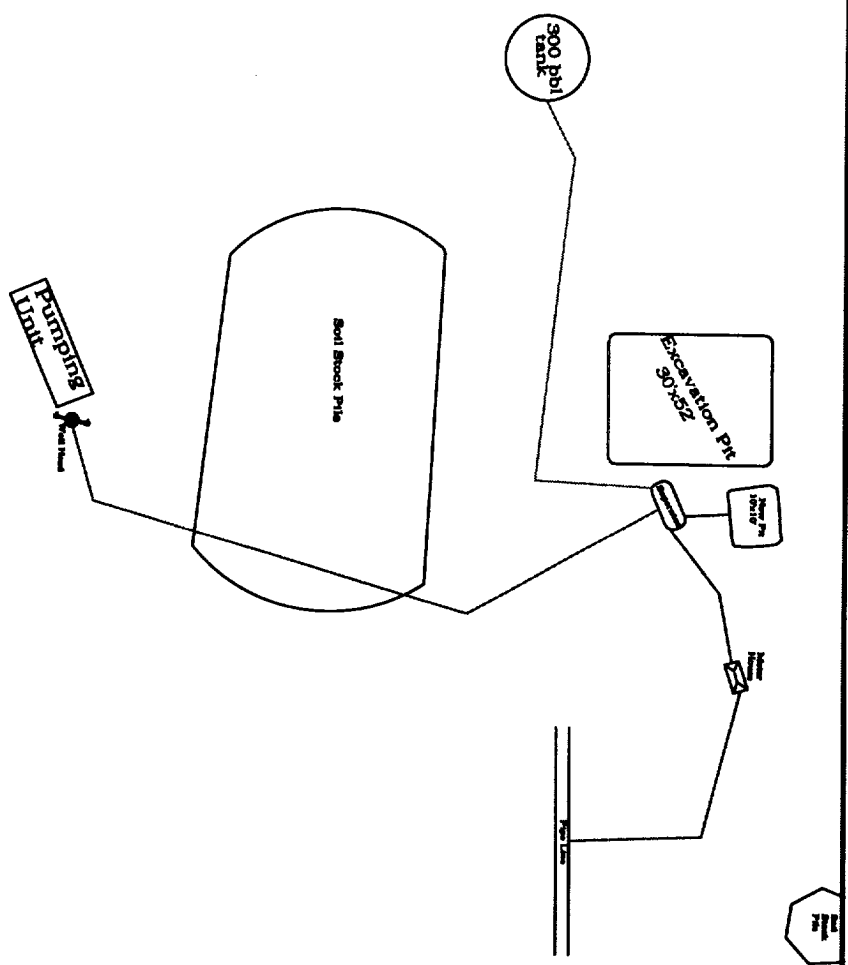
VERT
analysis

Sand	6' 200 ppm
Sand	10' 160.3 ppm
Sand	14' 209 ppm



Legend:	OL
	WRR
	GS
	OL Water
	OL/OL Water

m 35' x 60'



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

Elm Ridge Resources
 Martin Whittaker 20

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



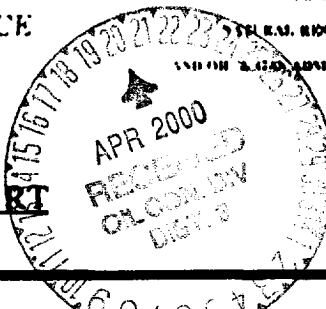
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

STRICTLY CONFIDENTIAL

TELEPHONE DEPT

AND/OR BUREAU ADMINISTRATION

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 #20

Location: Unit or Qtr/Qtr Sec NE/3W Sec 08 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-1-98 Date Completed: 8-25-99

Remediation Method: Landfirmed X Approx. cubic yards 200

Composted

Other

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 10

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: 1318

Sample Results:

Field Headspace (ppm) 10.9

TPH (ppm) GRO ND Method 8015

DRO 29

Other

RANKING SCORE (TOTAL POINTS): 10

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#20 Landfarm 1-2
Lab ID:	9908055-02A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/25/1999 1:18:00 PM
		COC Record:	10252

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	29	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:

- 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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Location: <u>Martin Whittaker # 20</u> Quad: <u>NE/SW</u> Section: <u>08</u> Township: <u>23N</u> Range: <u>4W</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sample #</th> <th style="width: 40%;">Location</th> <th style="width: 50%;">OVM</th> </tr> </thead> <tbody> <tr><td>1</td><td>1-1</td><td>6.7</td></tr> <tr><td>2</td><td>1-2</td><td>10.9</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> Pit: <u>Separator</u> Reference: <u>99' N30E</u> Size: <u>150' x 85' x 6"</u> Yds: <u>236</u> <u>2-5</u> - Point Composite	Sample #	Location	OVM	1	1-1	6.7	2	1-2	10.9	3			4			5			6			7			8			9			10			11			12		
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Comments: Sandy loam, light brown, no other staining, covered with vegetation Sample 4' x 6"