

LF from will

OK

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

NEED COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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 #31
Location: Unit or Qtr/Qtr Sec NE Sec 16 T23N R4W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type:

Pit Location: Pit dimensions: length 25', width 27', depth 20'
(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) 10

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): 10

Date Remediation Started: 8/17/98 Date Completed: 8/18/98

Remediation Method: Excavation X Approx. cubic yards 500 CY

(Check all appropriate sections)

Landfirmed X Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfirmed 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 _____

Pit: Sample location PIT BOTTOM CENTER 4 BANKS N, S, E, W
Pit Closure Sampling: GAS ND PPM
of multiple samples, DIE ND PPM
attach sample results METHOD 8015M
and diagram of sample 14.6 PIA PPM
locations and depths) Sample depth 20'
Sample date 8/18/98 Sample time 9:45AM

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>2.9</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 ND 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 11/23/98 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: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker No.31
Work Order:	9808041	Client Sample ID:	MW31-200 Floor
Lab ID:	9808041-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/18/98 9:45:00 AM
		COC Record:	4395

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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.31
Work Order:	9808041	Client Sample ID:	MW31-201 Wall
Lab ID:	9808041-02A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/18/98 10:00:00 AM
		COC Record:	4395

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

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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R - RPD outside accepted recovery limits

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Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

1 of 1

CONTRACT ENVIRONMENTAL

Elm Ridge

Daily Site Sheet

Site Name: Martin With Harker Ab 31
NE 1/4 NE 1/4 Sec 16. T23N R4W.

Date: 8-17-98

Time Started: 2:15

Time Finished: 10:30 8-18-98

Pit starting size: 20 X 20 X 5

Pit size when finished: 25 X 27 X 20' DEEP

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: _____

South wall: _____

East wall: _____

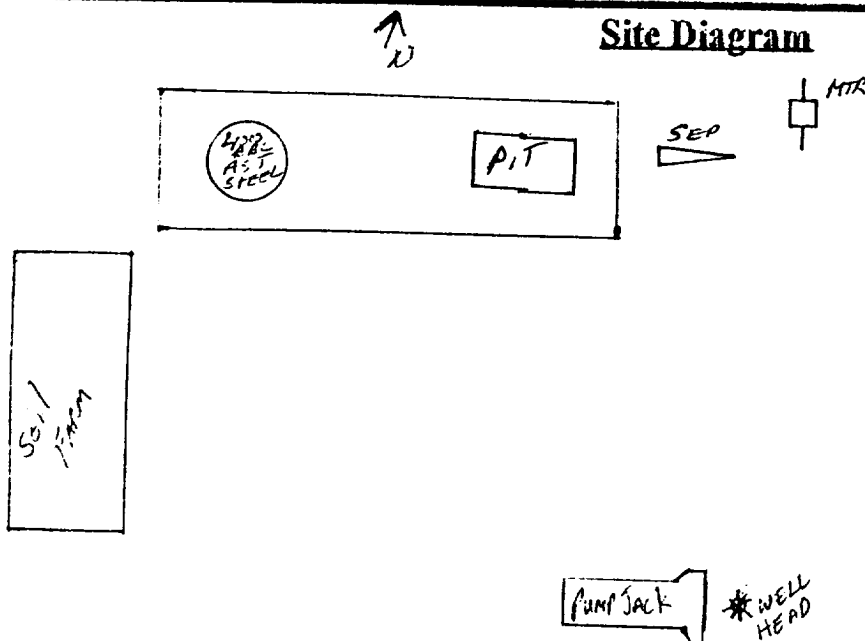
West wall: _____

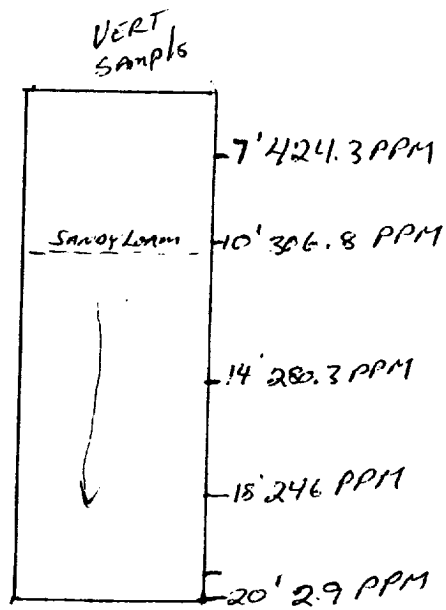
Land farm: _____

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

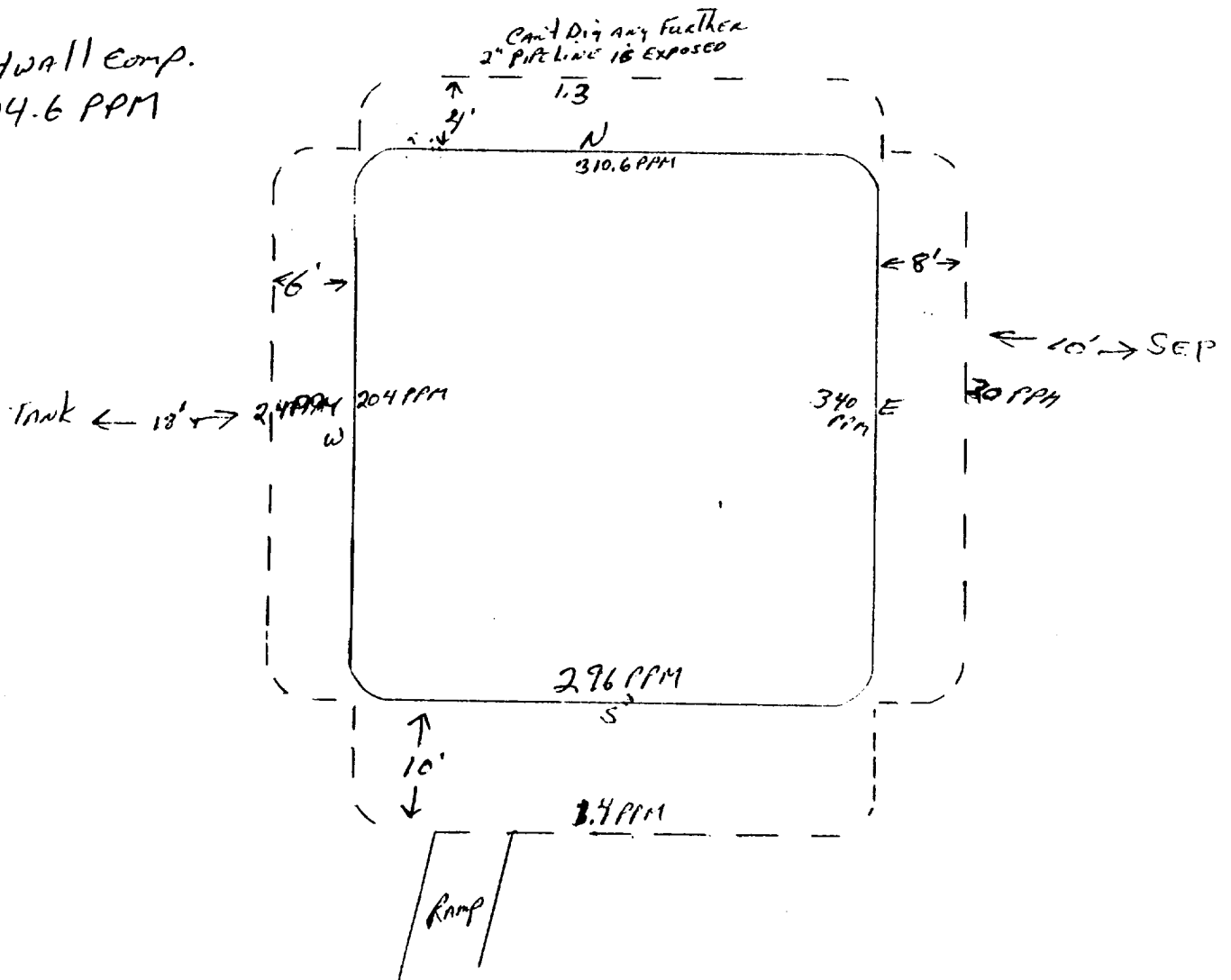
Remarks: Samples To Lab P.T Floor 2.9 PPM At 20' 4 WALL Comp 14.6.
20' DEEP X 27 X 25

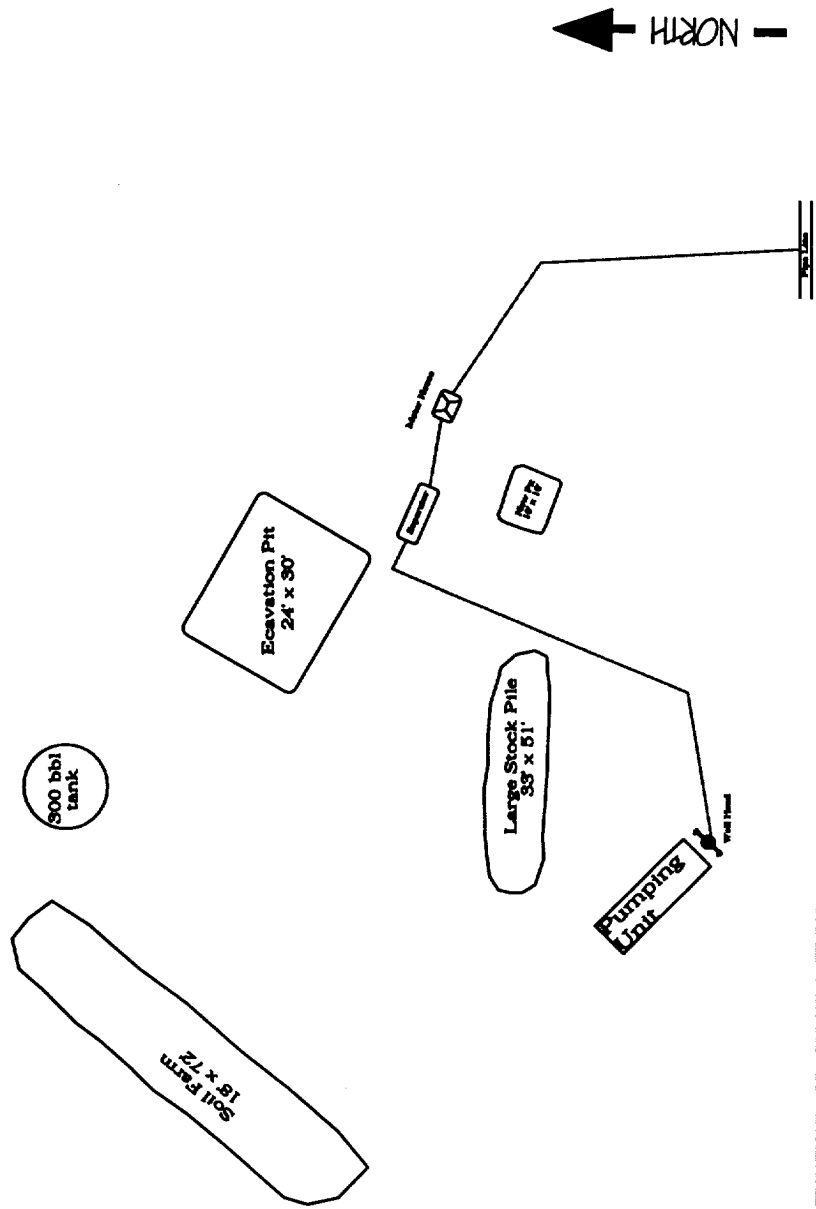
Site Diagram





4 wall comp.
14.6 PPM





← NORTH

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

11/2/2011	OL
	WH/2
	OS
	OL/WH/2
	OS/OL/WH/2

Elm Ridge Resources Martin Whittaker #31 NE/4 of NE/4 Sec. 16, T23N, R4W Rio Arriba County, New Mexico		Contract Environmental Services, Inc. 505-325-1198 Farmington, New Mexico	
Field Data Recorded :	Date:		
Reviewed :	Date:		
Drawn :	Date:		

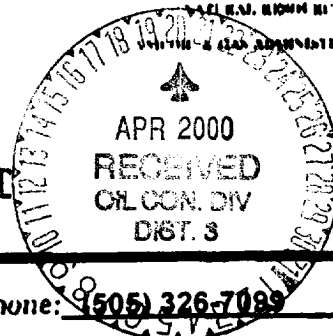
JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

4-1987 1-100000

U.S. E.N. HIGHWAY DEPT

U.S. E.N. HIGHWAY DEPT

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 #31

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

Land Type: Jicarilla Range

Date Remediation Started: 8-17-98 Date Completed: 8-25-99

Remediation Method: Landfarmed X Approx. cubic yards 527

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: 1217

Sample Results:

Field Headspace (ppm) 1.3

TPH (ppm) GRO ND Method 8015
ORO 1240

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#31 Landfarm 1-1
Lab ID:	9908055-10A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/25/1999 12:17:00 PM
		COC Record:	10252

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	1240	25		mg/Kg	1	09/02/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/31/1999

Qualifiers:

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- S - Spike Recovery outside accepted recovery limits
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- Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Location : <u>Martin Whittaker # 31</u> Quad : <u>NE/NE</u> Section : <u>16</u> Township : <u>23N</u> Range : <u>4W</u> Pit : <u>Separator</u> Reference : <u>90' N90E</u> Size : <u>150' x 95' x 1</u> Yds : <u>527</u> <u>3-5</u> - Point Composite		Overview of Landfarm and Sampling :																																						
<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>1-1</td><td>1.3</td></tr> <tr><td>2</td><td>1-2</td><td>0.7</td></tr> <tr><td>3</td><td>1-3</td><td>0.9</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	1.3	2	1-2	0.7	3	1-3	0.9	4			5			6			7			8			9			10			11			12		
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Comments : <u>Sandy brown, grey, brown, damp, some staining slight odor on 1-1</u> <u>sample depth 8" to 12"</u>																																								
Environmental Specialist :																																								