

Bedrock-Risk

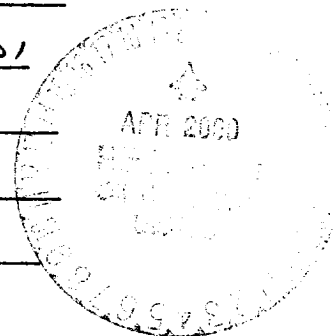
SUBMIT COPY TO
 NATURAL RESOURCE DEPT.
 AND OIL & GAS ADMINISTRATION

DEC - 2 1959

FILTRATION 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 # 72
Location: Unit or Qtr/Qtr Sec G SW / NE Sec 20 T 23N R 4W County SANDOVAL
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: _____



Pit Location: Pit dimensions: length 31', width 31', depth 10'
(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)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	

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) 0
(Downgradient lakes, playas and Greater than 100 feet (0 points) 0
livestock or wildlife watering ponds)

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: 9/21/98 Date Completed: 9/21/98

Remediation Method: Excavation X Approx. cubic yards 356 CY

(Check all appropriate sections)

Landfirmed X

In situ 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 AN EXCAVATOR, SPREAD SOIL 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: (Rock) GAS ND PPM
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 10' DIE 54 PPM

Sample date 9/21/98 Sample time 12:00 P METHOD: 8015M
PID = 9.1 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) 1094.3 Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS 530 PPM Total Xylenes (ppb) N/A
DIE 400 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 12/9/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] AND TITLE ENR. 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) R.A. Attached

SIGNED: [Signature] DATE: 12-10-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #72
Work Order:	9809061	Client Sample ID:	MW72-102 Pit Floor
Lab ID:	9809061-03A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/21/98 12:00:00 PM
		COC Record:	5216

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	4200	25		mg/Kg	1	Analyst: HR 10/1/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	530	0.18		mg/Kg	250	Analyst: HR 9/28/98

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 -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #72
Work Order:	9809061	Client Sample ID:	MW72-103 4 Wall Comp
Lab ID:	9809061-04A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/21/98 12:05:00 PM
		COC Record:	5216

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	54	25		mg/Kg	1	Analyst: HR 10/1/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.36		mg/Kg	2	Analyst: HR 9/26/98

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

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: Elm Ridge

Site Name: Martin Whitaker #72

SW 1/4, NW 1/4, SEC. 20, T. 23 N, R. 4 W.

Date: 9-21-98

Time Started: _____

Time Finished: _____

Pit starting size: _____

Pit size when finished: 3' x 3' x 10'

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: 4.4

South wall: 2.3

East wall: 6.0

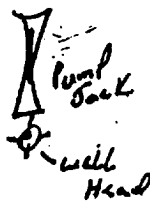
West wall: 3.2

Land farm: _____

Equipment used: Excavator, Loader, Line locator, Pict James Kilby

Remarks: Linn Wilson
Pit Has back Floor, There is Equipment on both
South and West sides.
Two samples to Lab MW 72-102 Pit Floor 1094.3 PPM,
MW 72-103 4 wall camp 9.1 PPM

Map to site



old Land Farm

Site Diagram on back side

Site Diagram

Site Name: Martin Whitaker #12

PID (PRM)

1094.3

Description

P.T. floor

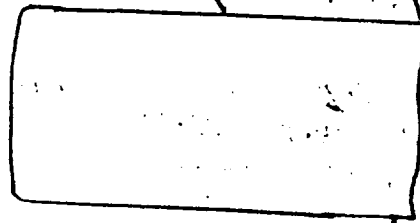
4 well comp

9.1 ppm

Sample No.

MW 72-102

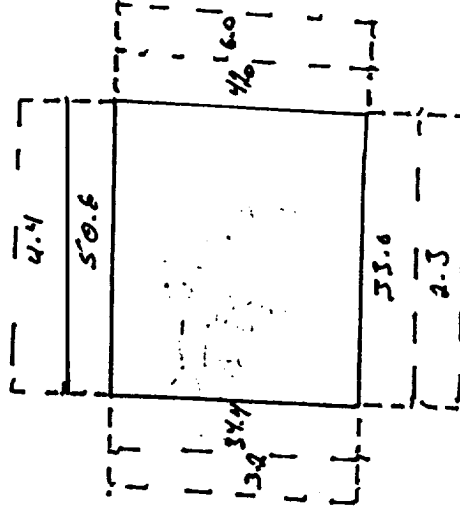
MW 72-103



5' 856.0 ppm

10' Rock

4





CHAIN OF CUSTODY RECORD

5216

Date: 9/21/98

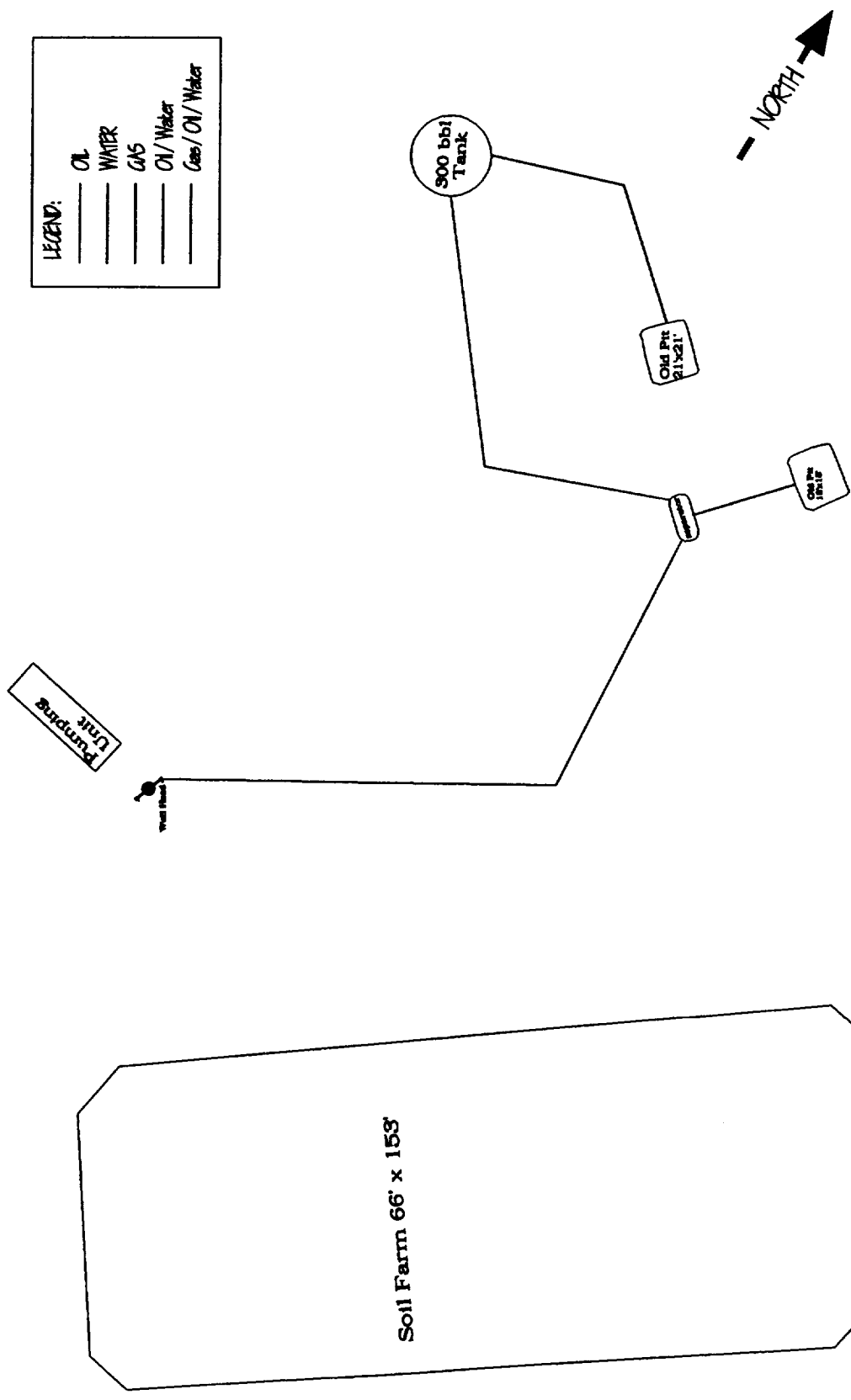
Page 1 of 1

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

Purchase Order No.:		Job No.	
Name		Title	
Company		Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telefax No.	
SEND INVOICE TO		RESULTS TO	
Name: Shawn Nelson		Name: CA M	
Company: Contract		Company: CA M	
Address: P.O. Box 3376		Mailing Address: CA M	
City, State, Zip: Farmington, NM 87499		City, State, Zip: CA M	
Telephone No.: 87499		Telefax No.: 223-1198	
Sampling Location: MLD#0, MW22, NW51		ANALYSIS REQUESTED	
Martin Whitaker #50			
Sampler: SKV LRV			
SAMPLE IDENTIFICATION		LAB ID	
SAMPLE		LAB ID	
DATE	TIME	LAB ID	
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9/21/98	35:15		

LEGEND:

—	OIL
—	WATER
—	GAS
—	OIL/WATER
—	Gas/OIL/WATER



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

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

Elm Ridge Resources
Martin Whittaker 72
 SW/NE Sec. 20, T25N, R4W
 Sandoval County, NM

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

Elm Ridge Resources

Risk Analysis

Prepared by:

Contract Environmental Services, Inc.

Prepared for:

Oil Conservation Division - District III

Jicarilla Apache Tribe - EPO

Date: 12/9/98

Location: Martin Whittaker # 72 Separator Pit

SW / NE, Sec 20, T23N, R4W

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 10' 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.

Risk Analysis

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

Additional
Investigation: (continued)

Table 1. Field and laboratory results summary.

	Sample			
	Depth	Field Headspace Results	Laboratory Results	Remarks
	(feet)	(PPM)	(PPM)	
MW72- 102	10'	1094.3	Gas = 530 Die = 4200	Pit Bottom
MW72- 103	10'	9.1	Gas = ND Die = 54	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

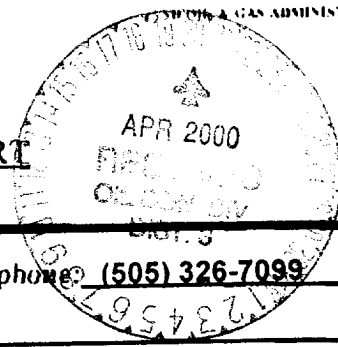
Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

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.

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

SUBMIT A COPY TO
NATURAL RESOURCE DEPT
INDUSTRIAL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT



Operator: <u>Elm Ridge Resources</u>		Telephone: <u>(505) 326-7099</u>
Address: <u>312 W La Plata, Farmington NM 87401</u>		
Facility or Well Name: <u>Martin Whittaker #72</u>		
Location: Unit or Qtr/Qtr Sec <u>SW/NE</u> Sec <u>20</u> T <u>23N</u> R <u>4W</u> County <u>Sandoval</u>		
Land Type: <u>Jicarilla Range</u>		
Date Remediation Started: <u>9-21-99</u>		Date Completed: <u>8-26-99</u>
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>360</u>
Composted: <u> </u>		
Other: <u> </u>		
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>8-26-99</u> Time <u>1345</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>20.9</u>
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>GRO NO</u> Method <u>8015</u>
RANKING SCORE (TOTAL POINTS): <u>0</u>		Other <u>DRO 1700</u>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF		
DATE <u>9-23-99</u>		PRINTED NAME <u>Bill Schaaphok</u>
SIGNATURE <u>Bill Schaaphok</u>		AND TITLE <u>Environmental Specialist</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE		
APPROVED: YES <u> </u> NO <u> </u> (REASON) <u> </u>		
SIGNED: <u> </u> DATE: <u> </u>		

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 #72 LF 1-1
Lab ID:	9908058-09A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	8/26/99 1:45:00 PM
		COC Record:	10257

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	1700	25		mg/Kg	1	9/8/99
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

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE FARMINGTON AREA -

Location : <u>Martin Whittaker # 72</u>		Overview of Landfarm and Sampling :	
Quad : <u>SW/NE</u> Section : <u>20</u>			
Township : <u>23N</u> Range : <u>4W</u>			
Pit : <u>Separator</u>			
Reference : <u>150' S20W</u>			
Size : <u>120' x 81' x 1'</u>			
Yds : <u>360'</u>			
2-5 - Point Composite			
Comments : <u>Sandy clay, grey, damp, covered with vegetation, sample depth 8" to 12"</u>			
Environmental Specialist :			