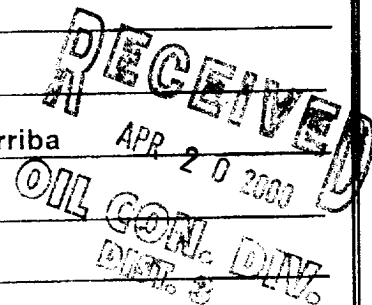


JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: Elm Ridge Resources Telephone: (505) 326-7099
Address: 312 W. La Plata Street, Farmington, NM
Facility or Well Name: J Apache "A" Well #7
Location: Unit or Qtr/Qtr Sec J Sec 26 T 25N R 5W County Rio Arriba
Pit Type: Separator X Dhydrator Other Production Tank
Land Type: Range Jicarilla



Pit Location: Pit dimensions: length 33', width 33', depth 8'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 105'
Direction from reference: 10 Degrees East of North
X West South X

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)	<u>0</u>
	Greater than 100 feet	(0 points)	
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)	<u>0</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)	<u>0</u>
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)	<u>0</u>
Distance To SurfaceWater: (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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: December 14, 1998 Date Completed: December 14, 1998

Remediation Method: Excavation _____ Approx. cubic yards 323
(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: Excavation

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Center of pit bottom at 8'
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 8'±
Sample date 12-14-98 Sample time 1200

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>40.8</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>70</u>	Total Xylenes	(ppb)	_____

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 December 28, 1998 PRINTED NAME Billy Schaaphok
SIGNATURE Billy Schaaphok AND TITLE Environmental Specialist

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: Ken C. M... DATE: 12-28-98

Location: J Apache "A" Well #7		Overview of Location and Sampling:																																						
Quad: J Section: 26																																								
Range: 5W Township: 25N																																								
<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>NwallQT</td><td>0.1</td></tr> <tr><td>2</td><td>SwallQT</td><td>1</td></tr> <tr><td>3</td><td>WwallQT</td><td>0.6</td></tr> <tr><td>4</td><td>EwallQT</td><td>0</td></tr> <tr><td>5</td><td>Btm-QS</td><td>40.8</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: Separator/Tank Reference: 105' S10W Of wellhead Initial Size: 12'x12'x4' deep Final Size: 33' x 33' x 8' deep Yds. Excavated: 323 cy Depth to Groundwater: >100' Nearest Water Source: >1000' Nearest Surface Water: >1000' NMOCD Ranking Score: 0 TPH Closure Standard: 5000 Comments: 0-7' Sandy clay, light brown, damp, broken sandstone 8' Bottom, sandy clay, light brown to dark grey, moist slight odor, no staining				Sample #	Location	OVM	1	NwallQT	0.1	2	SwallQT	1	3	WwallQT	0.6	4	EwallQT	0	5	Btm-QS	40.8	6			7			8			9			10			11			12
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10																																								
11																																								
12																																								
Pit Profile: North to South:		Pit Profile: East to West:																																						

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Dec-98

CLIENT: Elm Ridge Resources, Inc.

Project: Elm Ridge Resources

Lab Order: 9812034

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Dec-98

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Resources
Work Order:	9812034	Client Sample ID:	J Apache "A" Well #7; Btm@8ft.
Lab ID:	9812034-01A	Matrix:	SOIL
Project:	Elm Ridge Resources	Collection Date:	12/14/98 12:00:00 PM
		COC Record:	5629

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	70	25		mg/Kg	1	12/21/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	12-15-98

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

Surrogate - Surrogate

1 of 1

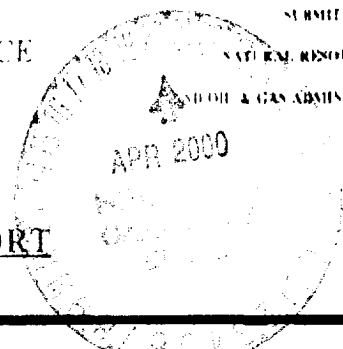
P.O. BOX 2606 • FARMINGTON, NM 87499

Environmental Remediation Services, Inc.

Purchase Order No.						Job No.					
Name						Dept.					
Company											
Address											
City, State, Zip											
Sampling Location:											
Sample:											
SAMPLE IDENTIFICATION											
DATE TIME MATRIX PRES.											
LAB ID											
Number of Containers											
REPORT RESULTS TO											
Name											
Company											
Mailing Address											
City, State, Zip											
Telephone No.											
Telefax No.											
ANALYSIS REQUESTED											
Received by:											
Date/Time											
Received by:											
Date/Time											
Received by:											
Date/Time											
Rush											
24-48 Hours											
10 Working Days											
Special Instructions:											

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SUBMIT COPY TO
NATURAL RESOURCE DEPT
LAND OIL & GAS 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: J. Apache "A" Well #7

Location: Unit or Qtr/Qtr Sec J Sec 26 T 25N R 5W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 12-14-98 Date Completed: 9-13-99

Remediation Method: Landfarmed X Approx. cubic yards 293

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: 9-13-99 Time 0945

Sample Results:

Field Headspace (ppm) 2.6

TPH (ppm) GRO ND Method 8015
DRO 3460

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: 22-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarms
Work Order:	9909043	Client Sample ID:	A-7 LF 1-2
Lab ID:	9909043-03A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	9/13/99 9:45:00 AM
		COC Record:	10260

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	3460	25		mg/Kg	2	9/20/99
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/16/99

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

1 of 1

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TECHNOLOGIES, LTD. • 10000 N. 10TH AVE. • SUITE 100 • FARMINGTON, NM 87499

Location : <u>J. Apache "A" Well #7</u>																																										
Quad : <u>J</u>		Section : <u>26</u>																																								
Township : <u>25N</u>		Range : <u>5W</u>																																								
Pit : <u>Separator</u>																																										
Reference : <u>75' N40 W</u>																																										
Size : <u>120' x 66' x 1</u>																																										
Yds : <u>293</u>																																										
2-5 - Point Composite																																										
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Environmental Specialist : <u>BD</u>																																										