

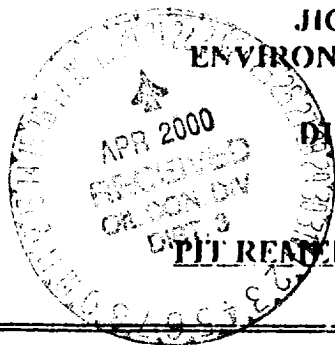
LF data from well

OK -

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

SUBMIT COPY TO
NATURAL RESOURCES
AND OIL & GAS ADMINISTRATION

DEC - 2 1999



PIT REMEDIATION AND CLOSURE REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401Facility or Well Name: JICARILLA APACHE A #10Location: Unit or Qtr/Qtr Sec B Sec 35 T25N R5W County RIO ARribaPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: .Pit Location: Pit dimensions: length 30, width 50, depth 12
(Attach diagram)Reference: wellhead ☒ other ☐Footage from reference: 60'Direction from reference: E Degrees X of East North
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)	<u>0</u>

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 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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/28/97 Date Completed: 4/21/98

Remediation Method: Excavation X Approx. cubic yards 666

(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: REMOVE CONTAMINATED SOIL, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER BANKS N, S, E, W
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 12-13'
Sample date 4/21/98 Sample time 7:50 AM
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>2.7</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 490 PPM</u>		

GAS 0.18 PPM
DIE 740 PPM
8015M method
PID = 4.1 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 5/21/98 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: 5/27/98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "A" Well 10'
Work Order:	9805004	Client Sample ID:	JA10-101; Floor
Lab ID:	9805004-02A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/21/98 7:50:00 AM
		COC Record:	6930

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	490	50		mg/Kg	1	5/6/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	5/5/98

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

1 of 1

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "A" Well 10'
Work Order:	9805004	Client Sample ID:	JA10-100; Wall
Lab ID:	9805004-01A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/21/98 7:45:00 AM
		COC Record:	6930

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	740	50		mg/Kg	1	5/6/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	0.18	0.18		mg/Kg	1	5/5/98

Qualifiers:

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TECHNOLOGY BLENDING INTEGRATED WITH THE FARMINGTON LABORATORY



CHAIN OF CUSTODY RECORD

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

Date: 4/21/98

Page 1 of 1

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Name		Company		Mailing Address	
Address		City, State, Zip		Telephone No.		Telefax No.	
Sampling Location: <u>J. Abache "A" well 10</u> <u>J. Abache "A" well 9</u> <u>J. Abache "A" well 8</u>				ANALYSIS REQUESTED			
Sampler: <u>James K. Kirby</u>				LAB ID			
SAMPLE IDENTIFICATION		SAMPLE DATE TIME		MATRIX		PRES.	
JA10 100 wall		4/21/98 07:45		Soil		U/A	
JA10 101 Floor		4/21/98 07:50		Soil		U/A	
JA10 102 Land Farm		4/21/98 07:52		Soil		U/A	
JA10 103 wall		4/21/98 08:00		Soil		U/A	
JA10 104 Floor		4/21/98 08:30		Soil		U/A	
JA10 105 Land Farm		4/21/98 08:35		Soil		U/A	
JA10 106 wall		4/21/98 08:40		Soil		U/A	
JA10 107 Floor		4/21/98 08:45		Soil		U/A	
JA10 108 Land Farm		4/21/98 09:25		Soil		U/A	
JA10 109 wall		4/21/98 09:50		Soil		U/A	
JA10 110 Floor		4/21/98 09:54		Soil		U/A	
JA10 111 Land Farm		4/21/98 09:59		Soil		U/A	
Relinquished by:		Date/Time		5/1/98		Received by:	
Relinquished by:		Date/Time		10:10		Received by:	
Relinquished by:		Date/Time				Received by:	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by:		Date		5/1/98		Special Instructions:	

CONTRACT ENVIRONMENTAL

DATE 4/2/98 TIME STARTED 07:20 TIME FINISHED 08:00

SITE NAME J. Alache "A" Well 10

PIT SIZE AT START x x PIT SIZE WHEN FINISHED x x

P.I.D READINGS

NORTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

SOUTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

EAST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WEST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WALL COMPOSITE #1 ^{4.1}~~107.45~~ #2 _____ #3 _____ FINALE TIME 4.1 07:45

FLOOR #1 2.7 #2 _____ #3 _____ FINALE TIME 07:45

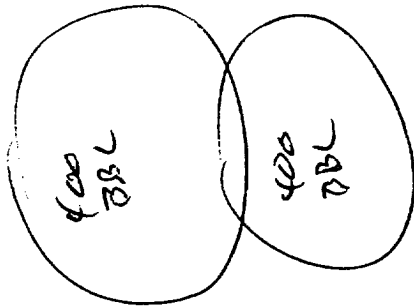
LAND FARM 45.9 SAMPLE TIME 07:52

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: Rock at 7'



Soil
Sample



50'

WITNESS
②



Soil
Sample

EXCAVATION

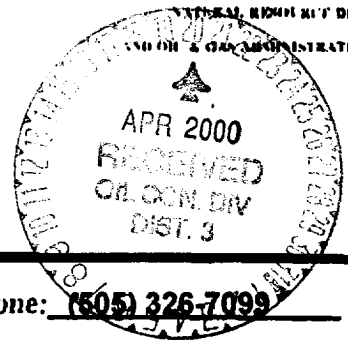
12' DEEP

30'

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

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 #10

Location: Unit or Qtr/Qtr Sec B Sec 35 T 25N R 5W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 8-28-97 Date Completed: 9-13-97

Remediation Method: Landfarmed X Approx. cubic yards 666

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: 1014

Sample Results:

Field Headspace (ppm) 0.9

TPH (ppm) GRO NO Method 8015

DRO 1310

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: PRINTED NAME: Bill Schaaphok

SIGNATURE: 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-10 LF 1-1
Lab ID:	9909043-05A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	9/13/99 10:14:00 AM
		COC Record:	10260

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	1310	25		mg/Kg	1	9/17/99
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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Ranking Score : 0 Closure Standard : 5000 ppm