

San Juan County Trust
SAN JUAN COUNTY INSPECTOR

SEP 16 2000

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

Denied

PIT REMEDIATION AND CLOSURE REPORT

Operator: Robert L. Bousless Telephone: 326-2659
Address: 368 NM 70 Farmington NM 87401
Facility or Well Name: Jic AXI F # 4
Location: Unit: P Sec. 11 T. 23 N R. 5 W County Rio Arriba
Pit Type: Separator Dehydrator Other Drip
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 20 width 10 depth 24
(Attach diagram) Reference: wellhead X other
Footage from reference: 50'
Direction from reference: 45° Degrees X East North
West of South

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation or ground water)	Less than 50 feet (20 points) 50 feet to 99 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 1,000 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 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	<u>0</u>
Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11-6-97 Date Completed: 11-19-97

Remediation Method: Excavation _____ Approx. Cubic Yards _____

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 40

Other _____

Remediation Location: Onsite X Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Came in and took down fence excavated pit as far as back-hoe could dig pit was too flat. On 11-19-97 came back and excavated pit to a depth of 24' and took readings. Bottled samples

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling: Sample Location Bottom + Composite

(if multiple samples, attach sample result and diagram of sample locations and depths.) Sample depth 24'

Sample date 11-19-97 Sample time _____

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) 7 Toluene (ppb) _____

Field headspace (ppm) 93 Ethylbenzene (ppb) _____

TPH 12 ppm Method 418.1 Total Xylenes (ppb) _____

Ground Water 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 MY BELIEF

DATE 11-19-97 PRINTED NAME Dave Sims

SIGNATURE Dave Sims AND TITLE Project Manager

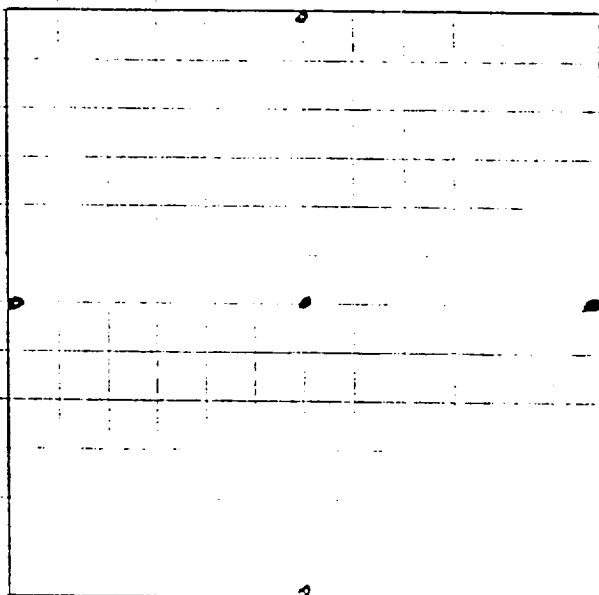
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Kerry C. Marshall DATE: 2-6-98

Location: Ticurilla AXIF #4

Depth: 24



• Denotes sample location

Samples:

Northern : 0

South : 0

East : 0

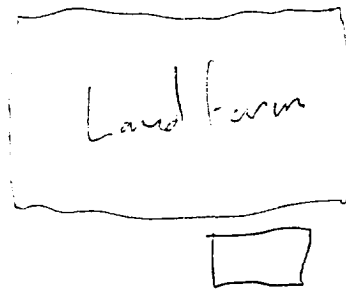
West : 0

Bottom : 93

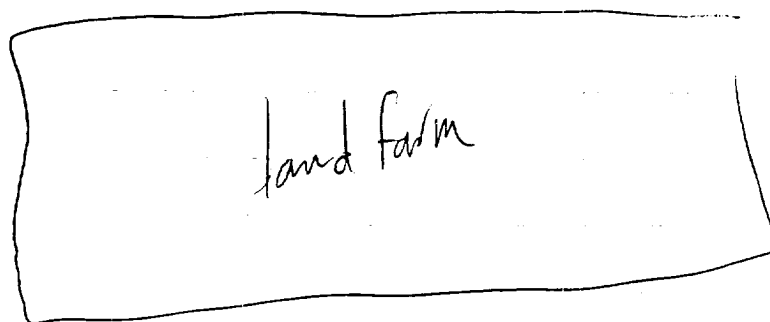
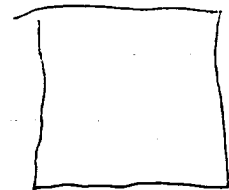
Jicarilla Axi f # 4

N

Well Head
O



Pit



~~AXI F # 4~~

~~AXI~~ F # 4

~~11-19-97~~ 11-19-97

Moved to location

took down fence

excavated pit to 12' deep (6 feet below existing bottom) length 20 width 14' built land berm

on north end of location took samples it was too hot so we brought a track-hoe in and excavated pit to 24' deep and took readings.

Bottled Samples

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **David Sims**
Company: **Arrowhead**
Address: **P.O. Box 2522**
City, State: **Farmington, NM 87499-2522**

Date: **25-Nov-97**
COC No.: **6589**
Sample No.: **16899**
Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
Project Location: **Jicarilla Axi 'F' #4 Composite**
Sampled by: **WM** Date: **19-Nov-97** Time: **10:30**
Analyzed by: **DC** Date: **23-Nov-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	1	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	6	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
TOTAL		7		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **11-25-97**

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **David Sims**
Company: **Arrowhead**
Address: **P.O. Box 2522**
City, State: **Farmington, NM 87499-2522**

Date: **25-Nov-97**
COC No.: **6589**
Sample No.: **16900**
Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
Project Location: **Jicarilla Axi "F" #4 Bottom**
Sampled by: **WM**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **19-Nov-97** Time: **10:30**
Date: **23-Nov-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	2	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	4	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	6	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	12		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **11/25/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *25-Nov-97*
COC No.: *6589*
Sample No.: *16900*
Job No.: *2-1000*

Project Name: *Arrowhead / RMI*
Project Location: *Jicarilla Axi 'F' #4 Bottom*
Sampled by: *WM*
Analyzed by: *HR*
Sample Matrix: *Soil*

Date: *19-Nov-97* Time: *10:30*
Date: *24-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>ND</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>857</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16928-3753</i>	<i>8.3</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *11/25/97*

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **David Sims**
Company: **Arrowhead**
Address: **P.O. Box 2522**
City, State: **Farmington, NM 87499-2522**

Date: **25-Nov-97**
COC No.: **6589**
Sample No.: **16899**
Job No.: **2-1000**

Project Name: **Arrowhead / RMI**
Project Location: **Jicarilla Axi 'F' #4 Composite**
Sampled by: **WM** Date: **19-Nov-97** Time: **10:30**
Analyzed by: **HR** Date: **24-Nov-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

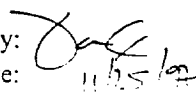
Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSSI	857	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16928-3753	8.3	15.0

Approved by: 

Date: **11/25/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Sep-98

Client:	Bayless Drilling Company / Robert L. Bayl	Client Sample Info:	R.L. Bayless
Work Order:	9809062	Client Sample ID:	Axi Apache F4 LF 1
Lab ID:	9809062-07A	Matrix:	SOIL
Project:	Bayless Jicarilla	Collection Date:	9/23/98 6:59:00 PM
		COC Record:	5567

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
TPH, T/R SOIL		E418.1				Analyst: HR
Petroleum Hydrocarbons, T/R	ND	26		mg/Kg	1	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

1 of 1

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Sep-98

Client:	Bayless Drilling Company / Robert L. Bayl	Client Sample Info:	R.L. Bayless
Work Order:	9809062	Client Sample ID:	Axi Apache F4 LF 2
Lab ID:	9809062-08A	Matrix:	SOIL
Project:	Bayless Jicarilla	Collection Date:	9/23/98 6:59:00 PM
		COC Record:	5567

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
TPH, T/R SOIL		E418.1				Analyst: HR
Petroleum Hydrocarbons, T/R	ND	26		mg/Kg	1	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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

2 Land farms

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Bayless Drilling</u>		Telephone: <u>325-2669</u>	
Address: <u>365 US Hwy 170 Farmington NM 87401</u>			
Facility or Well Name: <u>Axi Apache #4 LEY</u>			
Location: Unit: <u>P</u>		Sec. <u>11</u> T. <u>23</u> N R. <u>5</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>			
Date Remediation Started: <u>11-6-97</u>		Date Completed: <u>10-2-98</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>40</u>	
Composted: _____		Other <u>3 Point Composite</u>	
Depth to Ground Water: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream: (pts.) <u>0</u>		Sampling Date: <u>9/23/98</u> Time <u>6:59pm</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>		Sampling Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>93</u>	
Distance to Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>12</u> Method <u>E418.1</u>	
Ranking Score (Total Points): <u>0</u>		Other _____	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>10-1-98</u>		PRINTED NAME <u>Dan Allen</u>	
SIGNATURE <u>Dan Allen</u>		AND TITLE <u>Project Manager</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE			
APPROVED: YES <u>X</u> NO _____		(REASON) <u>Landfarm closed</u>	
SIGNED: <u>[Signature]</u>		<u>OK to backfill pit</u>	
DATE: <u>10/19/98</u>			