

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE RECEIVED

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: Robert L. Bayless Telephone: 326-2659
 Address: 368 NM 170 Farmington NM. 87401
 Facility or Well Name: # 108 Jic. IT Venture PC
 Location: Unit: 0 Sec. 3 T. 23N R. 3W County Rio Arriba
 Pit Type: Separator Dehydrator Other Drip
 Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 10 width 10 depth 8
 (Attach diagram) Reference: wellhead X other
 Footage from reference: 90'
 Direction from reference: 100 Degrees East North
 West of South X

Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation or ground water)</small>	Less than 50 feet (20 points)	<u> </u>
	50 feet to 99 feet (10 points)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>
Wellhead Protection Area: <small>(Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)</small>	Yes (20 points)	<u> </u>
	No (0 points)	<u> </u>
Distance to Surface Water: <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet (20 points)	<u> </u>
	200 feet to 1,000 feet (10 points)	<u> </u>
	Greater than 1,000 feet (0 points)	<u> </u>
Distance to Ephemeral Stream (dry wash): <small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>	Less than or equal to 100 feet (10 points)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>
Distance to Nearest Lake, Playa, or Watering Pond: <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet (10 points)	<u> </u>
	Greater than 100 feet (0 points)	<u> </u>

RANKING SCORE (TOTAL POINTS):

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

Remediation Method: Excavation _____ Approx. Cubic Yards _____

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 10

Other _____

Remediation Location: Onsite X Offsite _____

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

General Description of Remedial Action:
Took down fence and excavated pit to 8' (6'
Below existing bottom and took readings. Bottled
samples + put up fence

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 8'

Sample date 11-19-97 Sample time 2:30

Sample Results

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

Total BTEX (ppm) N.D. Toluene (ppb) _____

Field headspace (ppm) 33 Ethylbenzene (ppb) _____

TPH 882 ppm Method 419.1 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

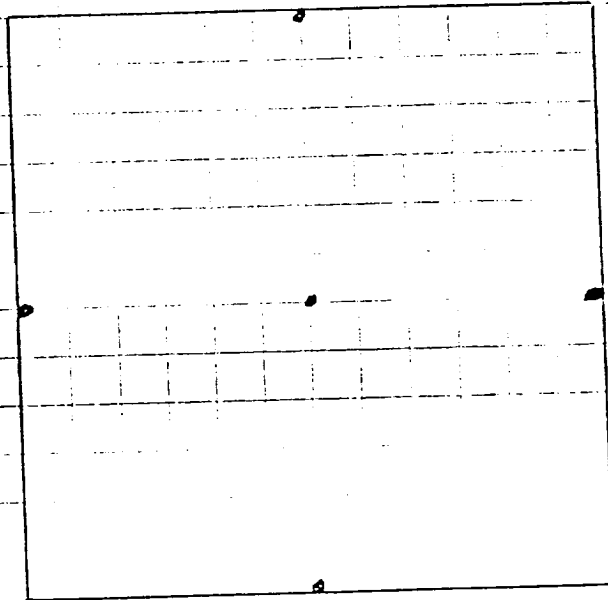
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Steve C. Marshall DATE: 2-8-98

Location: # 108 Jic JT Ventura PC

Depth: 8'



• Denotes sample location

Samples:

North : 0
South : 0
East : 1
West : 9
Bottom : 33

108 Jic. JT. Venture PC.

Moved to Location
took down fence

Excavated pit to a depth of 8' (6' below
existing bottom) Took readings and bottled
Samples

put up fence

108 Jic. JT. Venture PL

N

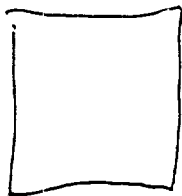
Wellhouse



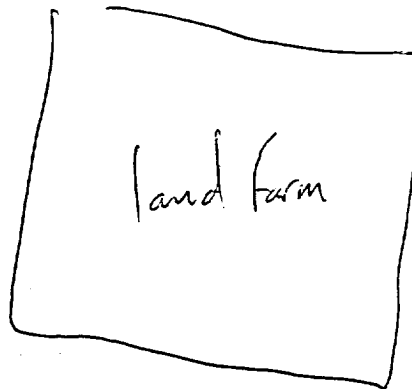
Wellhead



Pit



land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims* Date: **25-Nov-97**
 Company: *Arrowhead* COC No.: **6589**
 Address: *P.O. Box 2522* Sample No.: **6906**
 City, State: *Farmington, NM 87499-2522* Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
 Project Location: **#108 Jic JT Venture PC Bottom**
 Sampled by: **WM** Date: **19-Nov-97** Time: **14:30**
 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>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	2	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
<i>TOTAL</i>	3	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
 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.: *16906*
 Job No.: *3-1000*

Project Name: *Arrowhead / RMI*
 Project Location: *#108 Jic JT Venture PC Bottom*
 Sampled by: *WM* Date: *19-Nov-97* Time: *14:30*
 Analyzed by: *HR* Date: *24-Nov-97*
 Sample Matrix: *Soil*

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



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.: **13305**
 Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
 Project Location: **#108 Jic JT Venture PC Composite**
 Sampled by: **WM** Date: **19-Nov-97** Time: **14:30**
 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>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	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
	<i>TOTAL</i>	ND		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
 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.: **15905**
 Job No.: **2-1000**

Project Name: **Arrowhead / RMI**
 Project Location: **#108 Jic JT Venture PC Composite**
 Sampled by: **WM** Date: **19-Nov-97** Time: **14:30**
 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 - QCSS1	857	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16928-3753	8.3	15.0

Approved by: *[Signature]*
 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:	9809076	Client Sample ID:	Jic. JT Venture #108
Lab ID:	9809076-06A	Matrix:	SOIL
Project:	Jicarilla Pits	Collection Date:	9/25/98 1:34:00 PM
		COC Record:	5568

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
TPH, T/R SOIL		E418.1				Analyst: HR
Petroleum Hydrocarbons, T/R	82		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

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 ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: Baylor Drilling Telephone: 325-2659
 Address: 318 US Hwy 170 Farmington NM 87401
 Facility or Well Name: Jic JT Ventures #108
 Location: Unit: 0 Sec. 3 T. 23 N. R. 3 W County Pio Arriba
 Land Type: Jicarilla Apache

Date Remediation Started: 6-28-98 Date Completed: _____
 Remediation Method: Landfirmed Approx. cubic yards 10
 Composted: _____
 Other: 3 part Compost

Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>9/25/98</u> Time <u>1:34pm</u> Sampling Results: Field Headspace (ppm) <u>33</u> TPH (ppm) <u>82</u> Method <u>E 418.1</u> Other _____
Distance to an Ephemeral Stream: (pts.) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance to Surface Water: (pts.) <u>0</u>	
Ranking Score (Total Points): <u>0</u>	

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9-28-98 PRINTED NAME Donovan Allred
 SIGNATURE Donovan Allred AND TITLE Project Manager

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE

APPROVED: YES NO _____ (REASON) OK to close landfarm not for backfill into pit

SIGNED: [Signature] DATE: 10/19/98