

B10W-1915K-6Pavoc  
 Sep-84  
 CE  
 SUBMIT 1 COPY TO:  
 NATURAL RESOURCE DEPT  
 AND OIL & GAS ADMINISTRATION  
 RECEIVED  
 AUG 20 1999  
 RT  
 OIL COM. DIV.  
 DIST. 3

OIL CON. DIV.  
DIST. 3

Operator: <u>AMOCO PRODUCTION COMPANY</u>		Telephone: <u>(505) 326-9200</u>
Address: <u>200 Amoco Court, Farmington, NM 87401</u>		
Facility or Well Name: <u>JICARIWA APACHE TRIBAL #151-1</u>		
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>10</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARIZONA</u>		
Pit Type: Separator <input type="checkbox"/> Dehydrator <input type="checkbox"/> Other <u>BLOW</u>		
Land Type: <u>RANGE</u>		
Pit Location: Pit dimensions: length <u>53'</u> , width <u>50'</u> , depth <u>11'</u> (Attach diagram) Reference: wellhead <u>X</u> , other _____ Footage from reference: <u>250'</u> Direction from reference: <u>51</u> Degrees <u>X</u> East of North _____ _____ West of South <u>X</u>		
<b>Depth To Groundwater:</b> (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points)
<b>Distance to an Ephemeral Stream</b> (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points)
<b>Distance to Nearest Lake, Playa, or Watering Pond</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points)
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) ( 0 points)
<b>Distance To Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points)
<b>RANKING SCORE (TOTAL POINTS):</b>		<u>0</u>

RT534

BLOW PIT

Date Remediation Started: \_\_\_\_\_

Date Completed: \_\_\_\_\_

7/10/98

Remediation Method:

Excavation

☒Check all appropriate  
sections)

Landfarmed

☒

Other \_\_\_\_\_

Approx. cubic yards

1,300

Insitu Bioremediation \_\_\_\_\_

Remediation Location:

Onsite

☒

Offsite \_\_\_\_\_

(i.e. landfarmed onsite,  
name and location of  
offsite facility)General Description of Remedial Action: Excavation. EXCAVATION MOSTLY BEDROCK,THEREFORE NO TPH ANALYSIS WAS CONDUCTED. RISK ASSESSED.

Groundwater Encountered:

No

☒

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit:

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample location see Attached Documents

Sample depth

6' (WEST SIDEWALK)

Sample date

7/8/98

Sample time

0900

Sample Results

Soil: Benzene

(ppm)

\_\_\_\_\_

Water: Benzene

(ppb)

\_\_\_\_\_

Total BTEX

(ppm)

\_\_\_\_\_

Toluene

(ppb)

\_\_\_\_\_

Field Headspace

(ppm)

121.1

Ethylbenzene

(ppb)

\_\_\_\_\_

TPH

(ppm)

NA

Total Xylenes

(ppb)

\_\_\_\_\_

Groundwater Sample:

Yes \_\_\_\_\_

No

☒

(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

7/10/98

PRINTED NAME

Buddy D. Shaw

SIGNATURE

Buddy D. Shaw

AND TITLE

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

APPROVED: YES

☒

NO \_\_\_\_\_

(REASON) \_\_\_\_\_

SIGNED:

Karen C. Marshall

DATE:

7-27-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT584</u> C.D.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME <u>JICA, AP. TRIBAL 151</u> WELL #: <u>1</u> PIT: <u>Blow</u>		DATE STARTED: <u>7/8/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>N</u> SEC: <u>10</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>Nm</u> CNTY: <u>RA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>1180' FSL   1480' FWL</u> CONTRACTOR: <u>P+S</u>		

EXCAVATION APPROX. <u>53</u> FT. x <u>50</u> FT. x <u>11</u> FT. DEEP.	CUBIC YARDAGE: <u>1,300</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JICA 151</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>250</u> FT. <u>SSIE</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>&gt;100'</u>	NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:	
<input checked="" type="checkbox"/>	PIT ABANDONED
<input type="checkbox"/>	STEEL TANK INSTALLED
<input type="checkbox"/>	FIBERGLASS TANK INSTALLED

SIDEWALLS - EXCAVATION CONSIST OF MOSTLY BEDROCK (SHALE) SANDSTONE) FRAGILE TO VERY HARD (NEAR PIT BOTTOM) LT. GRAY TO DUSKY RED IN COLOR, NO APPARENT STAINING OR HC ODOR OBSERVED W/IN EXCAVATION, HC ODOR DETECTED IN WEST SIDEWALL OVM SAMPLE ONLY.

BOTTOM - BEDROCK (SANDSTONE), OLIVE GRAY IN COLOR, VERY HARD, NO APPARENT HC ODOR IN OVM SAMPLE.

EXCAVATION  
MOSTLY  
BEDROCK

RISK ASSESSED

#### FIELD 418.1 CALCULATIONS

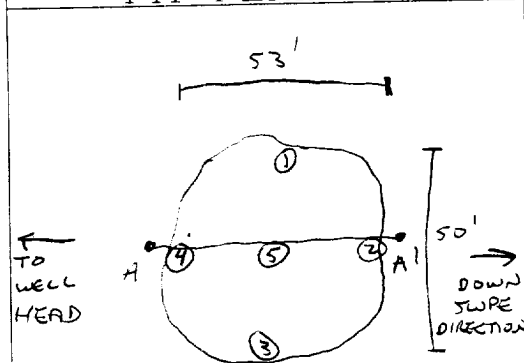
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0900							

SCALE



0 FT

#### PIT PERIMETER



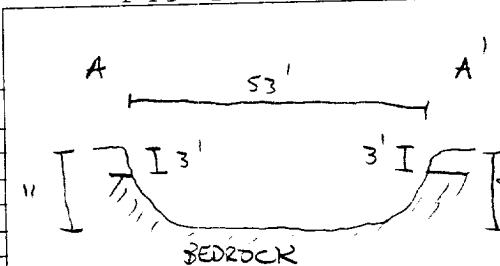
#### OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P10 (ppm)
1 @ 7'	0.0
2 @ 6'	0.0
3 @ 6'	10.4
4 @ 6'	121.1
5 @ 11'	0.0

#### LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

#### PIT PROFILE



TRAVEL NOTES:	CALLOUT: <u>7/7/98 - AFTER.</u>	ONSITE: <u>7/8/98 - MORN.</u>
---------------	---------------------------------	-------------------------------

<b>Well Name:</b>	<b>Jicarilla Apache Tribal 151 #1</b>
<b>Well Site location:</b>	Unit N, Sec. 10, T26N, R5W
<b>Pit Type:</b>	Blow Pit
<b>Producing Formation:</b>	Basin Dakota
<b>Pit Category:</b>	Non Vulnerable
<b>Horizontal Distance to Surface Water:</b>	> 1000 ft.
<b>Vicinity Groundwater Depth:</b>	> 100 ft.

## **RISK ASSESSMENT (non-vulnerable area)**

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 11 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 11 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the **non-vulnerable area** and is approximately 1.58 miles north of the nearest vulnerable area boundary (Tapacito Creek).

**(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).**

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

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

BJ 584. SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

**PIT REMEDIATION AND CLOSURE REPORT**

**Operator:** AMOCO PRODUCTION COMPANY **Telephone:** (505) 326-9200

**Address:** 200 Amoco Court, Farmington, NM 87401

**Facility or Well Name:** JICARILLA APACHE TRIBAL #151-1

**Location:** Unit or Qtr/Qtr Sec N Sec 10 T 26N R 5W County RIO ARIZONA

**Pit Type:** Separator ☒ Dhydrator ☐ Other ☐

**Land Type:** RANGE

**Pit Location:** Pit dimensions: length 21', width 34', depth 7'  
(Attach diagram) Reference: wellhead ☒, other ☐  
Footage from reference: 147'  
Direction from reference: 0 Degrees ☐ East of 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

RJ 534

SEP. PTT

Date Remediation Started: \_\_\_\_\_

Date Completed: \_\_\_\_\_

7/10/98

Remediation Method:  
(check all appropriate  
sections)

Excavation

☒

Landfarmed

☒

Other \_\_\_\_\_

Approx. cubic yards

200

Insitu Bioremediation \_\_\_\_\_

Remediation Location:

Onsite

☒

Offsite \_\_\_\_\_

(i.e. landfarmed onsite,  
name and location of  
offsite facility)General Description of Remedial Action: Excavation. BEDROCK BOTTOM.

Groundwater Encountered:

No

☒

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit:

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample location see Attached Documents

Sample depth

4' (WEST SIDEWALL)

Sample date

7/8/98

Sample time

0800

Sample Results

Soil: Benzene

(ppm)

ND

Water: Benzene

(ppb)

Total BTEX

(ppm)

0.0504

Toluene

(ppb)

Field Headspace

(ppm)

109.6

Ethylbenzene

(ppb)

TPH

(ppm)

1.1

Total Xylenes

(ppb)

Groundwater Sample:

Yes \_\_\_\_\_

No

☒

(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

7/10/98

PRINTED NAME

Buddy D. Shaw

SIGNATURE

Buddy D. Shaw

AND TITLE

Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE  
TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.APPROVED: YES ☒ NO \_\_\_\_\_ (REASON) \_\_\_\_\_

SIGNED:

Kew C M...

DATE:

7-27-98

3003908166

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8JS84</u> C.O.C. NO: <u>6091</u>																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>JICA. AP. TRIBAL 151 WELL #:</u> <u>1</u> PIT: <u>SEP</u> QUAD/UNIT: <u>N SEC: 10 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM</u> OTR/FOOTAGE: <u>1180' FSL / 1480' FWL</u> CONTRACTOR: <u>P &amp; S</u>		DATE STARTED: <u>7/8/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																								
EXCAVATION APPROX. <u>21</u> FT. x <u>34</u> FT. x <u>7</u> FT. DEEP. CUBIC YARDAGE: <u>200</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u> LAND USE: <u>RANGE</u> LEASE: <u>JICA 151</u> FORMATION: <u>DK</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>147</u> FT. <u>ONE SO.</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u> NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:																																										
<p>SOIL CONSIST OF MOSTLY DK. YELL. ORANGE TO DK. YELL. BROWN SAND TO SILTY CLAY EXCEPT WEST SIDEWALL BETWEEN 4' BELOW GROUND TO PIT BOTTOM - MED. GRAY TO BLACK DISCOLORATION W/ SLIGHT HC ODOR, NON COHESIVE TO SLIGHTLY PLASTIC, FIRM TO STIFF, STRONG HC ODOR IN WEST SIDEWALL OUM SAMPLE ONLY.</p> <p>BOTTOM - LT. TO MED. GRAY BEDROCK (SANDSTONE), VERY HARD, NO APPARENT HC ODOR IN OUM SAMPLE</p>																																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>BEDROCK BOTTOM</b></p> <p><b>SCALE</b></p> <p>0 <span style="display: inline-block; width: 20px; height: 10px; background-color: black;"></span> FT</p> </div> <div style="width: 30%;"> <p><b>CLOSED</b></p> </div> <div style="width: 35%;"> <p>FIELD 418: CALCULATIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																																
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<p><b>OVM RESULTS</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 4'</td><td>0.0</td></tr> <tr><td>2 @ 3'</td><td>0.0</td></tr> <tr><td>3 @ 3'</td><td>0.0</td></tr> <tr><td>4 @ 4'</td><td>109.6</td></tr> <tr><td>5 @ 7'</td><td>0.0</td></tr> </tbody> </table>		SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 4'	0.0	2 @ 3'	0.0	3 @ 3'	0.0	4 @ 4'	109.6	5 @ 7'	0.0																													
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TRAVEL NOTES: CALLOUT: <u>7/7/98 - AFTER.</u> ONSITE: <u>7/8/98 - MORN.</u>																																										

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO  
Sample ID: 4 @ 4'  
Laboratory Number: D595  
Chain of Custody No: 6091  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

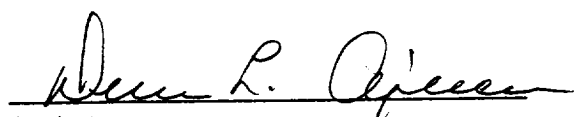
Project #: 04034-10  
Date Reported: 07-09-98  
Date Sampled: 07-08-98  
Date Received: 07-09-98  
Date Extracted: 07-09-98  
Date Analyzed: 07-09-98  
Analysis Requested: 8015 TPH

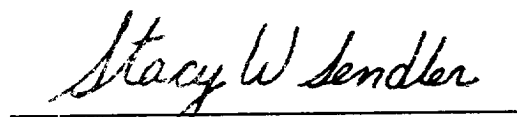
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	1.1	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache Tribal #151 - 1 Separator Pit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / AMOCO  
Sample ID: 4 @ 4'  
Laboratory Number: D595  
Chain of Custody: 6091  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 04034-10  
Date Reported: 07-09-98  
Date Sampled: 07-08-98  
Date Received: 07-09-98  
Date Analyzed: 07-09-98  
Date Extracted: 07-09-98  
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	50.4	10.8
o-Xylene	ND	5.2
Total BTEX	50.4	


ND - Parameter not detected at the stated detection limit.

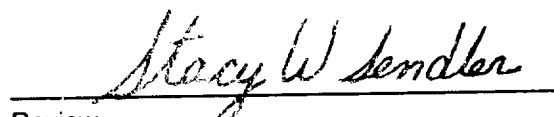
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache Tribal #151 - 1 Separator Pit.

  
Analyst

  
Review

6091

[illegible]

8J584

**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

<b>Operator:</b> <u>AMOCO PRODUCTION COMPANY</u>		<b>Telephone:</b> <u>(505) 326-9200</u>	
<b>Address:</b> <u>200 Amoco Court, Farmington, NM 87401</u>			
<b>Facility or Well Name:</b> <u>JICARILLA APACHE TRIBAL #151-1</u>			
<b>Location:</b> Unit or Qtr/Qtr Sec <u>N</u> Sec <u>10</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARRIBA</u>			
<b>Land Type:</b> _____			
<b>Date Remediation Started:</b> <u>7/8/98</u>		<b>Date Completed:</b> <u>2/2/99</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/>		<b>Approx. cubic yards</b> <u>1,500</u>	
Composted _____			
Other _____			
<b>Distance To Groundwater:</b> (pts.) <u>0</u> <b>Distance to an Ephemeral Stream</b> (pts.) <u>0</u> <b>Distance to Nearest Lake, Playa, or Watering Pond</b> (pts.) <u>0</u> <b>Wellhead Protection Area:</b> (pts.) <u>0</u> <b>Distance To Surface Water:</b> (pts.) <u>0</u> <b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u>		<b>Final Closure Sampling:</b> <b>Sampling Date:</b> <u>2/1/99</u> <b>Time:</b> <u>1110</u> <b>Sample Results:</b> <b>Field Headspace (ppm)</b> <u>0.0</u> <b>TPH (ppm)</b> <u>1.8</u> <b>Method</b> <u>8015</u> <b>Other</b> _____	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF  <b>DATE</b> <u>2/2/99</u> <b>PRINTED NAME</b> <u>Buddy D. Shaw</u> <b>SIGNATURE</b> <u>Buddy D. Shaw</u> <b>AND TITLE</b> <u>Environmental Coordinator</u>			
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.  <b>APPROVED:</b> YES _____ NO _____ (REASON) _____  <b>SIGNED:</b> _____ <b>DATE:</b> _____			

CLIENT: <u>AMOCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>35584</u>  C.O.C. NO: <u>6564</u>
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## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA APACHE TRIBAL (S)</u> WELL #: <u>1</u> PITS: <u>SEP, BLOW</u> QUAD/UNIT: <u>N</u> SEC: <u>10</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>EA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SE/4 SW/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>2-1-99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>REP</u>
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### SOIL REMEDIATION:

REMEDIATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>1,500</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1-2</u>

### FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCED RANKING SCORE: 0 NMOCED TPH CLOSURE STD: 5000 PPM

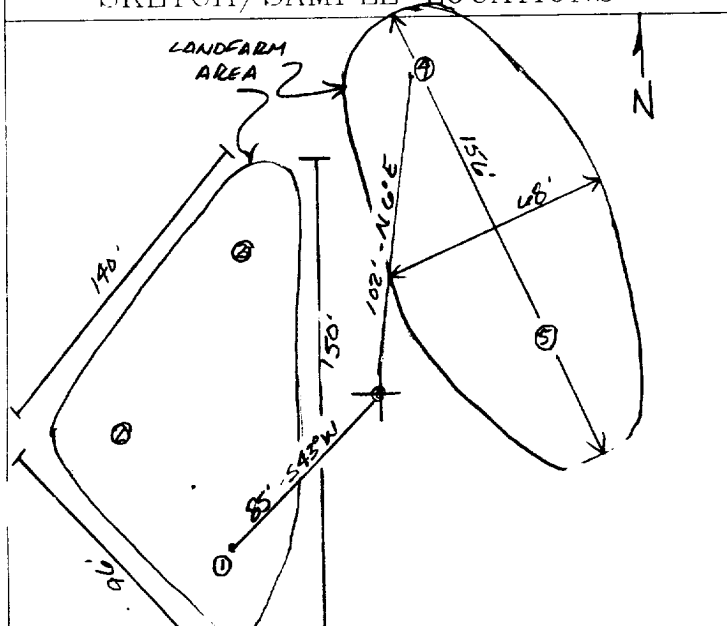
*PALE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST. FIRM.  
 NO VISIBLE STAINING OBSERVED. NO HCODOR DETECTED. SAMPLING DEPTHS  
 RANGE FROM 6" - 18". TOOK A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS.*

CLOSED

### FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

### LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
<u>LF-1</u>	<u>0.0</u>	<u>LF-1</u>	<u>TPH (8015)</u>	<u>1110</u>	<u>1.8</u>

SCALE

0  100 FT

### TRAVEL NOTES:

CALLOUT: N/A

ONSITE: 2-1-99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

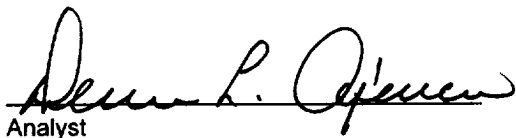
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	02-02-99
Laboratory Number:	E596	Date Sampled:	02-01-99
Chain of Custody No:	6564	Date Received:	02-02-99
Sample Matrix:	Soil	Date Extracted:	02-02-99
Preservative:	Cool	Date Analyzed:	02-02-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

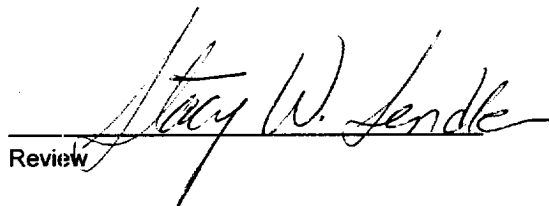
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.2	0.2
Diesel Range (C10 - C28)	0.6	0.1
Total Petroleum Hydrocarbons	1.8	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache Tribal 151 - 1 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review

## 4959

[illegible]