

**OIL CON. DIV.**  
**DIST. 3**

**DIST. 3**

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 10/18/98

Remediation Method: Excavation ☒ Approx. cubic yards 100  
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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.

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' (PIT BOTTOM)

Sample date 10/21/98 NW

Sample time 1000

## Sample Results

Soil: Benzene (ppm) \_\_\_\_\_

Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Toluene (ppb) \_\_\_\_\_

Field Headspace (ppm) 39

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

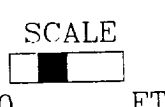
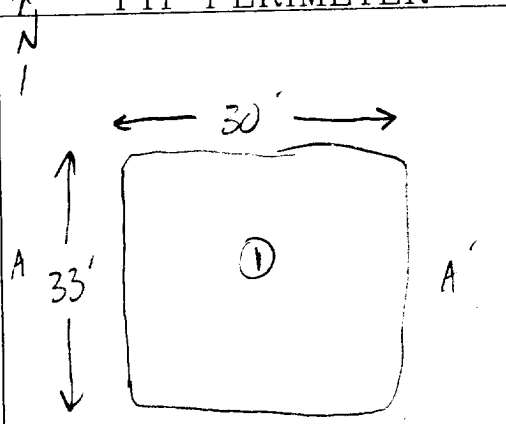
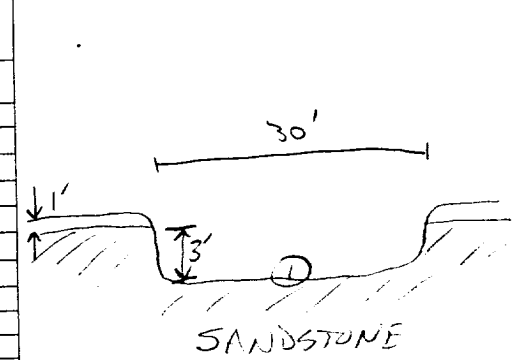
DATE 10/18/98 PRINTED NAME Buddy D. Shaw

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: K. C. Marshall DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J673</u> C.D.C. NO: <u>    </u>																																																																						
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																																																						
LOCATION: NAME: <u>JICA APACHE 102</u> WELL #: <u>15</u> PIT: <u>Blow</u> QUAD/UNIT: <u>P</u> SEC: <u>9</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SE/4</u> <u>SE/4</u> CONTRACTOR: <u>Philo</u>		DATE STARTED: <u>10-18-99</u> DATE FINISHED: <u>10-20-99</u> ENVIRONMENTAL SPECIALIST: <u>JCS</u>																																																																						
EXCAVATION APPROX. <u>33</u> FT. x <u>30</u> FT. x <u>4'</u> FT. DEEP. CUBIC YARDAGE: <u>100</u> DISPOSAL FACILITY: <u>ONSITE</u> REMEDIATION METHOD: <u>LANDFILL</u> LAND USE: <u>RANGE</u> LEASE: <u>Fed Lse 102</u> FORMATION: <u>    </u>																																																																								
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>160</u> FT. <u>N37E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u> NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:																																																																								
<div style="float: right; border: 1px solid black; padding: 5px; width: fit-content;">           CHECK ONE:  <input checked="" type="checkbox"/> PIT ABANDONED  <input type="checkbox"/> STEEL TANK INSTALLED  <input type="checkbox"/> FIBERGLASS TANK INSTALLED         </div> <p style="margin-top: 20px;"> <u>Blue/Green Bedrock Sandstone on Sides &amp; Bottom.</u>  <u>SAMPLE 3 - Bottom for OVM ONLY.</u>  <u>MINOR HC OIL, NO STAIN</u> </p>																																																																								
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">           ENTIRE EXCAVATION IN BEDROCK         </div> <div style="text-align: center;">  <p>SCALE 0 FT</p> </div> </div> <div style="width: 65%;"> <div style="text-align: center; margin-bottom: 10px;">           FIELD 418.1 CALCULATIONS           <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> </tbody> </table> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center; margin-bottom: 10px;">PIT PERIMETER</p>  </div> <div style="width: 45%;"> <p style="text-align: center; margin-bottom: 10px;">OVM RESULTS</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 @ C64</td><td>39</td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <p style="text-align: center; margin-bottom: 10px;">LAB SAMPLES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> </div> <div style="width: 45%;"> <p style="text-align: center; margin-bottom: 10px;">PIT PROFILE</p>  </div> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																									SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ C64	39	2 @		3 @		4 @		5 @										SAMPLE ID	ANALYSIS	TIME															
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TRAVEL NOTES:      CALLOUT:      ONSITE:																																																																								

BJ673

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

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

**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 #102 - 15

**Location:** Unit or Qtr/Qtr Sec P Sec 9 T 26N R 4W County RIO ARIZONA

**Pit Type:** Separator X Dehydrator      Other     

**Land Type:** RANGE

**Pit Location:** Pit dimensions: length 21', width 30', depth 14'  
(Attach diagram) Reference: wellhead X, other       
Footage from reference: 155'  
Direction from reference: 75 Degrees X East of North       
     West of 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)	
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)	<u>0</u>
Greater than 100 feet	(0 points)	

**Distance to Nearest Lake, Playa, or Watering Pond**

(Downgradient lakes, playas and  
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	<u>0</u>
Greater than 100 feet	(0 points)	

**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)	<u>0</u>
No	(0 points)	

**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: \_\_\_\_\_ Date Completed: 10/22/98

Remediation Method: Excavation ☒ Approx. cubic yards 275  
 Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
 Other \_\_\_\_\_

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: Sample location see Attached Documents

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 9' (NORTH SIDEWALK)

Sample date 10/28/98 Sample time 1236

## Sample Results

Soil: Benzene	(ppm)	<u>0.637</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>9.590</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>349</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>189</u>	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 10/22/98 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: Ker C Mammall DATE: 6-16-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ613</u> C.O.C. NO: <u>6362</u>																																
<b>FIELD REPORT: CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>JICA APACHE 102</u> WELL #: <u>15</u> PIT: <u>SEP</u>		DATE STARTED: <u>10-18-98</u> DATE FINISHED: <u>10-21-98</u>																																
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QTR/FOOTAGE: <u>SE/4</u> <u>SE/4</u> CONTRACTOR: <u>PAUL</u>																																		
EXCAVATION APPROX. <u>21</u> FT. x <u>30</u> FT. x <u>14</u> FT. DEEP. CUBIC YARDAGE: <u>275</u>																																		
DISPOSAL FACILITY: <u>ONSITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																		
LAND USE: <u>RANGE</u> LEASE: <u>FED L&amp;E 102</u> FORMATION: _____																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>155</u> FT. <u>S75°E</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>5,000</u> PPM																																		
SOIL AND EXCAVATION DESCRIPTION:																																		
<p>           Yellow orange sandy clay 0'-9', Dry to Moist, Cohesive, FIRM,            9'-14' claystone bedrock, Hard.            14' Hit Blue/green Sandstone.            HC over soil samples - No stain.         </p>																																		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>           BEDROCK BOTTOM            SCALE            0 FT         </p> </div> <div style="width: 30%;"> <p>FIELD 418.1 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> </tbody> </table> </div> <div style="width: 35%;"> <p>CHECK ONE:</p> <p><input checked="" type="checkbox"/> PIT ABANDONED</p> <p><input type="checkbox"/> STEEL TANK INSTALLED</p> <p><input type="checkbox"/> FIBERGLASS TANK INSTALLED</p> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																								
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

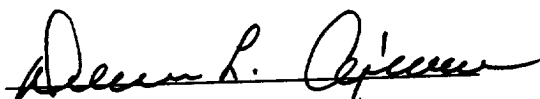
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	Separator N @ 9'	Date Reported:	10-22-98
Laboratory Number:	E093	Date Sampled:	10-21-98
Chain of Custody No:	6362	Date Received:	10-22-98
Sample Matrix:	Soil	Date Extracted:	10-22-98
Preservative:	Cool	Date Analyzed:	10-22-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

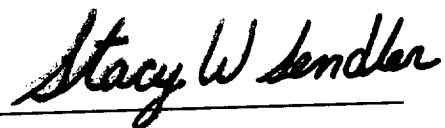
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	124	0.2
Diesel Range (C10 - C28)	65.1	0.1
Total Petroleum Hydrocarbons	189	0.2

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: Jica. Apa. 102 - 15.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	Separator N @ 9'	Date Reported:	10-22-98
Laboratory Number:	E093	Date Sampled:	10-21-98
Chain of Custody:	6362	Date Received:	10-22-98
Sample Matrix:	Soil	Date Analyzed:	10-22-98
Preservative:	Cool	Date Extracted:	10-22-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	637	8.8
Toluene	2,670	8.4
Ethylbenzene	965	7.6
p,m-Xylene	3,200	10.8
o-Xylene	2,120	5.2
Total BTEX	9,590	

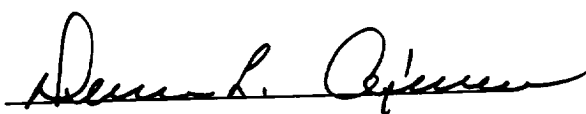
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	101 %

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: Jica. Apa. 102 - 15.

  
Analyst

  
Review



## 6362

[illegible]

**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: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200  
Address: 200 Amoco Court, Farmington, NM 87401  
Facility or Well Name: JICARILLA APACHE 102-15  
Location: Unit or Qtr/Qtr Sec P Sec 9 T26N R4W County RIO ARriba  
Land Type: RANGE

Date Remediation Started: 10-21-98 Date Completed: 5/17/99  
Remediation Method: Landfarmed ☒ Approx. cubic yards 375  
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: 5.13.99 Time: 1415  
Sample Results:  
Field Headspace (ppm) 37.0  
TPH (ppm) 15.2 Method TPH (8015)  
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 5/17/99 PRINTED NAME Buddy D. Shaw  
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

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: [Signature] DATE: 6-18-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85673</u> C.O.C. NO: <u>6930</u>
----------------------	--	---

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA APACHE 102</u> WELL #: <u>15</u> PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>5-13-99</u>
QUAD/UNIT: <u>P</u> SEC: <u>9</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
OTF/FOOTAGE: <u>SE/4 SE/4</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 375

LAND USE: RANGE

LIFT DEPTH (ft): 1

### FIELD NOTES & REMARKS:

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

NMDC RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

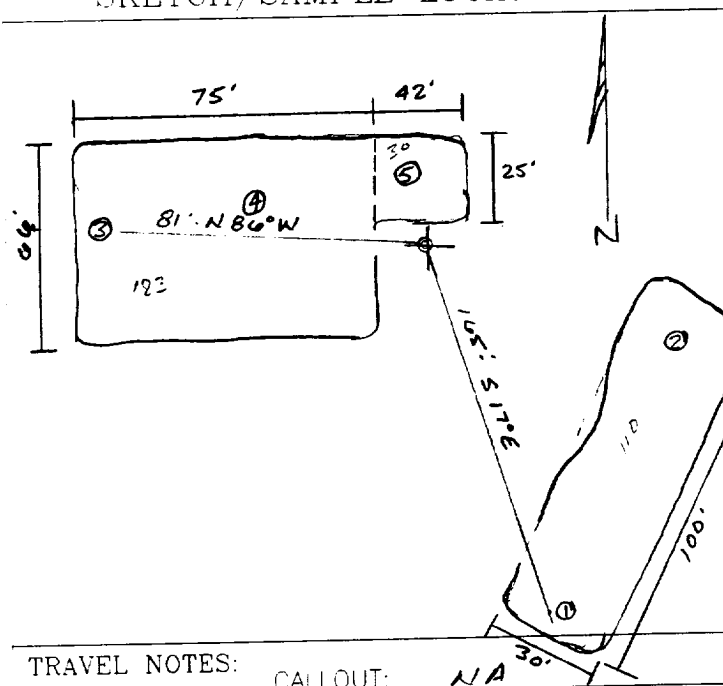
DK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST. MOIST, FIRM.  
NO APPARENT STAINING, NO HC ODOR DETECTED. SAMPLING DEPTHS RANGE  
FROM 6" - 10" COLLECTED A 5FT COMPOSITE SAMPLE FOR LAB ANALYSIS

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
LF-1	37.0	LF-1	TPH (8015)	1415	15.2

SCALE

0  100 FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 5-13-99

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

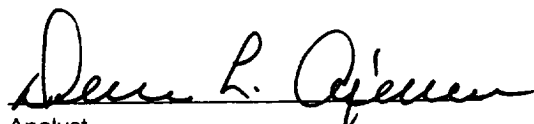
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-17-99
Laboratory Number:	F253	Date Sampled:	05-13-99
Chain of Custody No:	6930	Date Received:	05-14-99
Sample Matrix:	Soil	Date Extracted:	05-17-99
Preservative:	Cool	Date Analyzed:	05-17-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

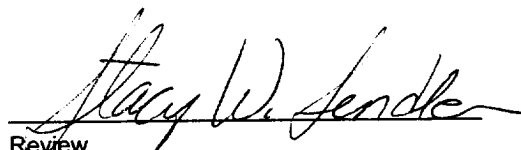
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.8	0.2
Diesel Range (C10 - C28)	8.4	0.1
Total Petroleum Hydrocarbons	15.2	0.2

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 102 - 15 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review

6930

**ENVIROTECH INC.**