

87516

OK

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**

AUG 20 1999

RECEIVED

OIL CON. DIV.

Operator: AMOCO PRODUCTION COMPANY

Telephone: 505 326-9200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA APACHE TRIBAL 35 #7

Location: Unit or Qtr/Qtr Sec H Sec 2 T 24N R 5W County RIO ARIZONA

Pit Type: Separator      Dehydrator      Other BLOW

Land Type: RANGE

Pit Location:  
(Attach diagram)

Pit dimensions: length 15', width 15', depth 12'

Reference: wellhead X, other     

Footage from reference: 132'

Direction from reference: 80 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)	<u>0</u>
Greater than 100 feet	(0 points)	

**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: \_\_\_\_\_ Date Completed: 12/22/97

Remediation Method: Excavation ☒ Approx. cubic yards 30  
(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

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 17'

Sample date 12/22/97 Sample time 1410

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</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 12/22/97 PRINTED NAME Buddy D. Shaw


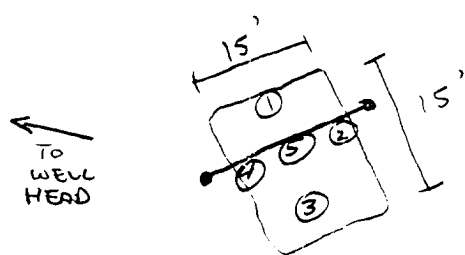
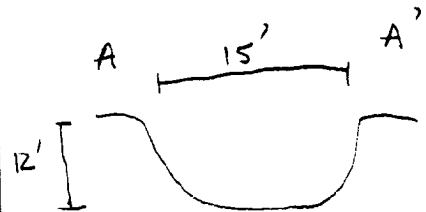
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

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: Kenn C Mamm DATE: 1-6-98

3003 923782

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 37, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ516</u> C.O.C. NO: _____																																
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>JICA . APACHE TRIBAL 35</u> WELL #: <u>7</u> PIT: <u>Flow</u> QUAD/UNIT: <u>H</u> SEC: <u>2</u> TWP: <u>24N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> DTP/EQUITAGE: <u>SE</u> <u>NE</u> CONTRACTOR: <u>P&amp;S</u>		DATE STARTED: <u>12/22/97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																
EXCAVATION APPROX. <u>15</u> FT. x <u>15</u> FT. x <u>12</u> FT. DEEP. CUBIC YARDAGE: <u>30</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u> LAND USE: <u>RANGE</u> LEASE: <u>TIC 35</u> FORMATION: <u>OK</u>																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>132</u> FT. <u>S80E</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 BANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM COIL AND EXCAVATION DESCRIPTION:																																		
OK. YELL. BROWN SILTY CLAY TO CLAY SLIGHTLY COHESIVE TO COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF, NO APPARENT STRIPPING OR HC ODOR OBSERVED w/ EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.																																		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>CLOSED</b></p> <p>SCALE</p>  <p>0 FT</p> </div> <div style="width: 40%;"> <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>410</td> <td>③ @ 14'</td> <td>TPH-1951</td> <td>5</td> <td>20</td> <td>1:1</td> <td>4</td> <td>ND</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: 25%;"> <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	410	③ @ 14'	TPH-1951	5	20	1:1	4	ND																
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TRAVEL NOTES: CALLOUT: <u>12/17/97</u> ONSITE: <u>12/22/97 - AFTER</u>																																		

# BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

## FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	
Sample ID:	5 @ 14'	Date Analyzed:	12-22-97
Project Location:	Jicarilla Apache Tribal 35 # 7	Date Reported:	12-22-97
Laboratory Number:	TPH-1951	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	ND	20

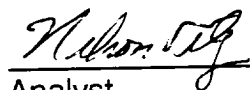
ND = Not Detectable at stated detection limits.

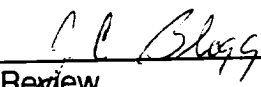
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	608	568	6.80

\*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Blow Pit - BJ516

  
Analyst

  
Review

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

\*\*\*\*\*

Max Characters:

Client:

AMOCO

Project #:

Sample ID:

5 @ 14'

Date Analyzed:

12-22-97

Project Location:

Jicarilla Apache Tribal 35 # 7

Date Reported:

12-22-97

Laboratory Number:

TPH-1951

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

4 mg/kg

TPH Result:

16.0 mg/kg

Reported TPH Result:

16 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original  
TPH mg/kg

Duplicate  
TPH mg/kg

%  
Diff.

-----  
608

-----  
568

-----  
6.80

Comments:

\*\*\*\*\*Max Characters\*\*\*\*\*

Comments:

Blow Pit - BJ516

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

87516

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

ON-SITE SOIL REMEDIATION REPORT

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>JICARILLA APACHE TRIBAL # 35 - 7</u>		
Location: Unit or Qtr/Qtr Sec <u>J</u> Sec <u>2</u> T <u>24N</u> R <u>5W</u> County <u>RIO ARIZONA</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>12/22/97</u>		Date Completed: <u>9/11/98</u>
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>1,200</u>
Composted <input type="checkbox"/>		
Other <input type="checkbox"/>		
Depth To Groundwater: (pts.) <u>0</u>		<b>Final Closure Sampling:</b> Sampling Date: <u>9/9/98</u> Time: <u>1045</u> Sample Results: LF - 1 Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>208</u> Method <u>8015</u> Other <u>2ND SAMPLE</u> <u>0.0 = 0.0 ppm</u> <u>LF-2</u> <u>TPH = 114 ppm</u> <u>TIME 1135</u>
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 <u>9/11/98</u>		PRINTED NAME <u>Buddy D. Shaw</u>
SIGNATURE <u>Buddy D. Shaw</u>		AND TITLE <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.		
APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____		
SIGNED: <u>Kate C Mammill</u>		DATE: <u>10-1-98</u>

CLIENT: <u>AMOCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ516</u> C.O.C. NO: <u>6202</u>
----------------------	---	---

<b>FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION</b>	
LOCATION: NAME: <u>JICA. AP. TRIBAL</u> 35 WELL #: <u>7</u> PITS: <u>BLOW</u> QUAD/UNIT: <u>J</u> SEC: <u>2</u> TWP: <u>24N</u> RNG: <u>SW</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTP/FOOTAGE: <u>NE/4 SW/4</u> CONTRACTOR: <u>P &amp; S</u>	DATE STARTED: <u>9/9/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION: REMEDIATION SYSTEM: <u>LANDFARM</u> LAND USE: <u>RANGE</u>	APPROX. CUBIC YARDAGE: <u>1,200</u> LIFT DEPTH (ft): <u>2'</u>
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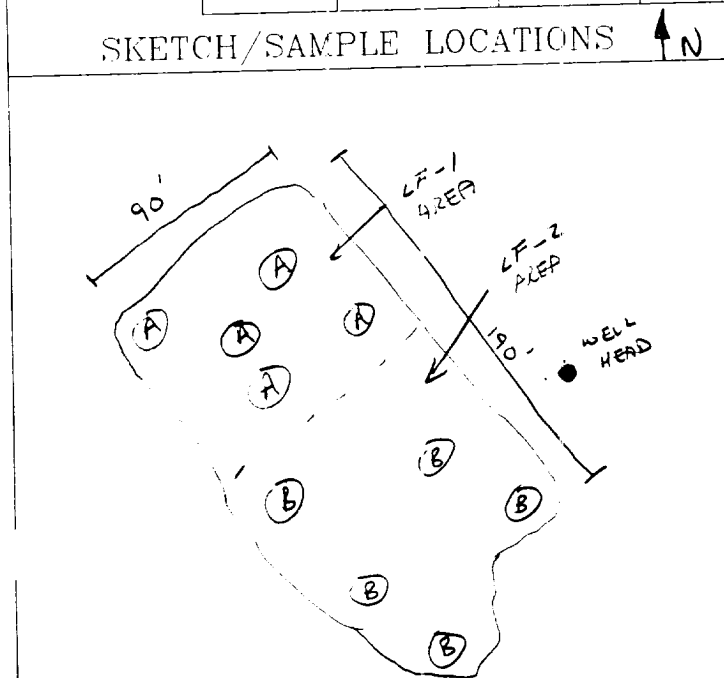
<b>FIELD NOTES &amp; REMARKS:</b>	
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u> NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM APPROX. 750 C.Y. DEPOSITED FROM TIKARILLA APACHE TRIBAL 35-2 & 420 C.Y. FROM 35-1. SOIL CONSISTED OF DR. YELL. ORANGE TO OLIVE GRAY SAND NON COHESIVE SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OBSERVED ON LANDFARM SURFACE OR IN ANY OF THE SAMPLING PTS. SAMPLING DEPTHS RANGED FROM 1'-1 1/2', COLLECTED 5 PT. COMPOSITE SAMPLES FOR LAB ANALYSIS.	12/22/98

**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	0.0	LF-1	TPH (8015)	1045	208
LF-2	0.0	LF-2	TPH (8015)	1135	114

SCALE



TRAVEL NOTES:

CALLOUT:

ONSITE:

9/9/98 - MORN.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

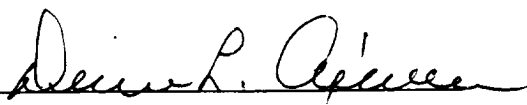
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	09-11-98
Laboratory Number:	D919	Date Sampled:	09-09-98
Chain of Custody No:	6202	Date Received:	09-09-98
Sample Matrix:	Soil	Date Extracted:	09-10-98
Preservative:	Cool	Date Analyzed:	09-11-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

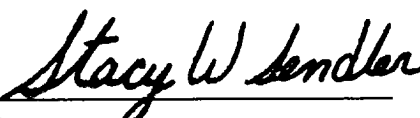
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	29.1	0.2
Diesel Range (C10 - C28)	179	0.1
Total Petroleum Hydrocarbons	208	0.2

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 35 - 7 Landfarm. 5 Pt. Compostie.

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: Blagg / AMOCO  
Sample ID: LF - 2  
Laboratory Number: D920  
Chain of Custody No: 6202  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

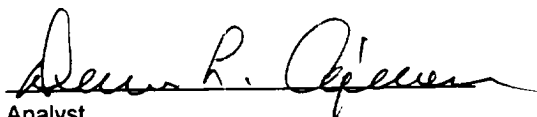
Project #: 04034-10  
Date Reported: 09-11-98  
Date Sampled: 09-09-98  
Date Received: 09-09-98  
Date Extracted: 09-10-98  
Date Analyzed: 09-11-98  
Analysis Requested: 8015 TPH


Parameter	concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	24.4	0.2
Diesel Range (C10 - C28)	89.1	0.1
Total Petroleum Hydrocarbons	114	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 35 - 7 Landfarm. 5 Pt. Compostie.

  
Analyst

  
Review

6202

# ENVIROTECH INC.