

DEPUTY OIL & GAS INSPECTOR

**DULCE, NEW MEXICO 87528**

AUG 13 1999

2 pits  
c/loss

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

**SUBMIT 1 COPY TO**

NATURAL RESOURCE DEP!

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: TICAZILLA B #6E

Location: Unit or Qtr/Qtr Sec C Sec 22 T 26N R 5W County RIO ARriba

Pit Type: Separator\_\_\_\_ Dehydrator\_\_\_\_ Other PRODUCTION TRUCK

Land Type: RANGE

**Pit Location:** Pit dimensions: length 13', width 14', depth 8'  
(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 125'

Direction from reference: 60 Degrees X East of North X  
 \_\_\_\_\_ 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)

## 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)

### 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)

**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)

### Distance To SurfaceWater:

(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)

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

PROD. TANK PIT / BT 451

Date Remediation Started: \_\_\_\_\_ Date Completed: 10/6/96

Remediation Method: Excavation X Approx. cubic yards 20  
 (check all appropriate locations) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
 Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_  
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. BEDROCK BOTTOM.

Groundwater Encountered: No X 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 4'  
 Sample date 10/6/96 Sample time 1040  
 Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>93.7</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>640</u>	Total Xylenes	(ppb)	_____

Groundwater 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 BELIEF

DATE 10/6/96 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: [Signature] DATE: 10/22/96

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ451</u> C.O.C. NO: _____
----------------------	--	---

FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
------------------------------------	-------------------------------

LOCATION: NAME: <u>JICARILLA B</u> WELL #: <u>6E</u> PIT: <u>PROD</u> QUAD/UNIT: <u>C</u> SEC: <u>22</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> STNM QTR/FOOTAGE: <u>NE 1/4 NW 1/4</u> CONTRACTOR: <u>P &amp; S</u>	DATE STARTED: <u>10/6/96</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
---	---

EXCAVATION APPROX. <u>13</u> FT. x <u>14</u> FT. x <u>8</u> FT. DEEP.	CUBIC YARDAGE: <u>20</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>	
LAND USE: <u>RANGE</u> LEASE: <u>JICA. CONTR. #109</u> FORMATION: <u>DK</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>125</u> FT. <u>NGOE</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
------------------------	---

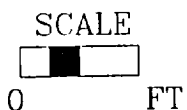
SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS: COLORS RANGING FROM PALE YELL. BROWN TO LT. GRAY CLAY, PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF. HC ODOR IN NORTH SIDEWALL OVM SAMPLE ONLY, NO APPARENT DISTINCTION BETWEEN DISCOLORATION & HC ODOR

BOTTOM - BEDROCK, SOFT TO HARD, SHALE, MED. BUISSH GRAY IN COLOR, SLIGHT HC ODOR IN OVM SAMPLE.

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

CLOSED



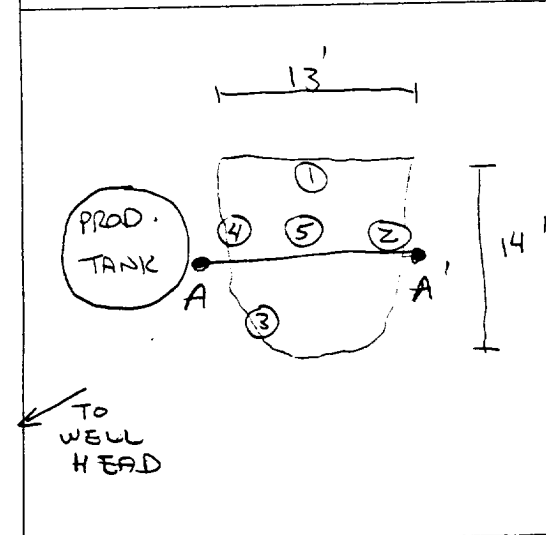
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1040	① @ 4'	TPH-1837	5	20	1:1	160	640

PIT PERIMETER

OVM RESULTS

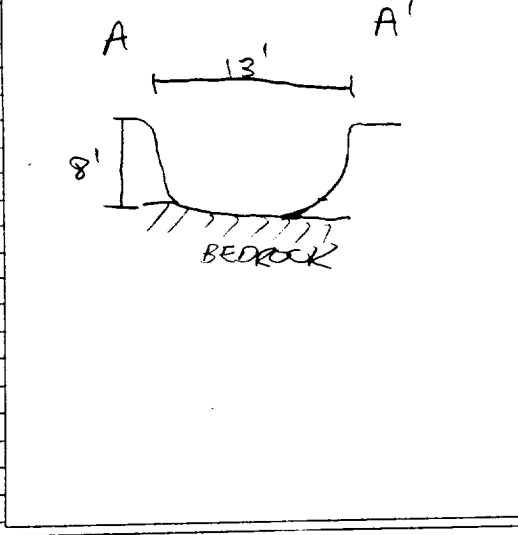
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	93.7
2 @ 4'	0.0
3 @ 3'	0.0
4 @ 4'	1.7
5 @ 8'	24.0

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES:	CALLOUT: <u>10/11/96 AFTER.</u>	ONSITE: <u>10/6/96 MORN.</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  
Sample ID: 1 @ 4'  
Project Location: Jicarilla B # 6E  
Laboratory Number: TPH-1837

Project #:   
Date Analyzed: 10-06-96  
Date Reported: 10-06-96  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	640	20


ND = Not Detectable at stated detection limits.

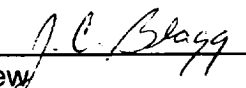
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4640	4400	5.31

\*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: Production Tank Pit - BJ451

  
Analyst

  
Review

BT 451

**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

**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 B #6E  
**Location:** Unit or Qtr/Qtr Sec C Sec 22 T 26N R 5W County RIO ARriba  
**Pit Type:** Separator ☒ Dehydrator ☐ Other ☐  
**Land Type:** RANGE

**Pit Location:** Pit dimensions: length 22', width 42', depth 18'  
(Attach diagram) Reference: wellhead ☒ other ☐  
Footage from reference: 77'  
Direction from reference: 75 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

SEP. PIT / BJ 451

Date Remediation Started: \_\_\_\_\_ Date Completed: 10/7/96

Remediation Method: Excavation ☒ Approx. cubic yards 500  
Check all appropriate (options) 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 13'

Sample date 10/6/96 Sample time 0945

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.218</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>213.1</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>156</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes \_\_\_\_\_ No ☒ (If yes, attach sample results)



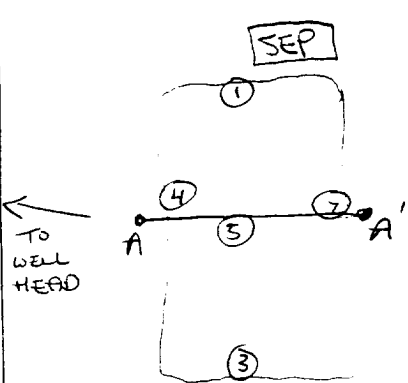
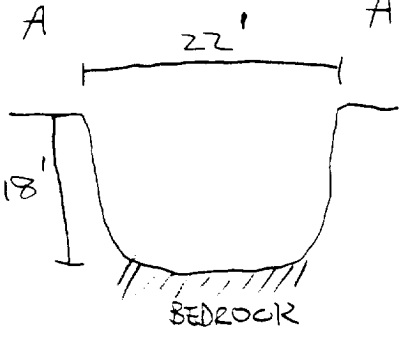
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10/7/96 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: Gabriel Juarez DATE: 10/22/96

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ451</u> C.O.C. NO: _____																																
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>JICARILLA B</u> WELL #: <u>6E</u> PIT: <u>SEP</u>		DATE STARTED: <u>10/6/96</u> DATE FINISHED: _____																																
QUAD/UNIT: <u>C</u> SEC: <u>22</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>NE/4 NW/4</u> CONTRACTOR: <u>P+S</u>																																		
EXCAVATION APPROX. <u>22</u> FT. x <u>42</u> FT. x <u>18</u> FT. DEEP. CUBIC YARDAGE: <u>500</u>																																		
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>																																		
LAND USE: <u>RANGE</u> LEASE: <u>JICA. CONTR. #109</u> FORMATION: <u>DK</u>																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>77</u> FT. <u>S75E</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																																
SIDEWALLS: DR YELL. BROWN SILTY CLAY COHESIVE SLIGHTLY MOIST, FIRM TO STIFF NO APPARENT HC ODOR IN JUM SAMPLES, SMALL PATCHES OF DISCOLORATION W/ APPARENT HC ODOR OBSERVED IN NORTH & WEST SIDEWALLS.  BOTTOM - BEDROCK, SOFT TO HARD, OLIVE GRAY IN COLOR, NO APPARENT HC ODOR IN JUM SAMPLE.																																		
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>0945</td> <td>① @ 13'</td> <td>TPH-1836</td> <td>5</td> <td>20</td> <td>1:1</td> <td>39</td> <td>156</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>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	0945	① @ 13'	TPH-1836	5	20	1:1	39	156																
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																											
0945	① @ 13'	TPH-1836	5	20	1:1	39	156																											
SCALE  0 FT	PIT PERIMETER  N	OVM RESULTS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE FID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 13'</td><td>213.1</td></tr> <tr><td>2 @ 13'</td><td>0.0</td></tr> <tr><td>3 @ 12'</td><td>0.0</td></tr> <tr><td>4 @ 12'</td><td>0.0</td></tr> <tr><td>5 @ 18'</td><td>0.0</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> <tr><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE FID (ppm)	1 @ 13'	213.1	2 @ 13'	0.0	3 @ 12'	0.0	4 @ 12'	0.0	5 @ 18'	0.0																				
SAMPLE ID	FIELD HEADSPACE FID (ppm)																																	
1 @ 13'	213.1																																	
2 @ 13'	0.0																																	
3 @ 12'	0.0																																	
4 @ 12'	0.0																																	
5 @ 18'	0.0																																	
		PIT PROFILE 																																
LAB SAMPLES <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>① @ 13'</td> <td>BTEX</td> <td>0945</td> </tr> <tr> <td colspan="3" style="text-align: center;"><b>PASSED</b></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMPLE ID	ANALYSIS	TIME	① @ 13'	BTEX	0945	<b>PASSED</b>																									
SAMPLE ID	ANALYSIS	TIME																																
① @ 13'	BTEX	0945																																
<b>PASSED</b>																																		
TRAVEL NOTES: CALLOUT: <u>10/1/96 AFTER</u> ONSITE: <u>10/6/96 MORN.</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  
Sample ID: 1 @ 13'  
Project Location: Jicarilla B # 6E  
Laboratory Number: TPH-1836

Project #:   
Date Analyzed: 10-06-96  
Date Reported: 10-06-96  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	160	20


ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4640	4400	5.31

\*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: Separator Pit - BJ451

  
Analyst

  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	04034
Sample ID:	1 @ 13'	Date Reported:	10-07-96
Laboratory Number:	A642	Date Sampled:	10-06-96
Chain of Custody:	4915	Date Received:	10-07-96
Sample Matrix:	Soil	Date Analyzed:	10-07-96
Preservative:	Cool	Date Extracted:	10-07-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	31.4	8.4
Ethylbenzene	8.3	7.6
p,m-Xylene	108	10.8
o-Xylene	70.0	5.2
Total BTEX	218	

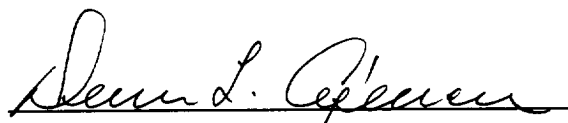
ND - Parameter not detected at the stated detection limit.

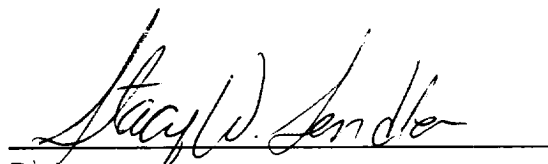
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	99 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Jicarilla B #6E Separator Pit.

  
Analyst

  
Review

San Juan repro Form 570-81

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

BJ 451

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 B #6E</u>		
<b>Location:</b> Unit or Qtr/Qtr Sec <u>C</u> Sec <u>22</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARIZONA</u>		
<b>Land Type:</b> <u>RANGE</u>		
<b>Date Remediation Started:</b> <u>10/6/96</u>		<b>Date Completed:</b> <u>5/1/98</u>
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> Composted <input type="checkbox"/> Other <input type="checkbox"/>		<b>Approx. cubic yards</b> <u>520</u>
<b>Depth To Groundwater:</b> (pts.) <u>0</u>		<b>Final Closure Sampling:</b> Sampling Date: <u>4/29/98</u> Time: <u>1015</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>40.8</u> Method <u>8015</u> Other <input type="checkbox"/>
<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>		
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF		
<b>DATE</b> <u>5/1/98</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 <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) <u>use as Backfill</u>		
<b>SIGNED:</b> <u>Kee C Mamm</u>		<b>DATE:</b> <u>5-7-98</u>

CLIENT: AMOCOBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: BJ451C.O.C. NO: 5759

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARIMA B WELL #: 6E PITS: PROD. SEP.  
QUAD/UNIT: C SEC: 22 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM  
QTR/FOOTAGE: NE 1/4 NW 1/4 CONTRACTOR: P+SDATE STARTED: 4/29/98  
DATE FINISHED: 5/1/98ENVIRONMENTAL  
SPECIALIST: NV

## SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 520LAND USE: RANGELIFT DEPTH (ft): 1'-3'

## FIELD NOTES &amp; REMARKS:

DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'  
NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

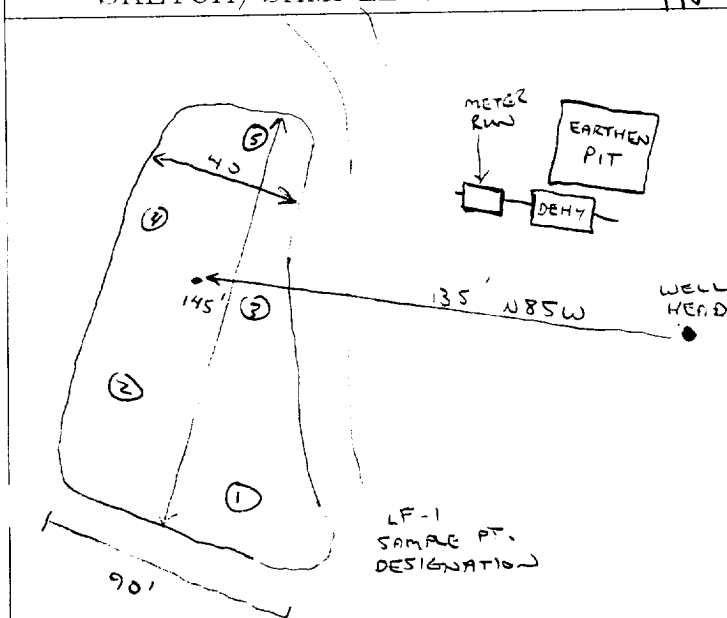
MOSTLY GRAYISH BROWN TO LT. GRAY SILTY SAND TO SILTY CLAY, SLIGHTLY COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOR OBSERVED IN ANY OF THE SAMPLE PTS., NO APPARENT STAINING ON LANDFARM SURFACE, SAMPLING DEPTH RANGE FROM 6" TO 2', COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS.

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	0.0	LF-1	TPH (8015)	1015	40.8

## SCALE

0 1 FT

## TRAVEL NOTES:

CALLOUT: NAONSITE: 4/29/98

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

Client: Blagg / AMOCO  
Sample ID: LF - 1  
Laboratory Number: D200  
Chain of Custody No: 5759  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 04034-10  
Date Reported: 05-01-98  
Date Sampled: 04-29-98  
Date Received: 04-29-98  
Date Extracted: 04-30-98  
Date Analyzed: 05-01-98  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	18.0	0.2
Diesel Range (C10 - C28)	22.8	0.1
Total Petroleum Hydrocarbons	40.8	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 B #6E Landfarm 5 Pt. Composite.

  
Analyst

  
Review

[illegible]