

OK 85421

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**

**RECEIVED**  
AUG 09 1999  
OIL CON. DIV.

**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 #26

**Location:** Unit or Qtr/Qtr Sec F Sec 10 T 26N R 4W County Alto ARRIBA

**Pit Type:** Separator      Dehydrator      Other Blow

**Land Type:** RANGE

**Pit Location:** Pit dimensions: length 20', width 20', depth 10'  
(Attach diagram)

Reference: wellhead X, other     

Footage from reference: 160

Direction from reference: 75 Degrees X East of North       
     West of South X

<b>Depth To Groundwater:</b> (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>
<b>Distance to an Ephemeral Stream</b> (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
<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 (20 points) No (0 points)	<u>0</u>
<b>Distance To SurfaceWater:</b> (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: 8-26-96

Remediation Method: Excavation X Approx. cubic yards 150  
Check all appropriate sections) 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

Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

## Final Pit:

## Closure Sampling:

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

Sample location see Attached DocumentsSample depth 11'Sample date 8-26-96 Sample time \_\_\_\_\_

## Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>1</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>22</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 8-26-96 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 X NO \_\_\_\_\_ (REASON) \_\_\_\_\_

SIGNED: Kenn C. Marshall DATE: 8-26-96

Results to Bob Melor 8.26-96

CLIENT: <u>Amoco</u>	RETURNS TO <u>Bob Miller 8-26-76</u> BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J421</u> C.D.C. NO: _____
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## FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: JICARILLA NACHE 102 #26	PIT TYPE: RLOW	DATE STARTED: 8-26-96
QUAD/UNIT: F SEC: 10 TWP: 26 N RNG: 4 W BM: NM CNTY: RA ST: NM		DATE FINISHED: _____
QTR/FOOTAGE: SE/NW	CONTRACTOR: PAUL	ENVIRONMENTAL SPECIALIST: PEO

EXCAVATION APPROX. 20 FT. x 20 FT. x 10 FT. DEEP. CUBIC YARDS: 150  
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM  
LAND USE: RANGE LEASE: # 102 FORMATION: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FEET S75°E FROM WELLHEAD.  
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'  
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

SOILS CONSIST OF MOIST, BROWN, CLAYEY, SANDY-SILT - NO STAIN - NO ODOR.

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
CB@11'	1799	10.0	20.0	1	11	22

closed

SCALE

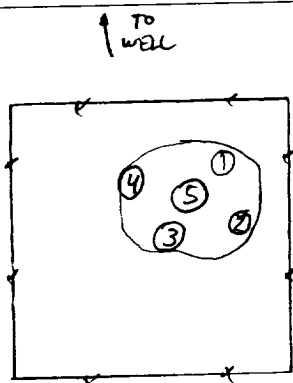


0 10 20 FT

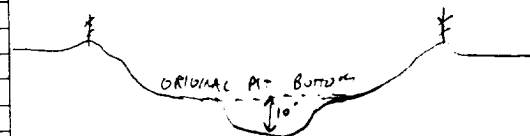
PIT PERIMETER

## OVM RESULTS

# PIT PROFILE



SURFACE  
GRADIENT

[illegible]

TRAVEL NOTES: CALLOUT: 8-23-96 ONSITE: 8-26-96 1330 FORM REVISED 7/95

**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:	Center Bottom @ 11'	Date Analyzed:	8-26-96
Project Location:	Jicarilla Apache 102 # 26	Date Reported:	8-27-96
Laboratory Number:	TPH #1799	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	<b>22</b>	<b>10</b>

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	1,420	1,344	5

\*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 - BJ421

R. E. O'Neil  
Analyst

William V. Ly 11/4/96  
Review

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

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Max Characters:

Client:

Sample ID:

Project Location:

Laboratory Number:

Amoco

Center Bottom @ 11'

Jicarilla Apache 102 # 26

TPH #1799

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

8-26-96

8-27-96

Soil

Sample Weight: 10.00 grams  
Volume Freon: 20.00 mL  
Dilution Factor: 1 (unitless)  
TPH Reading: 11 mg/kg

TPH Result: 22.0 mg/kg  
Reported TPH Result: 22.0 mg/kg  
Actual Detection Limit: 10.0 mg/kg  
Reported Detection Limit: 10 mg/kg

QA/QC:

Original  
TPH mg/kg

-----  
1420

Duplicate  
TPH mg/kg

-----  
1344

%  
Diff.

-----  
5

Comments: \*\*\*\*\*Max Characters\*\*\*\*\*

Comments: Blow Pit - BJ421

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DULCE, NEW MEXICO 87528

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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 #102-26  
Location: Unit or Qtr/Qtr Sec F Sec 10 T 26N R 4W County RIO ARriba  
Land Type: RANGE

Date Remediation Started: 8/26/98 Date Completed: 7/15/98  
Remediation Method: Landfarmed X Approx. cubic yards 150  
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: 7/14/98 Time: 1100  
Sample Results:  
Field Headspace (ppm) 0.0  
TPH (ppm) 2.4 Method 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 7/15/98 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 X NO        (REASON) use as Back fill

SIGNED: Ken C M DATE: 7-27-98

CLIENT: AMOCOBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: BT421C.D.C. NO: 6099

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: TICA APACHE 102 WELL #: 26 PITS: Blow  
QUAD/UNIT: F SEC: 10 TWP: 26N RNG: 4W PM: NM CNTY: RA ST: NM  
QTR/FOOTAGE: SE 1/4 NW 1/4 CONTRACTOR: P+SDATE STARTED: 7/14/98

DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: NV

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 150LAND USE: RANGELIFT DEPTH (ft.): 1'

## FIELD NOTES &amp; REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

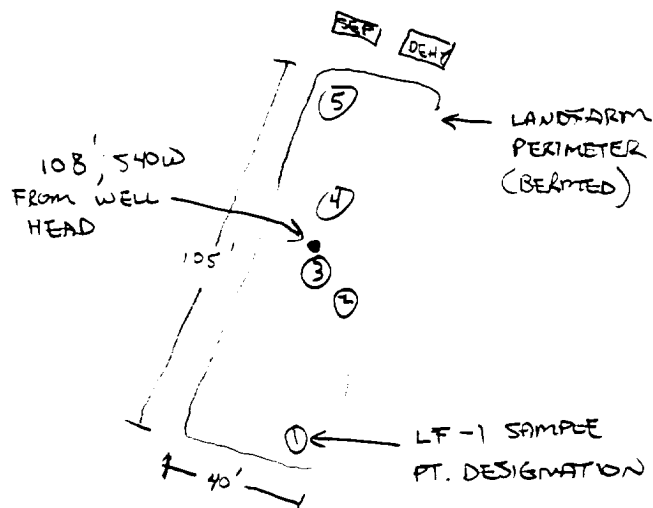
SOIL CONSISTED OF MOSTLY PALE YELL. BROWN SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 4" TO 1', NO APPARENT DISCOLORATION OR HC ODOR OBSERVED @ ANY OF THE SAMPLING PTS. DR LANDFARM AREA, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

## FIELD 418.1 CALCULATIONS

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

## SKETCH/SAMPLE LOCATIONS N ↗



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PIC (ppm)
LF-1	0.0

## LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015)	1100	2.4

## SCALE

0 1 FT

## TRAVEL NOTES:

CALLOUT: NAONSITE: 7/14/98

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

Client: Blagg / AMOCO  
Sample ID: LF - 1  
Laboratory Number: D617  
Chain of Custody No: 6099  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 04034-10  
Date Reported: 07-15-98  
Date Sampled: 07-14-98  
Date Received: 07-14-98  
Date Extracted: 07-14-98  
Date Analyzed: 07-14-98  
Analysis Requested: 8015 TPH

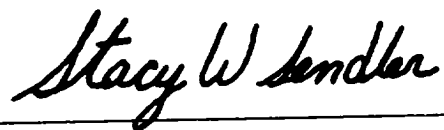
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.4	0.1
Total Petroleum Hydrocarbons	2.4	0.2

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 - 26 Landfarm. 5 Pt. Composite.

  
Analyst

  
Review



## 6099

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