

Denny L. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 13 1999

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

85431
3 pits
2 closed
SUBMIT 1 COPY TO:
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

Approved
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 C # 2E
Location: Unit or Qtr/Qtr Sec I Sec 14 T 26N R 5W County RIO ARIZONA
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 30', width 25', depth 24'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 230
Direction from reference: 15 Degrees East of North X
X West of 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

Date Remediation Started: _____ Date Completed: 9-10-96

Remediation Method: Excavation X Approx. cubic yards ~ 700
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: Sample location see Attached Documents

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

Sample depth 18'

Sample date 9-10-96 Sample time _____

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>17.19</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>459</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>1480</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 9-12-96 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) spare + close

SIGNED: K. S. M... DATE: 9-17-96

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ431</u> C.O.C. NO: <u>4903</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: JICARILLA C #2E	PIT TYPE: Blow	DATE STARTED: 9-10-96
QUAD/UNIT: I SEC: 14 TWP: 26N RNG: SW BM: NM CNTY: RA ST: NM		DATE FINISHED: _____
QTR/FOOTAGE: 1800' FSL. 890' FEL	CONTRACTOR: PAUL	ENVIRONMENTAL SPECIALIST: RFB

EXCAVATION APPROX. 30 FT. x 25 FT. x 24 FT. DEEP. CUBIC YARDS: ~ 700
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFILL
LAND USE: RANGE LEASE: H10P FORMATION: M U / DAKOTA

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>230</u> FEET <u>NIS°W</u> FROM WELLHEAD		
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>	
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM		

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

SOIL CONSISTS OF MOIST, BROWN SILTY SAND - LIGHT ODOOR IN NORTH SIDEWALL.

FIELD 418.1 CALCULATIONS

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

CLOSED

SCALE

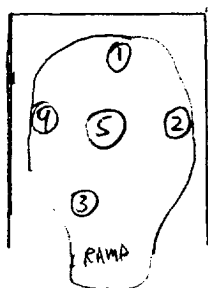


0 10 20 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE



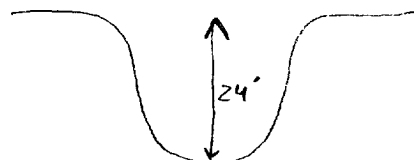
21

	SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	NS-18'	459
2	ES-15'	10
3	SS-18'	2
4	WS-18'	2
5	CB-25'	3

LAB	SAMPLES
-----	---------

NSC 18	BTEX / 8015	PASSED
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PASSED



↓ TO WELL

↓
SURFACE GRADIENT

TRAVEL NOTES: CALLOUT: 9-9-96 ONSITE: 9-10-96 0930

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Amoco / Blagg	Project #:	04034
Sample ID:	N. Side @ 18'	Date Reported:	09-11-96
Laboratory Number:	A545	Date Sampled:	09-10-96
Chain of Custody No:	4903	Date Received:	09-11-96
Sample Matrix:	Soil	Date Extracted:	09-11-96
Preservative:	Cool	Date Analyzed:	09-11-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

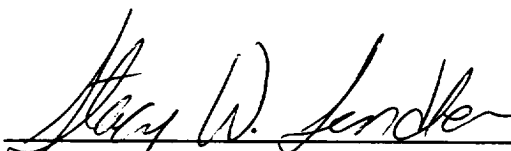
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,080	0.2
Diesel Range (C10 - C28)	403	0.1
Total Petroleum Hydrocarbons	1,480	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla C #2E. Blow Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco / Blagg	Project #:	04034
Sample ID:	N. Side @ 18'	Date Reported:	09-11-96
Laboratory Number:	A545	Date Sampled:	09-10-96
Chain of Custody:	4903	Date Received:	09-11-96
Sample Matrix:	Soil	Date Analyzed:	09-11-96
Preservative:	Cool	Date Extracted:	09-11-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	11.6
Toluene	632	11.1
Ethylbenzene	2,300	10.1
p,m-Xylene	10,380	14.4
o-Xylene	3,880	6.9
Total BTEX	17,190	

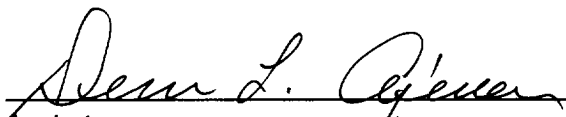
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	101 %

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 C #2E. Blow Pit.


Analyst


Review

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

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: JICARILLA C #2 E

Location: Unit or Qtr/Qtr Sec I Sec 14 T 26N R 5W County RIO ARriba

Pit Type: Separator Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location: Pit dimensions: length 15', width 15', depth 10'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 125'

Direction from reference: 38 Degrees East of North X
X West South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 points)	<u> </u>
	50 feet to 99 feet (10 points)	<u> </u>
	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> </u>
	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)	<u> </u>
	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)	<u> </u>
	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)	<u> </u>
	100 feet to 1000 feet (10 points)	<u>0</u>
	Greater than 1000 feet (0 points)	<u> </u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/11/96

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: ExcavationGroundwater 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 7'
Sample date 9/10/96 Sample time 0915

Sample Results

Soil: Benzene	(ppm)	<u>0.0175</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>63.770</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>407</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>691</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 9/11/96 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) conditional closure till P & A

SIGNED: Kees C Munn of well
DATE: 9-17-96

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85431</u> C.O.C. NO: <u>4903</u>
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LOCATION: <u>JICARILLA C #2E</u>	PIT TYPE: <u>PROD. TANK</u>	DATE STARTED: <u>9-10-96</u>
QUAD/UNIT: <u>I SEC: 14 TWP: 26N RNG: 5W BM: NM CNTY: RA ST: NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>1800' FSL. 890' FEL.</u>	CONTRACTOR: <u>PAUL</u>	ENVIRONMENTAL SPECIALIST: <u>REG</u>

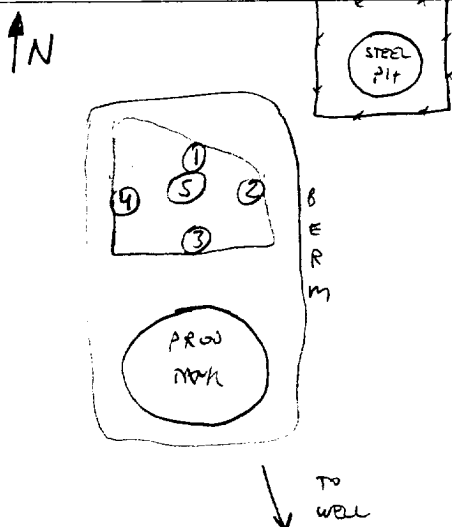
SOIL CONSISTS OF MOIST, BROWN, SILTY SAND - LIGHT COAR IN SOUTH SIDEWALL.
SOME CLAY IN SOUTH SIDEWALL

RISK ASSESSED - NMOC

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

OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS - 7'	22
2 ES - 7'	6
3 SS - 7'	407
4 WS - 6'	23
5 CB - 12'	275
LAB SAMPLES	
SS @ 7'	BTEX / SOIS



TRAVEL NOTES: CALLOUT: 9-9-96 ONSITE: 9-10-96 0845

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla C #2E

Unit I, Sec. 14, T26N, R5W

Production Tank Pit

Basin Dakota/Blanco Mesaverde

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit (10 ft. below grade) and for safety concerns (underground piping and surface equipment).

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

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
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 0.46 miles north northwest 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 and vertical impact from the earthen pit is very limited and that the impact to groundwater is very unlikely. Therefore, AMOCO requests pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

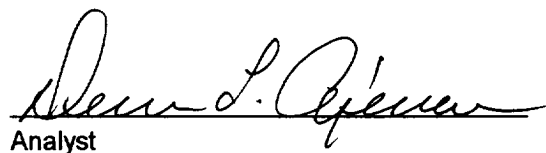
Client:	Amoco / Blagg	Project #:	04034
Sample ID:	S. Side @ 7'	Date Reported:	09-11-96
Laboratory Number:	A544	Date Sampled:	09-10-96
Chain of Custody No:	4903	Date Received:	09-11-96
Sample Matrix:	Soil	Date Extracted:	09-11-96
Preservative:	Cool	Date Analyzed:	09-11-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

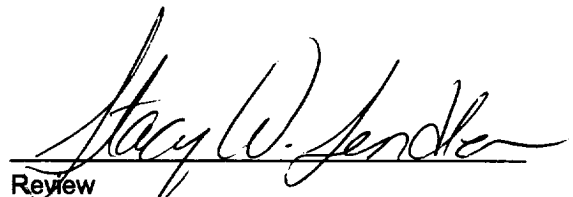
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	472	0.2
Diesel Range (C10 - C28)	219	0.1
Total Petroleum Hydrocarbons	691	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla C #2E. Prod. Tank Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco / Blagg	Project #:	04034
Sample ID:	S. Side @ 7'	Date Reported:	09-11-96
Laboratory Number:	A544	Date Sampled:	09-10-96
Chain of Custody:	4903	Date Received:	09-11-96
Sample Matrix:	Soil	Date Analyzed:	09-11-96
Preservative:	Cool	Date Extracted:	09-11-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	17.5	11.6
Toluene	2,300	11.1
Ethylbenzene	2,450	10.1
p,m-Xylene	33,900	14.3
o-Xylene	25,100	6.9
Total BTEX	63,770	

ND - Parameter not detected at the stated detection limit.

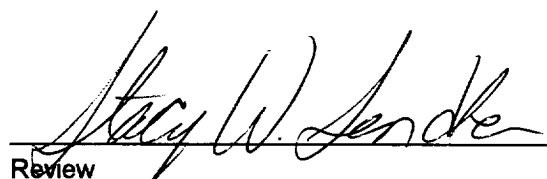
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	101 %

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 C #2E. Prod. Tank Pit.


Analyst


Review

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

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

85431
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 C * 2E

Location: Unit or Qtr/Qtr Sec I Sec 14 T 26N R 5W County RIO ARriba

Pit Type: Separator X Dehydrator Other

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 20', width 15', depth 16'

Reference: wellhead X, other

Footage from reference: 90

Direction from reference: 0 Degrees 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)	<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

Date Remediation Started: _____ Date Completed: 9-10-96

Remediation Method: Excavation X Approx. cubic yards 175
 (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: Sample location see Attached Documents
 Closure Sampling: _____
 (if multiple samples, attach sample results and diagram of sample locations and depths)
 Sample depth 16'
 Sample date 9-10-96 Sample time _____
 Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>2</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 9-11-96 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: [Signature] DATE: 9-17-96

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 @ 16'	Date Analyzed:	9-10-96
Project Location:	Jicarilla C #2E	Date Reported:	9-11-96
Laboratory Number:	TPH #1816	Sample Matrix:	Soil

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

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: Separator Pit - BJ431

R. E. O'Neil
Analyst

Adrian Velazquez
Review

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

87431

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 C # 2E

Location: Unit or Qtr/Qtr Sec I Sec 14 T 26N R 5W County RIO ARriba

Land Type: RANGE

Date Remediation Started: 9/10/96 **Date Completed:** 5/7/98

Remediation Method: Landfarmed X Approx. cubic yards 600

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

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 5/6/98 **Time:** 1245

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 46.4 **Method** 8015

Other

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

DATE 5/7/98 **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 NO (REASON)

SIGNED: **DATE:**

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8T431</u> C.D.C. NO: <u>5775</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA</u> C WELL #: <u>ZE</u> PITS: _____ QUAD/UNIT: <u>I</u> SEC: <u>14</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NE/4 SE/4</u> CONTRACTOR: <u>P & S</u>	DATE STARTED: <u>5/6/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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SOIL REMEDIATION:

REMEDIATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>600</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>2'-3'</u>

FIELD NOTES & REMARKS:

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

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

SOIL CONSIST OF MOSTLY MOD. TO OK. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST FIRM, NO APPARENT DISCOLORATION OR HC ODOR OBSERVED IN ANY OF THE SAMPLE PTS. SAMPLING DEPTHS RANGE FROM 6" TO 1 1/2', COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS.

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)	1245	46.4

SCALE

0
FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 5/6/98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

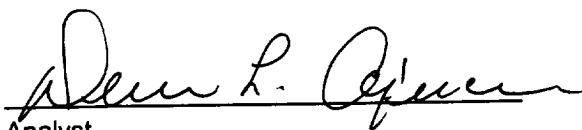
Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	05-07-98
Laboratory Number:	D234	Date Sampled:	05-06-98
Chain of Custody No:	5775	Date Received:	05-06-98
Sample Matrix:	Soil	Date Extracted:	05-07-98
Preservative:	Cool	Date Analyzed:	05-07-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

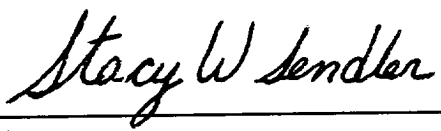
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	46.4	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	46.4	0.2

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 C #2E Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name <i>BUSE / Amoco</i>			Project Location <i>LANDFARM</i>			ANALYSIS/PARAMETERS					
Sampler: (Signature) <i>John VJ</i>			Chain of Custody Tape No. <i>04034-10</i>								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks <i>RESERV. - COOL</i>					
<i>LF-1</i>	<i>5/6/98</i>	<i>1245</i>	<i>D234</i>	<i>SOIL</i>	<i>1</i>						
						<i>5 PT. COMPOSITE</i>					
Relinquished by: (Signature) <i>John VJ</i>			Date <i>5/6/98</i>	Time <i>1426</i>	Received by: (Signature) <i>John L. Ogleman</i>	Date <i>5.6.98</i>	Time <i>1426</i>				
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

RF 0000 5771 → 5772

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