

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

RECEIVED
AUG 16 1999

PIT REMEDIATION AND CLOSURE REPORT OIL CON. DIV
DIST. 3

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
 Address: 200 Amoco Court, Farmington, NM 87401
 Facility or Well Name: JICARILLA C #1E
 Location: Unit or Qtr/Qtr Sec 6 Sec 23 T 26N R 5W County RIO ARriba
 Pit Type: Separator Dehydrator Other
 Land Type: RANGE

Pit Location: Pit dimensions: length 20', width 20', depth 16'
 (Attach diagram) Reference: wellhead , other
 Footage from reference: 85'
 Direction from reference: 0 Degrees East 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)	<u>0</u>
	Greater than 1000 feet	(0 points)	
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started: _____ Date Completed: 9/3/96

Remediation Method: Excavation Approx. cubic yards _____
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 . RISK ASSESSED . 915 8/12/99

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 12'
Sample date 8/29/96 Sample time 1315

Sample Results

Soil: Benzene	(ppm)	<u>4.230</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>45.070</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>243</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>7,440</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 KNOWLEGE AND BELIEF

DATE 9/3/96 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) speny + close till P+A

SIGNED: [Signature] DATE: 9-3-96

Well Name:	Jicarilla C #1E
Well Site location:	Unit G, Sec. 23, T26N, R5W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit (16 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 0.06 miles north of the nearest vulnerable area boundary (Tapacito Creek).
5. Vertical extent at the pit area was cleaned up to below the NMOCD standards (disclosed within their surface impoundment guidelines).

(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 vertical and lateral contamination is limited and impact to groundwater is very unlikely. 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

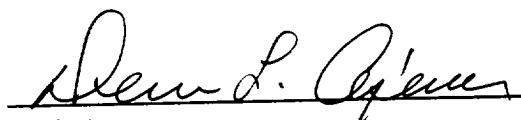
Client:	Amoco / Blagg	Project #:	04034
Sample ID:	W.S. @ 12'	Date Reported:	08-30-96
Laboratory Number:	A517	Date Sampled:	08-29-96
Chain of Custody No:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Extracted:	08-30-96
Preservative:	Cool	Date Analyzed:	08-30-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6,420	0.2
Diesel Range (C10 - C28)	1,020	0.1
Total Petroleum Hydrocarbons	7,440	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 #1E Sep. Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco / Blagg	Project #:	04034
Sample ID:	W.S. @ 12'	Date Reported:	08-30-96
Laboratory Number:	A517	Date Sampled:	08-29-96
Chain of Custody:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Analyzed:	08-30-96
Preservative:	Cool	Date Extracted:	08-30-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	4,230	17.5
Toluene	18,290	16.7
Ethylbenzene	13,790	15.2
p,m-Xylene	4,950	21.6
o-Xylene	3,810	10.4
Total BTEX	45,070	

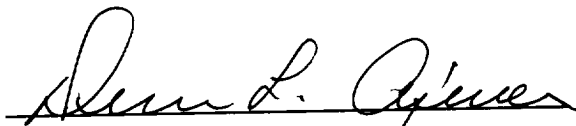
ND - Parameter not detected at the stated detection limit.

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 #1E Sep. Pit.


Analyst


Review

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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 #1E

Location: Unit or Qtr/Qtr Sec G Sec 23 T26N R5W County RIO ARriba

Pit Type: Separator Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location: Pit dimensions: length 20', width 15', depth 13'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 140'
Direction from reference: 70 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) 0

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) 0

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) 0

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) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/3/96

Remediation Method: Excavation Approx. cubic yards 150
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 8'
Sample date 8/29/96 Sample time 1400

Sample Results

Soil: Benzene	(ppm)	<u>0.659</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>10.400</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>305</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>109</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 9/3/96 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: 9-3-96

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:	W.S. @ 8'	Date Reported:	08-30-96
Laboratory Number:	A515	Date Sampled:	08-29-96
Chain of Custody No:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Extracted:	08-30-96
Preservative:	Cool	Date Analyzed:	08-30-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	98.7	0.2
Diesel Range (C10 - C28)	10.0	0.1
Total Petroleum Hydrocarbons	109	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 #1E 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:	W.S. @ 8'	Date Reported:	08-30-96
Laboratory Number:	A515	Date Sampled:	08-29-96
Chain of Custody:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Analyzed:	08-30-96
Preservative:	Cool	Date Extracted:	08-30-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	659	17.5
Toluene	1,330	16.7
Ethylbenzene	1,170	15.2
p,m-Xylene	5,790	21.6
o-Xylene	1,450	10.4
Total BTEX	10,400	

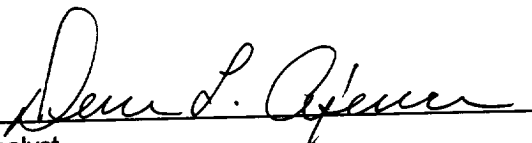
ND - Parameter not detected at the stated detection limit.

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

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 #1E Prod. Tank Pit.


Analyst


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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 # 1E
 Location: Unit or Qtr/Qtr Sec G Sec 23 T26N R5W County RIO ARriba
 Pit Type: Separator Dehydrator Other BLOW
 Land Type: RANGE

Pit Location: Pit dimensions: length 20', width 20', depth 18'
 (Attach diagram) Reference: wellhead X, other _____
 Footage from reference: 120'
 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)	<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):			<u>0</u>

Date Remediation Started: _____ Date Completed: 9/3/96

Remediation Method: Excavation Approx. cubic yards 300
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 12'
Sample date 8/29/96 Sample time 1215

Sample Results

Soil: Benzene	(ppm)	<u>0.508</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>27.860</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>301</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>3,650</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 9/3/96 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: 9-3-96

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 @ 20'	Date Analyzed:	8-29-96
Project Location:	Jicarilla C #1E	Date Reported:	8-30-96
Laboratory Number:	TPH #1810	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,200	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: Blow Pit - BJ424

R. E. O'Neal
Analyst

Nicholas V. [Signature] 11/4/96
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

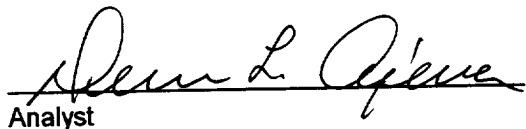
Client:	Amoco / Blagg	Project #:	04034
Sample ID:	W.S. @ 12'	Date Reported:	08-30-96
Laboratory Number:	A516	Date Sampled:	08-29-96
Chain of Custody No:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Extracted:	08-30-96
Preservative:	Cool	Date Analyzed:	08-30-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,840	0.2
Diesel Range (C10 - C28)	806	0.1
Total Petroleum Hydrocarbons	3,650	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 #1E 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:	W.S. @ 12'	Date Reported:	08-30-96
Laboratory Number:	A516	Date Sampled:	08-29-96
Chain of Custody:	4899	Date Received:	08-30-96
Sample Matrix:	Soil	Date Analyzed:	08-30-96
Preservative:	Cool	Date Extracted:	08-30-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	508	17.5
Toluene	636	16.7
Ethylbenzene	7,340	15.2
p,m-Xylene	9,740	21.6
o-Xylene	9,640	10.4
Total BTEX	27,860	


ND - Parameter not detected at the stated detection limit.

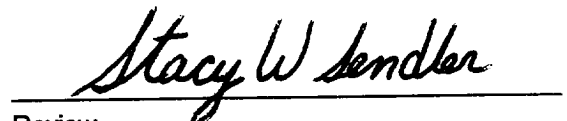
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	101 %

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 #1E Blow Pit.


Analyst


Review

BJ 426

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

SUBMIT 1 COPY TO
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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 # 1E
 Location: Unit or Qtr/Qtr Sec G Sec 23 T 26N R 5W County RIO ARRIBA
 Land Type: _____

Date Remediation Started: 8/29/96 Date Completed: 6/15/98
 Remediation Method: Landfanned X Approx. cubic yards 700
 Composted _____
 Other _____

Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>6/11/98</u> Time: <u>1045</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>7.8</u> Method <u>8015</u> Other _____
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 6/15/98 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 Backfill

SIGNED: Ken C. Man... DATE: 7-27-98

CLIENT: AMOCO **BLAGG ENGINEERING, INC.**
 P.O. BOX 87, BLOOMFIELD, NM 87413
 (505) 632-1199

LOCATION NO: 85426
 C.D.C. NO: 6019

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARILLA C WELL #: 1E PITS: SEP, BLOW, PROD.
 QUAD/UNIT: 6 SEC: 23 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM
 QTR/FOOTAGE: 1850'EUL/1650'FEL CONTRACTOR: P & S

DATE STARTED: 6/11/98
 DATE FINISHED: _____
 ENVIRONMENTAL SPECIALIST: NV

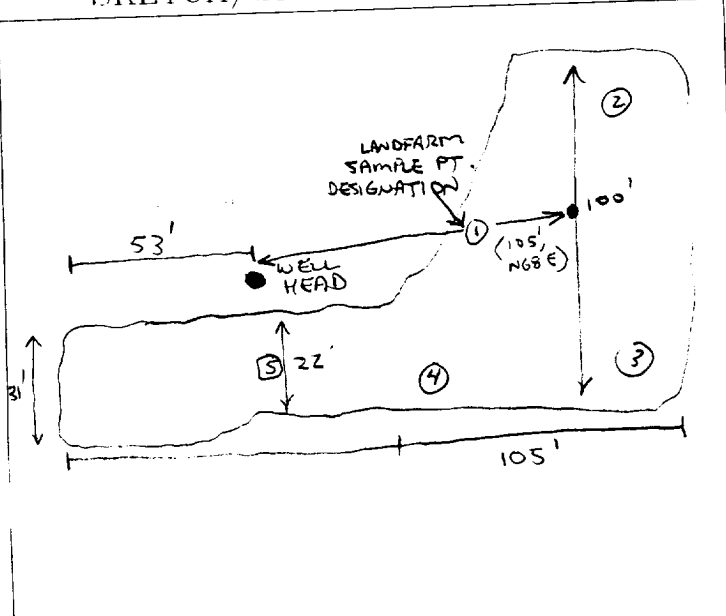
SOIL REMEDIATION:
 REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 700
 LAND USE: RANGE LIFT DEPTH (ft): 2'

FIELD NOTES & REMARKS:
 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM
 SOIL MOSTLY DK. YELL. BROWN SILTY SAND W/ SOME CLAY, NON COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO STIFF NO APPARENT DISCOLORATION OR HC ODOR OBSERVED IN ANY OF THE SAMPLE PTS. COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS, SAMPLING DEPTH RANGE FROM 6" TO 1 1/2' BELOW GRADE.

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS ↑ N

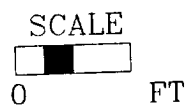


OVM RESULTS

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

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015)	1045	7.8



TRAVEL NOTES: CALLOUT: NA ONSITE: 6/11/98

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

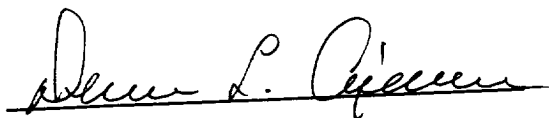
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	06-15-98
Laboratory Number:	D403	Date Sampled:	06-11-98
Chain of Custody No:	6019	Date Received:	06-12-98
Sample Matrix:	Soil	Date Extracted:	06-12-98
Preservative:	Cool	Date Analyzed:	06-12-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

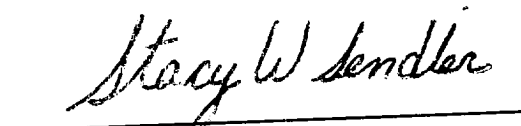
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.3	0.2
Diesel Range (C10 - C28)	4.5	0.1
Total Petroleum Hydrocarbons	7.8	0.2

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 C #1E Landfarm. 5 Pt. Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

6019

Client / Project Name <i>RAGG / Anoco</i>			Project Location <i>TEAROLA C #1E LANDFARM</i>			ANALYSIS / PARAMETERS		
Sampler: <i>NTV</i>			Client No. <i>04034-10</i>			Remarks <i>RESERV. - COOL</i>		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers			
<i>LF-1</i>	<i>6/11/98</i>	<i>1045</i>	<i>D403</i>	<i>SOIL</i>	<i>1</i>	<i>TPH (8015)</i>		
						<i>5 PT. COMPOSITE</i>		
Relinquished by: (Signature) <i>[Signature]</i>			Date <i>6/12/98</i>	Time <i>0806</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>6.12.98</i>	Time <i>0806</i>	
Relinquished by: (Signature)			Received by: (Signature)					
Relinquished by: (Signature)			Received by: (Signature)					

ENVIROTECH INC.

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

Sample Receipt		
Received Intact	<input checked="" type="checkbox"/>	
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	