

RECEIVED

JUL 13 1999

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507

DULCE, NEW MEXICO 87528

DEPUTY OIL & GAS INSPECTOR

AUG 13 1999

OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: AMOCO PRODUCTION COMPANY

Telephone: (505) 326-9200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA A #8E

Location: Unit or Qtr/Qtr Sec P Sec 17 T26N R5W County RIO ARriba

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 25', width 37', depth 5'

Reference: wellhead X, other

Footage from reference: 160'

Direction from reference: 6 Degrees East of North
X West 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)
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 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)

0

RANKING SCORE (TOTAL POINTS):

0

87461 / ELON PTT

Date Remediation Started: _____ Date Completed: 10/23/96

Remediation Method: Excavation ☒ Approx. cubic yards 125
 (check all appropriate actions) 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 3'
 Sample date 10/23/96 Sample time 0955

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>28</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 10/23/96 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: 11-5-96

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ461</u> C.D.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>JICA RILLA</u> A WELL #: <u>8E</u> PIT: <u>BLOW</u>	DATE STARTED: <u>10/23/96</u> DATE FINISHED: _____
QUAD/UNIT: <u>P</u> SEC: <u>17</u> TWP: <u>ZGN</u> RNG: <u>5W</u> PM: <u>NM CNTY RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
DTF/FOOTAGE: <u>SE/4</u> <u>SE/4</u> CONTRACTOR: <u>P+S</u>	

EXCAVATION APPROX. <u>25</u> FT. x <u>37</u> FT. x <u>5</u> FT. DEEP.	CUBIC YARDAGE: <u>125</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JICA. CONT. 110</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>160</u> FT. <u>SGW</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMCD BANKING SCORE: <u>0</u>	NMCD TPH CLOSURE STD: <u>5000</u> PPM
COIL AND EXCAVATION DESCRIPTION:	

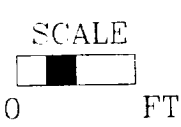
CHECK ONE:	
<input checked="" type="checkbox"/>	PIT ABANDONED
<input type="checkbox"/>	STEEL TANK INSTALLED
<input type="checkbox"/>	FIBERGLASS TANK INSTALLED

SIDEWALLS - mostly DR. YELL. BROWN SAND EXCEPT SOUTH SIDEWALL OUM SAMPLE (OLIVE GRAY CLAY TO SHALE) NON-COHESIVE SLIGHTLY MOIST FIRM TO DENSE NO APPARENT HC ODOR IN ANY OF THE OUM SAMPLES, NO APPARENT HC STAINING OR ODOR W/IN EXCAVATION.

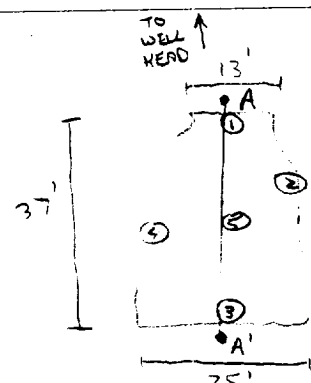
BOTTOM - BEDROCK, LT. GRAY IN COLOR, VERY HARD, SHALE, SLIGHT HC ODOR IN OUM SAMPLE.

FIELD 418.J CALCULATIONS

TIME	SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0955	① @ 3'	TPH-1849	5	20	1:1	7	28



PIT PERIMETER

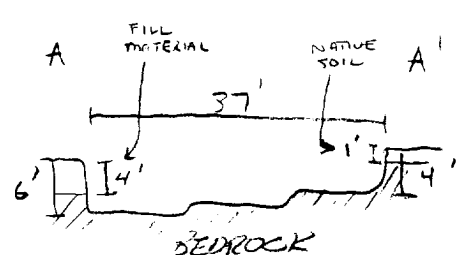


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	0.0
2 @ 3'	0.0
3 @ 2'	0.0
4 @ 2'	0.0
5 @ 5'	40.9

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES:	CALLOUT: <u>10/21/96 morn.</u>	ONSITE: <u>10/23/96</u>
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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 @ 3'
Project Location: Jicarilla A # 8 E
Laboratory Number: TPH-1849

Project #:
Date Analyzed: 10-23-96
Date Reported: 10-23-96
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	28	20

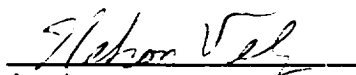
ND = Not Detectable at stated detection limits.

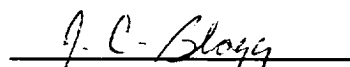
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	4640	4400	5.31

* 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: Blow Pit - BJ461


Analyst


Review

BJ461

PIT REMEDIATION AND CLOSURE REPORT

RANKING SCORE (TOTAL POINTS): 0

BJ461 / PROD. TRUNK PIT

Date Remediation Started: _____ Date Completed: 10/23/96

Remediation Method: Excavation ☒ Approx. cubic yards 20
 (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 2'
 Sample date 10/23/96 Sample time 1155

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>40</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 10/23/96 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: 11-5-96

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:	1 @ 2'	Date Analyzed:	10-23-96
Project Location:	Jicarilla A # 8 E	Date Reported:	10-23-96
Laboratory Number:	TPH-1850	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	40	20


ND = Not Detectable at stated detection limits.

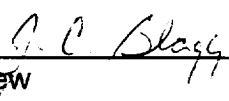
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% * Diff.
	4640	4400	5.31

* 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 - BJ461


Analyst


Review

8-JVS/

**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 A #8E
Location: Unit or Qtr/Qtr Sec P Sec 17 T 26N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 29', width 28', depth 7'
(Attach diagram)
Reference: wellhead ☒, other ☐
Footage from reference: 105'
Direction from reference: 15 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 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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

BJ461 / SEP. PIT

Date Remediation Started: _____ Date Completed: 10/24/96

Remediation Method: Excavation X Approx. cubic yards 175
 Check all appropriate (ions) 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 5'

Sample date 10/23/96 Sample time 1045

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.170</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>117.7</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>0.3</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 10/24/96 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: Ken C. Marshall DATE: 11-5-96

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT461</u> C.D.C. NO: <u>4922</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>TICARULA</u> A WELL #: <u>8E</u> PIT: <u>SEP</u>	DATE STARTED: <u>10/23/96</u> DATE FINISHED: _____
QUAD/UNIT: <u>P</u> SEC: <u>17</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>SE/4 SE/4</u> CONTRACTOR: <u>P & S</u>	

EXCAVATION APPROX <u>29</u> FT. x <u>25</u> FT. x <u>7</u> FT. DEEP.	CUBIC YARDAGE: <u>175</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>TICARULA</u> CWT. <u>110</u> FORMATION: <u>DK</u>

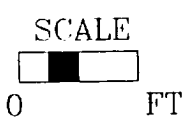
FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>105</u> FT. <u>S (S W)</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

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

SIDEWALLS - MOSTLY DR. YELL. BROWN SILTY SAND NON-COHESIVE, SLIGHTLY MOIST FIRM TO VERY STIFF, STRONG HC ODOR IN NORTH SIDEWALL OWN SAMPLE ONLY HC STRAINING APPARENT IN MAJORITY OF NORTH SIDEWALL & BOTTOM 2' OF SOUTH SIDEWALL (NOT SAMPLED).

BOTTOM - BEDROCK, DR. OLIVE GRAY IN COLOR, VERY HARD, NO APPARENT HC ODOR IN OWN SAMPLE.

BEDROCK



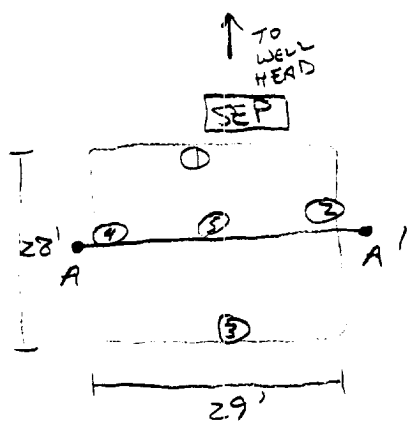
FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

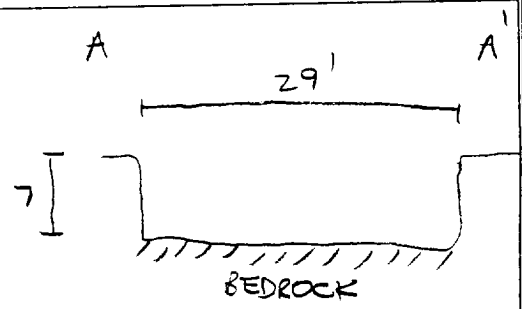
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 5'	117.7
2 @ 4'	0.0
3 @ 4'	0.0
4 @ 3'	0.0
5 @ 7'	0.0

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
025'	TPH/BTEX	1045
(BOTH PRESSED)		



TRAVEL NOTES:	CALLOUT: <u>10/21/96 morn.</u>	ONSITE: <u>10/23/96 morn.</u>
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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

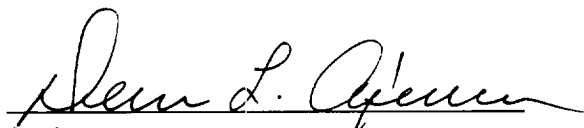
Client:	Blagg / Amoco	Project #:	04034
Sample ID:	1 @ 5'	Date Reported:	10-24-96
Laboratory Number:	A709	Date Sampled:	10-23-96
Chain of Custody No:	4922	Date Received:	10-24-96
Sample Matrix:	Soil	Date Extracted:	10-24-96
Preservative:	Cool	Date Analyzed:	10-24-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.3	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 A #8E Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	04034
Sample ID:	1 @ 5'	Date Reported:	10-24-96
Laboratory Number:	A709	Date Sampled:	10-23-96
Chain of Custody:	4922	Date Received:	10-24-96
Sample Matrix:	Soil	Date Analyzed:	10-24-96
Preservative:	Cool	Date Extracted:	10-24-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	11.6
Toluene	18.3	11.1
Ethylbenzene	16.5	10.1
p,m-Xylene	102	14.4
o-Xylene	32.8	6.9
Total BTEX	170	

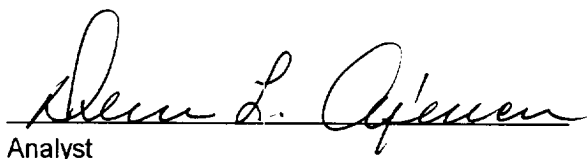
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	98 %

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 A #8E Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name <i>BREX / AMOCO</i>			Project Location <i>SEPARATOR PIT</i>			ANALYSIS/PARAMETERS					
Sampler: (Signature) <i>William Vel</i>			Chain of Custody Tape No. <i>04034</i>								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)	BTEX (8020)	Remarks <i>RESERV. - COOL</i>			
<i>DES'</i>	<i>10/23/96</i>	<i>1045</i>	<i>A709</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>	<i>✓</i>				
								<i>IF TPH < 5000 ppm, RUN BTEX</i>			
Relinquished by: (Signature) <i>William Vel</i>			Date <i>10/24/96</i>	Time <i>0726</i>	Received by: (Signature) <i>William D. Cooper</i>			Date <i>10/24/96</i>	Time <i>0726</i>		
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

BT461

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

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 A #8E</u>		
Location: Unit or Qtr/Qtr Sec <u>P</u> Sec <u>17</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARriba</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>10/23/96</u>		Date Completed: <u>4/1/99</u>
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Composted <input type="checkbox"/> Other <input type="checkbox"/>		Approx. cubic yards <u>320</u>
Distance To Groundwater: (pts.) <u>0</u>		Final Closure Sampling: Sampling Date: <u>3/30/99</u> Time: <u>1150</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>131</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 <u>4/1/99</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>Ker C Mamm</u>		DATE: <u>6-18-99</u>

CLIENT <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>87461</u> C.D.C. NO: <u>6634</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARILLA</u> <u>A</u> WELL #: <u>8E</u> PITS: <u>SEP, LOW, MOOD.</u>	DATE STARTED: <u>3/30/99</u>
QUAD/UNIT: <u>1</u> SEC: <u>17</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>29</u> ST: <u>NM</u>	DATE FINISHED: _____
GTP/FOOTAGE: <u>5614</u> <u>5614</u> CONTRACTOR: <u>1 & S</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 320
LAND USE: RANGE LIFT DEPTH (ft): 1

FIELD NOTES & REMARKS:

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

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

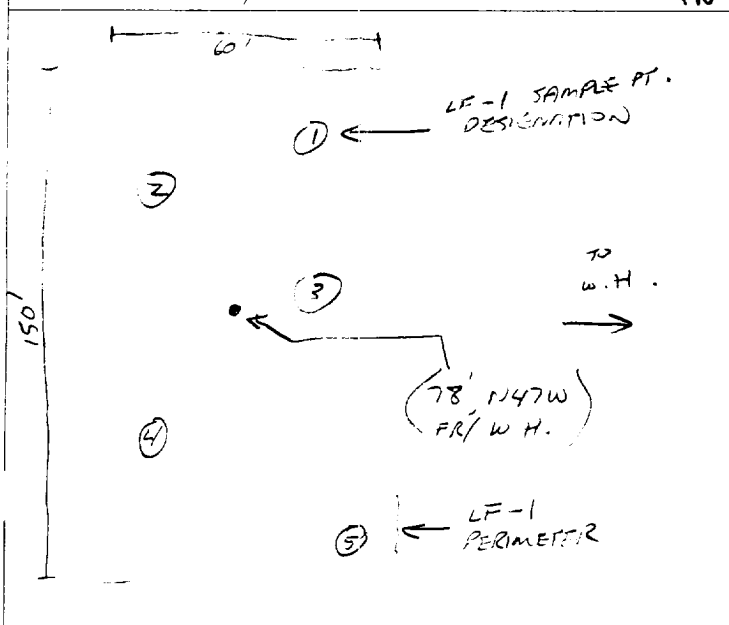
OK. YELL. BROWN SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, SAMPLE DEPTHS @ 6 INCHES, NO APPARENT 'DISCOLORATION' OBSERVED @ ANY OF THE SAMPLING PTS., NO HC ODOR DETECTED W/IN OVM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1150	131

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____

3/30/99 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

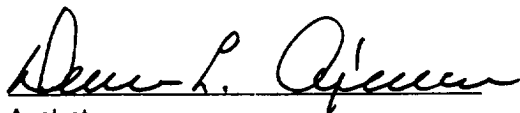
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-01-99
Laboratory Number:	E916	Date Sampled:	03-30-99
Chain of Custody No:	6634	Date Received:	03-30-99
Sample Matrix:	Soil	Date Extracted:	03-30-99
Preservative:	Cool	Date Analyzed:	04-01-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

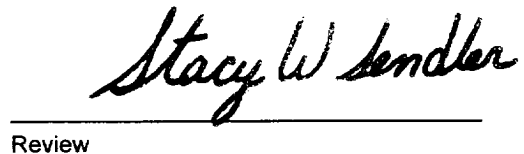
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	131	0.1
Total Petroleum Hydrocarbons	131	0.2

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 A # 8 E Landfarm. 5 Pt. Composite.


Analyst


Review

6634

[illegible]