

1316W - on
87707 Belrock
Sep - 27

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 27 1999

OIL CON. DIV.

DIST. 3

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 CONTRACT #155 - 1

Location: Unit or Qtr/Qtr Sec D Sec 30 T 26N R 5W County RIO ARriba

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 19', width 18', depth 16'

Reference: wellhead X, other

Footage from reference: 177'

Direction from reference: 68 Degrees X East of North
 West of 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)	<u>0</u>

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	<u>0</u>
Greater than 100 feet	(0 points)	<u> </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>0</u>
Greater than 100 feet	(0 points)	<u> </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)	<u> </u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 12/7/98

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, 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 10' (EAST SIDEWALL)

Sample date 12/4/98 Sample time 1140

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u> / <u>18.9</u> ^{PIT BOTTOM}	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>24.1</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 12/7/98 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: Ko C. Mault DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85707</u> C.O.C. NO: <u>6424</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICA CONTR. 155</u> WELL #: <u>1</u> PIT: <u>BLOW</u> QUAD/UNIT: <u>D SEC: 30 TWP: 26N RNG: SW PM: NM CNTY: RA ST: NM</u> QTR/FOOTAGE: <u>990' FNL/990' FNL</u> CONTRACTOR: <u>P+S</u>		DATE STARTED: <u>12/4/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>19</u> FT. x <u>18</u> FT. x <u>16</u> FT. DEEP.	CUBIC YARDAGE: <u>150</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAL METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JICA 155</u> FORMATION: <u>PC</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>177</u> FT. <u>568E</u> FROM WELLHEAD DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SIDEWALLS - MOSTLY DK. YELL. ORANGE TO MOD. YELL. BROWN SAND TO SILTY SAND,
 BOTTOM 4' TO 5' CONSISTED OF LT. GRAY BEDROCK (SHALE), SAND - NON COHESIVE,
 SLIGHTLY MOIST, FIRM, NO NOTICEABLE STAINING OBSERVED, SLIGHT HC ODOOR
 DETECTED w/in EXCAVATION, NO APPARENT HC ODOOR IN ANY OF THE
 DUM SAMPLES.

BOTTOM - BEDROCK (SHALE) MED. GRAY IN COLOR, VERY HARD, NO APPARENT HC
 ODOOR IN DUM SAMPLE.

BEDROCK
BOTTOM

CLOSED

SCALE

 0 FT

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1140							

PIT PERIMETER

PIT PROFILE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 11'	0.0
2 @ 10'	0.0
3 @ 8'	0.0
4 @ 10'	0.0
5 @ 16'	18.9

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
② @ 10'	TPH (418.1)	1140
PASSED		

TRAVEL NOTES:	CALLOUT: _____
ONSITE: _____	

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

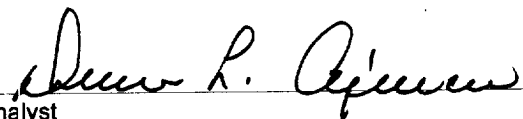
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 10'	Date Reported:	12-07-98
Laboratory Number:	E345	Date Sampled:	12-04-98
Chain of Custody No:	6424	Date Received:	12-07-98
Sample Matrix:	Soil	Date Extracted:	12-07-98
Preservative:	Cool	Date Analyzed:	12-07-98
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	24.1	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla Contract #155 - 1 Blow Pit.


Analyst


Review

8J707

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AND OIL & GAS ADMINISTRATION

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

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 CONTRACT # 155 - 1
Location: Unit or Qtr/Qtr Sec D Sec 30 T 26N R 5W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 25', width 26', depth 7'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 44'
Direction from reference: 47 Degrees ☐ East of North ☒
☒ 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

BTJ07

SEP. PIT

Date Remediation Started: _____ Date Completed: 12/8/98

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 . BEDROCK BOTTOM . RISK ASSESSED .

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' (NORTH SIDEWALL)

Sample date 12/4/98 Sample time 1205

Sample Results

Soil: Benzene	(ppm)	<u>0.0902</u>	Water: Benzene	(ppb)	_____
		<u>1.810</u>			
Total BTEX	(ppm)	<u>1.810</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>158.7</u>	Ethylbenzene	(ppb)	_____
		<u>257</u>			
TPH	(ppm)	<u>35.4</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 12/8/98 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) R.A. Attached

SIGNED: Kent Mamm DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>83707</u> C.D.C. NO: <u>6424</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>JICA CONTR. 155</u> WELL #: <u>1</u> PIT: <u>SEP.</u> QUAD/UNIT: <u>D</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>990'FWL/990'FWL</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>12/4/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>25</u> FT. x <u>26</u> FT. x <u>7</u> FT. DEEP.	CUBIC YARDAGE: <u>150</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAL METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC 155</u> FORMATION: <u>PC</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>44</u> FT. <u>N47W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>2100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOC RANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SIDEWALLS - MOSTLY DR. YELL. ORANGE TO MOD. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM TO DENSE, NO APPARENT STAINING OBSERVED
 SLIGHT HC ODOR DETECTED W/IN EXCAVATION, BOTTOM 3' CONSISTED OF LT. GRAY SHALE, FRIABLE, HC ODOR DETECTED W/IN NORTH & WEST SIDEWALL OVM SAMPLES.

BOTTOM - BEDROCK (SHALE) MOD. YELL. BROWN IN COLOR, VERY HARD, STRONG HC ODOR IN OVM SAMPLE.

BEDROCK Bottom

RISK ASSESSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1205							

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	158.7
2 @ 3'	0.0
3 @ 3'	56.0
4 @ 3'	19.9
5 @ 7'	257

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① 23'	TPH/STEX	1205
BOTH PASSED		

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 155 #1

Unit D, Sec. 30, T26N, R5W

Separator Pit

Pictured Cliffs

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 7 feet below grade.

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

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 7 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
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 0.60 miles northwest of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to Gonzales Mesa 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 sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). 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

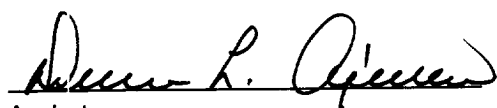
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 3'	Date Reported:	12-07-98
Laboratory Number:	E346	Date Sampled:	12-04-98
Chain of Custody No:	6424	Date Received:	12-07-98
Sample Matrix:	Soil	Date Extracted:	12-07-98
Preservative:	Cool	Date Analyzed:	12-07-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	26.5	0.2
Diesel Range (C10 - C28)	8.9	0.1
Total Petroleum Hydrocarbons	35.4	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 Contract #155 - 1 Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 3'	Date Reported:	12-08-98
Laboratory Number:	E346	Date Sampled:	12-04-98
Chain of Custody:	6424	Date Received:	12-07-98
Sample Matrix:	Soil	Date Analyzed:	12-08-98
Preservative:	Cool	Date Extracted:	12-07-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	90.2	8.8
Toluene	408	8.4
Ethylbenzene	58.4	7.6
p,m-Xylene	790	10.8
o-Xylene	460	5.2
Total BTEX	1,810	

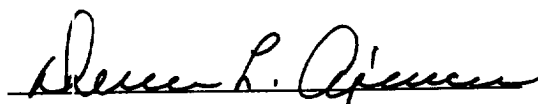
ND - Parameter not detected at the stated detection limit.


Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Contract #155 - 1 Separator Pit.


Analyst


Review

6424

Client / Project Name			Project Location			ANALYSIS / PARAMETERS					
<i>Buete / Amoco</i>			<i>JEAQUA Converter #155-1</i>								
Sampler:			Client No.								
<i>NJV</i>			<i>04034-10</i>								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)	BTEX (8021)	TPH (418.1)			
<i>② e 101</i>	<i>12/4/98</i>	<i>1140</i>	<i>E345</i>	<i>SOL</i>	<i>1</i>			<i>✓</i>	<i>Brow PIT</i>		
<i>① e 31</i>	<i>12/4/98</i>	<i>1205</i>	<i>E346</i>	<i>SOL</i>	<i>1</i>	<i>1</i>	<i>✓</i>	<i>SEPARATOR PIT</i>			
									<i>both samples</i>		
									<i>RESETALL - COOL</i>		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)				Date	Time	
<i>[Signature]</i>			<i>12/7/98</i>	<i>0718</i>	<i>[Signature]</i>				<i>12-7-98</i>	<i>0718</i>	
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						
<div style="text-align: center;"> ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615 </div>											
Sample Receipt										Remarks	
Received Intact										<i>✓</i>	
Cool - Ice/Blue Ice										<i>✓</i>	

BJ 707

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: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT 155-1

Location: Unit or Qtr/Qtr Sec D Sec 30 T 26N R 5W County RIO ARriba

Land Type: RANGE

Date Remediation Started: 12-4-98 Date Completed: 6/8/99

Remediation Method: Landfarmed ☒ Approx. cubic yards 300

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: 6-7-99 Time: 1030

Sample Results:

Field Headspace (ppm) 7.6

TPH (ppm) 15.9 Method TPH (Bois)

Other ☐

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

DATE 6/8/99 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>B5707</u> C.O.C. NO: <u>7064</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>SICABILLA</u> NAME: <u>CONTRACT</u> ISS WELL #: <u>1</u> PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>6-7-99</u> DATE FINISHED: _____
QUAD/UNIT: <u>D</u> SEC: <u>30</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>
QTR/FOOTAGE: <u>NW/4 NW/4</u> CONTRACTOR: <u>F&S</u>	

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 300

LAND USE: RANGE

LIFT DEPTH (ft): 1.5'-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

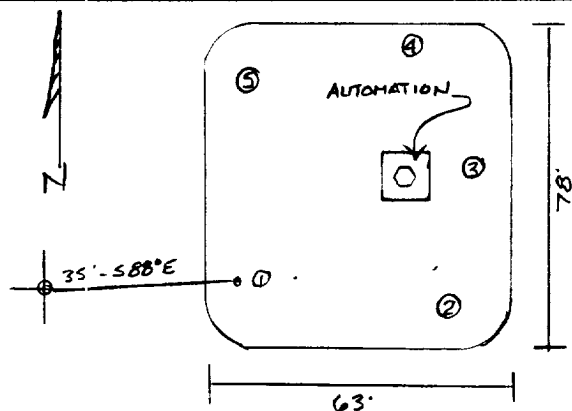
MODERATE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM
NO APPARENT STAINING, HC ODOR DETECTED IN SAMPLING PT. ⑤
SAMPLING DEPTHS RANGE FROM 6" - 18" COLLECTED A SPT COMPOSITE
SAMPLE FOR LAB ANALYSIS.

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	7.6	LF-1	TPH (8015)	1030	15.9

SCALE



0

FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 6-7-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

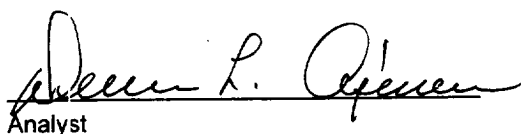
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-08-99
Laboratory Number:	F462	Date Sampled:	06-07-99
Chain of Custody No:	7064	Date Received:	06-08-99
Sample Matrix:	Soil	Date Extracted:	06-08-99
Preservative:	Cool	Date Analyzed:	06-08-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	15.9	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	15.9	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 Contract 155 - 1 Landfarm. 5 Pt. Composite.


Analyst


Review

7064

[illegible]