

Denny S. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 13 1999

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

87595

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

OK
2/1/95

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 C #6
Location: Unit or Qtr/Qtr Sec F Sec 14 T 26N R 5W County RIO ARriba
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 47', width 28', depth 13'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 102'
Direction from reference: 78 Degrees East of North
X West of South X

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>0</u>
Greater than 100 feet	(0 points)	<u> </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)	<u>0</u>
No	(0 points)	<u> </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

BJ595

BLOW PIT

Date Remediation Started: _____ Date Completed: 7/31/98

Remediation Method: Excavation ☒ Approx. cubic yards 200
(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 7' (WEST SIDEWALL)

Sample date 7/28/98 Sample time 1300

Sample Results

Soil: Benzene	(ppm)	<u>0.197</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>43.160</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>1,082</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>2,210</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 7/31/98 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: [Signature] DATE: 9-9-98

3003908154

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT595</u> C.D.C. NO: <u>6112</u>																																			
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																			
LOCATION: NAME: <u>JICARILUA</u> C WELL #: <u>6</u> PIT: <u>BLOW</u>		DATE STARTED: <u>7/28/98</u> DATE FINISHED: _____																																			
QUAD/UNIT: <u>F</u> SEC: <u>14</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>LA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NU</u>																																			
QTR/FOOTAGE: <u>1780' FWL</u> <u>1455' FWL</u> CONTRACTOR: <u>P & S</u>																																					
EXCAVATION APPROX. <u>47</u> FT. x <u>28</u> FT. x <u>13</u> FT. DEEP. CUBIC YARDAGE: <u>200</u>																																					
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFILL</u>																																					
LAND USE: <u>RANGE</u> LEASE: <u>C</u> FORMATION: <u>OK</u>																																					
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>102</u> FT. <u>SW</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:																																					
<p>SIDEWALLS: BOTTOM HALF CONSISTED OF BEDROCK (SHALE) VERY PALE ORANGE TO MED GRAY (NORTH SIDEWALL) IN COLOR, SOFT TO HARD, NO APPARENT STAINING OR HC ODOOR EVIDENT W/IN EXCAVATION, WEST SIDE ALL CONSISTED OF LT. TO OK. GRAY SAND PHASING INTO CLAY, STRONG HC ODOOR IN OVM SAMPLE.</p>																																					
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><u>BEDROCK BOTTOM</u></p> <p>SCALE</p> <p>0 FT</p> </div> <div style="width: 60%;"> <p>FIELD 418.1 CALCULATIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																											
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																														
<p>PIT PERIMETER</p>	<p>OVM RESULTS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 8'</td><td>126.8 RIK</td></tr> <tr><td>2 @ 7'</td><td>0.0 RIK</td></tr> <tr><td>3 @ 7'</td><td>0.0 RIK</td></tr> <tr><td>4 @ 7'</td><td>1082</td></tr> <tr><td>5 @ 13'</td><td>6.9 RIK</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <p>LAB SAMPLES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>(4) @ 7'</td><td>TPH/BTEX</td><td>1300</td></tr> <tr><td colspan="3" style="text-align: center;">BOTH PASSED</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 8'	126.8 RIK	2 @ 7'	0.0 RIK	3 @ 7'	0.0 RIK	4 @ 7'	1082	5 @ 13'	6.9 RIK									SAMPLE ID	ANALYSIS	TIME	(4) @ 7'	TPH/BTEX	1300	BOTH PASSED									<p>PIT PROFILE</p>
SAMPLE ID	FIELD HEADSPACE PID (ppm)																																				
1 @ 8'	126.8 RIK																																				
2 @ 7'	0.0 RIK																																				
3 @ 7'	0.0 RIK																																				
4 @ 7'	1082																																				
5 @ 13'	6.9 RIK																																				
SAMPLE ID	ANALYSIS	TIME																																			
(4) @ 7'	TPH/BTEX	1300																																			
BOTH PASSED																																					
TRAVEL NOTES: CALLOUT: <u>7/23/98 - AFTER.</u> ONSITE: <u>7/28/98 - AFTER.</u>																																					

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO
Sample ID: 4 @ 7'
Laboratory Number: D768
Chain of Custody No: 6112
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

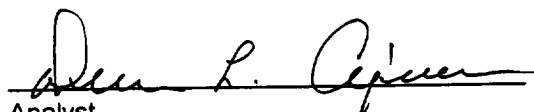
Project #: 04034-10
Date Reported: 07-31-98
Date Sampled: 07-28-98
Date Received: 07-30-98
Date Extracted: 07-31-98
Date Analyzed: 07-31-98
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	732	0.2
Diesel Range (C10 - C28)	1,480	0.1
Total Petroleum Hydrocarbons	2,210	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 #6 Blow 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:	4 @ 7'	Date Reported:	07-31-98
Laboratory Number:	D768	Date Sampled:	07-28-98
Chain of Custody:	6112	Date Received:	07-30-98
Sample Matrix:	Soil	Date Analyzed:	07-31-98
Preservative:	Cool	Date Extracted:	07-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	197	8.8
Toluene	1,730	8.4
Ethylbenzene	763	7.6
p,m-Xylene	31,480	10.8
o-Xylene	8,990	5.2
Total BTEX	43,160	


ND - Parameter not detected at the stated detection limit.


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

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 C #6 Blow Pit.


Analyst


Review

87595

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**

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 #6

Location: Unit or Qtr/Qtr Sec F Sec 14 T 26N R 5W County RD ARIZONA

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: RANGE

Pit Location: Pit dimensions: length 22', width 36', depth 7'
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 72'

Direction from reference: 57 Degrees ☒ East of 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)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

BJ595

SEP. 9.17

Date Remediation Started: _____ Date Completed: 7/31/98

Remediation Method: Excavation ☒ Approx. cubic yards 100
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 3' (NORTH SIDEWALK)

Sample date 7/28/98 Sample time 1115

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>12.170</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>800</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>3,660</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 7/31/98 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: Ken C. Marshall DATE: 9-9-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ595</u> C.D.C. NO: <u>6112</u>
----------------------	--	---

FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
------------------------------------	-------------------------------

LOCATION: NAME: <u>JICARILLA</u> C WELL #: <u>6</u> PIT: <u>SEP.</u> QUAD/UNIT: <u>F</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>1780' FNL</u> <u>1455' FWL</u> CONTRACTOR: <u>P & S</u>	DATE STARTED: <u>7/28/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>N.</u>
--	---

EXCAVATION APPROX. <u>22</u> FT. x <u>36</u> FT. x <u>7</u> FT. DEEP.	CUBIC YARDAGE: <u>100</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>C</u> FORMATION: <u>DR</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>72</u> FT. <u>N57E</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 <u>SOIL AND EXCAVATION DESCRIPTION:</u>
------------------------	---

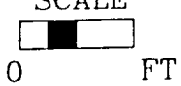
CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

MOSTLY VERY PALE ORANGE TO DR. YELL. ORANGE SILTY SAND TO SILTY CLAY,
 NON COHESIVE TO COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF, NORTH SIDEWALL
 LT. TO MED. GRAY SILTY CLAY TO CLAY, STRONG HC ODOR IN OUM SAMPLE,
 NO APPARENT STAINING OBSERVED W/IN EXCAVATION.

BOTTOM - BEDROCK (SHALE) LT. GRAY IN COLOR, VERY HARD, NO APPARENT
 HC ODOR DETECTED W/IN EXCAVATION OR OUM SAMPLE.

BEDROCK BOTTOM

SCALE

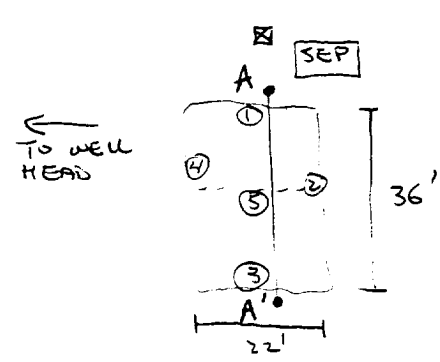


0 FT

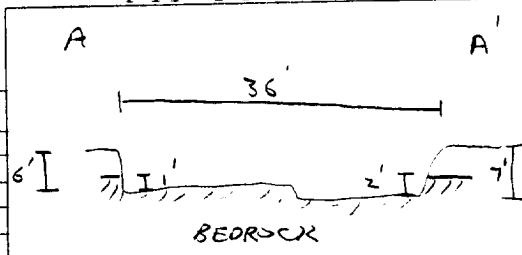
FIELD 418.1 CALCULATIONS

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

PIT PERIMETER



PIT PROFILE



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 E 3'	800
2 E 3'	53.5
3 E 4'	0.0
4 E 3'	0.0
5 E 7'	12.9

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1 E 3'	TPH/BTEX	111.5
BOTH - PASSED		

TRAVEL NOTES:	CALLOUT: <u>7/23/98 - AFTER.</u>	ONSITE: <u>7/28/98 - MORN.</u>
---------------	----------------------------------	--------------------------------

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

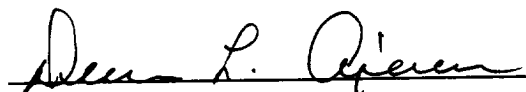
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 3'	Date Reported:	07-31-98
Laboratory Number:	D767	Date Sampled:	07-28-98
Chain of Custody No:	6112	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	07-31-98
Preservative:	Cool	Date Analyzed:	07-31-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,210	0.2
Diesel Range (C10 - C28)	2,450	0.1
Total Petroleum Hydrocarbons	3,660	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 #6 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:	07-31-98
Laboratory Number:	D767	Date Sampled:	07-28-98
Chain of Custody:	6112	Date Received:	07-30-98
Sample Matrix:	Soil	Date Analyzed:	07-31-98
Preservative:	Cool	Date Extracted:	07-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	260	7.6
p,m-Xylene	9,640	10.8
o-Xylene	2,270	5.2
Total BTEX	12,170	

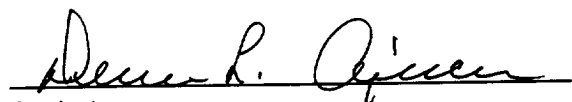
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 C #6 Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

6112

Client / Project Name BLAGE / Amoco			Project Location JICARILLA C # 6			ANALYSIS / PARAMETERS														
Sampler: NTV			Client No. 04034-10			No. of Containers														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	TPH (8015)		BTX (8021)		Remarks											
① e 3'	7/28/98	1115	D767	SOIL	1	✓	✓		SEPARATOR PIT											
④ e 7'	7/28/98	1300	D768	SOIL	1	✓	✓		BLOW PIT											
									BOTH SAMPLES											
									PRESERV. - COOL											
Relinquished by: (Signature) <i>John W. S.</i>			Date 7/30/98	Time 1525	Received by: (Signature) <i>Alfredo Cisneros</i>			Date 7/30/98	Time 1325											
Relinquished by: (Signature)						Received by: (Signature)														
Relinquished by: (Signature)						Received by: (Signature)														
Ref COCS 6111 & 6113																				
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615																				
<table border="1"> <tr> <td colspan="3">Sample Receipt</td> </tr> <tr> <td>Received Intact</td> <td>Y</td> <td>N</td> </tr> <tr> <td>Cool - Ice/Blue Ice</td> <td>✓</td> <td></td> </tr> </table>												Sample Receipt			Received Intact	Y	N	Cool - Ice/Blue Ice	✓	
Sample Receipt																				
Received Intact	Y	N																		
Cool - Ice/Blue Ice	✓																			

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

BJS95
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 6

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

Land Type: RANGE

Date Remediation Started: 7-28-98 Date Completed: 2/10/99

Remediation Method: Landfarmed ☒ Approx. cubic yards 300
Composted ☐
Other ☐

Distance 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: 2-8-99 Time: 1115

Sample Results:

Field Headspace (ppm) 0.0

TPH (ppm) 39.3 Method 8015

Other ☐

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

DATE 2/10/99 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: K. C. M. [Signature] DATE: 3-31-99

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJS95</u> C.D.C. NO: <u>6568</u>
----------------------	---	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JCARILLA C</u> WELL #: <u>6</u> PITS: <u>SEP, BLOW</u> QUAD/UNIT: <u>F</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>SE/4 NW/4</u> CONTRACTOR: <u>R/S</u>	DATE STARTED: <u>2.8.99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>REP</u>
--	---

SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 300

 LAND USE: RANGE

 LIFT DEPTH (ft): 2

FIELD NOTES & REMARKS:

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

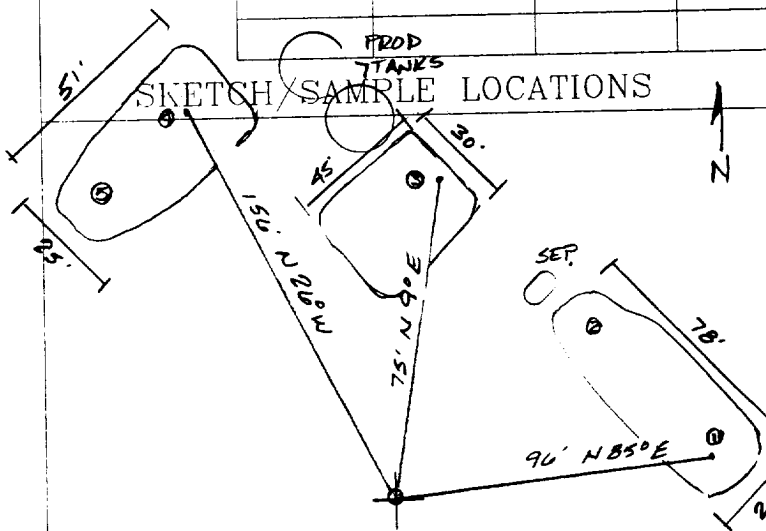
 NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

PALE YELLOWISH BROWN CLAYEY SAND, COHESIVE, SLIGHTLY MOIST, FIRM
 NO VISIBLE STAINING OBSERVED. NO HC ODOR DETECTED. SAMPLING DEPTHS
 RANGE FROM 6" - 18" TOOK 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



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (2015)	1115	39.3

SCALE

0 FT

TRAVEL NOTES:

 CALLOUT: N/A

 ONSITE: 2.8.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO
Sample ID: LF - 1
Laboratory Number: E618
Chain of Custody No: 6568
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

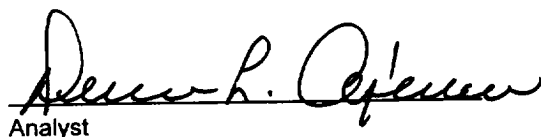
Project #: 403410
Date Reported: 02-10-99
Date Sampled: 02-08-99
Date Received: 02-09-99
Date Extracted: 02-10-99
Date Analyzed: 02-10-99
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7.3	0.2
Diesel Range (C10 - C28)	32.0	0.1
Total Petroleum Hydrocarbons	39.3	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 6 Landfarm. 5 Pt. Composite.


Analyst


Review

9
5
9
8

[illegible]