

BT 482 SEP-Rish - balance

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

RECEIVED
AUG 16 1999

OIL CON. DIV.

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

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT # 146 - 34

Location: Unit or Qtr/Qtr Sec B Sec 3 T 25N R 5W County RIO ARriba

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location: Pit dimensions: length 45', width 50', depth 15'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 155'

Direction from reference: 45 Degrees East of North X
X West South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u>2</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

8J482 / BLOW PIT

Date Remediation Started: _____ Date Completed: 12/30/96

Remediation Method: Excavation ☒ Approx. cubic yards 300
 Check all appropriate (ions) 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 16'

Sample date 12/30/96 Sample time 1330

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 12/30/96 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: Kenn C. Marshall DATE: 1-23-97

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ482</u> C.O.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>JICARILLA CONTRACT</u> WELL # <u>146-34</u> PIT: <u>BLOW</u> QUAD/UNIT: <u>8</u> SEC: <u>3</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>PM</u> CNTY: <u>RA</u> ST: <u>NM</u> DTP/FOOTAGE: <u>NW/4 NE/4</u> CONTRACTOR: <u>P&S</u>	DATE STARTED: <u>12/30/96</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>45</u> FT. x <u>50</u> FT. x <u>15</u> FT. DEEP.	CUBIC YARDAGE: <u>300</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>	
LAND USE: <u>RANGE</u> LEASE: <u>JICA CONTR. #146</u> FORMATION: _____	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>155</u> FT. <u>N45W</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>	CHECK ONE:
NMDD BANKING SCORE: <u>0</u>	NMDD TPH CLOSURE STD: <u>5000</u> PPM	<input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED	
COIL AND EXCAVATION DESCRIPTION:			

DR. YELL. ORANGE TO BROWN SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, NO HC STAINING OBSERVED THROUGHOUT THE ENTIRE EXCAVATION.

CLOSED

SCALE

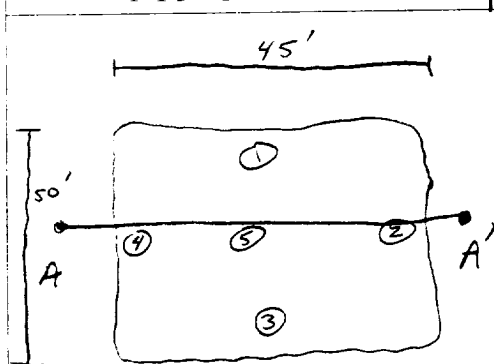


0 FT

FIELD 4:8:1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1330	③ @ 16'	TPH-1867	5	20	1:1	7	28

PIT PERIMETER



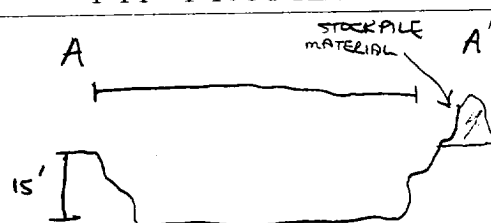
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE (ft)	PID (ppm)
1 @ 10'	0.0	
2 @ 10'	0.0	
3 @ 11'	0.0	
4 @ 9'	0.0	
5 @ 16'	0.0	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES:

CALLOUT: 12/24/96 AFTER. ONSITE: 12/30/96 AFTER.

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:	5 @ 16'	Date Analyzed:	12-30-96
Project Location:	Jicarilla Contract 146 - 34	Date Reported:	12-30-96
Laboratory Number:	TPH-1867	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.
	-----	-----	-----
	80	84	4.88

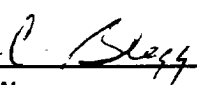
*Administrative Acceptance limits set at 30%.

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

Comments: Blow Pit - BJ482



Analyst



Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters: *****

Client: AMOCO

Sample ID: 5 @ 16'

Project Location: Jicarilla Contract 146 - 34

Laboratory Number: TPH-1867

Project #:

Date Analyzed: 12-30-96

Date Reported: 12-30-96

Sample Matrix: Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 1 (unitless)
TPH Reading: 7 mg/kg

TPH Result: 28.0 mg/kg
Reported TPH Result: 28 mg/kg
Actual Detection Limit: 20.0 mg/kg
Reported Detection Limit: 20 mg/kg

QA/QC:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	80	84	4.88

Comments: *****Max Characters*****

Comments: Blow Pit - BJ482

BT482

**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 CONTRACT # 146-34
Location: Unit or Qtr/Qtr Sec B Sec 3 T 25N R 5W County RIO ARIZONA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 25', width 30', depth 28'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 140'
Direction from reference: 42 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

BT482 / SEP. PTT

Date Remediation Started: _____ Date Completed: 1/10/97

Remediation Method: Excavation ☒ Approx. cubic yards 750
 Check all appropriate (ions) 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 - SPRAYED w/ FERTILIZER.

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 21'
 Sample date 12/30/96 Sample time 1245

Sample Results

Soil: Benzene (ppm)	_____	Water: Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	<u>779</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>15,700</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 1/10/97 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) condition closure + spray

SIGNED: Kew C. M... DATE: 1-23-97

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ482</u> C.D.C. NO: <u>4976</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>JCARILLA CONTRACT</u> WELL #: <u>146-34</u> PIT: <u>SEP</u> QUAD/UNIT: <u>B</u> SEC: <u>3</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> DTP/FOOTAGE: <u>NW 1/4 NE 1/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>12/30/96</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>25</u> FT. x <u>30</u> FT. x <u>28</u> FT. DEEP.	CUBIC YARDAGE: <u>750</u>	
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDATION METHOD: <u>LANDFARMED</u>	
LAND USE: <u>RANGE</u>	LEASE: <u>JICA CONTR. #146</u>	FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>140</u> FT. <u>N42E</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>2100'</u>	NEAREST WATER SOURCE: <u>21000'</u>	NEAREST SURFACE WATER: <u>21000'</u>
NMOCB RANKING SCORE: <u>2</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 <input type="checkbox"/> FIBERGLASS TANK INSTALLED

SIDEWALLS: OLIVE GRAY TO DK. OLIVE GRAY SILTY SAND TO CLAY WITH SOME GRAVEL INTERMIXED (EAST SIDEWALL OUM SAMPLE), NON-PLASTIC, FIRM TO VERY STIFF, SLIGHTLY MOIST, STRONG HC ODOR IN EAST SIDEWALL OUM SAMPLE ONLY, UNABLE TO DISTINGUISH HC STAINING WITHIN THE EXCAVATION, HC CONTAMINATION @ SE CORNER APPEARED TO BE MINIMAL. WILL SPRAY SE CORNER W/ FERTILIZER.

BOTTOM - OK. OLIVE GRAY SHALE / SANDSTONE BEDROCK, VERY HARD, SLIGHT HC ODOR IN OUM SAMPLE.

BEOROCK

RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1245							

SCALE

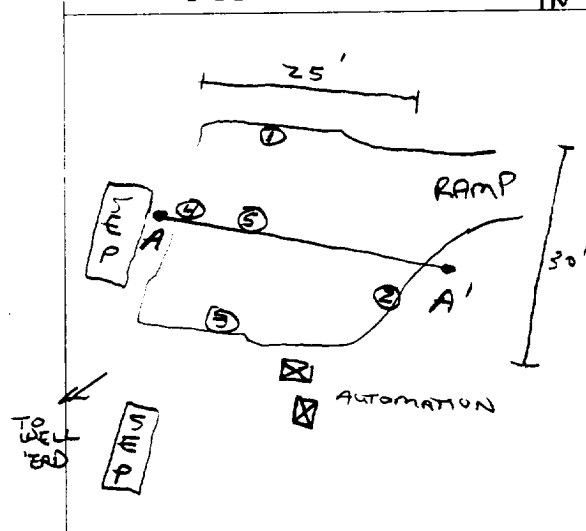


0 FT

PIT PERIMETER

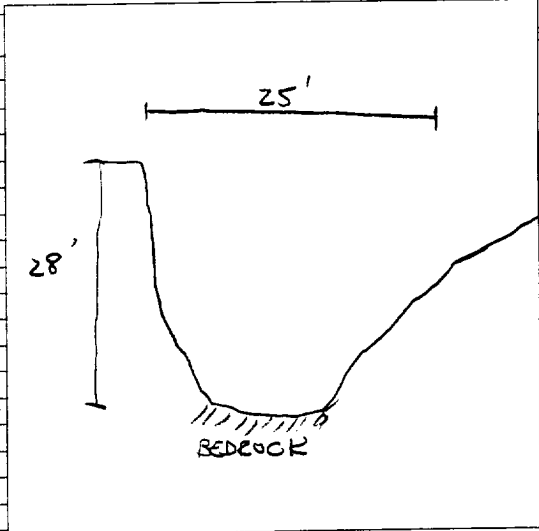
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 21'	6.5
2 @ 21'	779
3 @ 22'	0.0
4 @ 21'	0.0
5 @ 28'	55.0

SAMPLE ID	ANALYSIS	TIME
2 @ 21'	TPH / BTEX	1245
	(8015) (9020)	
	FAILED	



TRAVEL NOTES:	CALLOUT: <u>12/24/96 AFTER.</u>	ONSITE: <u>12/30/96 MORN.</u>
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Well Name:	Jicarilla Contract 146 #34
Well Site location:	Unit B, Sec. 3, T25N, R5W
Pit Type:	Separator Pit
Producing Formation:	Chacra/Mesa Verde
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 encountered sandstone bedrock at 28 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 28 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 1.72 miles northeast of the nearest vulnerable area boundary (Gonzales Canyon wash).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and 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

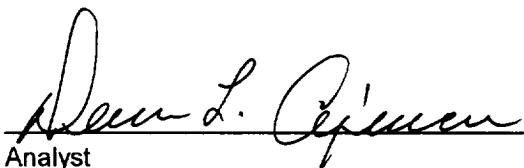
Client:	Blagg / Amoco	Project #:	04034
Sample ID:	2 @ 21'	Date Reported:	01-07-97
Laboratory Number:	A883	Date Sampled:	12-30-96
Chain of Custody No:	4976	Date Received:	12-31-96
Sample Matrix:	Soil	Date Extracted:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

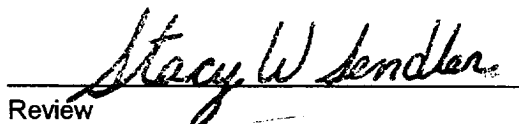
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	8,970	0.2
Diesel Range (C10 - C28)	6,720	0.1
Total Petroleum Hydrocarbons	15,700	0.2

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 Contract #146-34 Separator Pit.


Analyst


Review

San Juan Repro Form 578-81

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

87482

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 CONTRACT #146-34</u>	
Location: Unit or Qtr/Qtr Sec <u>B</u> Sec <u>3</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARIZONA</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>12/30/96</u> Date Completed: <u>8/5/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>1050</u> Composted _____ Other _____	
Depth To Groundwater: (pts.) <u>0</u> 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>	Final Closure Sampling: Sampling Date: <u>8/4/98</u> Time: <u>1100</u> Sample Results: Field Headspace (ppm) <u>50.0</u> TPH (ppm) <u>3,720</u> Method <u>8015</u> Other <u>2ND SAMPLE</u> <u>OVUM</u> = <u>42.2 ppm</u> (LF-2) <u>TPH = 3,980 ppm</u> <u>Time - 1150</u>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>8/5/98</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 <u>X</u> NO _____ (REASON) <u>Not for use as Backfill</u>	
SIGNED: <u>Kurt C. M...</u> DATE: <u>9-9-98</u>	

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ482</u> C.O.C. NO: <u>6115</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION			
LOCATION: NAME: <u>TICA. CONTR. 146</u> WELL #: <u>34</u> PITS: <u>SEP., BLOW</u>	DATE STARTED: <u>8/4/98</u>		
QUAD/UNIT: <u>B</u> SEC: <u>3</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____		
QTR/FOOTAGE: <u>NW1/4 NE1/4</u> CONTRACTOR: <u>P & S</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>		

SOIL REMEDIATION:	
REMEDIALATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>1050</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1'-2'</u>

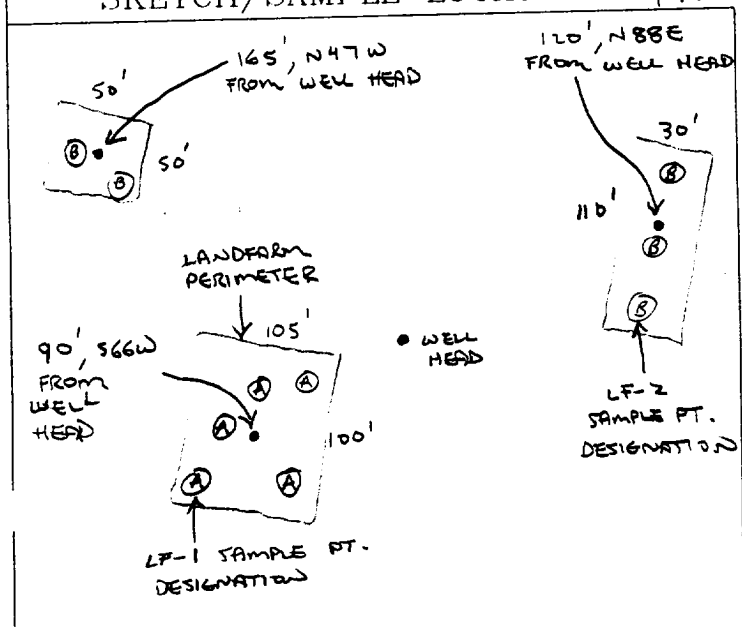
FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	
NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM	
MOSTLY MOD. TO O.K. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, HC 000R DETECTED IN 3 OF THE 10 SAMPLE PTS., SAMPLING DEPTHS RANGE FROM <u>1'-1 1/2'</u> , SOME MED. GRAY DISCOLORATION OBSERVED IN EAST SIDE LANDFARM (LF-2), COLLECTED 5 PT. COMPOSITE SAMPLES FOR LAB ANALYSIS.	

CLOSED

FIELD 418.1 CALCULATIONS

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

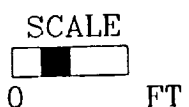
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	50.0	LF-1	TPH (8015)	1100	3,720
LF-2	42.2	LF-2	TPH (8015)	1150	3,980



TRAVEL NOTES:	CALLOUT: <u>NA</u>	ONSITE: <u>8/4/98</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

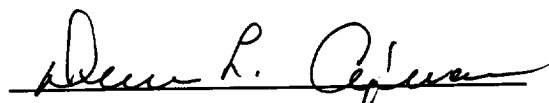
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	08-05-98
Laboratory Number:	D776	Date Sampled:	08-04-98
Chain of Custody No:	6115	Date Received:	08-04-98
Sample Matrix:	Soil	Date Extracted:	08-05-98
Preservative:	Cool	Date Analyzed:	08-05-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	235	0.2
Diesel Range (C10 - C28)	3,480	0.1
Total Petroleum Hydrocarbons	3,720	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 #146 - 34 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

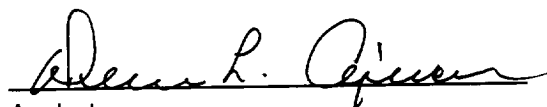
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 2	Date Reported:	08-05-98
Laboratory Number:	D777	Date Sampled:	08-04-98
Chain of Custody No:	6115	Date Received:	08-04-98
Sample Matrix:	Soil	Date Extracted:	08-05-98
Preservative:	Cool	Date Analyzed:	08-05-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	126	0.2
Diesel Range (C10 - C28)	3,850	0.1
Total Petroleum Hydrocarbons	3,980	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 #146 - 34 Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

6115

Client / Project Name BAGS/Amoco			Project Location LANDFILL		ANALYSIS / PARAMETERS				
Sampler: NTV			Client No. 04034-10		Remarks				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers				
LF-1	8/4/98	1100	DT76	SOIL	1	5 PT. COMPOSITE			
LF-2	8/4/98	1150	DT77	SOIL	1	5 PT. COMPOSITE			
						ALL SQUARES			
						PRESERV. - COOL			
Relinquished by: (Signature) <i>[Signature]</i>			Date 8/4/98	Time 1446	Received by: (Signature) <i>[Signature]</i>	Date 8-4-98	Time 1446		
Relinquished by: (Signature)					Received by: (Signature)				
Relinquished by: (Signature)					Received by: (Signature)				
Ref COC'S 6114-6115			ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615						
			Sample Receipt Received Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A Cool - Ice/Blue Ice <input checked="" type="checkbox"/> <input type="checkbox"/>						