

OCT 08 1999

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 148-20

Location: Unit or Qtr/Qtr Sec B Sec 23 T 25N R 5W County RIO ARIZONA

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 20', width 25', depth 18'

Reference: wellhead X, other _____

Footage from reference: 75'

Direction from reference: 20 Degrees X East of North X
West of South _____

Depth To Groundwater:

(Vertical distance from contaminants to seasonal high water elevation of groundwater)

RECEIVED
AUG 24 1999

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 points)

Distance to an Ephemeral Stream

(Downgradient dry wash greater than ten feet in width)

OIL CON. DIV.
DIST. 3

Less than 100 feet (10 points)
Greater than 100 feet (0 points)

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)

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)

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)

RANKING SCORE (TOTAL POINTS):

BJ527

Blow PIT

Date Remediation Started: _____ Date Completed: 11/28/98
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

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' (PIT Bottom)
Sample date 11/27/98 Sample time 1100

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>21.0</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 11/28/98 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: Kee C Mammall DATE: 2-6-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8JS27</u> C.D.C. NO: <u>5718</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>JEA. CONTR. 148</u> WELL #: <u>20</u> PIT: <u>BLOW</u> QUAD/UNIT: <u>B SEC 23</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW1/4 NE1/4</u> CONTRACTOR: <u>P & S</u>	DATE STARTED: <u>1/27/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>20</u> FT. x <u>25</u> FT. x <u>18</u> FT. DEEP.	CUBIC YARDAGE: <u>150</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>FED. # 148</u> FORMATION: <u>PC/CK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>75</u> FT. <u>N20E</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:
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

MOSTLY PALE ORANGE TO MED. YELL. BROWN SILTY SAND NON COHESIVE, DRY TO SLIGHTLY MOIST, FIRM, NO APPARENT STRAINING OR 'HC ODOR OBSERVED w/in EXCAVATION, NO APPARENT HC ODOR DETECTED IN ANY OF THE OVIN SAMPLES.

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 14'	0.0
2 @ 15'	0.0
3 @ 15'	0.0
4 @ 16'	0.0
5 @ 21'	0.0

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
⑤ @ 21'	TPH 418.1	1100
PASSED		

TRAVEL NOTES: CALLOUT: _____	ONSITE: <u>1/13/98, 1/27/98</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 21'	Date Reported:	01-28-98
Laboratory Number:	C853	Date Sampled:	01-27-98
Chain of Custody No:	5718	Date Received:	01-27-98
Sample Matrix:	Soil	Date Extracted:	01-28-98
Preservative:	Cool	Date Analyzed:	01-28-98
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

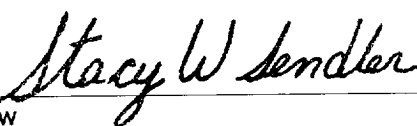
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	21.0	5.0

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 148-20 Blow Pit.


Analyst


Review

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

87527

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 148-20
Location: Unit or Qtr/Qtr Sec B Sec 23 T 25N R 5W County RIO ARRIBA
Pit Type: Separator Dehydrator Other BLOW (II)
Land Type: RANGE

Pit Location: Pit dimensions: length 15', width 24', depth 14'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 70'
Direction from reference: 51 Degrees East of North X
X West of South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<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

Date Remediation Started: _____ Date Completed: 5/18/98

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

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' (PIT BOTTOM)

Sample date 5/18/98 Sample time 0830

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>ND</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 5/18/98 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: Kenneth M. Shaw DATE: 6-15-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>87527</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 CONTR.</u> WELL #: <u>20</u> PIT: <u>BLOW II</u>	DATE STARTED: <u>5/18/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>B</u> SEC: <u>23</u> TWP: <u>25N</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>NW/4 NE/4</u> CONTRACTOR: <u>P+S</u>	

EXCAVATION APPROX. <u>15'</u> FT. x <u>24'</u> FT. x <u>14'</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>JIC 148</u> FORMATION: <u>PC/CK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>70</u> FT. <u>NSIW</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>2120'</u> NEAREST WATER SOURCE: <u>21000'</u> NEAREST SURFACE WATER: <u>21000'</u>	CHECK ONE:
NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM	<input checked="" type="checkbox"/> PIT ABANDONED
SOIL AND EXCAVATION DESCRIPTION:	<input type="checkbox"/> STEEL TANK INSTALLED
	<input type="checkbox"/> FIBERGLASS TANK INSTALLED

MOSTLY PALE ORANGE TO MOD. TELL. BROWN SAND OR YEL. BROWN CLAY FROM 10' - PIT BOTTOM SAND - NON COHESIVE, SLIGHTLY MOIST, FIRM, CLAY - PLASTIC, SLIGHTLY MOIST TO MOIST FIRM TO STIFF NO APPARENT STAINING OR HC ODOOR OBSERVED W/IN EXCAVATION OR IN ANY OF THE OVM SAMPLES.

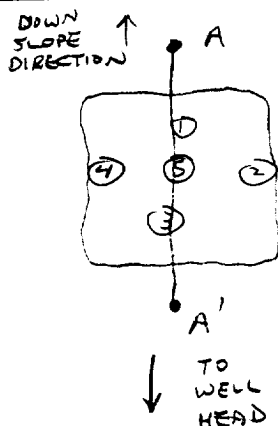
CLOSED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0830	⑤ @ 16'	TPH-1978	5	20	1:1	4	ND

PIT PERIMETER



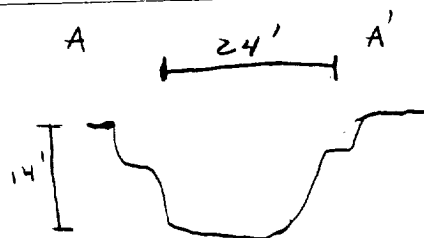
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 10'	0.0
2 @ 9'	0.0
3 @ 8'	0.0
4 @ 9'	0.0
5 @ 16'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES:	CALLOUT: <u>5/12/98 - MORN.</u> ONSITE: <u>5/18/98 - MORN.</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	Project #:	
Sample ID:	5 @ 16'	Date Analyzed:	05-18-98
Project Location:	Jicarilla Contract 148 - 20	Date Reported:	05-18-98
Laboratory Number:	TPH-1978	Sample Matrix:	Soil

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

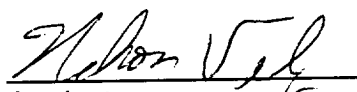
ND = Not Detectable at stated detection limits.

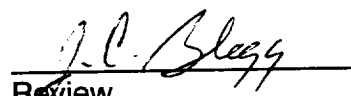
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1684	1712	1.65

*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 (II) - BJ527


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:

Sample ID:

Project Location:

Laboratory Number:

AMOCO

5 @ 16'

Jicarilla Contract 148 - 20

TPH-1978

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

05-18-98

05-18-98

Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 1 (unitless)
TPH Reading: 4 mg/kg

TPH Result: 16.0 mg/kg
Reported TPH Result: 16 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.
	-----	-----	----
	1684	1712	1.65

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

Comments: Blow Pit (II) - BJ527

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

87527

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 148-20
Location: Unit or Qtr/Qtr Sec B Sec 23 T 25N R 5W County RIO ARRIBA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 24', width 29', depth 20'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 170'
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

Date Remediation Started: _____ Date Completed: 5/19/98

Remediation Method: Excavation ☒ Approx. cubic yards 250
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, SPRAYED WEST SIDEWALK 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 15' (WEST SIDEWALK)

Sample date 5/18/98 Sample time 0930

Sample Results

Soil: Benzene	(ppm)	<u>0.0266</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>2.790</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>1,874</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>93.0</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 5/19/98 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: Kee C Mammall DATE: 6-15-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8JS27</u> C.D.C. NO: <u>5900</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. 148</u> WELL #: <u>20</u> PIT: <u>SEP</u> QUAD/UNIT: <u>B</u> SEC: <u>23</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FDDTAGE: <u>NW14 NE14</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>5/18/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>24'</u> FT. x <u>29'</u> FT. x <u>20'</u> FT. DEEP.	CUBIC YARDAGE: <u>250</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>	
LAND USE: <u>RANGE</u> LEASE: <u>JIC 148</u> FORMATION: <u>PC/KK</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>170</u> FT. <u>NS7E</u> FROM WELLHEAD. 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 SOIL AND EXCAVATION DESCRIPTION:
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CHECK ONE :
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

MOSTLY PALE ORANGE TO MED. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED w/in EXCAVATION, STRONG HC ODOR w/in WEST SIDEWALL OVM SAMPLE ONLY,

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 15'	0.0
2 @ 15'	0.0
3 @ 14'	0.0
4 @ 15'	1874
5 @ 22'	0.0

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
④ @ 15'	TPH / BTEX	0930
	8015 / 8021	
BOTH PASSED		

TRAVEL NOTES:	CALLOUT: <u>5/12/98 - MORN.</u> ONSITE: <u>5/18/98 - MORN.</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:	4 @ 15'	Date Reported:	05-19-98
Laboratory Number:	D279	Date Sampled:	05-18-98
Chain of Custody No:	5900	Date Received:	05-18-98
Sample Matrix:	Soil	Date Extracted:	05-19-98
Preservative:	Cool	Date Analyzed:	05-19-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

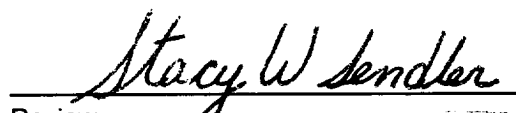
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	8.7	0.2
Diesel Range (C10 - C28)	84.3	0.1
Total Petroleum Hydrocarbons	93.0	0.2

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 148-20 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:	4 @ 15'	Date Reported:	05-19-98
Laboratory Number:	D279	Date Sampled:	05-18-98
Chain of Custody:	5900	Date Received:	05-18-98
Sample Matrix:	Soil	Date Analyzed:	05-19-98
Preservative:	Cool	Date Extracted:	05-19-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	26.6	8.8
Toluene	46.0	8.4
Ethylbenzene	634	7.6
p,m-Xylene	1,120	10.8
o-Xylene	961	5.2
Total BTEX	2,790	

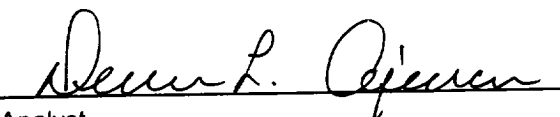
ND - Parameter not detected at the stated detection limit.

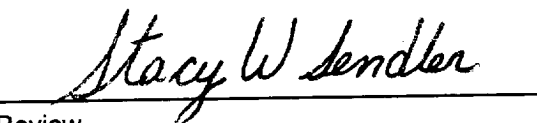
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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 Contract 148-20 Separator Pit.


Analyst


Review

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

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(505) 632-0615

35521

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

**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87523**

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 148-20
Location: Unit or Qtr/Qtr Sec B Sec 23 T 25N R 5W County RIO ARIZONA
Land Type: RANGE
Date Remediation Started: 1-27-98 Date Completed: 1-13-99
Remediation Method: Landfarmed ☒ Approx. cubic yards 500
Composted ☐
Other ☐

<p>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></p>	<p style="text-align: center;">Final Closure Sampling:</p> <p>Sampling Date: <u>1-11-99</u> Time: <u>0915</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>1.9</u> Method <u>80.5</u> Other <u> </u></p>
--	---

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

DATE 1/13/99 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. Shaw DATE: 3-31-99

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 85527C.D.C. NO: 6544

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: SICARILLA CONTRACT 48 WELL #: 20 PITS: BLOW
QUAD/UNIT: B SEC: 23 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: NW/4 NE/4 CONTRACTOR: P+SDATE STARTED: 1.11.99
DATE FINISHED: 1.13.99ENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 500LAND USE: RANGELIFT DEPTH (ft): 2'

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

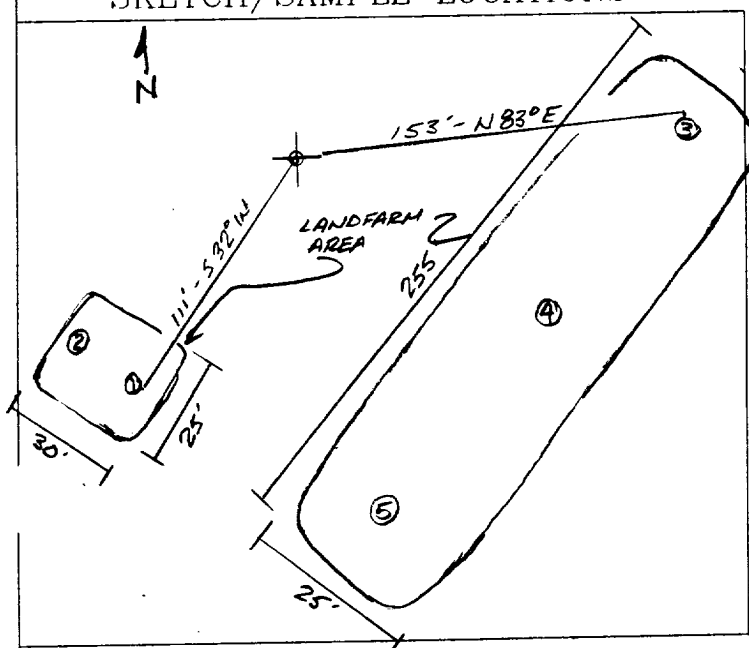
DK. YELLOW ORANGE TO LT. BROWN SAND. NON COHESIVE, SLIGHTLY MOIST, LOOSE
NO APPARENT STAINING, OR HC ODOR DETECTED SAMPLING DEPTHS RANGE FROM
6" - 18". TOOK A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

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 (BOLIS)	0915	1.9

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 1.11.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

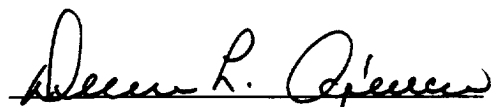
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-13-99
Laboratory Number:	E494	Date Sampled:	01-11-99
Chain of Custody No:	6544	Date Received:	01-12-99
Sample Matrix:	Soil	Date Extracted:	01-12-99
Preservative:	Cool	Date Analyzed:	01-13-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

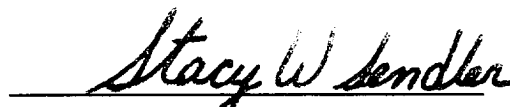
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.3	0.2
Diesel Range (C10 - C28)	0.6	0.1
Total Petroleum Hydrocarbons	1.9	0.2

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 148 - 20 Landfarm. 5 Pt. Composite.


Analyst


Review

6544

[illegible]