

George L. Fort
DEPUTY CLERK

001 0 8 1999

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

Blow - OK
8/5/98
Sep - OK

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

Approved
PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
AUG 24 1999
OIL CON. DIV.

DIST. 3 (505) 326-9200
Telephone:

Operator: AMOCO PRODUCTION COMPANY

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT 148 - Z

Location: Unit or Qtr/Qtr Sec I Sec 14 T 25N R 5W County RIO ARIZONA

Pit Type: Separator Dehydrator Other BLOW

Land Type: RANGE

Pit Location: Pit dimensions: length 25', width 20', depth 15'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 165'
Direction from reference: 13 Degrees X East 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) 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: 1/23/98

Remediation Method: Excavation ☒ Approx. cubic yards 175
Check all appropriate Insitu Bioremediation _____
sections) Landfarmed ☒
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 18' (PIT BOTTOM)

Sample date 1/22/98 Sample time 1200

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 1/23/98 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: Kore C. Mamm DATE: 2-6-98

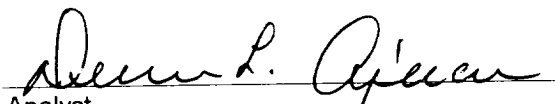
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 18'	Date Reported:	01-23-98
Laboratory Number:	C834	Date Sampled:	01-22-98
Chain of Custody No:	5709	Date Received:	01-23-98
Sample Matrix:	Soil	Date Extracted:	01-23-98
Preservative:	Cool	Date Analyzed:	01-23-98
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

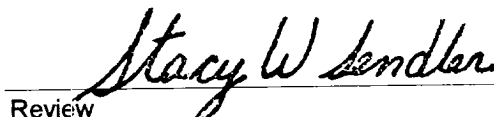
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

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 148-2 Blow Pit.


Analyst


Review

BJS 18

**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 148 -- 2

Location: Unit or Qtr/Qtr Sec I Sec 14 T 25N R 5W County RIO ARriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 40', width 38', depth 30'

Reference: wellhead ☒, other ☐

Footage from reference: 80'

Direction from reference: 3 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)	<u>0</u>
Greater than 100 feet	(0 points)	

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

BJS18

SEP. PIT

Date Remediation Started: _____ Date Completed: 1/23/98

Remediation Method: Excavation ☒ Approx. cubic yards 1,200
(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

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 33' (PIT BOTTOM)

Sample date 1/22/98 Sample time 1115

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>6.4</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 1/23/98 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. Mamm DATE: 2-6-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8JS18</u> C.O.C. NO: <u>5709</u>
----------------------	--	---

FIELD REPORT: CLOSURE VERIFICATION

LOCATION: NAME: <u>TICA CONTR. 148</u> WELL #: <u>2</u> PIT: <u>SEP.</u>	PAGE No: <u>1</u> of <u>1</u>
QUAD/UNIT: <u>I SEC: 14 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM</u>	DATE STARTED: <u>1/22/98</u> DATE FINISHED: _____
DATE/FOOTAGE: <u>NE/4 SE/4</u> CONTRACTOR: <u>P & S</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>40</u> FT. x <u>38</u> FT. x <u>30</u> FT. DEEP.	CUBIC YARDAGE: <u>1,200</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>	
LAND USE: <u>RANGE</u> LEASE: <u>TICA 148</u> FORMATION: <u>PC</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>80</u> FT. <u>N3E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	
NMOCD BANKING SCORE: <u>0</u> NMOCD 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

SOIL MOSTLY MOD. TO DR. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED W/IN EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.

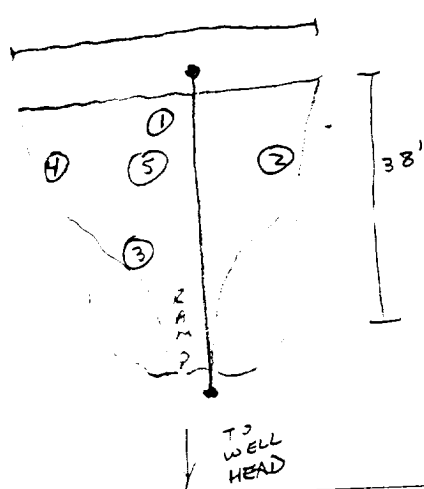
CLOSED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER



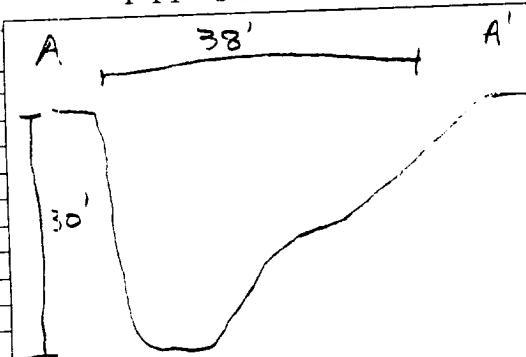
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 25'	0.0
2 @ 25'	0.0
3 @ 23'	0.0
4 @ 24'	0.0
5 @ 33'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 33'	TPH (418.1)	1115
	PASSED	

PIT PROFILE



TRAVEL NOTES:

CALLOUT: NA

ONSITE: 1/22/98 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 33'	Date Reported:	01-23-98
Laboratory Number:	C833	Date Sampled:	01-22-98
Chain of Custody No:	5709	Date Received:	01-23-98
Sample Matrix:	Soil	Date Extracted:	01-23-98
Preservative:	Cool	Date Analyzed:	01-23-98
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

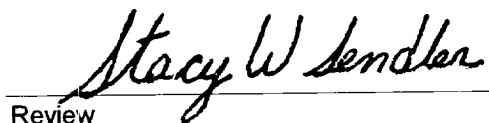
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	6.4	5.0

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 148-2 Separator Pit.


Analyst


Review

Client/Project Name			Project Location			ANALYSIS/PARAMETERS									
BAGE/Amoco			JKAQUA CONTRACT 148-2												
Sampler (Signature)			Chain of Custody Tape No.			No. of Containers				Remarks					
John Vel						TPH (418.1)				COPY SAMPLES PRESERV. - COOL SEPARATOR P/T					
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
(5) e 33'	11/22/98	1115	C833	SOIL	1	✓									
(5) e 18'	11/22/98	1200	C834	SOIL	1	✓									Blow PIT
						SAMPLES RECEIVED			COOL & IMPACT			DUMP			
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time						
John Vel			11/23/98	0710	Diana J. Capen			1-23-98	0200						
Relinquished by: (Signature)															
Relinquished by: (Signature)															

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

B5518
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**

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 148-2
Location: Unit or Qtr/Qtr Sec 1 Sec 14 T 25N R 5W County RIO ARriba
Land Type: RANGE
Date Remediation Started: 1-22-98 Date Completed: 11/12/99
Remediation Method: Landfirmed ✓ Approx. cubic yards _____
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

Final Closure Sampling:
Sampling Date: 1-7-99 Time: 1130
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) 6.8 Method 8015
Other _____

RANKING SCORE (TOTAL POINTS): 0

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

DATE 11/12/99 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 X NO _____ (REASON) _____

SIGNED: K. C. Mank DATE: 3-31-99

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: B551BC.O.C. NO: 0538

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARILLA CONTRACT 148 WELL #: 2 PITS: SEP. 1 BLOW
QUAD/UNIT: 1 SEC: 14 TWP: 25N RNG: SW PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: NE/4 SE/4 CONTRACTOR: _____DATE STARTED: 1.7.99DATE FINISHED: 1/12/99ENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 275LAND USE: RANGELIFT 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

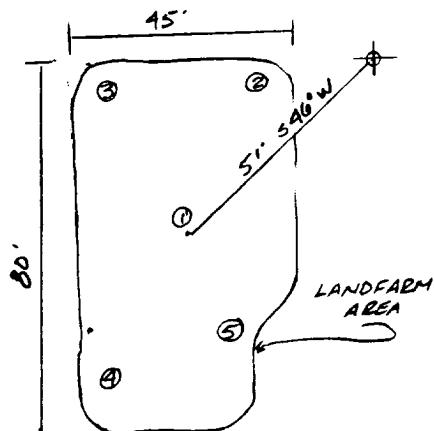
DK. YELLOW ORANGE TO LT. BROWN SAND. NON COHESIVE, SLIGHTLY MOIST, FIRM
NO STAINING OBSERVED. NO H.C. ODOOR DETECTED. SAMPLING DEPTHS RANGE FROM
6" TO 18". TOOK A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS.

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

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH 18015'	1130	6.8

SCALE



0

FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 1.7.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

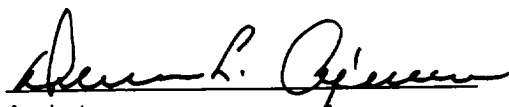
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-11-99
Laboratory Number:	E483	Date Sampled:	01-07-99
Chain of Custody No:	6538	Date Received:	01-08-99
Sample Matrix:	Soil	Date Extracted:	01-11-99
Preservative:	Cool	Date Analyzed:	01-11-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.3	0.2
Diesel Range (C10 - C28)	1.5	0.1
Total Petroleum Hydrocarbons	6.8	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 - 2 Landfarm. 5 Pt. Composite.


Analyst


Review

538

[illegible]