B0795

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

Blow Drain & Rockbed Pit

MAY 2001

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: DAY # 2E

Location: Unit or Qtr/Qtr Sec I Sec 8 T 29N R 8W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other ABANDONED BLOW

Land Type: BLM ✓, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 23', width 36', depth 5'
Reference: wellhead X, other ___
Footage from reference: 99'
Direction from reference: 6 Degrees ✓ East North ___ of ___ West South ✓

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	10
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)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	10

B0795 ABAN. BLOW

Date Remediation Started: _____ **Date Completed:** 9/21/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 140

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NYE GC B FIE (E-7-29-9)

TRANSPORTED TO CROUCH MESA · 3/01. NV

General Description Of Remedial Action:

Excavation, BEDROCK BOTTOM. RISK ASSESSED.

Ground Water 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 3' (WEST SIDEWALL)

Sample date 9/20/00 Sample time 1045

Sample Results

Benzene(ppm) 0.0417

Total BTEX(ppm) 0.0533

Field headspace(ppm) 114.1 / PIT BOTTOM 614

TPH 543 ppm

Ground Water 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 9/21/00

SIGNATURE BJ Shaw

PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

30045249/4

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80795 C.O.C. NO: 7496

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: DAY WELL #: 1E PIT: ABAN. BLOW
QUAD/UNIT: I SEC: 8 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1750'S/1000'E NESE CONTRACTOR: FLINT

DATE STARTED: 9/20/00
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NU

EXCAVATION APPROX. 23 FT. x 36 FT. x 5 FT. DEEP. CUBIC YARDAGE: 140
DISPOSAL FACILITY: NVE GC B1E (E-7-29-9) REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: SF-078414 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 99 FT. 56E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. 53.2 ppm
TIME: 0810 am/pm 9/20/00

SIDEWALLS - OR. YELL. ORANGE SAND (SANDSTONE COLLECTED FROM NORTH SIDEWALL), NON COHESIVE, SLIGHTLY MOIST, FIRM TO DENSE, MED. DK. GRAY DISCOLORATION (COLLECTED FOR OVM READING) ON WEST SIDEWALL, STRONG HC ODOR IN WEST SIDEWALL OVM SAMPLE ONLY.

BOTTOM - BEDROCK (SANDSTONE), MOSTLY MED. TO MED. DK. GRAY, VERY HARD, STRONG HC ODOR IN OVM SAMPLE.

BEDROCK BOTTOM (55)

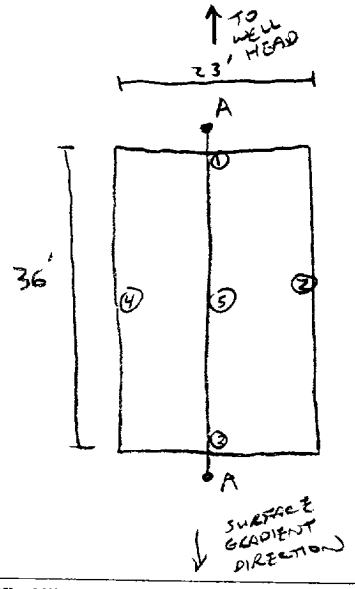
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1045							

SCALE
0 FT

PIT PERIMETER



N

OVM RESULTS

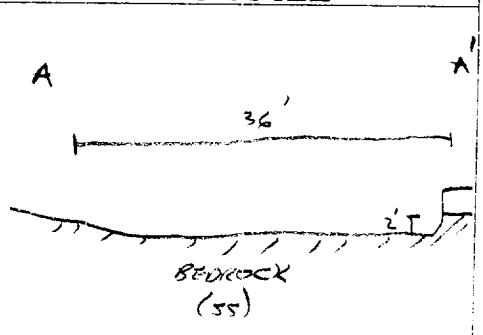
SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1 @ 3'	0.0	RK
2 @ 3'	0.0	
3 @ 3'	0.0	
4 @ 3'	114.1	
5 @ 5'	614	RK

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4 @ 3'	TPH (8015)	1045
"	BTEX (8021)	"

BOTH PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 9/20/00 - MORN. ONSITE: 9/20/00 - MORN.

Well Name:	**Day #2E**
Well Site location:	Unit I, Sec. 8, T29N, R8W
Pit Type:	Abandoned Blow Pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	< 100 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when backhoe encountered competent sandstone bedrock at 5 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 the relatively shallow sandstone bedrock. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below the 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 (abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.

4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per US EPA Method 8021 concentrations. Listed below are several typical and formerly owned BP AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	**1100**	**0.011**	**5.889**
Berger A 1	**482**	**0.084**	**0.681**
Mudge Com B 1E	**684**	**0.017**	**16.438**
L.C. Kelly 5	**1235**	**0.643**	**13.908**

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface vertical impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to BP AMOCO's (formerly Amoco Production Company) report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). BP AMOCO therefore request 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 / BP	Project #:	403410
Sample ID:	4 @ 3'	Date Reported:	09-21-00
Laboratory Number:	18197	Date Sampled:	09-20-00
Chain of Custody No:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Extracted:	09-20-00
Preservative:	Cool	Date Analyzed:	09-21-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**264**	**0.2**
Diesel Range (C10 - C28)	**162**	**0.1**
Total Petroleum Hydrocarbons	**426**	**0.1**

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: **Day #2E Abandoned Blow Pit.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	403410
Sample ID:	4 @ 3'	Date Reported:	09-21-00
Laboratory Number:	18197	Date Sampled:	09-20-00
Chain of Custody:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Analyzed:	09-21-00
Preservative:	Cool	Date Extracted:	09-20-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.0	1.8
Toluene	42.0	1.7
Ethylbenzene	45.9	1.5
p,m-Xylene	248	2.2
o-Xylene	201	1.0
Total BTEX	543	

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: **Day # 2E Abandoned Blow Pit.**

Analyst

Review

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80795

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P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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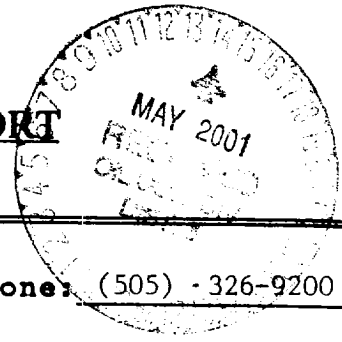


PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: DAY #7E

Location: Unit or Qtr/Qtr Sec I Sec 8 T 29N R 8W County SAN JUAN

Pit Type: Separator ___ Dehydrator ABANDONED ✓ Other ___

Land Type: BLM ✓, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 19', width 17', depth 5'
Reference: wellhead X, other ___
Footage from reference: 70'
Direction from reference: 8 Degrees ___ East ✓ North ___ of ___ West ___ South

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	10
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)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	10

B0795 ABAN. DEHY.

Date Remediation Started: _____ **Date Completed:** 9/21/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 50

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NYE GC B #1E (E-7-29-9)

TRANSPORTED TO CROUCH MESA. 3/01. NS

General Description Of Remedial Action:

Excavation. BEDROCK BOTTOM. RISK ASSESSED.

Ground Water 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 2' (WEST SIDEWALL)

Sample date 9/20/00 Sample time 0925

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.158

Field headspace(ppm) 204.2 / 1,609 (SOUTH SIDEWALL (BEDROCK))

TPH 53.3

Ground Water 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 9/21/00

SIGNATURE BJ Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80795
C.O.C. NO: 7496

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: DAY WELL #: 2E PIT: ABAN. DEHY
QUAD/UNIT: I SEC: 8 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1750'S/1000'E NESE CONTRACTOR: FLINT

DATE STARTED: 9/20/00
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 19 FT. x 17 FT. x 5 FT. DEEP. CUBIC YARDAGE: 50
DISPOSAL FACILITY: NYE GC BIE (E-7-29-9) REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: SF-078414 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 70 FT. N8E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
- ✓ PIT ABANDONED
- ___ STEEL TANK INSTALLED
- ___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 53.2 ppm
TIME: 0810 am/pm 9/20/00

SOIL AND EXCAVATION DESCRIPTION:

SOIL - MOD. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC ODOR IN WEST SIDEWALL OVM SAMPLE, NO APPARENT DISCOLORATION OBSERVED.
EAST & SOUTH SIDEWALL OVM SAMPLES COLLECTED FROM BEDROCK (SILTSTONE) - DUSKY BROWN

BOTTOM - BEDROCK (SANDSTONE), PALE YELL. BROWN, VERY HARD, HC ODOR DETECTED IN OVM SAMPLE.

BEDROCK BOTTOM (5')

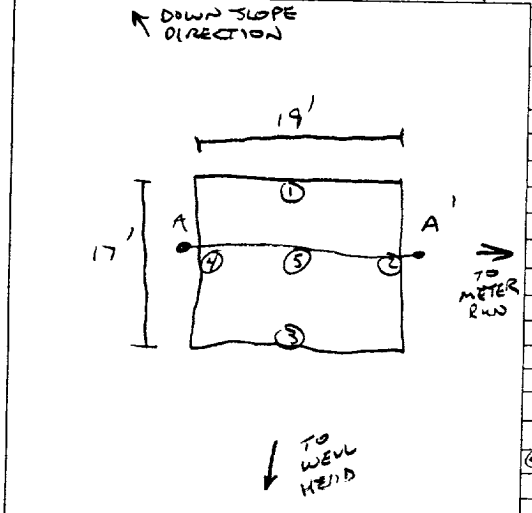
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0925							

SCALE
0 FT

PIT PERIMETER



OVM RESULTS

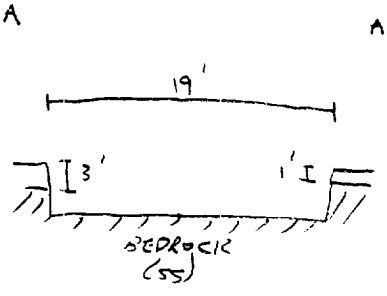
SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1 @ 2'	0.0	
2 @ 2'	81.5	BK
3 @ 2'	1609	BK
4 @ 2'	204.3	
5 @ 5'	129.2	BK

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4@2'	TPH (8015)	0925
"	BTEX (8021)	"

BOTH PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 9/20/00 - MORN. ONSITE: 9/20/00 - MORN.

Well Name:	**Day #2E**
Well Site location:	Unit I, Sec. 8, T29N, R8W
Pit Type:	Abandoned Dehydrator Pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	< 100 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when backhoe encountered competent sandstone bedrock at 5 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 the relatively shallow sandstone bedrock. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below the 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 (abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.

4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per US EPA Method 8021 concentrations. Listed below are several typical and formerly owned BP AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	**1100**	**0.011**	**5.889**
Berger A 1	**482**	**0.084**	**0.681**
Mudge Com B 1E	**684**	**0.017**	**16.438**
L.C. Kelly 5	**1235**	**0.643**	**13.908**

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface vertical and lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to BP AMOCO's (formerly Amoco Production Company) report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). BP AMOCO therefore request 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 / BP	Project #:	403410
Sample ID:	4 @ 2'	Date Reported:	09-21-00
Laboratory Number:	18198	Date Sampled:	09-20-00
Chain of Custody No:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Extracted:	09-20-00
Preservative:	Cool	Date Analyzed:	09-21-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**41.7**	**0.2**
Diesel Range (C10 - C28)	**11.6**	**0.1**
Total Petroleum Hydrocarbons	**53.3**	**0.1**

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: **Day #2E Abandoned Dehydrator Pit.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	403410
Sample ID:	4 @ 2'	Date Reported:	09-21-00
Laboratory Number:	18198	Date Sampled:	09-20-00
Chain of Custody:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Analyzed:	09-21-00
Preservative:	Cool	Date Extracted:	09-20-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**26.3**	**1.5**
p,m-Xylene	**73.3**	**2.2**
o-Xylene	**58.1**	**1.0**
Total BTEX	**158**	

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: **Day # 2E Abandoned Dehydrator Pit.**

Analyst

Review

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OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: DAY # 2E

Location: Unit or Qtr/Qtr Sec I Sec 8 T29N R8W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other ABANDONED PRODUCTION TANK

Land Type: BLM ✓, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 18', width 17', depth 8'
Reference: wellhead X, other ___
Footage from reference: 129'
Direction from reference: 54 Degrees ___ East North ✓ of ✓ West South ___

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	10
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)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	10

B0795 ABAN. PROD. TANK

Date Remediation Started: _____ **Date Completed:** 9/21/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 80

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NYE GC B #1E (E-7-29-9)

TRANSPORTED TO CROUCH MESA 3/01.

General Description Of Remedial Action:

Excavation. BEDROCK BOTTOM. RISK ASSESSED. DUPLICATE SAMPLE COLLECTED FROM NORTH SIDEWALL (① @ 4') FOR LAB QA/QC - SEE CHAIN OF CUSTODY # 7497 (FAKE WELL NAME GIVEN - DAY # 2.0).

Ground Water 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 4' (NORTH SIDEWALL)

Sample date 9/20/00 Sample time 0950

Sample Results

Benzene(ppm) 0.295

Total BTEX(ppm) 6.730

Field headspace(ppm) 2223 / 3217 (PIT BOTTOM)

TPH 2,630 ppm

Ground Water 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 9/21/00

SIGNATURE BJ Shaw

PRINTED NAME AND TITLE Buddy D. Shaw, Environmental Coordinator

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B0795
C.O.C. NO: 7496 7497

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: ODY WELL #: 2E PIT: ABAN. PROD. TANK
QUAD/UNIT: I SEC: 8 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1750'S / 1000'E NESE CONTRACTOR: FLINT

DATE STARTED: 9/20/00
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 18 FT. x 17 FT. x 8 FT. DEEP. CUBIC YARDAGE: 80
DISPOSAL FACILITY: ME GC BIE (E-7-29-9) REMEDIATION METHOD: composted
LAND USE: RANGE LEASE: SF-078414 FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 129 FT. N54W FROM WELLHEAD
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 53.2 ppm
TIME: 0810 am/pm 9/20/00

SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - MOSTLY MOD. YELL. BROWN SAND NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OBSERVED, STRONG HC ODOR IN NORTH & WEST SIDEWALL OVM SAMPLES

BOTTOM - BEDROCK (SANDSTONE), LT. MED. GRAY, VERY HARD, STRONG HC ODOR IN OVM SAMPLE.

BEDROCK BOTTOM (55)

RISK ASSESSED

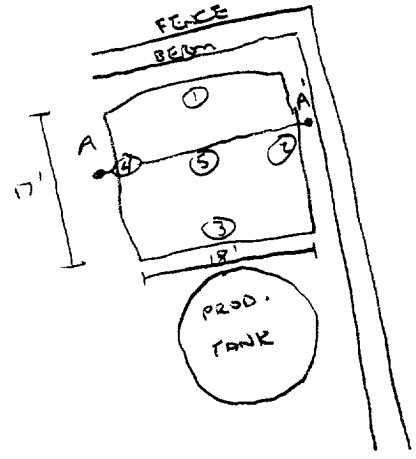
DUPLICATE COLLECTED @ ① @ 4' (COC # 7497)

SCALE
0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0950							

PIT PERIMETER



OVM RESULTS

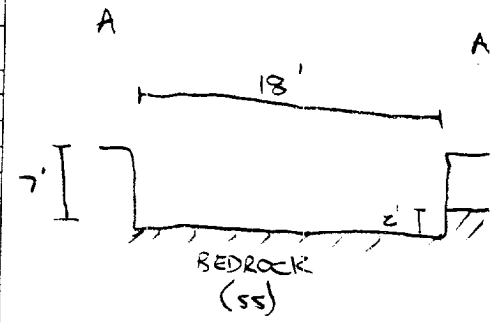
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	2223
2 @ 4'	16.6
3 @ 3'	0.0
4 @ 5'	816
5 @ 7'	3,217

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 4'	TPH (8015)	0950
"	BTEX (8021)	"

TPH - FAILED
BTEX - PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 9/20/00 - MORN. ONSITE: 9/20/00 - MORN.

Well Name:	**Day #2E**
Well Site location:	Unit I, Sec. 8, T29N, R8W
Pit Type:	Abandoned Production Tank Pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	< 100 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when backhoe encountered competent 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 the relatively shallow sandstone bedrock. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below the 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 (abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.

Based upon the information given, we conclude that the subsurface vertical and lateral total petroleum hydrocarbons (TPH) impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to BP AMOCO's (formerly Amoco Production Company) report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). BP AMOCO therefore request 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 / BP	Project #:	403410
Sample ID:	1 @ 4'	Date Reported:	09-21-00
Laboratory Number:	18199	Date Sampled:	09-20-00
Chain of Custody No:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Extracted:	09-20-00
Preservative:	Cool	Date Analyzed:	09-21-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2,580**	**0.2**
Diesel Range (C10 - C28)	**51.1**	**0.1**
Total Petroleum Hydrocarbons	**2,630**	**0.1**

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: **Day #2E Abandoned Production Tank Pit.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	403410
Sample ID:	5 @ 10'	Date Reported:	09-21-00
Laboratory Number:	18201	Date Sampled:	09-20-00
Chain of Custody No:	7497	Date Received:	09-20-00
Sample Matrix:	Soil	Date Extracted:	09-20-00
Preservative:	Cool	Date Analyzed:	09-21-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1,730**	**0.2**
Diesel Range (C10 - C28)	**31.9**	**0.1**
Total Petroleum Hydrocarbons	**1,760**	**0.1**

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: **Day #2D Abandoned Pit (I).**

DAY #2E - PRODUCTION TANK PIT DUPLICATE. 3/5

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	403410
Sample ID:	1 @ 4'	Date Reported:	09-21-00
Laboratory Number:	18199	Date Sampled:	09-20-00
Chain of Custody:	7496	Date Received:	09-20-00
Sample Matrix:	Soil	Date Analyzed:	09-21-00
Preservative:	Cool	Date Extracted:	09-20-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**295**	**1.8**
Toluene	**719**	**1.7**
Ethylbenzene	**473**	**1.5**
p,m-Xylene	**3,190**	**2.2**
o-Xylene	**2,050**	**1.0**
Total BTEX	**6,730**	

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: **Day # 2E Abandoned Production Tank Pit.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	403410
Sample ID:	5 @ 10'	Date Reported:	09-21-00
Laboratory Number:	18201	Date Sampled:	09-20-00
Chain of Custody:	7497	Date Received:	09-20-00
Sample Matrix:	Soil	Date Analyzed:	09-21-00
Preservative:	Cool	Date Extracted:	09-20-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**231**	**1.8**
Toluene	**570**	**1.7**
Ethylbenzene	**465**	**1.5**
p,m-Xylene	**2,010**	**2.2**
o-Xylene	**1,860**	**1.0**
Total BTEX	**5,140**	

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: **Day # 2D Abandoned Pit (I).**

DAY #2E - PRODUCTION TANK PIT DUPLICATE. QNS

Analyst

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