

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: SCHWERTFEEGER A ZX
Well Name
Location: Unit or Qtr/Qtr Sec D Sec 31 T 28N R 8W County SAN JUAN
Pit Type: Separator Dehydrator Other PRODUCTION TANK
Land Type: BLM X, State , Fee , Other

Pit Location: Denny S. Test Pit dimensions: length 8', width 10', depth 4'
(DEPUTY OIL & GAS INSPECTOR)
Reference: wellhead X, other
DEC 11 9 1996
Footage from reference: 135'

Direction from reference: 85 Degrees X East North
of
 West South X

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) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 8/3/94

Remediation Method: Excavation ☒ Approx. cubic yards 6
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water 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 4'
Sample date 8/3/94 Sample time 1030

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.0

TPH 52 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 8/3/94

SIGNATURE

Buddy D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

LOCATION NO: 60039

PAGE No: 1 of 1

ENVIRONMENTAL
SPECIALIST. NV

SOIL REMEDIATION: EXCAVATION APPROX. 8 FT. x 10 FT. x 4 FT. DEEP.
DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YARDAGE: 6
LAND USE: RANGE LEASE: SF-079319

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FEET 585E FROM WELLHEAD
DEPTH TO GROUNDWATER: 1100 NEAREST WATER SOURCE: 21000 NEAREST SURFACE WATER: 21000
NMOC RANKING SCORE: 10 NMOC TPH CLOSURE STD: 1000 PPM FORMATION: OK.

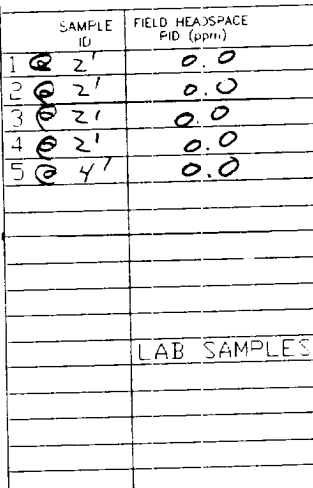
DR. YELL. BROWN SAND, NON-COHESIVE, DRY TO SLIGHTLY MOIST,
FIRM, NO APPARENT HC ODOR.

FIELD 4181 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5041	TPH-1054	5	20	1:1	13	52

[illegible]

PIT PERIMETER

PIT PROFILE



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 @ 4'	Date Analyzed:	8-03-94
Project Location:	Schwerdtfeger A 2 X	Date Reported:	8-03-94
Laboratory Number:	TPH-1054	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	52	20

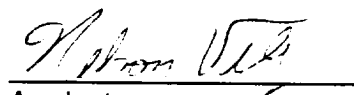
ND = Not Detectable at stated detection limits.

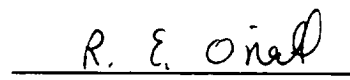
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	978	938	4.18

*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: Production Tank Pit - B0039


Analyst


Review

10

Date Remediation Started: _____ Date Completed: 8/26/94

Remediation Method: Excavation ☒ Approx. cubic yards 1950
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

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

Sample depth 22'

Sample date 8-26-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1197

TPH 1400 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 8/26/94

SIGNATURE Buddy D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80039</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 2

LOCATION: NAME: SCHWERTFAGER WELL #: A 2X PIT: SEP
QUAD/UNIT: D SEC: 31 TWP: 28N RNG: 8W PM: Nm CNTY: 55 ST: Nm
QTR/FOOTAGE: NW1/4 NW1/4 CONTRACTOR: P. VELASQUEZ

DATE STARTED: 8/3/94
DATE FINISHED: 8/26/94

ENVIRONMENTAL SPECIALIST: NU

SOIL REMEDIATION: EXCAVATION APPROX. 15' FT. x 15' FT. x 8' FT. DEEP.
DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YARDAGE: 42
LAND USE: RANGE LEASE: SF - 079319

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 95 FEET N48E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM FORMATION: DK

SOIL AND EXCAVATION DESCRIPTION:

OK. YELL. BROWN SAND, NON-COHESIVE, DRY TO SLIGHTLY
MOIST, FIRM TO DENSE, STRONG HC ODOR IN
SOUTH SIDEWALL OUM, SAMPLE.

ORIGINAL
EXCAVATION
SEE PG. 2 FOR
ACTUAL PIT
DIMENSIONS.

FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
① @ 5'	TPH-1053	5	20	1:1	389	1556

SCALE

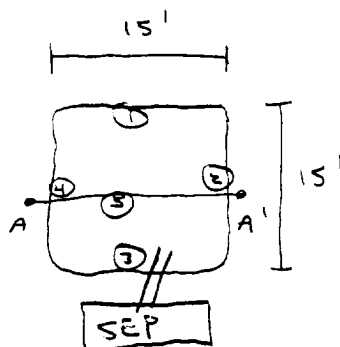
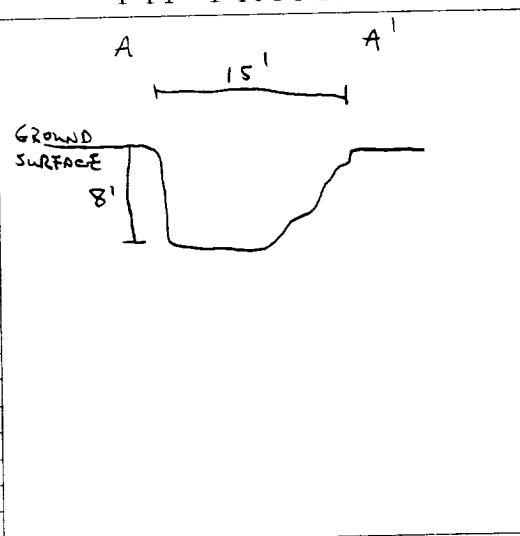


0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES: CALLOUT: 8/1/94 ONSITE: 8/3/94

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80039 C.D.C. NO:
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FIELD REPORT: CLOSURE VERIFICATION

LOCATION: NAME: SCHWERTFEGER WELL #: AZX PIT: SEP QUAD/UNIT: D SEC: 31 TWP: 28N RANG: 8W PM: NW CNTY: ST NM QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P. VELASQUEZ	PAGE No: 2 of 2 DATE STARTED: 8/3/94 DATE FINISHED: 8/26/94 ENVIRONMENTAL SPECIALIST: NV
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SOIL REMEDIATION: EXCAVATION APPROX. 38 FT. x 53 FT. x 26 FT. DEEP.

DISPOSAL FACILITY: ON-SITE CUBIC YARDAGE: 1950

LAND USE: RANGE LEASE: SF-

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 95 FEET N40E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 400' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPM FORMATION: DK

SOIL AND EXCAVATION DESCRIPTION:
MED GRAY TO BLACK (BOTTOM) SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC ODOR IN NORTH + SOUTH SIDEWALLS + BOTTOM OUM SAMPLES. BOTTOM CONSIST OF HARD SANDSTONE AT VARIOUS DEPTHS (SEE PIT PROFILE). NORTH SIDEWALL HC CONTAMINATION MAY HAVE RESULTED FROM DRIP PIT NEARBY SALE'S LINE + METER HOUSE.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
3@22'	TPH-1097	5	20	1:1	338	1352

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm.)
1 @ 21'	1088
2 @ 20'	129.3
3 @ 22'	119
4 @ 22'	252
5 @ 26'	1491

PIT PROFILE

TRAVEL NOTES: CALLOUT: 8/26/94 ONSITE: 8/26/94

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:	3 @ 5'	Date Analyzed:	8-03-94
Project Location:	Schwerdtfeger A 2 X	Date Reported:	8-03-94
Laboratory Number:	TPH-1053	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,600	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	978	938	4.18

*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: Separator Pit - B0039

William VTB
Analyst

R. E. O'Neil
Review

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
Sample ID: 3 @ 22'
Project Location: Schwerdtfeger A 2 X
Laboratory Number: TPH-1098

Project #:
Date Analyzed: 8-26-94
Date Reported: 8-26-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,400	20

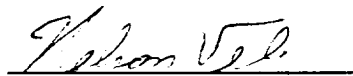
ND = Not Detectable at stated detection limits.

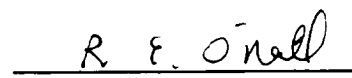
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	104	92	11.54

*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: Separator Pit - B0039


Analyst


Review

District I

O. Box 1980, Hobbs, NM

District II

O. Drawer DD, Artesia, NM 88211

District III

100 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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: SCHWEDTFEGER A 2X
Well Name
Location: Unit or Qtr/Qtr Sec D sec 31 T28N R9W County SAN JUAN
Pit Type: Separator Dehydrator Other BLOW
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 23', width 65', depth 16'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 62'
Direction from reference: 35 Degrees X East North
of
 West South X

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

Date Remediation Started: _____ Date Completed: 8/26/94

Remediation Method: Excavation ☒ Approx. cubic yards 885
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water 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 8/26/94 Sample time 0850

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 86.4

TPH 28 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 8/26/94

SIGNATURE B. D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0039</u> C.B.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: SCHWERTFEGER WELL #: A 2X PIT: BLOW
QUAD/UNIT: D SEC: 31 TWP: 28N RNG: 9W PM: NM CNTY: JT ST: NM
QTR/FOOTAGE: NW/4 NW/4 CONTRACTOR: P. VELASQUEZ

DATE STARTED: 8/26/94
DATE FINISHED: 8/26/94

ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION: EXCAVATION APPROX. 23 FT. x 65 FT. x 16 FT. DEEP.
DISPOSAL FACILITY: ON-SITE CUBIC YARDAGE: 885
LAND USE: RANGE LEASE: SF-079319

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 62 FEET S35E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM FORMATION: OK

SOIL AND EXCAVATION DESCRIPTION:

DIS. VELL. ORANGE TO OLIVE GRAY SAND, NON-COHESIVE, SLIGHTLY
MOIST, FIRM, SLIGHT HC OOR IN BOTTOM OVM SAMPLE.
HEAD SANDSTONE AT BOTTOM OF PIT

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	ml. FREON	DILUTION	READING	CALC. ppm
⑤ @ 16'	TPH-1057	5	20	1:1	7	28

0850

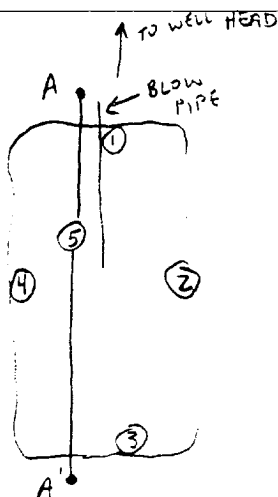
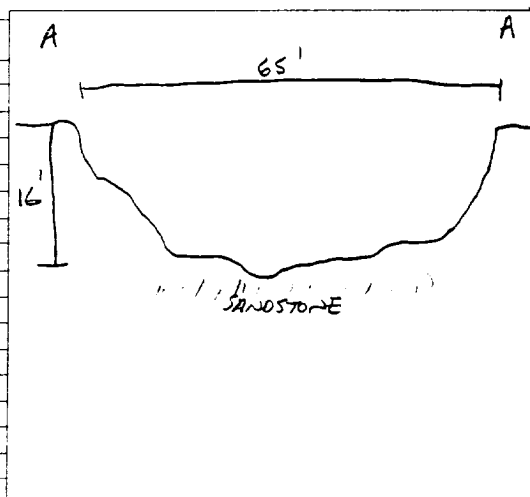
SCALE

0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES:

CALLOUT: 8/26/94

ON SITE: 8/26/94

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:	8-26-94
Project Location:	Schwerdtfeger A 2 X	Date Reported:	8-26-94
Laboratory Number:	TPH-1097	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	28	20

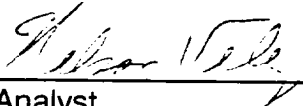
ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	104	92	11.54

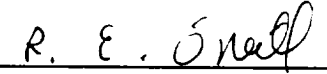
*Administrative Acceptance limits set at 30%.

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

Comments: Blow Pit - B0039



Analyst



Review