

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 - risk below
Sep - risk below 80083

PIT REMEDIATION AND CLOSURE REPORT

Denied 12/19/96 due to TITANTEX

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: P.O. PUPKUN # 3
Well Name
Location: Unit or Qtr/Qtr Sec A Sec 17 T27N R10W County SAN JUAN
Pit Type: Separator Dehydrator other BLOW
Land Type: BLM X, State, Fee, Other

Pit Location: Pit dimensions: length 50', width 40', depth 16'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 180
Direction from reference: 60 Degrees East North X
of
X West South

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points) 15
50 feet to 99 feet (10 points) 0
Greater than 100 feet (0 Points) 20

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):

15 0
20

Date Remediation Started: _____ Date Completed: 9-8-94

Remediation Method: Excavation X Approx. cubic yards 900
 (Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
 Other Compost

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

General Description Of Remedial Action: _____

Excavation - IN TO BEDROCK RISK ASSESSED

Ground Water Encountered: No X 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 10-16' COMPOSITE

Sample date 9-8-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 493-573

TPH 4700 ppm

Ground Water Sample: Yes _____ No X (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 4/13/94 5/25/98 MS

SIGNATURE B. 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>B0083</u> C.O.C. NO: _____
----------------------	--	---

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>P.O. Pipkin</u>	WELL #: <u>3</u>	PIT: <u>BLOW</u>	DATE STARTED: <u>9-8-94</u>
QUAD/UNIT: <u>A</u>	SEC: <u>17</u>	TWP: <u>27N</u>	RNG: <u>10W</u>
BM: <u>NM</u>		CNTY: <u>SJ</u>	ST: <u>NM</u>
QTR/FOOTAGE: <u>NE/4</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>JCS</u>	

SOIL REMEDIATION: EXCAVATION APPROX. 40 FT. x 50 FT. x 16 FT. DEEP.
 DISPOSAL FACILITY: ON SITE LANDFILL + COMPOST CUBIC YARDAGE: 900 ±
 LAND USE: BLM RANGELAND LEASE: SF-077875

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 180' FEET N60°W FROM WELLHEAD.
 DEPTH TO GROUNDWATER: 18' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOC D RANKING SCORE: 20 NMOC D TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: BLOW SAND OVER BURDEN FROM SURFACE TO 8'
SHALE BEDROCK FROM 8' TO 16' DEPTH.
RAMP INTO PIT FROM EAST SIDE.

- CONDITIONAL CLOSURE 41U

RISK ASSESSED

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
Composite	1122	10.0	20.0	10x	237	4740
①, ②, ⑤						

SCALE

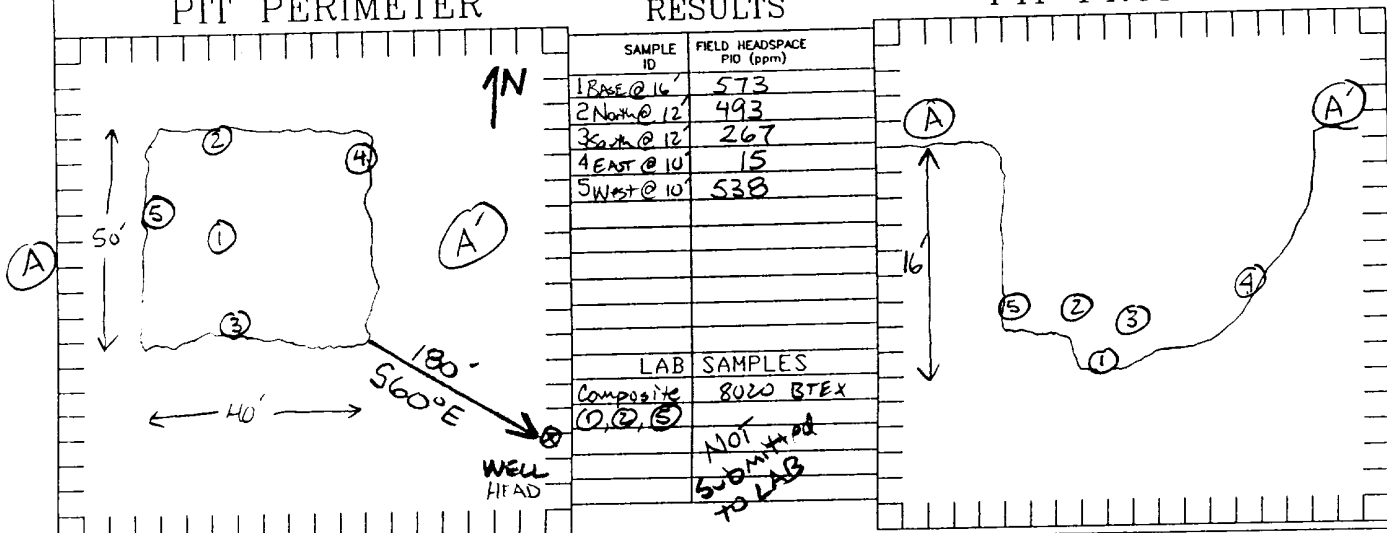


0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 11:00 AM 9-8-94 ONSITE: 1330 9-8-94

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Pipkin P.O. #3

Unit A. Sec. 17. T27N, R10W

Blow Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 16 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 shale bedrock located 16 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale 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 0.03 miles northeast of the nearest vulnerable area boundary (East Fork Kutz wash).

(Refer to East Fork Kutz Canyon Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), provisional edition 1985, (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 shale 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.

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:	Composite of N,W,B @ 12-16'	Date Analyzed:	9-08-94
Project Location:	P.O. Pipkin 3	Date Reported:	9-08-94
Laboratory Number:	TPH-1122	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	4,700	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	440	450	2

*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 - B0083

J. C. Blagg
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 TPH-Worksheet

Max Characters:

Client:

Amoco

Project #:

Sample ID:

Composite of N,W,B @ 12-16'

Date Analyzed:

9-08-94

Project Location:

P.O. Pipkin 3

Date Reported:

9-08-94

Laboratory Number:

TPH-1122

Sample Matrix:

Soil

Sample Weight: 10.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 10 (unitless)
TPH Reading: 237 mg/kg

TPH Result: 4740.0 mg/kg
Reported TPH Result: 4700.0 mg/kg
Actual Detection Limit: 100.0 mg/kg
Reported Detection Limit 100 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

440

450

2

Comments:

*****Max Characters*****

Comments:

Blow Pit - B0083

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

80083
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: P.O. PIPKIN # 3
Well Name _____
Location: Unit or Qtr/Qtr Sec A Sec 17 T 27N R 10W County SAN JUAN
Pit Type: Separator X Dehydrator _____ Other _____
Land Type: BLM X, State _____, Fee _____, Other _____

Pit Location: Pit dimensions: length 30', width 20', depth 9'
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: 110
Direction from reference: 15 Degrees X East North X
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) 20
50 feet to 99 feet (10 points) 0
Greater than 100 feet (0 Points) 20

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): 20

Date Remediation Started: _____ Date Completed: 9-12-94

Remediation Method: Excavation X Approx. cubic yards 200
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other COMPOST

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

General Description Of Remedial Action: _____

Excavation - INTO BEDROCK RISK ASSESSEDGround Water Encountered: No X 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 9'Sample date 9-12-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 557TPH 7680 ppmGround Water Sample: Yes _____ No X (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 9/13/94 5/25/98 RVSIGNATURE B. Shaw PRINTED NAME AND TITLEBuddy D. Shaw
Environmental Coordinator

RESULTS to JOHANNY 9-12-94 RLO

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80083</u> C.O.C. NO: <u>—</u>
----------------------	--	--

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>P.O. PIPKIN</u>	WELL #: <u>3</u>	PIT: <u>SEP.</u>	DATE STARTED: <u>9-12-94</u>
QUAD/UNIT: <u>A</u>	SEC: <u>17</u>	TWP: <u>27N</u> RNG: <u>10W</u> BM: <u>Nm</u> CNTY: <u>SJ</u> ST: <u>Nh</u>	DATE FINISHED: _____
GTR/FOOTAGE: <u>NE/4 NE/4</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>RF0</u>	

SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 30 FT. x 9 FT. DEEP.
DISPOSAL FACILITY: ON SITE - COMPOST CUBIC YARDAGE: 200
LAND USE: RANGE LEASE: FED. LSE # SF - 077875

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 110° FEET N15°E FROM WELLHEAD
DEPTH TO GROUNDWATER: 250' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'
NMOC BANKING SCORE: 20 NMOC TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT EXCAVATED INTO SANDSTONE BED ROCK. CONTAMINATION APPEARS TO BE BLEEDING FROM SIDE WALLS. ALL LOOSE MATERIAL REMOVED. SIDEWALL STAIN + ODOR APPARENT.

Risk Assessed

FIELD 418.1 CALCULATIONS

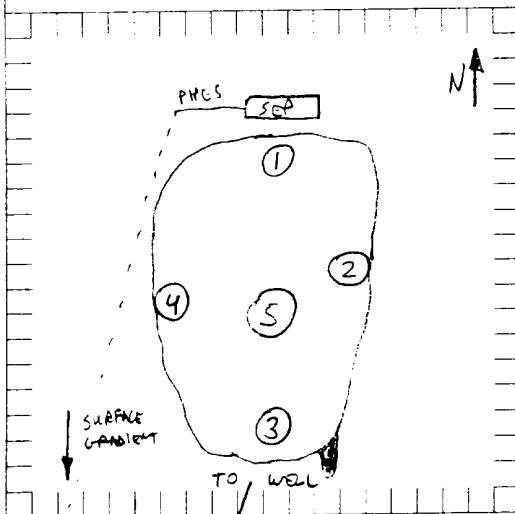
FIELD 418-1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm
SB @ 9'	1124	10.0	20.0	10	384	7680

SCALE



0 5 10 FT

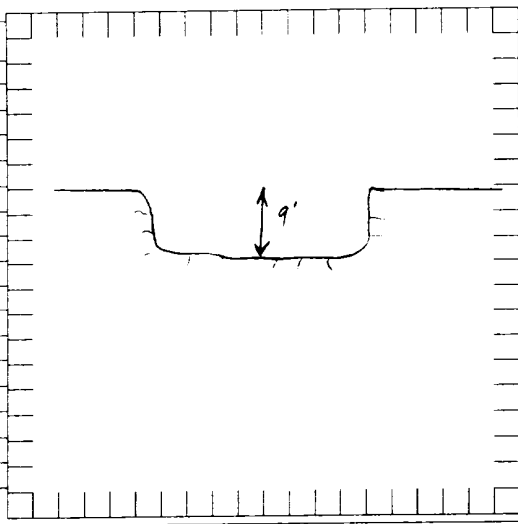
PIT PERIMETER



OVM RESULTS

[illegible]

PIT PROFILE



TRAVEL NOTES: CALLOUT: 9-12-94 ONSITE: 9-12-94 1000

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Pipkin P.O. #3

Unit A. Sec. 17. T27N. R10W

Separator Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 9 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 9 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 0.03 miles northeast of the nearest vulnerable area boundary (East Fork Kutz wash).

(Refer to East Fork Kutz Canvon Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), provisional edition 1985, (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.

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:	SB @ 9'	Date Analyzed:	9-12-94
Project Location:	P.O. Pipkin 3	Date Reported:	9-12-94
Laboratory Number:	TPH-1124	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	7,700	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	440	450	2

*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 - B0083

R. E. O'Neil
Analyst

Nelson V. V. V.
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

Project #:

Sample ID:

SB @ 9'

Date Analyzed:

9-12-94

Project Location:

P.O. Pipkin 3

Date Reported:

9-12-94

Laboratory Number:

TPH-1124

Sample Matrix:

Soil

Sample Weight: 10.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 10 (unitless)
TPH Reading: 384 mg/kg

TPH Result: 7680.0 mg/kg
Reported TPH Result: 7700.0 mg/kg
Actual Detection Limit: 100.0 mg/kg
Reported Detection Limit 100 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

440

450

2

Comments:

*****Max Characters*****

Comments:

Separator Pit - B0083

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80083</u> C.D.C. NO: <u>AMC</u>
----------------------	---	--

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>P.O. PIPKIN #3</u>	PITS:	DATE STARTED: <u>1-24-96</u>
QUAD/UNIT: <u>A SEC: 17 TWP: 27N RNG: 10W BM: NM CNTY: SJ ST: NM</u>		DATE FINISHED:
QTR/FOOTAGE: <u>NE/NE</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>PEO</u>

SOIL REMEDIATION:

REMEDIATION SYSTEM: COMPOST APPROX. CUBIC YARDAGE: 1500
 LAND USE: RANGE LEASE: SF-077875

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 3100' AS NEAREST WATER SOURCE: 7100' NEAREST SURFACE WATER: 71000'
 NMDCD RANKING SCORE: 20 AS NMDCD TPH CLOSURE STD: 5000 AS 100 PPM

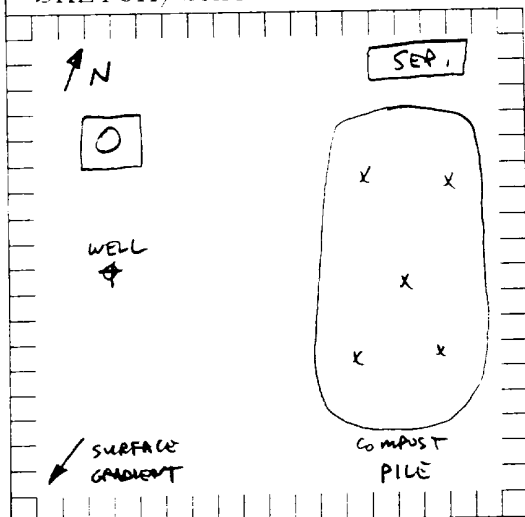
SOIL CONSISTS OF MOIST, BROWN, SILTY SAND - NO STAIN / ODOR
 PILE HAS BEEN RECENTLY TURNED -
 COMPOSITE SAMPLE COLLECTED.

FIELD 418.1 CALCULATIONS

SAMPLE ID	LAB No.	WEIGHT (g)	mL	FREQN	DILUTION	READING	CALC. ppm

CLOSE COMPOST PILE

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
Comp. A	1

LAB SAMPLES

SAMPLE ID	ANALYSIS
Comp. A	8015 = NO

TRAVEL NOTES: CALLOUT: 1-24-96 ONSITE: 1-24-96 0930

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Amoco/P.O. Pipkin 3
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 01/29/96
Date Sampled: 01/24/96
Date Received: 01/25/96
Date Extracted: 01/25/96
Date Analyzed: 01/27/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp A Compost Pile	2501	ND	18.1

ND- Analyte not detected at the stated detection limit.

Quality Control: Surrogate % Recovery Acceptance Limits
 Trifluorotoluene 87% 50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
 State of Tennessee, Department of Environment and Conservation, Division
 of Underground Storage Tanks.

Comments:


Analyst


Review

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Amoco/P.O. Pipkin 3
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 01/29/96
Date Sampled: 01/24/96
Date Received: 01/25/96
Date Extracted: 01/25/96
Date Analyzed: 01/26/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp A Compost Pile	2501	ND	15.2

ND- Analyte not detected at the stated detection limit.

Quality Control: Surrogate % Recovery Acceptance Limits
 o - Terphenyl 104% 50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Analyst


Review



Company: BIA66 ENR,
Address: P.O. Box 87
Phone: 632-1199
Fax:
Bill To:
Company: SAME
Address:

Page 1 of 1

[illegible]

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0083</u> C.O.C. NO: _____
----------------------	---	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>P.O. PIRKIN</u> WELL #: <u>3</u> PITS: <u>BLOW, SEP</u> QUAD/UNIT: <u>A</u> SEC: <u>17</u> TWP: <u>21N</u> RNG: <u>10W</u> PM: <u>(3M CNTY: SJ ST: NM)</u> QTR/FOOTAGE: <u>NEL4</u> <u>NEL4</u> CONTRACTOR: <u>EPC</u>	DATE STARTED: <u>12/2/94</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
---	---

SOIL REMEDIATION:

REMEDIATION SYSTEM: COMPOSTED APPROX. CUBIC YARDAGE: 1450-1500
 LAND USE: RANGE LEASE: SF-077875

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 550' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'
 NMOC BANKING SCORE: 20.7 NMOC TPH CLOSURE STD: 5000 PPM

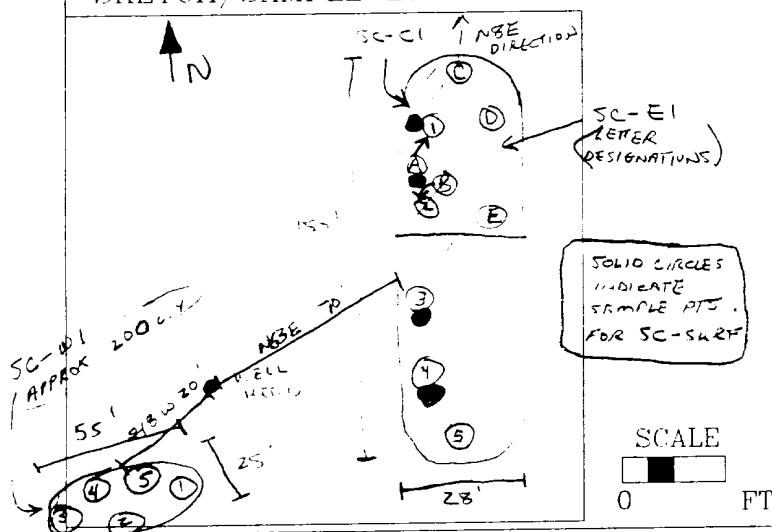
CENTER OF EASTERN STOCKPILE CONTAINS DR. GRAY TO BLACK DISCOLORED SOIL @ NORTHERN MOST END + SOUTH HALF, (w/ STRONG HC ODOR). COLLECTED SAMPLE MOSTLY @ STOCKPILE SURFACE (LABELED SC-SURF) TO DETERMINE IF MOD. YEL. BROWN SANDY MATERIAL WOULD PASS (FAILED OVM, THEREFORE NO FIELD 418.1 WAS RUN).

FIELD 418.1 CALCULATIONS

SAMPLE ID	LAB NO.	WEIGHT (g)	ML. FREON	DILUTION	READING	CALC. ppm
SC-W1	TAH-1305	5	20	10:1	73	2,920

SC-W1 STOCKPILE TAKEN TO P.O. PIRKIN #1 & USED FOR FILL DIRT IN BLOW PTT.

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
SC-C1	245.1
SC-N1	104.7
SC-W1	86.0
SC-SURF	240.7

LAB SAMPLES

SAMPLE ID	ANALYSIS

TRAVEL NOTES: CALLOUT: 12/1/94 ONSITE: 12/2/94

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:	SC - W1	Date Analyzed:	12-02-94
Project Location:	P.O. Pipkin 3	Date Reported:	12-02-94
Laboratory Number:	TPH-1305	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	2,900	200

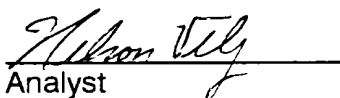
ND = Not Detectable at stated detection limits.

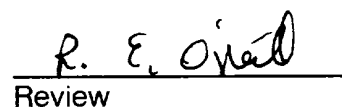
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2640	2640	0.00

*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: Stockpile Composite - B0083


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

Project #:

Sample ID:

SC - W1

Date Analyzed:

12-02-94

Project Location:

P.O. Pipkin 3

Date Reported:

12-02-94

Laboratory Number:

TPH-1305

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

10 (unitless)

TPH Reading:

73 mg/kg

TPH Result:

2920.0 mg/kg

Reported TPH Result:

2900 mg/kg

Actual Detection Limit:

200.0 mg/kg

Reported Detection Limit:

200 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

2640

2640

0.00

Comments:

*****Max Characters*****

Comments:

Stockpile Composite - B0083