

District I

P.O. Box 2088, Hobbs, NM

District II

P.O. Box 2088, Hobbs, NM

District III

1000 Rio Brazos Rd., Santa Fe, NM 87504-2088

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: FEASEL, FRED **H1**

Well Name

Location: Unit or Qtr/Qtr Sec H Sec 33 T 28N R 10W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW

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

Pit Location: Pit dimensions: length 19', width 32', depth 6'
(Attach diagram)

Reference: wellhead ☒, other ___

Footage from reference: 165'

Direction from reference: 80 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) 0

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

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Yes (20 points) 0
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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 11/1/94

Remediation Method: Excavation ☒ Approx. cubic yards 65
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other COMPOSTED

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 11/1/94 Sample time 1015

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 1801TPH 16,240 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 11/3/94

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80143</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION PAGE No: 1 of 1

LOCATION: NAME: <u>FENSEL, FRED</u> WELL #: <u>41</u> PIT: <u>8LOW</u>	DATE STARTED: <u>11/1/94</u>
QUAD/UNIT: <u>H</u> SEC: <u>33</u> TWP: <u>28N</u> RNG: <u>10W</u> PM: <u>Nm</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>SE/4 NE/4</u> CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. 19 FT. x 32 FT. x 6 FT. DEEP. CUBIC YARDAGE: 65

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOSTED

LAND USE: RANGE LEASE: SF-046563 FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FT. N80E FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

☐ PIT ABANDONED

☒ STEEL TANK INSTALLED

OK. YELL. BROWN SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM TO DENSE, STAIN & HE
OOR IN WEST & BOTTOM OUM SAMPLES.

BOTTOM - LT. GRAY SANDSTONE, HARD.

CONDITIONAL
CLOSURE

SCALE



0 FT

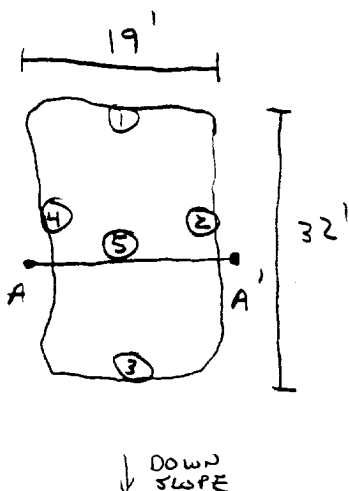
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1015	(4) @ 4'	1249	5	20	10:1	406	16,240

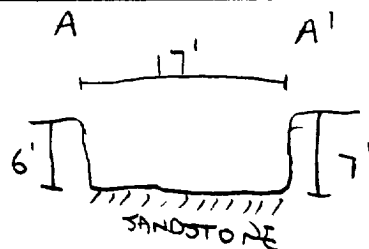
PIT PERIMETER

OVM
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	14.5
2 @ 3'	6.2
3 @ 3'	0.0
4 @ 4'	1801
5 @ 6'	1062



LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: 10/31/94 ONSITE: 11/1/94

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
Sample ID: 4 @ 4'
Project Location: Feasel, Fred H 1
Laboratory Number: TPH-1249

Project #:
Date Analyzed: 11-03-94
Date Reported: 11-03-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	16,200	200

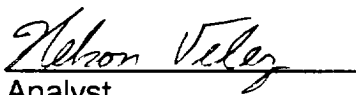
ND = Not Detectable at stated detection limits.

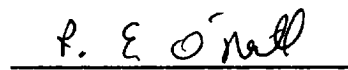
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	568	464	20.16

*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 - B0143


Analyst


Review

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

80143
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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 _____
Location: Unit or Qtr/Qtr Sec H Sec 33 T28N R 10W County SAN JUAN
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM ☒, State _____, Fee _____, Other _____

Pit Location: Pit dimensions: length 26', width 25', depth 16'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 160'
Direction from reference: 43 Degrees ☒ East North _____
of _____ West South ☒

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 Points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points) 0
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 11/4/94

Remediation Method: Excavation ☒ Approx. cubic yards 315
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other COMPOSTED

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 12'
Sample date 11/1/94 Sample time 0945

Sample Results

Benzene(ppm) 0.0145

Total BTEX(ppm) 30.616

Field headspace(ppm) 797

TPH 568 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

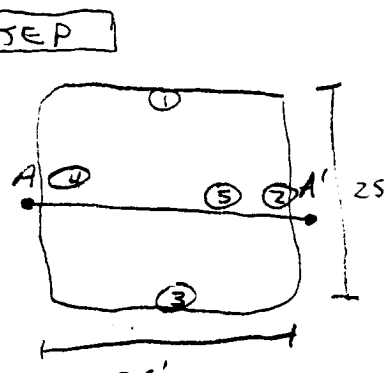
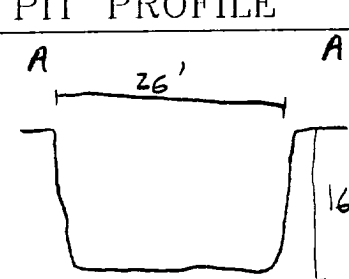
DATE 11/4/94

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>80143</u> C.D.C. NO: <u>2248</u>																																																	
FIELD REPORT: CLOSURE VERIFICATION				PAGE No: <u>1</u> of <u>1</u>																																																	
LOCATION: NAME: <u>FEASEL, FRED</u> WELL #: <u>H1</u> PIT: <u>SEP</u> QUAD/UNIT: <u>H</u> SEC: <u>33</u> TWP: <u>28N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SE/4</u> <u>NE/4</u> CONTRACTOR: <u>EPC</u>				DATE STARTED: <u>11/1/94</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																																	
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FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>160</u> FT. <u>S43E</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: <u>DR. YELL. BROWN SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC odor IN ALL OVM SAMPLES EXCEPT IN WEST SIDEWALL. BOTTOM SAMPLE DR. GRAY COLOR, SAND.</u>																																																					
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<div><div><div>CLOSED</div><div>SCALE 0 FT</div></div><div><table border="1"><caption>FIELD 418.1 CALCULATIONS</caption><thead><tr><th>TIME</th><th>SAMPLE I.D.</th><th>LAB No:</th><th>WEIGHT (g)</th><th>mL. FREON</th><th>DILUTION</th><th>READING</th><th>CALC. ppm</th></tr></thead><tbody><tr><td>0945</td><td>3 @ 12'</td><td>1248</td><td>5</td><td>20</td><td>1:1</td><td>142</td><td>568</td></tr><tr><td>"</td><td>DUP</td><td>"</td><td>"</td><td>"</td><td>1:1</td><td>116</td><td>464</td></tr></tbody></table></div><div><div><div>PIT PERIMETER</div></div><div><div>OVM RESULTS</div><table border="1"><thead><tr><th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr></thead><tbody><tr><td>1 @ 12'</td><td>744</td></tr><tr><td>2 @ 12'</td><td>503</td></tr><tr><td>3 @ 12'</td><td>797</td></tr><tr><td>4 @ 11'</td><td>0.0</td></tr><tr><td>5 @ 17'</td><td>627</td></tr></tbody></table><div>LAB SAMPLES</div><table border="1"><thead><tr><th>SAMPLE ID</th><th>ANALYSIS</th><th>TIME</th></tr></thead><tbody><tr><td>0945</td><td>BTEX</td><td>0945</td></tr></tbody></table><div>PASSED</div></div><div><div>PIT PROFILE</div></div></div></div> <tr><td colspan="6">TRAVEL NOTES: CALLOUT: <u>10/31/94</u> ONSITE: <u>11/1/94</u></td></tr>						TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	0945	3 @ 12'	1248	5	20	1:1	142	568	"	DUP	"	"	"	1:1	116	464	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 12'	744	2 @ 12'	503	3 @ 12'	797	4 @ 11'	0.0	5 @ 17'	627	SAMPLE ID	ANALYSIS	TIME	0945	BTEX	0945	TRAVEL NOTES: CALLOUT: <u>10/31/94</u> ONSITE: <u>11/1/94</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
Sample ID: 3 @ 12'
Project Location: Feasel, Fred H 1
Laboratory Number: TPH-1248

Project #:
Date Analyzed: 11-03-94
Date Reported: 11-03-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	570	20

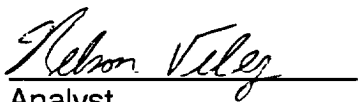
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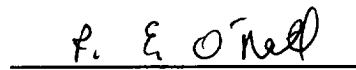
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	568	464	20.16

*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 - B0143


Analyst


Review



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: *11/4/94*
Lab ID: *2248*
Sample ID: *3841*
Job No. *2-1000*

Project Name: *Feasel, Fred H 1*
Project Location: *3 @ 12' - Separator Pit*
Sampled by: *NV* Date: *11/1/94*
Analyzed by: *DLA* Date: *11/4/*94*
Sample Matrix: *Soil*

Time: *9:45*

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>14.5</i>	<i>0.2</i>
<i>Toluene</i>	<i>941</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>1,928</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>22,053</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>5,679</i>	<i>0.2</i>
TOTAL <i>30,616 ug/kg</i>		

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:

Date:

[Signature]
11/4/94

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -