

District I  
P.O. Box 1980, Hobbs, NM

District II  
P.O. Box 98, Aztec, NM 87410

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

DEC 03 1996

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

*Approved*

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: WELLER AYE  
Well Name  
Location: Unit or Qtr/Qtr Sec 0 Sec 25 T 28N R 10W County SAN JUAN  
Pit Type: Separator    Dehydrator    Other PRODUCTION TANK  
Land Type: BLM X, State   , Fee   , Other   

Pit Location: Pit dimensions: length NA, width NA, depth NA  
(Attach diagram) Reference: wellhead X, other     
Footage from reference: 110'  
Direction from reference: 90 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)  
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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DIST. 3

Yes (20 points) 0  
No (0 points)   

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)   

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: \_\_\_\_\_

Date Completed: 11/10/94Remediation Method: Excavation ☒  
(Check all appropriate sections)Approx. cubic yards NA

Landfarmed \_\_\_\_\_

Insitu Bioremediation \_\_\_\_\_

Other CLOSE AS ISRemediation Location:  
(ie. landfarmed onsite,  
name and location of  
offsite facility)Onsite ☒ Offsite \_\_\_\_\_

General Description Of Remedial Action: \_\_\_\_\_

Excavation - EXCAVATE TEST HOLE FOR SAMPLING

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 DocumentsSample depth 4'Sample date 11/10/94Sample time 1200

Sample Results

Benzene (ppm) \_\_\_\_\_

Total BTEX (ppm) \_\_\_\_\_

Field headspace (ppm) 0.0TPH 36 ppm

RECEIVED

NOV 30 1994

OIL CON. DIV.  
DIST. 3Ground 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 BELIEFDATE 11/10/94

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>80154</u> C.O.C. NO: _____
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**FIELD REPORT: CLOSURE VERIFICATION** PAGE No: 1 of 1

LOCATION: NAME: <u>OWNER</u>	WELL #: <u>114E</u>	PIT: <u>P200</u>
QUAD/UNIT: <u>7</u>	SEC: <u>25</u>	TWP: <u>28N</u>
RNG: <u>10W</u>	PM: <u>NM</u>	CNTY: <u>ST. M.</u>
QTR/FOOTAGE: <u>24</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>AV</u>

EXCAVATION APPROX. NA FT. x NA FT. x 12A FT. DEEP. CUBIC YARDAGE: NA

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: CLOSE 15 15

LAND USE: RANGE LEASE: 82-077085 FORMATION: OCK/OIR

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 110 FT. NE WEST 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:

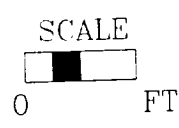
CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

SANDSTONE ENCOUNTERED @ 5' BELOW GROUND SURFACE (RGS), NO  
WATER BEING ENCOUNTERED.

**CLOSED**



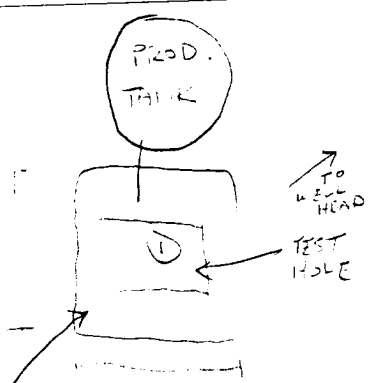
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1:00	1 @ 4'	TAH-1266	5	20	1:1	9	36

PIT PERIMETER

OVM RESULTS

PIT PROFILE



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

SAMPLE ID	ANALYSIS	TIME

NOT APPLICABLE

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

**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: 1 @ 4'  
Project Location: Omler A 4 E  
Laboratory Number: TPH-1266

Project #:  
Date Analyzed: 11-10-94  
Date Reported: 11-10-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	36	20

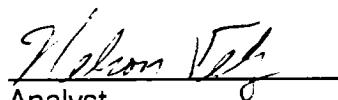
ND = Not Detectable at stated detection limits.

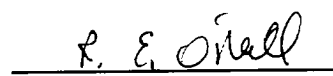
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3720	3680	1.08

\*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 - B0154

  
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

80154  
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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: OMLER A 4E  
Well Name

Location: Unit or Qtr/Qtr Sec 0 Sec 25 T 28N R 10W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

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

Pit Location: Pit dimensions: length 19', width 17', depth 14'  
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 87'

Direction from reference: 43 Degrees ☐ East North ☒  
☒ 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)

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): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Remediation Method: Excavation ☒ Approx. cubic yards 120  
 (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 10'Sample date 11/10/94 Sample time 1140

## Sample Results

Benzene(ppm) 3.626Total BTEX(ppm) 166.881Field headspace(ppm) 1230TPH 2,920 ppm

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 NOV 30 1994

OIL CON. DIV.  
 DIST. 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 11/14/94

SIGNATURE

B. ShawPRINTED 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>80154</u> C.D.C. NO: <u>2257</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>OMLER</u>	WELL #: <u>A4E</u>	PIT: <u>SEP</u>
QUAD/UNIT: <u>0</u>	SEC: <u>25</u>	TWP: <u>28N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>
QTR/FOOTAGE: <u>SW/4</u>	SE/4	CONTRACTOR: <u>EPC</u>
DATE STARTED: <u>11/10/94</u>		DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: <u>NV</u>		

EXCAVATION APPROX. <u>19</u> FT. x <u>17</u> FT. x <u>14</u> FT. DEEP.	CUBIC YARDAGE: <u>120</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIALATION METHOD: <u>COMPOSTED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>82-077085</u> FORMATION: <u>OCK/DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>87</u> FT. <u>N43W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>2100'</u>	NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: <input type="checkbox"/> PIT ABANDONED <input checked="" type="checkbox"/> STEEL TANK INSTALLED
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UPPER WELL BEDDING IS OR. CLAY CLAY, SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM TO STIFF, STRONG HC ODOR IN NORTH AND SOUTH SIDEWALL OVM SAMPLES.  
BOTTOM - SANDSTONE, HARD, LT. MED GRAY IN COLOR, STRONG HC ODOR IN OVM SAMPLE.

CONDITIONAL CLOSURE

#### FIELD 418.1 CALCULATIONS

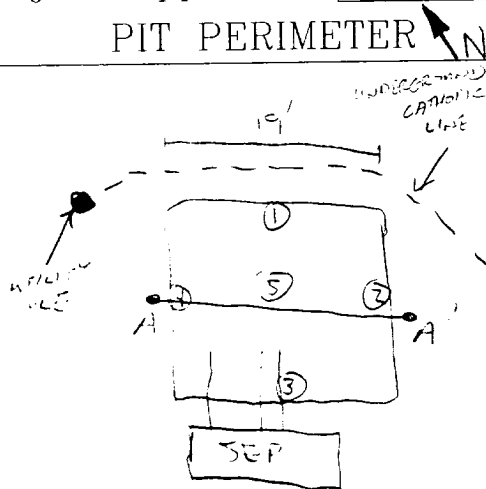
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1140	① @ 10'	TPH-1265	5	20	10:1	73	2,920

SCALE



0 FT

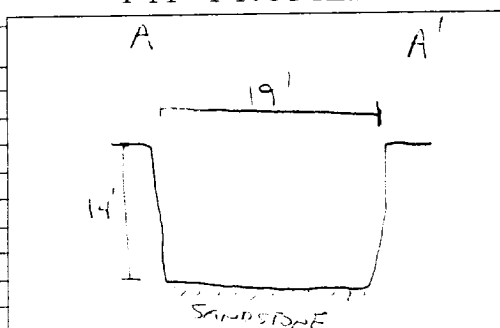
#### PIT PERIMETER



#### OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 10'	1230
2 @ 10'	0.5
3 @ 9'	226
4 @ 10'	76.2
5 @ 14'	978

#### PIT PROFILE



#### LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 10'	STEX	1140
	FAILED	

TRAVEL NOTES:	CALLOUT: <u>11/10/94</u>	ONSITE: <u>11/10/94</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: 1 @ 10'  
Project Location: Omler A 4 E  
Laboratory Number: TPH-1265

Project #:  
Date Analyzed: 11-10-94  
Date Reported: 11-10-94  
Sample Matrix: Soil

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

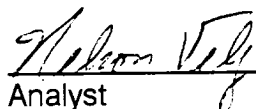
ND = Not Detectable at stated detection limits.

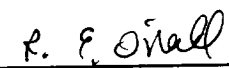
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3720	3680	1.08

\*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 - B0154

  
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: 11/11/94  
Lab ID: 2257  
Sample ID: 3940  
Job No. 2-1000

Project Name: *Omler A 4E*  
Project Location: *1 @ 10' - Sep. Pit*  
Sampled by: *NV* Date: 11/10/94  
Analyzed by: *DLA* Date: 11/11/94  
Sample Matrix: *Soil*

Time: 11:40

**Aromatic Volatile Organics**

<b>Component</b>	<b>Measured Concentration ug/kg</b>	<b>Detection Limit Concentration ug/kg</b>
<i>Benzene</i>	<i>3,626</i>	<i>0.2</i>
<i>Toluene</i>	<i>23,319</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>8,763</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>115,025</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>16,147</i>	<i>0.2</i>
	<i>TOTAL 166,881 ug/kg</i>	

*ND - Not Detectable*

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

Approved by:

Date:

*Bill Velez*  
*11/11/94*