

80113

District I

P.O. Box 380 Hobbs, NM

District II

P.O. Box 380 Hobbs, NM

District III

1000 Rio Brazos Rd.

DEC 13 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

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: PIPKIN GAS COM A #1E  
Well Name

Location: Unit or Qtr/Qtr Sec C Sec 7 T 27N R 10W County SAN JUAN

Pit Type: Separator    Dehydrator    Other BLOW / PROD. TANK

Land Type: BLM   , State   , Fee   , Other COM. AGMT.

Pit Location: Pit dimensions: length 20', width 30', depth 2'-5'  
(Attach diagram)

Reference: wellhead X, other   

Footage from reference: 150

Direction from reference: 55 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)  
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: 10-7-94

Remediation Method: Excavation X Approx. cubic yards 60  
 (Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other COMPOST + BIO-REMEDIATION PILE

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

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

Excavation

Ground Water Encountered: No X 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'

Sample date 10-7-94 Sample time \_\_\_\_\_

**Sample Results**

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

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

Field headspace(ppm) 2

TPH ND

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 10/14/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

RESULTS TO FRANK M, 10-7-94 RLO

CLIENT <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80113</u> C.D.C. NO: <u>—</u>
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## FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION NAME <u>PIPKIN GAS COM A WELL #1E</u> PIT: <u>BLOW/PROD.</u>	DATE STARTED <u>10-7-94</u>
QUAD/UNIT <u>C</u> SEC. <u>7</u> TWP. <u>27N</u> RNG. <u>10W</u> BM. <u>NM</u> CNTY. <u>SJ</u> ST. <u>NM</u>	DATE FINISHED <u>—</u>
CTRY. FOOTAGE: <u>NE/NW</u> CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>REG</u>

EXCAVATION APPROX <u>20</u> FT. x <u>30</u> FT. x <u>2-5</u> FT. DEEP	CUBIC YARDS: <u>60</u>
DISPOSAL FACILITY <u>ON SITE</u>	REMEDICATION METHOD: <u>BLO-REM + COMPOST</u>
LAND USE <u>RANGE</u>	LEASE: <u>FED. LSE # SW-000366</u> FORMATION: <u>—</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>150</u> FEET <u>NSS°E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOOD BANKING COEF: <u>0</u> NMOOD TPH CLOSURE STD: <u>5000</u> PPM

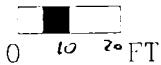
SOIL AND EXCAVATION DESCRIPTION: <u>BROWN, MOIST, SILTY SAND. PIT EXCAVATED TO BEDROCK - CONTAMINATED SOILS REMOVED. GREAT STAINING + OOR IN SANDSTONE BOTTOM. (HARD NO ADDITIONAL EXCAVATION POSSIBLE)</u>	PIT DISPOSITION: <u>STEEL TANK TO BE INSTALLED</u>
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### FIELD 418.1 CALCULATIONS

SAMPLE ID	LAB NO.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
<u>NS@ 3'</u>	<u>1176</u>	<u>10.0</u>	<u>20.0</u>	<u>—</u>	<u>3</u>	<u>ND</u>

CLOSE PIT

SCALE



### PIT PERIMETER

### OVN RESULTS

### PIT PROFILE

	<p>DROP OFF</p> <p>SURFACE GRADIENT TO PAVEMENT</p>	<table border="1"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr> <td><u>1 NS@ 3'</u></td> <td><u>2</u></td> </tr> <tr> <td><u>2 ES@ 3'</u></td> <td><u>2</u></td> </tr> <tr> <td><u>3 SS@ 2'</u></td> <td><u>6</u></td> </tr> <tr> <td><u>4 WS@ 2'</u></td> <td><u>2</u></td> </tr> <tr> <td><u>5 NB@ 5'</u></td> <td><u>757</u></td> </tr> <tr> <td colspan="2">LAB SAMPLES</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2"> </td> </tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	<u>1 NS@ 3'</u>	<u>2</u>	<u>2 ES@ 3'</u>	<u>2</u>	<u>3 SS@ 2'</u>	<u>6</u>	<u>4 WS@ 2'</u>	<u>2</u>	<u>5 NB@ 5'</u>	<u>757</u>	LAB SAMPLES										<p>LOOKING EAST</p>
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LAB SAMPLES																									

TRAVEL NOTES: CAL-OUT: <u>10-7-94</u> ONSITE: <u>10-7-94</u> <u>1000</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	Project #:	
Sample ID:	N Side @ 3'	Date Analyzed:	10-7-94
Project Location:	Pipkin GC A 1E	Date Reported:	10-7-94
Laboratory Number:	TPH-1176	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	<b>ND</b>	<b>10</b>

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	4,020	4,220	5

\*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/Prod Pit - B0113

R. E. O'Neill  
Analyst

Hilary V. Blagg  
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

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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: PIPKIN GAS Com A #1E  
Well Name  
Location: Unit or Qtr/Qtr Sec C Sec 7 T 27N R 10W County SAN JUAN  
Pit Type: Separator    Dehydrator X Other     
Land Type: BLM   , State   , Fee   , other Com. AGMT.

Pit Location: Pit dimensions: length 15', width 15', depth 5'  
(Attach diagram) Reference: wellhead X, other     
Footage from reference: 100  
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)

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: 10-7-94

Remediation Method: Excavation X Approx. cubic yards 25  
 (Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other COMPOST + BIO-REMEDIATION PILE

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

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

Excavation

Ground Water Encountered: No X 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'

Sample date 10-7-94 Sample time \_\_\_\_\_

Sample Results

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

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

Field headspace(ppm) 591

TPH 7320 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 10/14/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

RESULTS TO FRANK M. 10-7-94 Pie

CLIENT <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO. <u>B0113</u> C.D.C. NO. <u>—</u>
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## FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION NAME <u>PIPERIN GAS COM A</u> WELL # <u>1E</u> PIT: <u>DEHY.</u>	DATE STARTED: <u>10-7-94</u>
QUAD/UNIT <u>C</u> SEC. <u>7</u> TWP. <u>27N</u> RNG. <u>10W</u> BM. <u>NM</u> CNTY. <u>SJ</u> ST. <u>NM</u>	DATE FINISHED: <u>—</u>
SITE FOOTAGE <u>NE/NW</u> CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>REG</u>

EXCAVATION APPROX. <u>15</u> FT. x <u>15</u> FT. x <u>5</u> FT. DEEP. CUBIC YARDS: <u>25</u>
DISPOSAL FACILITY: <u>ON SITE</u> REMEDIATION METHOD: <u>COMPOST/BIO-REM</u>
LAND USE: <u>RANGE</u> LEASE: <u>PED. LSE # SW-000366</u> FORMATION: <u>—</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>100</u> FEET <u>WEST</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOBIL RANKING SCORE: <u>0</u> NMOBIL TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: <u>STEEL TANK TO BE INSTALLED</u>
<u>MOIST, BROWN, SHG. EXCAVATED INTO SANDSTONE - NO ADDITIONAL EXCAVATION POSSIBLE.</u>
<u>EVIDENCE OF HEAVY OILS SOAKED INTO SANDSTONE SIDEWALLS + BOTTOM.</u>

CLOSE PIT DUE  
TO BEDROCK.

## FIELD 4181 CALCULATIONS

SAMPLE ID	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
WS @ 3'	1177	10.0	20.0	10	300	7320

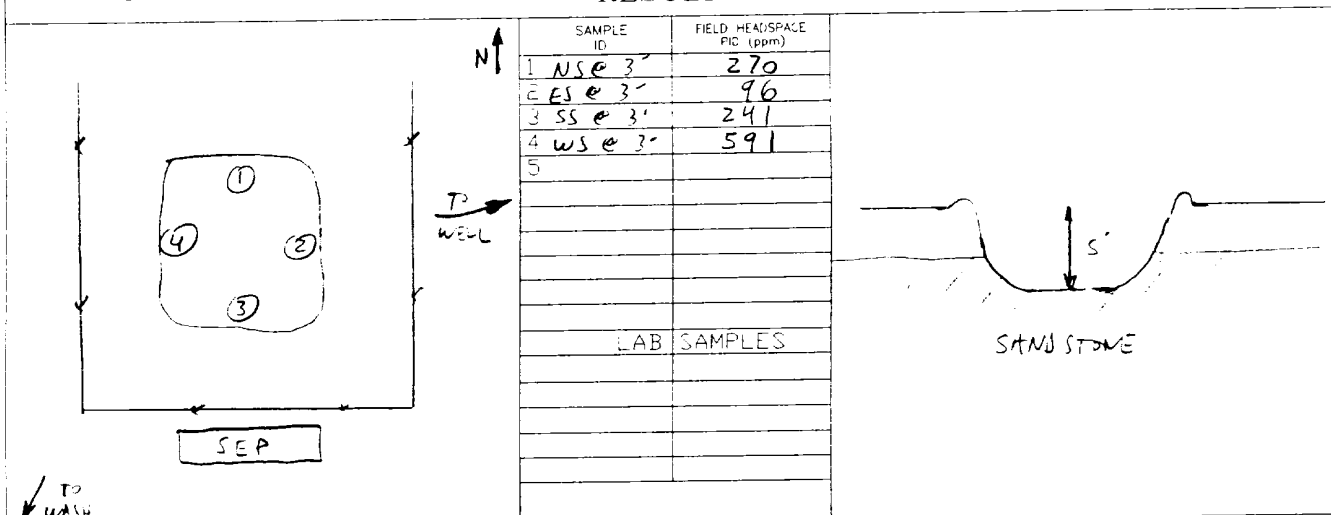
SCALE

0 5 10 FT

PIT PERIMETER

OVM  
RESULTS

PIT PROFILE

TRAVEL NOTES: CALLOUT: 10-7-94 ONSITE: 10-7-94 1130

**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: W Side @ 3'  
Project Location: Pipkin GC A 1E  
Laboratory Number: TPH-1177

Project #:   
Date Analyzed: 10-7-94  
Date Reported: 10-7-94  
Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	<b>7300</b>	<b>100</b>

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	4.020	4.220	5

\*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: Dehydrator Pit - B0113

R. E. O'Neil  
Analyst

Helcon V. J.  
Review



80113

District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
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Energy, Minerals and Natural Resources Department

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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: PLPKIN GAS Com A \*1E  
Well Name

Location: Unit or Qtr/Qtr Sec C Sec 7 T 27N R 10W County SAN JUAN

Pit Type: Separator X Dehydrator    Other   

Land Type: BLM   , State   , Fee   , Other Com. AGMT.

Pit Location: Pit dimensions: length 20', width 20', depth 5'  
(Attach diagram)

Reference: wellhead X, other   

Footage from reference: 90

Direction from reference: 0 Degrees    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) 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: 10-7-99

Remediation Method: Excavation X Approx. cubic yards 50  
 (Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other COMPOST + BIO-REMEDIATE PILE

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

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

Excavation

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 4'

Sample date 10-7-99 Sample time \_\_\_\_\_

Sample Results

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

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

Field headspace(ppm) 289

TPH 15,940 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 10/14/99

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

RESULTS TO FRANK M. 10-7-94 REG

CLIENT <u>AMSCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80113</u> COC NO <u>-</u>
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## FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME	PIPIN GAS Com A WELL # 1E PIT: SEP.					DATE STARTED:	10-7-94	
QUAD/UNIT	C	SEC:	7	TWP:	27N	RNG:	10W	
				BM:	NM	CNTY:	SJ ST: NM	
RIP: FOOTAGE:	NE/NW		CONTRACTOR:		EPC			ENVIRONMENTAL SPECIALIST:
							REO	

EXCAVATION APPROX 20 FT. x 20 FT. x 5 FT. DEEP. CUBIC YARDS: 50  
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: COMPOST / BIO-REM  
LAND USE RANGE LEASE: FED. LSE # SW-000366 FORMATION: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FEET SOUTA FROM WELLHEAD  
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'  
NMDD RAINING SCORE: 0 NMDD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: STEEL TANK TO BE IN SMLCD.  
MOIST, BROWN, SAND - HYDROCARBON ODOR + STAIN IN SIDEWALLS AND BOTTOM.  
BOTTOM EXCAVATED TO BED ROCK - PIPELINES + EQUIPMENT IN WAY OF ADDITIONAL EXCAVATION.

FIELD 418.1 CALCULATIONS

FIELD 4181 CALCULATIONS						
SAMPLE NO.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
NS 04'	1178	10.0	20.0	10	797	15,940

CONDITIONAL.

SCALE

0 5 10 FT

PIT PERIMETER

## OVM RESULTS

PIT PROFILE

The figure consists of two parts: a plan view map on the left and a cross-section on the right.

**Plan View Map:** Shows a rectangular area with a dashed line labeled "UNDERGROUND LINE" at the top. Inside the rectangle, four points are marked with circled numbers: 1 (top center), 2 (right center), 3 (bottom center), and 4 (left center). To the right of the rectangle is a vertical rectangle labeled "25'". Below the rectangle, an arrow points down with the text "TO RAVINE + VALLEY".

**Cross-section:** A vertical profile showing a dashed line at the top, a solid line representing the ground surface, and a hatched area at the bottom labeled "BEDROCK". A vertical double-headed arrow indicates a depth of "5'".

TRAVEL NOTES: CALLOUT: 10-7-94 ONSITE: 10-7-94 1230

**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:	N Side @ 4'	Date Analyzed:	10-7-94
Project Location:	Pipkin GC A 1E	Date Reported:	10-7-94
Laboratory Number:	TPH-1178	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	<b>15900</b>	<b>100</b>

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	4.020	4.220	5

\*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 - B0113

R. E. O'neill  
Analyst

Nelson  
Review