

Blow - OK
Sep - OK

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

District II
P.O. Drawer DD, Artes, NM 88211

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Mineral and Natural Resource Department

OIL CONSERVATION DIVISION
P.O. Box 20887
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Denise/12/16/96 LF

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216
Address: 200 AMOCO COURT, FARMINGTON, NM 87401
Facility Or: L.C. KELLY #4E
Well Name _____
Location: Unit or Qtr: Qtr Sec NW/NW 0 Sec 3 T 30 R 12 County SAN JUAN
Pit Type: Separator _____ Dehydrator _____ Other BLOW DOWN
Land Type: BLM XX State _____ Fee _____ Other _____

Pit Location: (Attach diagram) Pit dimensions: Length 50 width 50 depth 5
Reference: wellhead XX Other _____
Footage from reference: 124'
Direction from reference: 73 Degrees NORTH 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)	<u>0</u>

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)	<u>0</u>

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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/16/94 Date Completed: 06/16/94

Remediation Method: Excavation XX Approx. cubic yards 462

Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description of Remediation Action: _____

CONTAMINATED SOIL WAS REMEDIATED BY DILUTION AND AERIAATION.

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

Sample depth 5

Sample date 06/16/94 Sample time 03:00:00

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 0.0 e 7' 11/17/97 915

TPH 472 ppm

Ground Water Sample: Yes _____ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE

TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 07/28/94 5/23/98 915

SIGNATURE B.S. Shaw

PRINTED NAME BUDDY SHAW E.C.
AND TITLE

FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PRODUCTION COMPANY

Telephone: (505) 326-9216

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: L.C. KELLY #4E

Well Name

Location: Unit or Qtr/Qtr Sec NW/NW Sec 3 T 30 R 12 County SAN JUAN

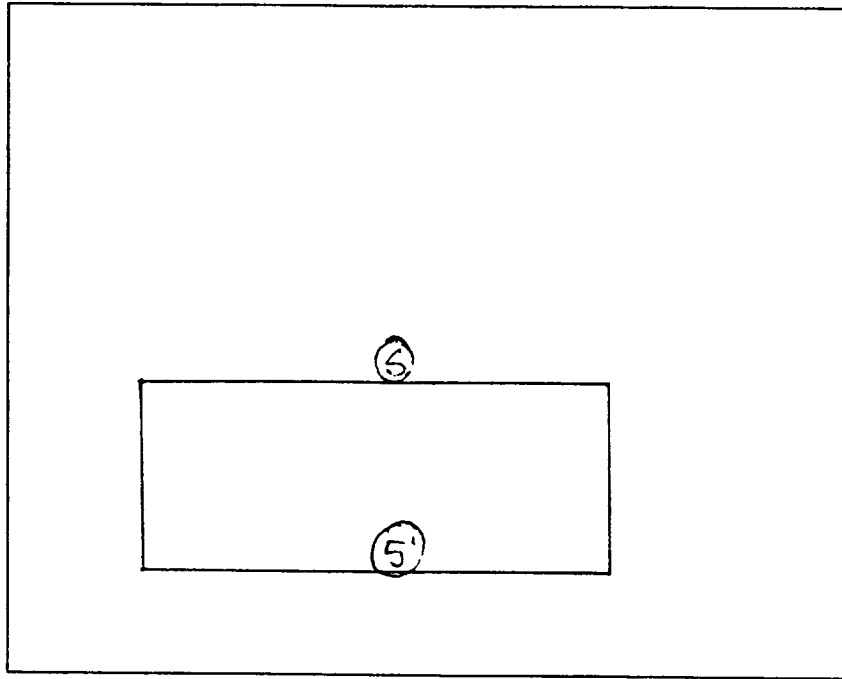
Depth

TPH

Surface	2360 ppm
2 ft.	ppm
4 ft.	ppm
6 ft.	ppm
8 ft.	ppm
10 ft.	ppm
12 ft.	ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
5' ft.	472 ppm
ft.	ppm
7 ft.	ppm

0.001
0.0
915

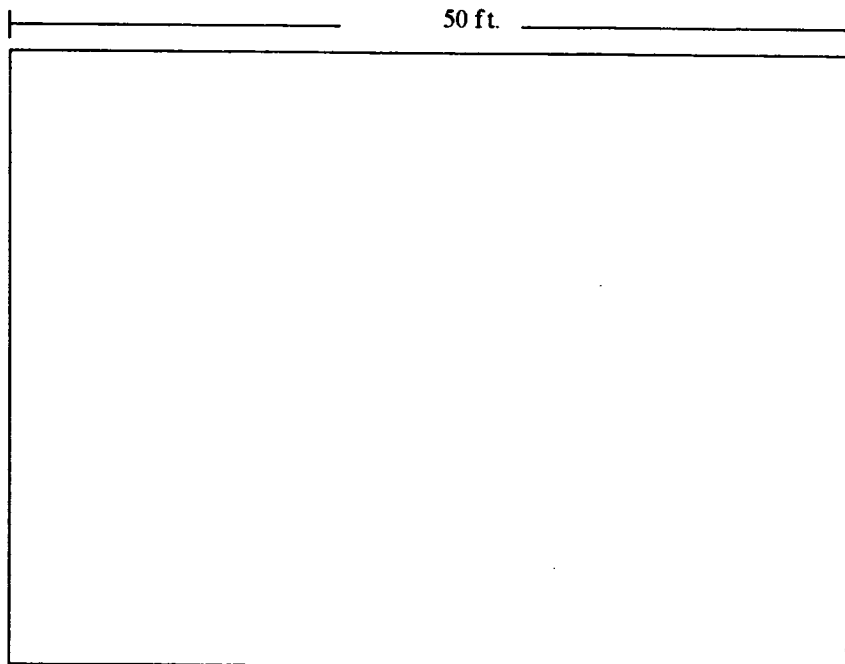
SIDE VIEW



TOP VIEW

North Side	87 ppm
East Side	51 ppm
South Side	123 ppm
West Side	436 ppm

North



PIT LOCATION DIAGRAM

Operator: AMOCO PRODUCTION CO.

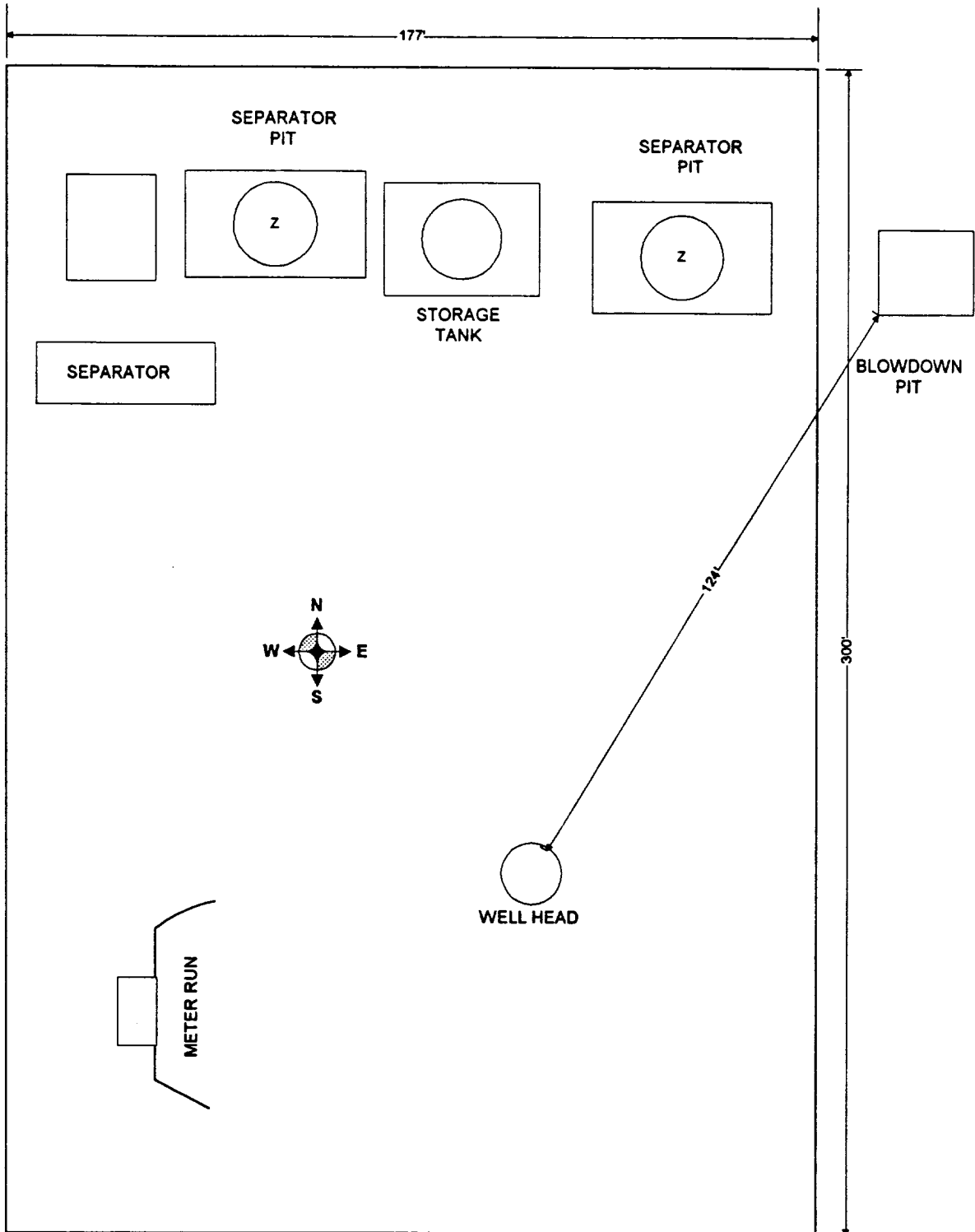
Telephone: (505) 326-9219

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: L. C. KELLY #4E

Well Name

Location: Unit or Qtr/Qtr Sec D Sec 3 T 30N R 12W County SAN JUAN



CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>WEE</u> C.O.C. NO: <u>5433</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>L.C. KELLY</u> WELL #: <u>4E</u> PITS: <u>Blow</u> QUAD/UNIT: <u>D</u> SEC: <u>3</u> TWP: <u>30N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW/4</u> <u>NW/4</u> CONTRACTOR: <u>WHOLE EARTH</u>	DATE STARTED: <u>11/17/97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV/EP</u>
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SOIL REMEDIATION:

REMEDIATION SYSTEM: <u>DILUTION & AERATION</u>	APPROX. CUBIC YARDAGE: <u>462</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>NA</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: 21000' NEAREST SURFACE WATER: 21000'

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

BORING CONDUCTED C PIT CENTER ACCORDING TO PIT CLOSURE REPORT, REACHED 7' DEPTH FROM GRADE, SOIL CONSIST OF OLIVE TO LT. GRAY SILTY SAND TO SILTY CLAY, NO APPARENT HC DOOR OBSERVED THROUGHOUT ENTIRE BORING, COLLECTED 3 SAMPLE PTS. USING HAND AUGER IN PIT AREA (1'-2' DEPTHS BELOW GRADE), 5 FT. COMPOSITE COLLECTED FOR LAB ANALYSIS OF SUPPOSEDLY DILUTED & AERATED SOIL, PLACED BACK INTO EXCAVATION AREA.

FIELD 4:1:1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
DA-1	0.0	DA-1	TPH (8015)	1120	ND
507'	0.0				

SCALE



0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 11/17/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

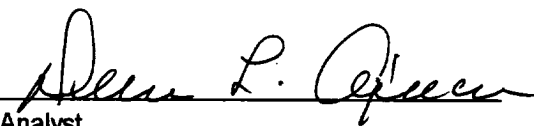
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	11-20-97
Laboratory Number:	C522	Date Sampled:	11-17-97
Chain of Custody No:	5433	Date Received:	11-19-97
Sample Matrix:	Soil	Date Extracted:	11-19-97
Preservative:	Cool	Date Analyzed:	11-19-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

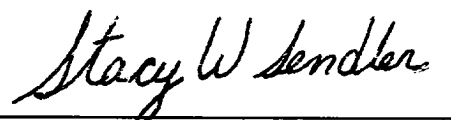
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: L. C. Kelly #4E Blow Pit. 5 Pt. Composite.


Analyst


Review

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P.O. Box 1980, Hobbes, NM

State of New Mexico
Energy, Minerals and Natural Resource Department

SUBMIT 1 COPY TO
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Santa Fe, New Mexico 87504-2088

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1000 Rio Brazos Rd, Aztec, NM 87410

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>AMOCO PRODUCTION COMPANY</u>		Telephone: <u>(505) 326-9216</u>	
Address: <u>200 AMOCO COURT, FARMINGTON, NM 87401</u>			
Facility Or: <u>L.C. KELLY #4E</u>			
Well Name			
Location: Unit or Qtr/Qtr Sec <u>NW/NW</u> Sec <u>3</u> T <u>30</u> R <u>12</u> County <u>SAN JUAN</u>			
Pit Type: Separator <u>XX</u> Dehydrator <u> </u> Other <u> </u>			
Land Type: BLM <u>XX</u> State <u> </u> Fee <u> </u> Other <u> </u>			
Pit Location: Pit dimensions: Length <u>20</u> width <u>15</u> depth <u>4</u> (Attach diagram)			
Reference: wellhead <u>XX</u> Other <u> </u>			
Footage from reference: <u>135'</u>			
Direction from reference: <u>31</u> Degrees <u> </u> East North <u> </u> of <u>NORTH</u> West South <u> </u>			
Depth To Ground Water: Less than 50 feet (20 points)			
(Vertical Distance from 50 feet to 99 feet (10 points)			
contaminants to seasonal high water elevation of ground water) Greater than 100 feet (0 points) <u>0</u>			
Wellhead Protection Area: Yes (20 points)			
(less than 200 feet from a private domestic water source, or, less than 1000 feet from all other water sources) No (0 points) <u>0</u>			
Distance To Surface Water: Less than 200 feet (20 points)			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) 200 feet to 1000 feet (10 points)			
Greater than 1000 feet (0 points) <u>0</u>			
RANKING SCORE (TOTAL POINTS): <u>0</u>			

Date Remediation Started: 06/16/94 Date Completed: 06/16/94

Remediation Method: Excavation XX Approx. cubic yards 44

Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description of Remediation Action: _____

CONTAMINATED SOIL WAS REMEDIATED BY DILUTION AND AERATION.

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

Sample depth 4

Sample date 06/16/94 Sample time 03:00:00

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 0.0 @ 5' 11/17/97 915

TPH 283

Ground Water Sample: Yes _____ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE

TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 07/28/94 5/23/98 915

SIGNATURE

Buddy Shaw

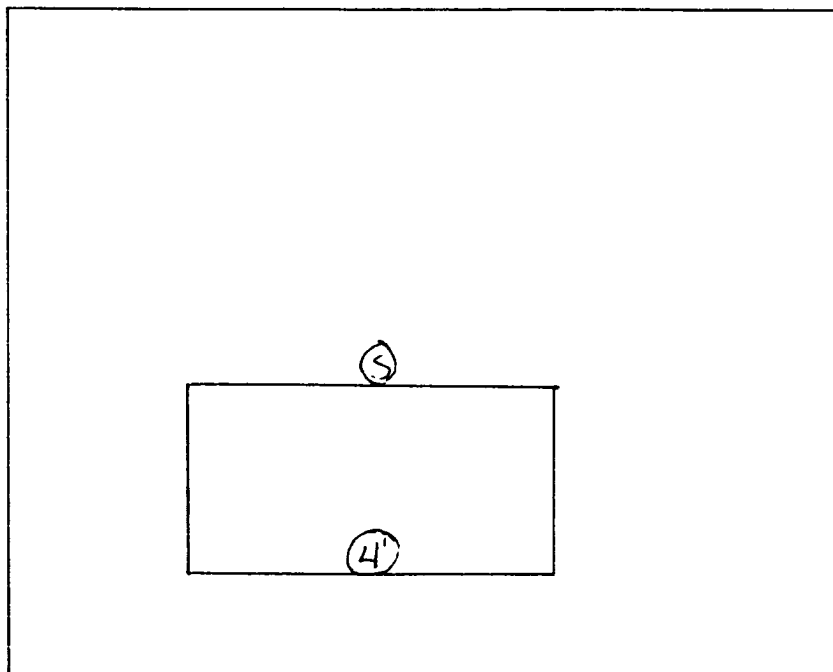
PRINTED NAME BUDDY SHAW E.C.
AND TITLE

FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216
 Address: 200 AMOCO COURT, FARMINGTON, NM 87401
 Facility Or: L.C. KELLY #4E
 Well Name
 Location: Unit or Qtr/Qtr Sec NW/NW Sec 3 T 30 R 12 County SAN JUAN

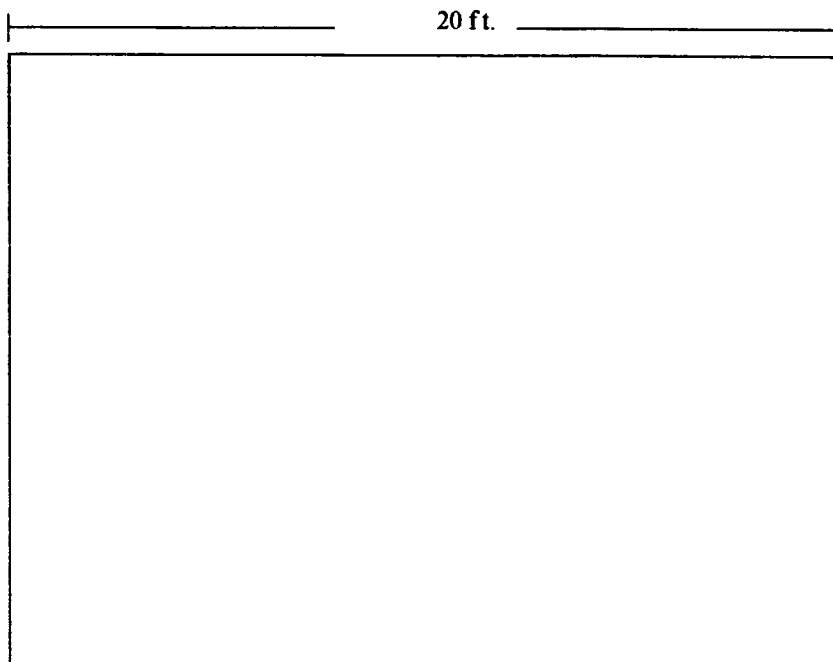
Depth	TPH
Surface	1540 ppm
2 ft.	ppm
4 ft.	283 ppm
6 ft.	ppm
8 ft.	ppm
10 ft.	ppm
12 ft.	ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
ft.	ppm
ft.	ppm
5 ft.	0.0 ppm

SIDE VIEW



TOP VIEW

North Side	213 ppm
East Side	423 ppm
South Side	175 ppm
West Side	37 ppm



CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>WEE</u> C.D.C. NO: <u>5433</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>L.C. KELLY</u> WELL #: <u>4E</u> PITS: <u>SEP.</u> QUAD/UNIT: <u>D</u> SEC: <u>3</u> TWP: <u>30N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW14 NW14</u> CONTRACTOR: <u>WHOLE EARTH</u>	DATE STARTED: <u>11/17/97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NW/EP</u>
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SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>DILUTION & AERATION</u>	APPROX. CUBIC YARDAGE: <u>44</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>NA</u>

FIELD NOTES & REMARKS:

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

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

BORING CONDUCTED @ PIT CENTER ACCORDING TO PIT CLOSURE REPORT, REACHED 5' DEPTH FROM GRADE, SOIL CONSIST OF DK. YELL. BROWN SAND THROUGHOUT ENTIRE BORING, NO DISCOLORATION OR HC ODOR OBSERVED W/IN BORING OR THE 3 SAMPLE PTS. COLLECTED W/ HAND AUGER (1'-2' DEPTH BELOW GRADE), 5 PT. COMPOSITE COLLECTED FOR LAB ANALYSIS OF SUPPOSEDLY DILUTED & AERATED SOIL PLACED BACK INTO EXCAVATED AREA.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
<u>DA-1</u>	<u>0.0</u>	<u>DA-1</u>	<u>TAH (8015)</u>	<u>1045</u>	<u>ND</u>
<u>5es'</u>	<u>0.0</u>				

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: NA ONSITE: 11/17/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

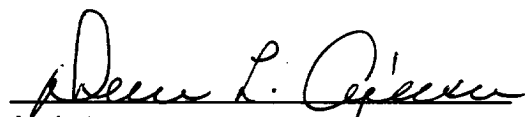
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	11-20-97
Laboratory Number:	C521	Date Sampled:	11-17-97
Chain of Custody No:	5433	Date Received:	11-19-97
Sample Matrix:	Soil	Date Extracted:	11-19-97
Preservative:	Cool	Date Analyzed:	11-19-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

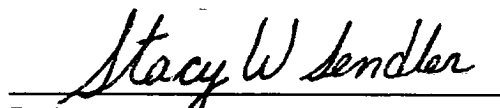
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: L. C. Kelly #4E Separator Pit. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name <i>BURG/Muoco</i>			Project Location <i>L. C. KELLY #4E</i>			ANALYSIS/PARAMETERS						
Sampler: (Signature) <i>John V. J.</i>			Chain of Custody Tape No. <i>04034-10</i>			No. of Containers <i>TPH (8015)</i>						
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							Remarks	
<i>DA-1</i>	<i>11/17/97</i>	<i>1045</i>	<i>C521</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>					<i>SEMI-METAL P.T.</i>	
<i>DA-1</i>	<i>11/17/97</i>	<i>1120</i>	<i>C522</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>					<i>BLOW PIT</i>	
											<i>BOTH SAMPLES</i>	
											<i>RESERV. - COOL</i>	
											<i>4 ARE 5 PT.</i>	
											<i>COMPOSITES.</i>	
Relinquished by: (Signature) <i>John V. J.</i>			Date <i>11/19/97</i>	Time <i>0805</i>	Received by: (Signature) <i>John D. Quinn</i>						Date <i>11-19-97</i>	Time <i>0801</i>
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

Ref COC's 5431, 5433, 5434, 5435,
5436, 5437

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615