

B/ow - 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, Minerals and Natural Resource Department

RECEIVED
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088
OCT - 7 1999

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216
Address: 200 AMOCO COURT, FARMINGTON, NM 87401
Facility Or: STATE GAS COM BC #1E
Well Name _____
Location: Unit or Qtr/Qtr Sec SW/NE 6 Sec 32 T 31 R 12 County SAN JUAN
Pit Type: Separator _____ Dehydrator _____ Other BLOW DOWN
Land Type: BLM _____ State XX Fee _____ Other _____

Pit Location: Pit dimensions: Length 55 width 50 depth 11
(Attach diagram)
Reference: wellhead XX Other _____
Footage from reference: _____
Direction from reference: _____ 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 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (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 No	(20 points) (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 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/23/94 Date Completed: 06/25/94

Remediation Method: Excavation XX Approx. cubic yards 1120

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 AERIATION.

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 11

Sample date 06/24/94 Sample time 09:30:00

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 11.7 @ 11' 10/23/97 915

TPH 427

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 5/25/98 915

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: STATE GAS COM BC #1E

Well Name

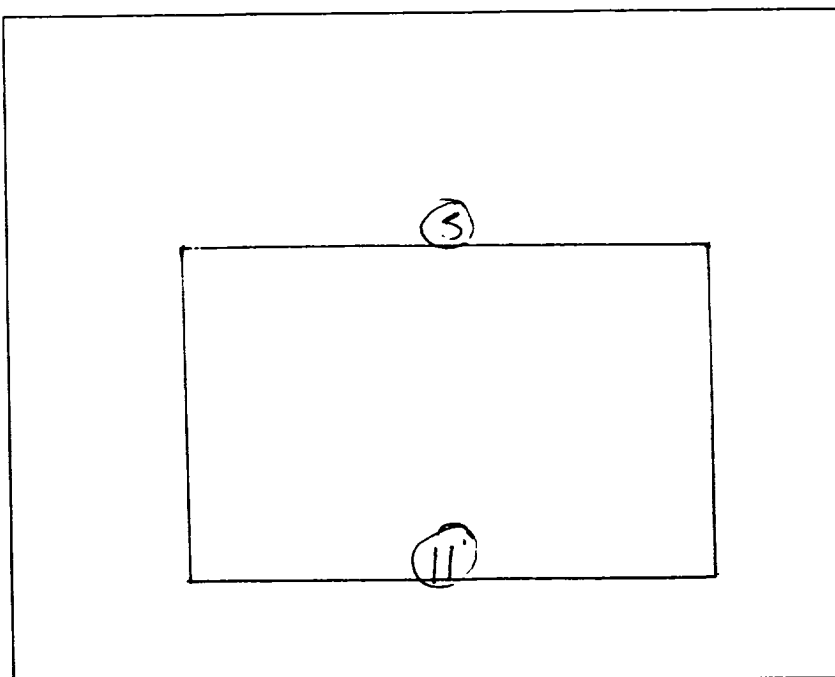
Location: Unit or Qtr/ Qtr Sec SW/NE Sec 32 T 31 R 12 County SAN JUAN

Depth

TPH

Surface	3640 ppm
2 ft.	ppm
4 ft.	4750 ppm
6 ft.	ppm
8 ft.	3980 ppm
10 ft.	ppm
12 ft.	ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
11' ft.	427 ppm
ft.	ppm
11 ft.	0.00m 11.7 ppm 9.5

SIDE VIEW



TOP VIEW

North Side	66 ppm
East Side	97 ppm
South Side	108 ppm
West Side	221 ppm

North



55 ft.

50 ft.

PIT LOCATION DIAGRAM

Operator: AMOCO PRODUCTION CO.

Telephone: (505) 326-9219

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: STATE GAS COM BC #1E

Well Name

Location: Unit or Qtr/Qtr Sec

G

Sec

32

T

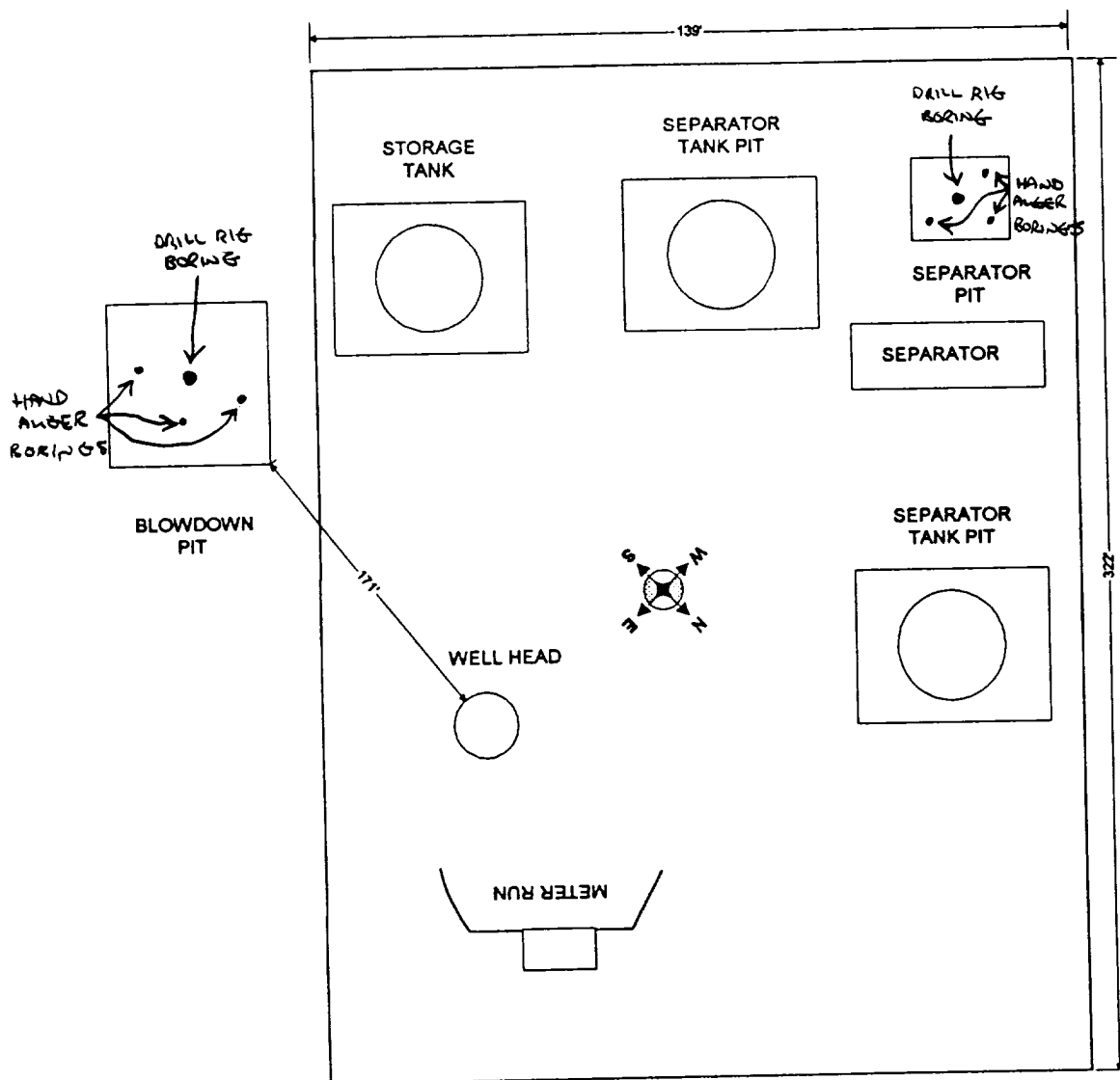
31

R

12

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>5422</u>
----------------------	--	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>STATE GC BC</u> WELL #: <u>1E</u> PITS: <u>BLOW</u>	DATE STARTED: <u>10/23/97</u> DATE FINISHED: _____
QUAD/UNIT: <u>6</u> SEC: <u>32</u> TWP: <u>31N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NU/JCB</u>
QTP/FOOTAGE: <u>5wly NE14</u> CONTRACTOR: <u>WHOLE EARTH</u>	

SOIL REMEDIATION:

REMEDICATION SYSTEM: DILUTION + AERATION

APPROX. CUBIC YARDAGE: 1,120

LAND USE: RANGE

LIFT DEPTH (ft): NA

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 11' DEPTH BELOW GRADE, ENCOUNTERED VERY HARD CLAY @ 11' SOIL CONSIST OF SILTY SAND FROM 0-5' BELOW GRADE, DK. GRAY DISCOLORED SILTY CLAY TO CLAY BETWEEN 5'-11', COLLECTED 3 SAMPLE PTS. USING HAND AUGER (2'-3' DEPTH BELOW GRADE) IN PIT AREA, 5 FT. COMPOSITE SAMPLE 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
DA-1	1.0	DA-1	TPH (8015)	1400	111
⑤ @ 11'	11.7				

SCALE

0  FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 10/23/97

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

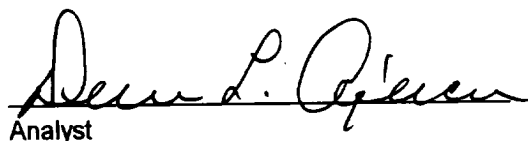
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	10-28-97
Laboratory Number:	C370	Date Sampled:	10-23-97
Chain of Custody No:	5422	Date Received:	10-24-97
Sample Matrix:	Soil	Date Extracted:	10-27-97
Preservative:	Cool	Date Analyzed:	10-28-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

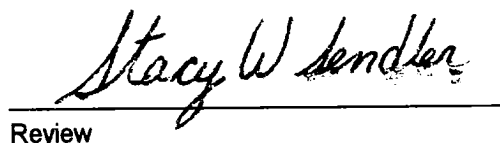
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	111	0.1
Total Petroleum Hydrocarbons	111	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: State GC BC #1E. Blow Pit. 5 Pt. Composite.


Analyst


Review

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

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

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resource 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
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216
Address: 200 AMOCO COURT, FARMINGTON, NM 87401
Facility Or: STATE GAS COM BC #1E
Well Name _____
Location: Unit or Qtr Qtr Sec SW/NE Sec 32 T 31 R 12 County SAN JUAN
Pit Type: Separator XX Dehydrator _____ Other _____
Land Type: BLM _____ State XX Fee _____ Other _____

Pit Location: Pit dimensions: Length 30 width 25 depth 14
(Attach diagram)
Reference: wellhead XX Other _____
Footage from reference: 158'
Direction from reference: 262 Degrees _____ East North _____
of
_____ West South WEST

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)	<u>0</u>
high water elevation of			
ground water)			

Wellhead Protection Area:	Yes	(20 points)	
(less than 200 feet from a private	No	(0 points)	<u>0</u>
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)	
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches)			

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 06/23/94 Date Completed: 06/25/94
Remediation Method: Excavation XX Approx. cubic yards 388

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 AERIATION.

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 14

Sample date 06/24/94 Sample time 08:00:00

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 38.3 @ 14' 10/23/97 215

TPH 836

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

5/25/98 mv

SIGNATURE

Buddy Shaw

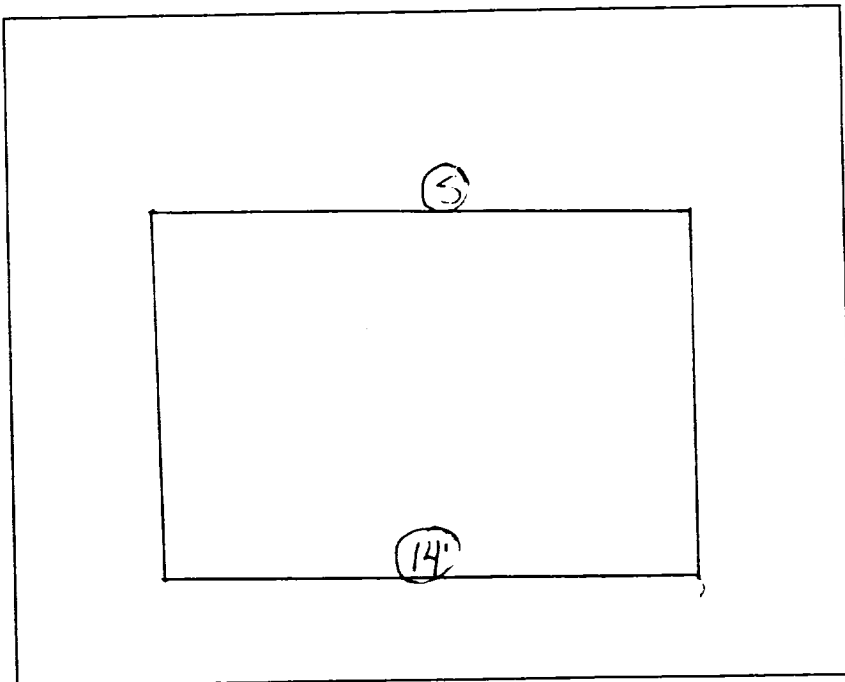
PRINTED NAME BUDDY SHAW E.C.
AND TITLE

FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216
 Address: 200 AMOCO COURT, FARMINGTON, NM 87401
 Facility Or: STATE GAS COM BC #1E
 Well Name _____
 Location: Unit or Qtr: Qtr Sec SW/NE Sec 32 T 31 R 12 County SAN JUAN

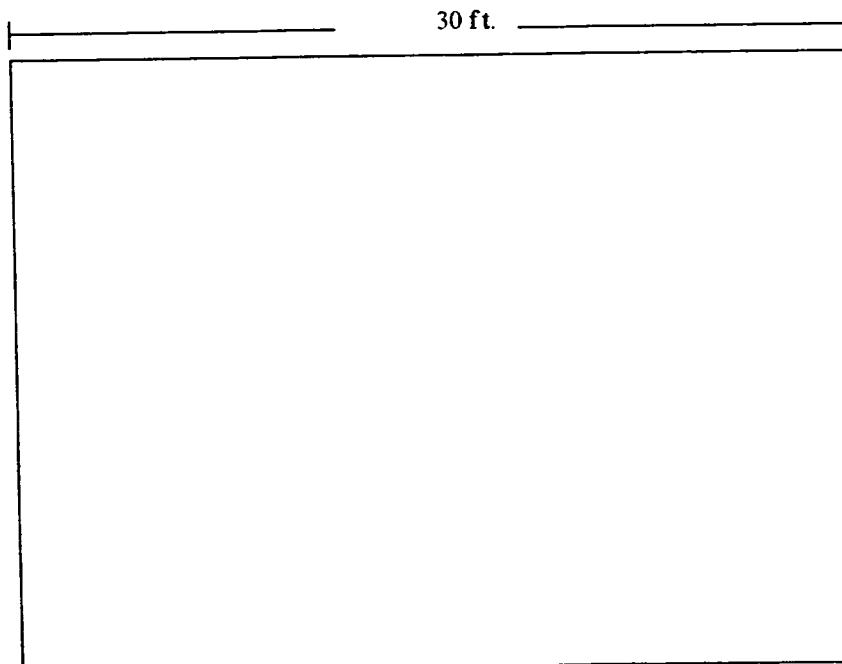
Depth	TPH
Surface	7530 ppm
2 ft.	ppm
4 ft.	3650 ppm
6 ft.	ppm
8 ft.	2380 ppm
10 ft.	ppm
12 ft.	1470 ppm
14 ft.	836 ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
ft.	ppm
ft.	ppm
14 ft.	38.3 ppm

SIDE VIEW



TOP VIEW

North Side	763 ppm
East Side	68 ppm
South Side	634 ppm
West Side	559 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>5422</u>
----------------------	---	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>STATE GC BC</u> WELL #: <u>1E</u> PITS: <u>SEP</u> QUAD/UNIT: <u>G</u> SEC: <u>32</u> TWP: <u>31N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>SI</u> ST: <u>NM</u> DTP/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>WHOLE EARTH</u>	DATE STARTED: <u>10/23/97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NU/JCB</u>
---	--

SOIL REMEDIATION:

REMEDIATION SYSTEM: <u>DILUTION & AERATION</u>	APPROX. CUBIC YARDAGE: <u>38.8</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>NA</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'

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

BORING CONDUCTED @ PIT CENTER ACCORDING TO PIT CLOSURE REPORT, REACHED 14' DEPTH BELOW GRADE, SOIL CONSIST OF DK. GRAY DISCOLORED SAND TO SILTY CLAY W/ STRONG HC ODOR BETWEEN 1 1/2' - 10' BELOW GRADE, LT. GRAY SILTY CLAY TO HARD CLAY W/ SLIGHT HC ODOR BETWEEN 10' - 14', COLLECTED 2 SAMPLE PTS. USING HAND AUGER (2'-3' BELOW GRADE) IN PIT AREA, 5 FT. 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

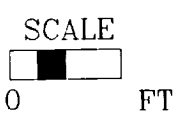
SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
0A-1	90.4	0A-1	TPH (8015)	1330	538
⑤ @ 14'	38.3				



TRAVEL NOTES: CALLOUT: NA ONSITE: 10/23/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

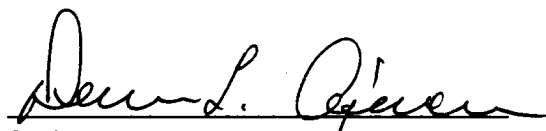
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	10-28-97
Laboratory Number:	C369	Date Sampled:	10-23-97
Chain of Custody No:	5422	Date Received:	10-24-97
Sample Matrix:	Soil	Date Extracted:	10-27-97
Preservative:	Cool	Date Analyzed:	10-28-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

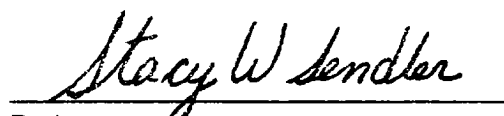
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.1	0.2
Diesel Range (C10 - C28)	534	0.1
Total Petroleum Hydrocarbons	538	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: State GC BC #1E. Separator Pit. 5 Pt. Composite.


Analyst


Review

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