

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

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

RECEIVED  
AUG 12 1993

OIL CON. DIV.  
DIST. 3

PTT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: MARTINEZ GC I #1  
Well Name  
Location: Unit or Qtr/Qtr Sec K Sec 24 T 29N R 10W County SAN JUAN  
Pit Type: Separator    Dehydrator    Other Blow  
Land Type: BLM   , State   , Fee X, Other   

Pit Location: Pit dimensions: length 50', width 50', depth 24'  
Attach diagram) Reference: wellhead X, other     
Footage from reference: 200'  
Direction from reference: 0 Degrees X 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) 10

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): 10

Date Remediation Started: \_\_\_\_\_ Date Completed: 7/15/93

Remediation Method: Excavation ☒ Approx. cubic yards 2,000  
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
Other \_\_\_\_\_

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

General Description Of Remedial Action: \_\_\_\_\_  
Excavation. BEDROCK BOTTOM, RISK ASSESSED.

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 22' (PIT Bottom)

Sample date 7/13/93 Sample time 1057

## Sample Results

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

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

Field headspace(ppm) 164

TPH 26.7 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 7/15/93

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

94918 / C4918

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140  
PAGE No: 1 of 1

LOCATION: LEASE: MARTINEZ WELL: GC I1 QD: NE1/4 SW1/4 (K)  
SEC: 24 TWP: 29N RNG: 10W BM: NM CNTY: SAN JUAN ST: NM PIT: BLOW  
CONTRACTOR: PAUL VELASQUEZ  
EQUIPMENT USED: TRACKHOE

DATE STARTED: 7/13/93  
DATE FINISHED: 7/13/93

ENVIRONMENTAL SPECIALIST: NJ

SOIL REMEDIATION: QUANTITY: 50x50x24' 2000 C.Y. 915  
DISPOSAL FACILITY: ON-SITE LANDFARM 915  
LAND USE: RANGE  
SURFACE CONDITIONS: UNKNOWN

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 65-70 YARDS DUE EAST FROM WELLHEAD.  
DEPTH TO GROUNDWATER: < 100 FT.  
NEAREST WATER SOURCE: 500-700 FT. > 1000 FT. 915  
NEAREST SURFACE WATER: > 1000 FT.

VARYING COLOR SANDS, NON-COHESIVE, DRY, LOOSE TO VERY HARD (BEDROCK)  
SOME MINUTE AMOUNT OF CONTAMINATION AT TOP SHELF OF EXCAVATED  
BOTTOM (SEE PIT PERIMETER & PROFILE BELOW). SIDE WALLS APPEAR TO  
BE FREE OF HYDROCARBON CONTAMINATION. EXCAVATED THROUGH BEDROCK  
AT LEAST 10-12 FT. SAMPLES # ① & ③ COLLECTED WITHIN SAND & GRAVEL INTERVAL.

### FIELD 418.1 CALCULATIONS

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

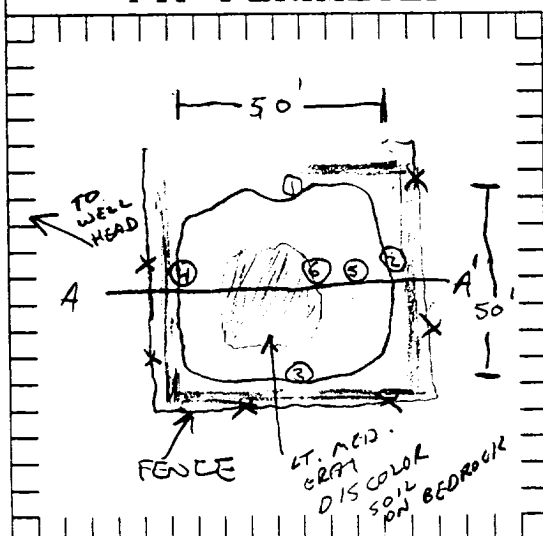
SCALE



0

FEET

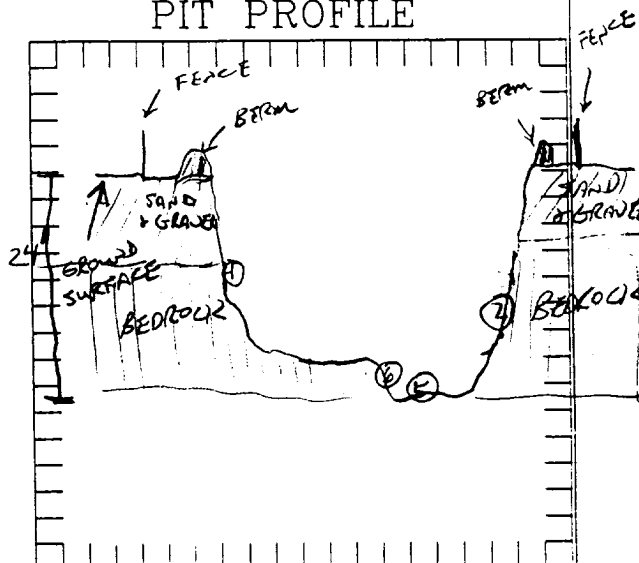
### PIT PERIMETER



### OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① 12'	0.6
② 18'	0.0
③ 11'	0.0
④ 13'	1.1
⑤ 24'	156
⑥ 22'	164
⑥ 22'	418.1 TPA
LOCK 2821	

### PIT PROFILE



TRAVEL NOTES: CALLOUT: 7/13/93 ONSITE: 7/13/93 10:10 AM - 11:40 AM

**Well Name:**

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

**Martinez GC I #1**

Unit K, Sec. 24, T29N, R10W

Blow Pit

Blanco Mesa Verde

Vulnerable

&gt; 1000 ft.

&gt; 50 ft.

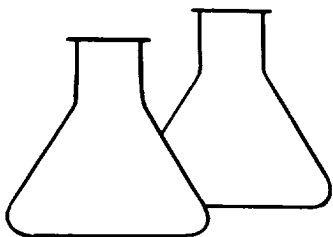
**RISK ASSESSMENT (vulnerable area)**

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 24 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 24 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	6 @ 22'	Date Sampled:	07-13-93
Laboratory Number:	5680	Date Received:	07-13-93
Sample Matrix:	Soil	Date Analyzed:	07-15-93
Preservative:	Cool	Date Reported:	07-15-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	26.7	5.0

ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Martinez GC I 1, Blow Pit, C4918.

Lu Chabala  
Analyst

Morris D Young  
Review



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>C4918</u> C.O.C. NO: <u>5645</u>
----------------------	--	---

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>MARTINEZ GC</u> I WELL #: <u>1</u> PITS: <u>BLOW</u>	DATE STARTED: <u>12-4-97</u>
QUAD/UNIT: <u>(K)</u> SEC: <u>24</u> TWP: <u>29 N</u> RNG: <u>10 W</u> PM: <u>NM</u> CNTY: <u>SS</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>NE/4 60/4</u> CONTRACTOR: <u>P&amp;S</u>	ENVIRONMENTAL SPECIALIST: <u>NV/EP</u>

### SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 2,000

LAND USE: RANGE

LIFT DEPTH (ft): 6"-12"

### FIELD NOTES & REMARKS:

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

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

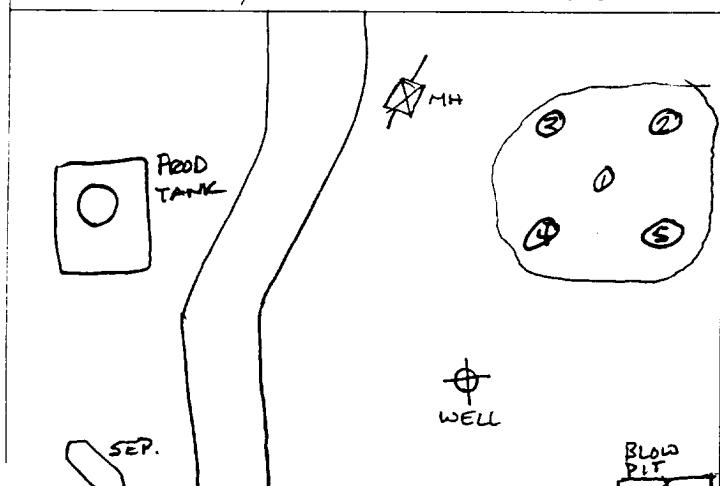
SOIL IS A DRY DARK YELLOW w/ LIGHT BROWN SILTY SAND  
SOME LIGHT GRAY CLAY. NO STAIN OR HC ODOR

TOOK 5 FT COMPOSITE FROM LANDFARM. FOR ANALYSIS.

### FIELD 418.1 CALCULATIONS

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

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

### LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	8015	1150	ND

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

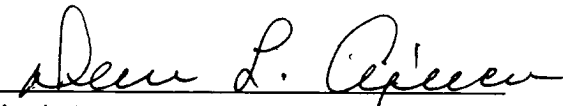
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-09-97
Laboratory Number:	C649	Date Sampled:	12-04-97
Chain of Custody No:	5645	Date Received:	12-05-97
Sample Matrix:	Soil	Date Extracted:	12-08-97
Preservative:	Cool	Date Analyzed:	12-08-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

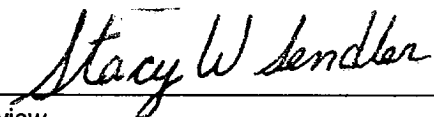
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Martinez GC I #1 Landfarm. 5 Pt. Composite.**

  
Analyst

  
Review



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