BLOW-OUT
Sep - risk - unknown

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
trict 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 1999
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: MARTINEZ GC F #1
Well Name

Location: Unit or Qtr/Qtr Sec L Sec 24 T29N R 10W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 45', width 60', depth 30'
Reference: wellhead X, other ___
Footage from reference: 120'
Direction from reference: 40 Degrees ___ East North ___ of X 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)	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)	20
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)	10
	RANKING SCORE (TOTAL POINTS):	40

C4917 BLOW PIT

Date Remediation Started: _____ **Date Completed:** 7/9/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 3,000

Landfarmed ___ Insitu Bioremediation ___

Other X COMPOSTED

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

General Description Of Remedial Action: _____

Excavation, BEDROCK BOTTOM (27'-30')

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 30' (PIT BOTTOM)

Sample date 7/9/93 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.9

TPH ND

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 7/9/93

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

ENVIROTECH Inc.

C4917

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

FIELD REPORT: CLOSURE VERIFICATION

JOB No 92140
PAGE No 1 of 1

LOCATION: LEASE MARTINEZ GAS COM "E" WELL No. 1 QD: NW/4 SW/4 (L)
SEC. 24 TWP: 29N RNG: 10W BM: NMPM CNTY: SJ ST. NM PIT: BLOW
CONTRACTOR: PAUL VOLASQUEZ
EQUIPMENT USED: TRACK-HOE

DATE STARTED: 7-9-93
DATE FINISHED: 7-9-93
ENVIRONMENTAL SPECIALIST: RMV

SOIL REMEDIATION: QUANTITY: 45'x 60' x 30' deep 3,000 C.Y. ±
DISPOSAL FACILITY: ON-SITE LANDFARM
LAND USE: RANGE - PRIVATE LEASE
SURFACE CONDITIONS: Excavated upon Arrival - dark layer @ 3' above pit bottom appears to be groundwater.

FIELD NOTES & REMARKS: PIT (CENTER) LOCATED APPROXIMATELY 40 YARDS S 40°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 50-100'
NEAREST WATER SOURCE: 200' - HOUSE + STREAM
NEAREST SURFACE WATER: 200' - STREAM

Residence Approx 200' EAST of Pit CENTER

Recommend closure / backfill of Pit.

FIELD 418.1 CALCULATIONS

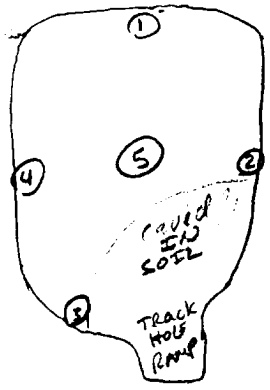
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
S @ 30' bgs	GAC0118	12.67g	20	1:1	3	ND

SCALE
0 10 20 FEET

N

SURFACE FLOW & SUSP GW DOWN GRAD

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 24'	GW/SW 1.3
2 @ 25'	SW 2.2
3 @ 27'	GW/SW 0.9
4 @ 27'	SW 1.3
5 @ 30'	SW 0.9

PIT PROFILE

0'-18' ML. FIRM SILT.
Light yellowish brown to Moderate...
DRY TO SLIGHTLY MOIST..
No Visible Contamination

18'-27' SW/GW. Sands, gravels, and cobbles.
Moderate yellowish brown.
LOOSE, MOIST TO WET.
No Visible Contam

27'-30' SW. Poorly Lithified Sandstone.
Moderate Yellowish brown.
HARD. WET TO SATURATED.
NO VISIBLE CONTAM

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 30' bgs	Date Analyzed:	07-09-93
Project Location:	Martinez Gas Com "F" No. 1	Date Reported:	07-09-93
Laboratory Number:	GAC0118	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Petroleum Hydrocarbons	ND	8

Quality Assurance:

Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
1042	916	13

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

Comments: Blow Pit C4917

Robert M Young
Analyst

Review

District I
P.O. Box 1980, Hobbs, NM
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trict III
1000 Rio Brazos Rd, Aztec, NM 87410

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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: MARTINEZ GC F #1
Well Name

Location: Unit or Qtr/Qtr Sec L Sec 24 T 29N R 10W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 25', width 25', depth 21'
Reference: wellhead X, other ___
Footage from reference: 165'
Direction from reference: 4 Degrees X 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)	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)	20
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)	10
	RANKING SCORE (TOTAL POINTS):	40

ENVIROTECH Inc.

C4919
Loc #2821

C4919 SEP. PIT

Date Remediation Started: _____ **Date Completed:** 7/19/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 450

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

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

General Description Of Remedial Action: _____

Excavation. RISK ASSESSED.

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 21' (WEST SIDEWALL)

Sample date 7/16/93 Sample time 0915

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 564

TPH 4,070

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

Well Name:	**Martinez GC F #1**
Well Site location:	Unit L, Sec. 24, T29N, R10W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable
Horizontal Distance to Surface Water:	< 1000 ft.
Vicinity Groundwater Depth:	> 50 ft.

RISK ASSESSMENT (vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 21 ft. below grade and for safety concerns (underground piping and surface equipment).

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

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shallow sandstone bedrock (based on formal site observation of on-site blow pit located approximately southeast, 115 lateral feet from pit center to pit center).
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 vertical and lateral contamination is limited and impact to groundwater is very unlikely. 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:	#4 @ 21'	Date Sampled:	07-16-93
Laboratory Number:	5690	Date Received:	07-16-93
Sample Matrix:	Soil	Date Analyzed:	07-19-93
Preservative:	Cool	Date Reported:	07-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	4,070	50.0

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 F1, Separator Pit, C4919.

Analyst

Review

2831

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO # 92140	MARTINEZ GC F1 SEP, PIT	C4919
Sampler: (Signature) R. E. O'Neill	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	418.1						Remarks
#4 @ 21'	7-16-93	0915	5690	SOIL	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. E. O'Neill	7-16-93	1335	Maria L. Quevedo	7-16-93	1335
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80306
C.O.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: MARTINEZ GC WELL #: F1 PITS: SEP.
QUAD/UNIT: L SEC: 24 TWP: 29N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NW SW CONTRACTOR: P. VELASQUEZ

DATE STARTED: 9/1/95
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:
REMEDIATION SYSTEM: COMPOSTED APPROX. CUBIC YARDAGE: ~~3486~~ 3450 NV
LAND USE: RANGE LEASE: _____

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: <1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 40 NMOCD TPH CLOSURE STD: 100 PPM

MOSTLY OR. YELL BROWN SAND, CENTER CONTAINED BLACK DISCOLORED SOIL W/ MANURE ODOR, NON-COHESIVE EXCEPT CENTER MATERIAL (SLIGHTLY PLASTIC), SLIGHTLY MOIST. ASSUMED THAT NOT ALL ORGANICS FROM MANURE WERE REMOVED DURING TPH FIELD ANALYSES, THEREFORE THE CALCULATED PPM READINGS SHOWN BELOW ARE PROBABLY LESS.

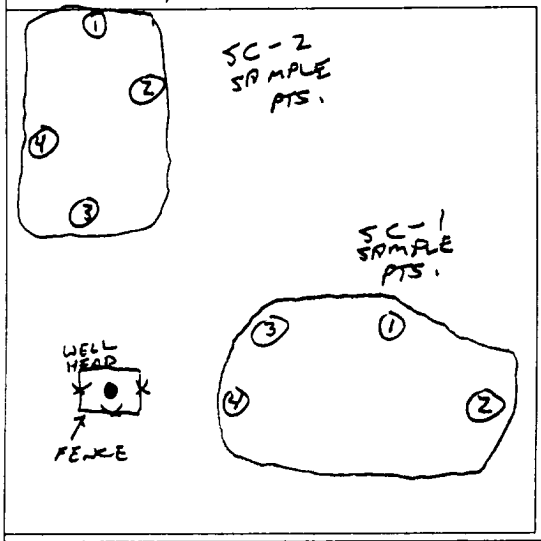
FORMER REF. # - C4919

CLOSED NV

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
SC-1	TPH-1562	5	20	1:1	24	96
SC-2	TPH-1563	5	20	1:1	29	116

SKETCH/SAMPLE LOCATIONS



SCALE
0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
SC-1	3.4
SC-2	2.6

LAB SAMPLES

SAMPLE ID	ANALYSIS

TRAVEL NOTES: CALLOUT: 8/31/95 AFTER. ONSITE: 9/1/95 MORN.

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:	SC - 1	Date Analyzed:	09-01-95
Project Location:	Martinez GC F 1	Date Reported:	09-01-95
Laboratory Number:	TPH-1562	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	96	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
15120	15960	5.41

*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: Compost Piles Composite Sample - B0306

Analyst

Review

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:	SC - 2	Date Analyzed:	09-01-95
Project Location:	Martinez GC F 1	Date Reported:	09-01-95
Laboratory Number:	TPH-1563	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**120**	**20**

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
15120	15960	5.41

*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: Compost Piles Composite Sample - B0306

Analyst

Review

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:	**********		
Client:	AMOCO	Project #:	
Sample ID:	SC - 1	Date Analyzed:	09-01-95
Project Location:	Martinez GC F 1	Date Reported:	09-01-95
Laboratory Number:	TPH-1562	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	24	mg/kg

TPH Result:	96.0	mg/kg
Reported TPH Result:	96	mg/kg
Actual Detection Limit:	20.0	mg/kg
Reported Detection Limit:	20	mg/kg

QA/QC:

Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
15120	15960	5.41

Comments: **********Max Characters**********

Comments: Compost Piles Composite Sample - B0306

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:	**********		
Client:	AMOCO	Project #:	
Sample ID:	SC - 2	Date Analyzed:	09-01-95
Project Location:	Martinez GC F 1	Date Reported:	09-01-95
Laboratory Number:	TPH-1563	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	29	mg/kg

TPH Result:	116.0	mg/kg
Reported TPH Result:	120	mg/kg
Actual Detection Limit:	20.0	mg/kg
Reported Detection Limit:	20	mg/kg

QA/QC:

Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
15120	15960	5.41

Comments: **********Max Characters**********

Comments: Compost Piles Composite Sample - B0306