District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 RioBrazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Engery, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
CROSS TIMBERS OPERATING COMPANY 6001 Highway 64 Farmington, NM 87401	167067
	[3] Reason for Filing Code 11/1/98 Change of Operator 12~~/1/97~~

[4] API Number	[5] Pool Name	[6] Pool Code
30-045-24001	BASIN DAKOTA	71599
[7] Property Code	[8] Property Name	[9] Well Number
	MCCARTY GAS COM B	1E

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	16	29N	11W		1680	N	1670	E	SJ

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
S					

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] POD	[21] O/G	[22] POD ULSTR Location and Description

RECEIVED
DEC 19 1997
OIL CON. DIV.
DIST. 3

IV. Produced Water

[23] POD	[24] POD ULSTR Location and Description

V. Well Completion Data

[25] Spud Date	[26] Ready Date	[27] TD	[28] PBTD	[29] Perforation	[30] DHC,DC,MC

[31] Hole Size	[32] Casing and Tubing Size	[33] Depth Set	[34] Sacks Cement

VI. Well Test Data

[35] Date New Oil	[36] Gas Delivery Date	[37] Test Date	[38] Test Length	[39] Tbg. Pressure	[40] Csg. Pressure
[41] Choke Size	[42] Oil	[43] Water	[44] Gas	[45] AOF	[46] Test Method

[47] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete tothe best of my knowledge and belief.

Signature: Vaughn O. Vennerberg

Printed Name: Vaughn O. Vennerberg, II

Title: Sr. Vice President-Land

Date: December 1, 1997 Phone: (505) 632-5200

OIL CONSERVATION DIVISIO

Approved by: Frank T. Chavez

Title: Supervisor District #3

Approval Date:

[48] If this is a change of operator fill in the OGRID number and name of the previous operator Amoco Production Company OGRID# 000778

Previous Operator Signature	Printed Name	Title	Date
	Gail Jefferson	Senior Administrative Staff Assistant	12/01/97

Blow — on Sep — risk — non Vulnerable C4951

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 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: Well Name: McCarty GC B #1E

Location: Unit or Qtr/Qtr Sec G Sec 16 T 29N R 11W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other Blow

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

Pit Location: (Attach diagram)
Pit dimensions: length 50', width 60', depth 26'
Reference: wellhead X, other ___
Footage from reference: 250'
Direction from reference: 60 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)	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:** 11/24/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 1500

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

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

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 20' (WEST SIDEWALL)

Sample date 11/19/93 Sample time 1205

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 28.718

Field headspace(ppm) 1127

TPH 1890 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 11/24/93

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

11/30/93 RESULTS TO EARL R. - ALL CLEAN EXCEPT FOR RESIDUAL SIDEWALL CONTAMINATION ON WEST WALL OF DEEP HOLE (#8) - BOTTOM OK, - HOLE HAS BEEN BACKFILLED.

ENVIROTECH Inc.

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

PIT NO: C4951
O.C.D. NO: 3187/3210

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: MCCARTY GC WELL #: B-1E QD: SW/4 NE/4 (G)
SEC: 16 TWP: 29 N RNG: 11 W BM: NM CNTY: S.J. ST: NM PIT: BLOW
CONTRACTOR: BILL MOSS
EQUIPMENT USED: EXCAVATOR

DATE STARTED: 11-12-93
DATE FINISHED: 11-19-93
ENVIRONMENTAL SPECIALIST: REO

SOIL REMEDIATION: QUANTITY: ~ 1500 CUBIC YARDS
DISPOSAL FACILITY: STOCKPILED ON SITE
LAND USE: RANGE
SURFACE CONDITIONS: EXCAVATED PRIOR TO ARRIVAL - PIT APPROX. 50' x 60' x 26' ~~NV~~

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 250 FEET S.60°E FROM WELLHEAD.
RAIN RUNOFF IN BOTTOM OF DEEP PIT - UNABLE TO SAMPLE ON 11/12.
PIT WALLS AND BOTTOM CONSIST OF BROWN, SANDY SOIL - NO ODOR OR APPARENT CONTAMINATION REMAINS. DEEP PORTION OF PIT WILL REQUIRE SAMPLING AFTER WATER INFILTRATES.
11-19-93: FINISH SAMPLING - APPEARS READY TO CLOSE, EXCEPT WEST SIDE @ 20' APPEARS TO RETAIN SOME SIDEWALL CONTAMINATION.

~~RISK ASSESSED~~ NV — CLOSED

NV

FIELD 418.1 CALCULATIONS

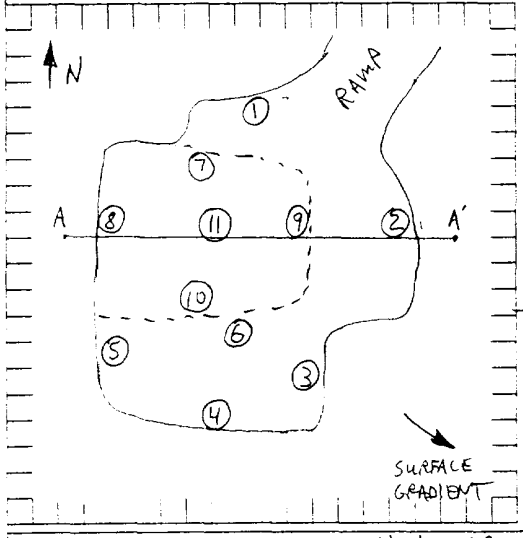
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

DEPTH TO GROUNDWATER: >100'
NEAREST WATER SOURCE: >1000'
NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0
NMOCD TPH CLOSURE STD: 5000

NON VULNERABLE

SCALE
0 10 20 FEET

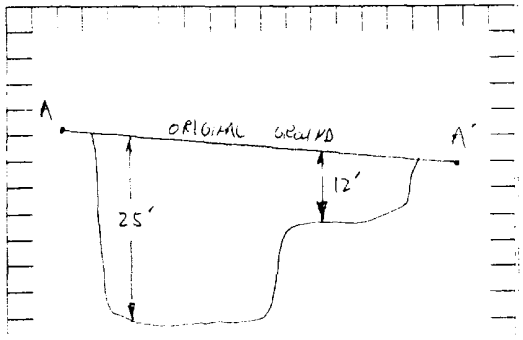
PIT PERIMETER



OVM RESULTS

	SAMPLE ID	FIELD HEADSPACE PID (ppm)
	11-12-93	
1	NS@10'	ND
2	ENS@8'	1.6
3	ESS@8'	1.2
4	SS@10'	ND
5	WS@9'	0.9
6	SB@12'	2.2
		LAB
	(6)	418.1
7	NS@20'	ND
8	WS@20'	1127
9	ES@20'	ND
10	SS@20'	ND
11	B@26'	13
(11)	B@26' - 418.1	
(8)	WS@20' - 418.1/BTEX	

PIT PROFILE



11-19-93

TRAVEL NOTES: CALLOUT: 11-12-93 ONSITE: 11-12-93 1130 HRS

R 60

ENVIROTECH LABS

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 SB @ 12"	Date Sampled:	11-12-93
Laboratory Number:	6493	Date Received:	11-12-93
Sample Matrix:	Soil	Date Analyzed:	11-12-93
Preservative:	Cool	Date Reported:	11-12-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	21.5	10.0

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: McCarty GC #B1E, Blow Pit, C4951

Tony Tristano
Analyst

Review

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:	8 WS @ 20'	Date Sampled:	11-19-93
Laboratory Number:	6528	Date Received:	11-19-93
Sample Matrix:	Soil	Date Analyzed:	11-24-93
Preservative:	Cool	Date Reported:	11-24-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,890	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: McCarty GC # B1E, Blow Pit, C4951

Tony Tristano
Analyst

Review

ENVIROTECH LABS

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

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	8 WS @ 20'	Date Reported:	11-24-93
Laboratory Number:	6528	Date Sampled:	11-19-93
Sample Matrix:	Soil	Date Received:	11-19-93
Preservative:	Cool	Date Extracted:	11-23-93
Condition:	Cool & Intact	Date Analyzed:	11-23-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	19.8
Toluene	418	49.5
Ethylbenzene	1,200	19.8
p,m-Xylene	16,100	39.6
o-Xylene	11,000	29.7

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: McCarty G.C. #B 1E Blow Pit C4951

Analyst

Review

ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	11 B @ 26'	Date Sampled:	11-19-93
Laboratory Number:	6529	Date Received:	11-19-93
Sample Matrix:	Soil	Date Analyzed:	11-24-93
Preservative:	Cool	Date Reported:	11-24-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	5.4	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: McCarty GC # B1E, Blow Pit, C4951

Tony Tristano
Analyst

Review

C4951

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO #92140	Blow PIT MCCARTY GC #B-1E	
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
(E) SB @ 12'	11-12-93	1300	6483	SOIL	1	V						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. E. O'Neill	11-12-93	1350	Denise L. Spencer	11-12-93	1357
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

san juan repro Form 578-81

CHAIN OF CUSTODY RECORD

C4951

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO #92140	MCCARTY G.C. #B 1E BLOW PIT	
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	BTEX					Remarks
(8) WS @ 20'	11-19-93	1205	6528	SOIL	1	✓	✓					
(11) B @ 26'	11-19-93	1210	6529	SOIL	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. E. O'Neill	11-19-93	1340	Tony Tristan	11/19/93	1345
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

san juan repro Form 578-81

C4953

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

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: McCARTY GC B #1E
Well Name

Location: Unit or Qtr/Qtr Sec G Sec 16 T 29N R 11W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

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

Pit Location: (Attach diagram)
Pit dimensions: length 20', width 20', depth 25'
Reference: wellhead X, other ___
Footage from reference: 140'
Direction from reference: 40 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)	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:** 11/24/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 500

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

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 20' (NORTH SIDEWALL)

Sample date 11/23/93 Sample time 0840

Sample Results

Benzene(ppm) 2.180

Total BTEX(ppm) 289.680

Field headspace(ppm) 780

TPH 12,800

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 11/24/93

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

11/30/93 RESULTS TO EARL R. - PIT REMAINS HIGHLY CONTAMINATED - ESPECIALLY NORTH WALL - EARL SAYS BUDDY DOES NOT WISH TO REMOVE EQUIPMENT - HOLE HAS BEEN BACKFILLED.

ENVIROTECH Inc.

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

PIT NO: C4953
C.O.C NO: 3218

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: MCCARTY GC WELL # B-1E QD. SW/4, NE/4 (G)
SEC: 16 TWP: 29N RNG: 11W BM: NM CNTY: S.J. ST: NM PIT: SEP
CONTRACTOR: BILL MOSS
EQUIPMENT USED: EXCAVATOR

DATE STARTED: 11-23-93
DATE FINISHED: 11-23-93

ENVIRONMENTAL SPECIALIST: REO

SOIL REMEDIATION: QUANTITY: ~ 500 CUBIC YARDS
DISPOSAL FACILITY: ~~UNKNOWN~~ ON-SITE STOCKPILED ~~ON~~ SV
LAND USE: RANGE
SURFACE CONDITIONS: EXCAVATED PRIOR TO ARRIVAL - PIT APPROX. 20' x 20' x 25' DEEP

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 140 FEET S.40°E FROM WELLHEAD.

NOTE: SIDE WALLS SLOUGHED INTO PIT BOTTOM - UNABLE TO OBTAIN UNDISTURBED SAMPLE FROM PIT BOTTOM - VERTICAL SIDES.

EAST AND SOUTH SIDEWALLS BROWN, SILTY SAND. NORTH WALL IS GRAY. - WEST WALL IS BLACK IN SAMPLE AREA. DEFINITE ODOR ON NORTH AND WEST WALLS.

SV

FIELD 418.1 CALCULATIONS

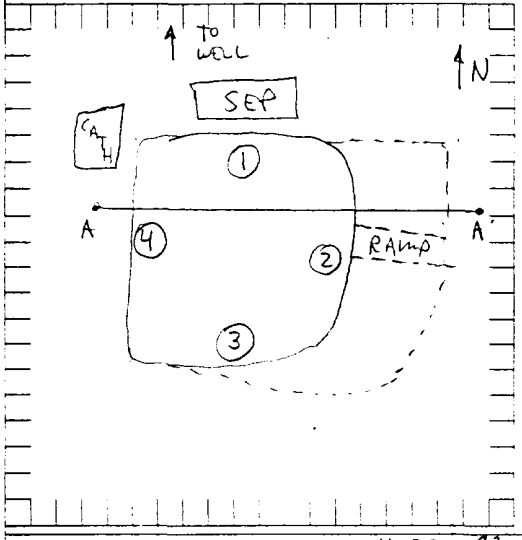
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

>100'
DEPTH TO GROUNDWATER: UNKNOWN
NEAREST WATER SOURCE: ~~UNKNOWN~~ >1000'
NEAREST SURFACE WATER: ~~RESERVOIR 700 YDS EAST~~ >1000'
NMOCD RANKING SCORE: 0
NMOCD TPH CLOSURE STD: 5000

NON VULNERABLE

SCALE
0 5 10 FEET

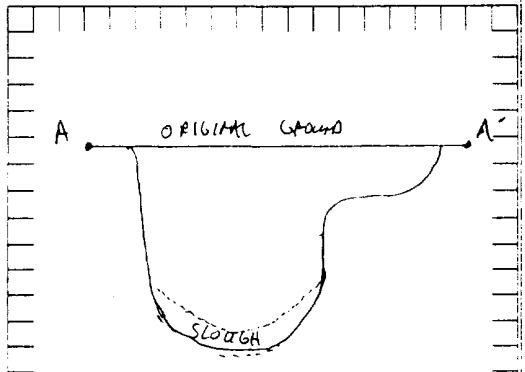
PIT PERIMETER



OVM RESULTS

	SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	NS@2'	780
2	ES@2'	68
3	SS@1.5'	322
4	WS@2'	714
		LAB
1	NS@2'	418.1 BTEX

PIT PROFILE



TRAVEL NOTES: CALLOUT: 11-22-93 ONSITE: 11-23-93

R Co

Well Name:	**McCarty GC B #1E**
Well Site location:	Unit G, Sec. 16, T29N, R11W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit (25 ft. below grade).

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 presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).

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.

4. Well site located within the **non-vulnerable area** and is approximately 0.12 miles northwest of the nearest vulnerable area boundary (San Juan River).

(Refer to Bloomfield Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photovisional edition 1985, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface vertical and lateral 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:	1 NS @ 20'	Date Sampled:	11-23-93
Laboratory Number:	6550	Date Received:	11-23-93
Sample Matrix:	Soil	Date Analyzed:	11-24-93
Preservative:	Cool	Date Reported:	11-24-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	12,800	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: McCarty GC # B1E, Sep. Pit, C4953

Tony Tristano
Analyst

Review

ENVIROTECH LABS

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

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	NS @ 20'	Date Reported:	11-24-93
Laboratory Number:	6550	Date Sampled:	11-23-93
Sample Matrix:	Soil	Date Received:	11-23-93
Preservative:	Cool	Date Extracted:	11-23-93
Condition:	Cool & Intact	Date Analyzed:	11-23-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2,180	19.8
Toluene	41,900	49.5
Ethylbenzene	36,200	19.8
p,m-Xylene	111,800	39.6
o-Xylene	97,600	29.7

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	92 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: McCarty GC-B #1E Separator Pit C4953

Analyst

Review

C4953

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO # 92140	SEP. PIT MCCARTY GC-B#1E	
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	BTEX					Remarks
(1) NS @ 20'	11-23-93	0840	6550	SOIL	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
R. E. O'Neill	11-23-93	1107	Denise L. Spencer	11-23-93	1107
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

san juan repro Form 578-81

CLIENT: Amoco

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

LOCATION NO: C4951
C.O.C. NO: ANIATAS

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: MCCARTY GC B 1E LEASE:
QUAD/UNIT: G SEC: 16 TWP: 29 N RNG: 11 W BM: NM CNTY SJ ST: NM
QTR/FOOTAGE: SW / NE CONTRACTOR: MOSS

DATE STARTED: 4-29-96
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: RCO

SOIL REMEDIATION:

REMEDIATION SYSTEM: LAND FARM APPROX. CUBIC YARDAGE: 2000

LAND USE: RANGE

FIELD NOTES & REMARKS:

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

NMOCD RANKING SCORE: ~~20~~ 10 NMOCD TPH CLOSURE STD: ~~1000~~ 5000 PPM

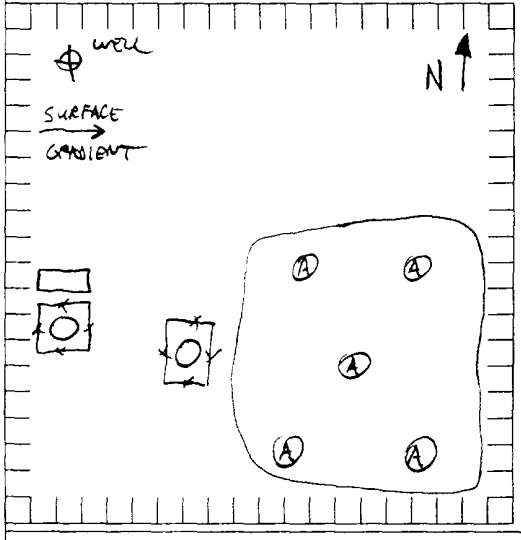
SAL CONSISTS OF MOIST, BROWN, SILTY SAND - LIGHT ODOR.

CLOSE L.F.

FIELD 418.1 CALCULATIONS:

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

SKETCH/SAMPLE LOCATIONS



SCALE
0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	6

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	1310	188

TRAVEL NOTES: CALLOUT: ONSITE: 4-29-96 1300

FORM REVISED 1/96

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID:	McCarty GC B1E	Report Date:	05/17/96
Sample Matrix:	Soil	Date Sampled:	04/29/96
Preservative:	Cool	Date Received:	04/29/96
Condition:	Intact	Date Extracted:	05/13/96
		Date Analyzed:	05/15/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3265	ND	20.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	90%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID:	McCarty GC B1E	Report Date:	05/17/96
Sample Matrix:	Soil	Date Sampled:	04/29/96
Preservative:	Cool	Date Received:	04/29/96
Condition:	Intact	Date Extracted:	05/13/96
		Date Analyzed:	05/16/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3265	188	18.7

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	100%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Vc atile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

PROJECT MANAGER:
Analytica Lab I.D.:

Company: BLAGG
Address:

Phone: 632-1199
Fax:

Bill To: SAME
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2– / NO3– / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):	COMMENTS
COMP. A	4-29	1310	SOIL			✓																			MOSS					MCCARTY GC B1E
"	"	1115	"			✓																			MOSS					ATLANTIC COM LS 3A
"	"	1050	"			✓																			MOSS					ATLANTIC LS 17
"	"	1025	"			✓																			EPC					ATLANTIC 1-34
"	"	1010	"			✓																			MOSS					ATLANTIC A 19
"	"	0920	"			✓																			EPC					ATLANTIC BLS GA

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name: AMOCO	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via: DELI	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature / Date: R. E. O'Neill 4-29-96	Signature / Date: R. E. O'Neill 4-29-96	Signature / Date:
Company: BEI / Time: —	Company: BEI / Time: 1422	Company: / Time:
Received By:	**Received By:**	**Received By:**
Signature / Date:	Signature / Date:	Signature / Date:
Company: / Time:	Company: / Time:	Company: / Time:

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client