Risk - Bedrock 4745

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

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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: STATE GC BZ #1

Location: Unit or Qtr/Qtr Sec I Sec 32 T29N R10W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

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

Location: (attach diagram)

Pit dimensions: length 35', width 40', depth 12'

Reference: wellhead X, other ___

Footage from reference: 200'

Direction from reference: 40 Degrees X East North X of ___ West South ___

PIT PREVIOUSLY DENIED DUE TO SOIL ACTIVITY NOT COMPLETED - UNOCD LETTER CORRESPONDENCE DATED 1/15/97. mv

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 10
	RANKING SCORE (TOTAL POINTS):	10

Late Remediation Started: _____ Date Completed: 5/4/94

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 625

Landfarmed X Insitu Bioremediation ___

Other _____

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

General Description Of Remedial Action: EXCAVATION. BEDROCK BOTTOM. RISK ASSESSMENT.

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 REFER TO "CLOSURE VERIFICATION" SHEET

Sample depth 12'

Sample date 5-4-94 Sample time 1425

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 529

TPH 1680 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 ~~5/6/94~~ 5/25/98 BJS

SIGNATURE BJ Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: Amoco

ENVIROTECH Inc. GL CH

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

PIT NO: C4945
C.O.C. NO: 3567

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: State BZ WELL #: 1 PIT: SEP
UNIT: I SEC: 32 TWP: 29N RNG: 10W BM: NM CNTY: SJ ST: NM
CONTRACTOR: P. Velasquez

DATE STARTED: 5/4/94
DATE FINISHED: 5/4/94
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION: EXCAVATION APPROX. 35 FT. x 40 FT. x 12 FT. DEEP.
DISPOSAL FACILITY: land farmed on-site
LAND USE: range

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 200 FEET N40E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST SURFACE WATER: ~~>1000~~ >1000 NEAREST WATER SOURCE: >1000
NMOCD RANKING SCORE: ~~10~~ 20 NMOCD TPH CLOSURE STD: ~~1000~~ 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: gray sand, slightly moist, slightly cohesive, nonplastic
bedrock at pit bottom

Collected lab sample for TPH (418.1) ⑤ @ 12' time: 1425

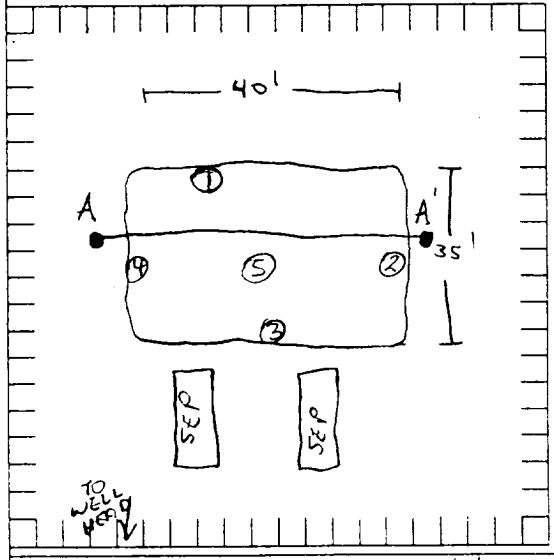
FIELD 418.1 CALCULATIONS

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

SCALE
0 FEET

N

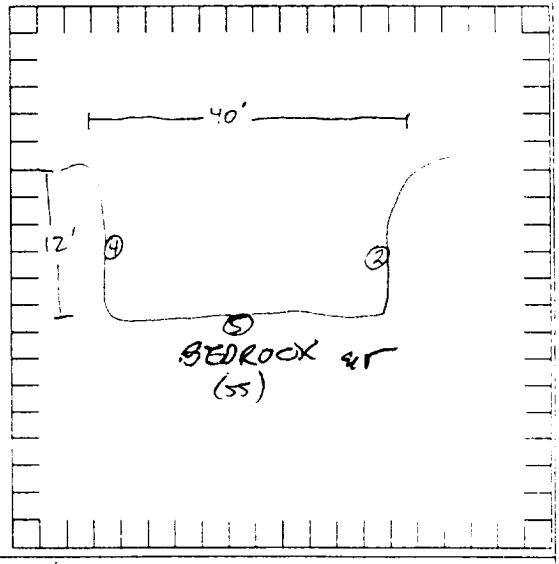
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① @ 8'	55
② @ 7'	1
③ @ 7'	570
④ @ 6'	3.9
⑤ @ 12'	529

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5/4/94 ONSITE: 5/4/94

Well Name:	**State GC BZ #1**
Well Site location:	Unit I, Sec. 32, T29N, R10W
Pit Type:	Separator Pit
Producing Formation:	Gallup/Otero Chacra
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 encountered sandstone bedrock at 12 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 12 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.

4. Well site located within the **non-vulnerable area** and is approximately 0.02 miles southeast of the nearest vulnerable area boundary (Creighton Canyon wash).

(Refer to Bloomfield Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), provisional 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 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:	5 @ 12'	Date Sampled:	05-04-94
Laboratory Number:	7352	Date Received:	05-05-94
Sample Matrix:	Soil	Date Analyzed:	05-09-94
Preservative:	Cool	Date Reported:	05-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,680	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: State BZ #1 Separator Pit C4745

Analyst

Review

C4745 3561

PIT ~~C49745~~

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO 72140	SEP PIT STATE BZ #1	
Sampler: (Signature) Nelson Velez	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (418.1)						Remarks
⑤ @ 12'	5/4/94	1425	7352	SOIL	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	5/5/94	0718	Alan L. Adams	5-5-94	0718
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: C4745
C.O.C. NO: 5618

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: STATE GC B2 WELL #: 1 PITS: SEP.
QUAD/UNIT: (I) SEC: 32 TWP: 29N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/4 SE/4 CONTRACTOR: P&S

DATE STARTED: 11-24-97
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV/EP.

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM
LAND USE: RANGE
APPROX. CUBIC YARDAGE: 625
LIFT DEPTH (ft): 12"-24"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' & 9W NEAREST WATER SOURCE: >1000' 5000 9W NEAREST SURFACE WATER: >1000' ~~<1000'~~

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

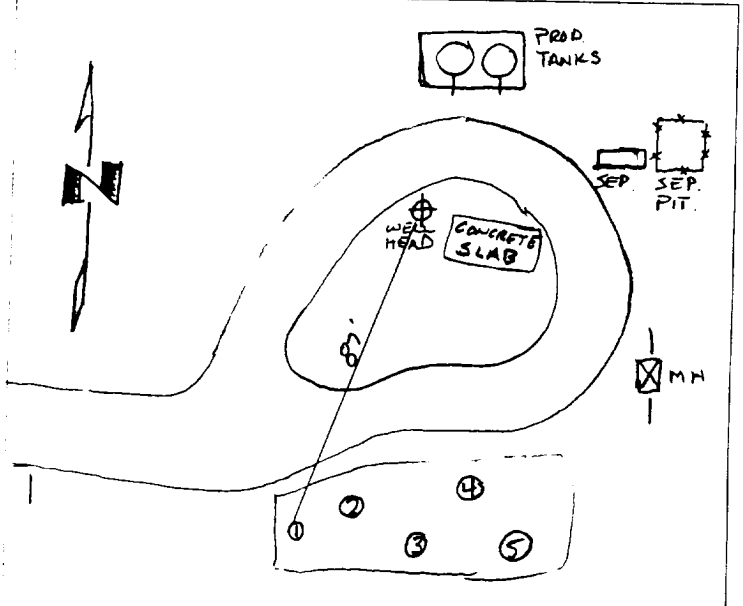
SOIL IS A SLIGHTLY MOIST LIGHT GRAY CLAYISH W/ DARK YELLOW SILTY SAND
NO STAIN OR NO ODOR
TOOK 5 PT COMPOSITE SAMPLE FOR LAB ANALYSIS

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	8015	1015	38.8

SCALE
0 FT

TRAVEL NOTES:

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:	12-03-97
Laboratory Number:	C590	Date Sampled:	11-24-97
Chain of Custody No:	5618	Date Received:	11-26-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	12-01-97
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)	**38.8**	**0.1**
Total Petroleum Hydrocarbons	**38.8**	**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: **State GC B Z #1 Landfarm. 5 Pt. Composite.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

5618

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG/ AMOCO	LANDFARM STATE GC B2 #1	
Sampler: (Signature)	Chain of Custody Tape No.	
	04034-10	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)						Remarks
												PRESERV. - COOL
LF-1	11/24/97	1015	C590	SOIL	1	✓						5 PT. COMPOSITE
				AV SAMPLED	RECEIVED	COOL &	INTACT	DLH				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/26/97	0700		11/26/97	0700
Relinquished by: (Signature)			Received by: (Signature)		
	11/26/97	0944		11-26-97	0944
Relinquished by: (Signature)			Received by: (Signature)		

Ref COC's 5616 → 5628

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