Sep/Bank Drain - B0224 Bedrock

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
strict 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

Denied due to LF 7/25/95

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 FEDERAL A #1

Location: Unit or Qtr/Qtr Sec K Sec 32 T 28 N R 10 W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other TANK

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

Pit Location: (Attach diagram)
Pit dimensions: length 15', width 15', depth 6'
Reference: wellhead X, other ___
Footage from reference: 85
Direction from reference: 65 Degrees X East North X 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)	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

SEP/POOL TANK B0222

Date Remediation Started: _____ **Date Completed:** 2-17-95

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 25

Landfarmed ___ Insitu Bioremediation ___

Other COMPOST

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

General Description Of Remedial Action: _____

Excavation TO BEDROCK. 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 3'

Sample date 2-17-95 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 49

TPH ND

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 2-23-95

SIGNATURE B J Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

RESULTS TO JOHNNY 2-20-95 PEO

CLIENT: AMOCO

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

LOCATION NO: B0222
C.O.C. NO: —

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: FEDERAL A WELL #: 1 PIT: SEP/MAIN
QUAD/UNIT: K SEC: 32 TWP: 28 N RNG: 10 W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE / SW CONTRACTOR: EPC

DATE STARTED: 2-17-95
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: PEO

EXCAVATION APPROX. 15 FT. x 15 FT. x 6 FT. DEEP. CUBIC YARDS: 25
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOST
LAND USE: RANGE LEASE: SF-046563 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FEET N65°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ACTIVE - TO BE ABANDONED

PIT EXCAVATED INTO SANDSTONE -
SOME THIN GRAY LENSES IN SIDEWALLS
BOTTOM STAINED. WITH ODOR.

5-6-96 NO SOIL ON LOCATION

RISK ASSESSED

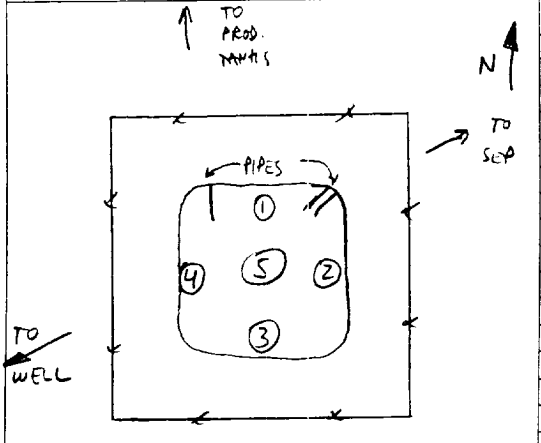
BEDROCK

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
SS-3'	1375	10.0	20.0	—	0	ND

SCALE
0 5 10FT

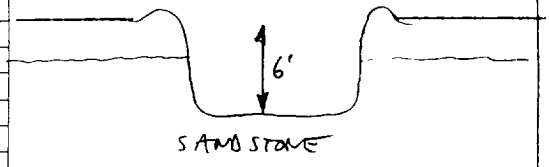
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS - 3'	6
2 ES - 3'	3
3 SS - 3'	49
4 WS - 3'	23
5 CB - 6'	1500
LAB	SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: 2-16-95 ONSITE: 2-17-95 1000

Well Name:	**Federal A #1**
Well Site location:	Unit K, Sec. 32, T28N, R10W
Pit Type:	Separator/ProductionTank Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizonal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered competent sandstone at 6 feet 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 shallow sandstone bedrock encountered at 6 feet below grade.

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 1.4 miles northeast of the nearest vulnerable area boundary (East Fork Kutz Canyon Wash).

   (Refer to East Fork Kutz Canyon Quadrangle, New Mexico - San Juan 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 a 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.

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:	S. Side @ 3'	Date Analyzed:	2-17-95
Project Location:	Federal A 1	Date Reported:	2-17-95
Laboratory Number:	TPH-1375	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**ND**	**10**

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
4,760	4,400	8

*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: Separator/Tank Pit - B0222

R. E. O'Neill
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:	S. Side @ 3'	Date Analyzed:	2-17-95
Project Location:	Federal A 1	Date Reported:	2-17-95
Laboratory Number:	TPH-1375	Sample Matrix:	Soil

Sample Weight:	10.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	0	mg/kg

TPH Result:	0.0	mg/kg
Reported TPH Result:	ND	mg/kg
Actual Detection Limit:	10.0	mg/kg
Reported Detection Limit	10	mg/kg

QA/QC:

Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
4760	4400	8

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

Comments: Separator/Tank Pit - B0222

CLIENT: AMOCO

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

LOCATION NO: 80222
C.O.C. NO: 5770

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: FEDERAL A WELL #: 1 PITS: SEP/TANK PIT
QUAD/UNIT: K SEC: 32 TWP: 28N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE¼ SW¼ CONTRACTOR: EPC

DATE STARTED: 5/5/98
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:
REMEDIATION SYSTEM: COMPOST PILE
LAND USE: RANGE
APPROX. CUBIC YARDAGE: 25
LIFT DEPTH (ft): NA

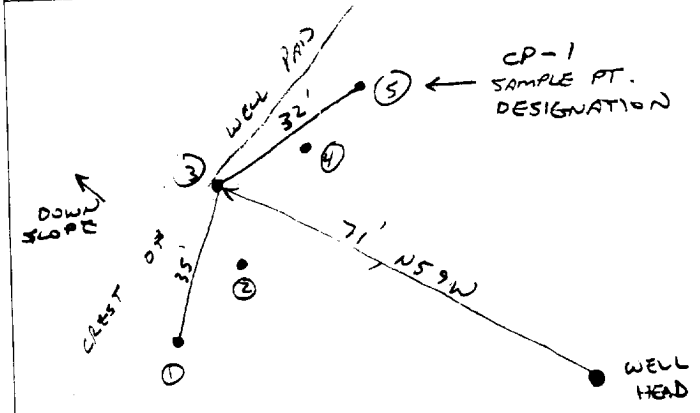
FIELD NOTES & REMARKS:
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM
SOIL MOSTLY DK. YELL. ORANGE SAND, NON COHESIVE SLIGHTLY MOIST FIRM, BLACK DISCOLORATION OBSERVED IN SAMPLE PTS. ② ③ & ④ W/ NO APPARENT HC ODOR, 5 PT. COMPOSITE COLLECTED FOR LAB ANALYSIS.

NO ACTUAL COMPOST PILE OR LANDFARM OBSERVED ON SITE.

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)
CP-1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
CP-1	TPH (8015)	1230	4.2

SCALE
0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 5/5/98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Amoco	Project #:	98028-1
Sample ID:	CP - 1	Date Reported:	05-06-98
Laboratory Number:	D229	Date Sampled:	05-05-98
Chain of Custody No:	5770	Date Received:	05-05-98
Sample Matrix:	Soil	Date Extracted:	05-06-98
Preservative:	Cool	Date Analyzed:	05-06-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.1**	**0.2**
Diesel Range (C10 - C28)	**2.0**	**0.1**
Total Petroleum Hydrocarbons	**4.2**	**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: **Federal A #1 Compost Pile. 5 Pt. Composite.**

Analyst

Review

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

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG / AMOCO	COMPOST PILE FEDERAL A #1	

Sampler: (Signature)	Chain of Custody Tape No.
Nelson Velez	04034-10

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)						Remarks
												PRESERV. - COOL
CP-1	5/5/98	1230	D229	SOIL	1	✓						5 PT. COMPOSITE
				SAMPLE RECEIVED COOL & INTACT								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	5/5/98	1335	Adrienne L. Cyleen	5.5.98	1335
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

Ref COC 5766 - 5770

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