60176

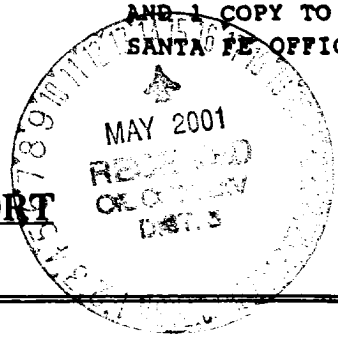
District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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

RISK
Bedrock



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: FLORANCE #45

Location: Unit or Qtr/Qtr Sec G Sec 22 T 30N R 8W County SAN JUAN

Pit Type: Separator ___ Dehydrator ABANDONED ✓ Other ___

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

Pit Location: (Attach diagram)
Pit dimensions: length 15', width 25', depth 6'
Reference: wellhead X, other ___
Footage from reference: 180'
Direction from reference: 8 Degrees ✓ 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)	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

80796 ABAN. DEHY.

Date Remediation Started: _____ **Date Completed:** 9/27/00

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 60

Landfarmed ___ Insitu Bioremediation ___

Other COMPOSTED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite NYE GC B #1E (E-7-29-9) NU

TRANSPORTED TO CROUCH MESA 3/01.

General Description Of Remedial Action:

Excavation, MOSTLY BEDROCK. RISK ASSESSED.

Ground Water Encountered: No ✓ 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' (SOUTH SIDEWALL)

Sample date 9/25/00 Sample time 1350

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 138.1 / 1,544 (NORTH SIDEWALL (BEDROCK))

TPH 0.5 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 9/27/00

SIGNATURE BJ Shaw

PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

3004509352

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80796 C.O.C. NO: 7498

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: FLORANCE WELL #: 45 PIT: ABAN. DEHY
QUAD/UNIT: G SEC: 22 TWP: 30N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1550'N/1500'E SWNW CONTRACTOR: FLINT

DATE STARTED: 9/25/00
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 15 FT. x 25 FT. x 6 FT. DEEP. CUBIC YARDAGE: 60
DISPOSAL FACILITY: NME GC B1E (E-7-29-9) REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: 91-001247 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 180 FT. 58E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 52.3 ppm
TIME: 1351 am/pm 9/25/00

SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION CONSIST OF MOSTLY BEDROCK (SHALE/SANDSTONE) DK. YELL. ORANGE TO MED DK. GRAY (BOTTOM & BOTTOM 2 FT. OF SIDEWALLS), SOFT NEAR TOP TO VERY HARD @ BOTTOM, STRONG HC ODOR DETECTED IN NORTH SIDEWALL & PIT BOTTOM OVM SAMPLES (COLLECTED FROM BEDROCK), EAST & SOUTH SIDEWALL OVM SAMPLES COLLECTED FROM SOIL (DK. YELL. ORANGE SILTY SAND) DIRECTLY ABOVE BEDROCK, WEST SIDEWALL OVM SAMPLE COLLECTED FROM SOIL (DK. YELL. BROWN SAND) DIRECTLY ABOVE BEDROCK AS WELL.

MOSTLY BEDROCK (sh/ss)

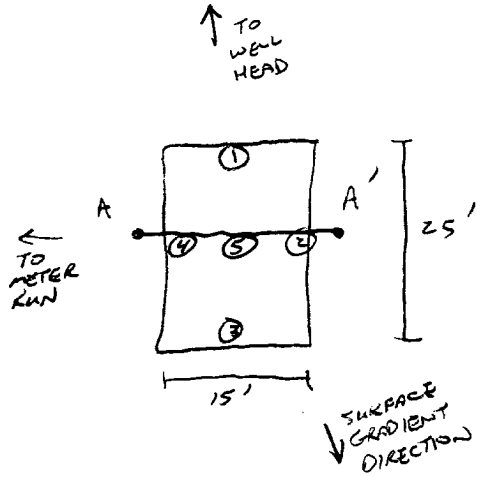
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1350							

SCALE
0 FT

PIT PERIMETER



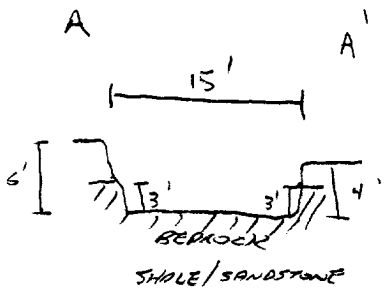
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1 @ 3'	1,544	RK
2 @ 3'	0.0	
3 @ 3'	138.1	
4 @ 3'	93.5	
5 @ 6'	544	RK

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
@ 3'	TPH (8015)	1350
"	BTEX (8021)	"
BOTH PASSED		

PIT PROFILE



TRAVEL NOTES: CALLOUT: 9/25/00 - MORN. ONSITE: 9/25/00 - AFTER.

Well Name:	**Florance #45**
Well Site location:	Unit G, Sec. 22, T30N, R8W
Pit Type:	Abandoned Dehydrator Pit
Producing Formation:	Mesa Verde
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 backhoe encountered competent shale/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 shale/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 0.15 miles north of the nearest vulnerable area boundary (Gobernador Canyon wash).

   (Refer to Archuleta 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 vertical and lateral impact from the earthen pit is very limited and that the shale/sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to BP AMOCO's (formerly Amoco Production Company) report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). BP AMOCO therefore request pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	403410
Sample ID:	3 @ 3'	Date Reported:	09-27-00
Laboratory Number:	18235	Date Sampled:	09-25-00
Chain of Custody No:	7498	Date Received:	09-27-00
Sample Matrix:	Soil	Date Extracted:	09-27-00
Preservative:	Cool	Date Analyzed:	09-27-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.3**	**0.2**
Diesel Range (C10 - C28)	**0.2**	**0.1**
Total Petroleum Hydrocarbons	**0.5**	**0.1**

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: **Florance #45 Abandoned Dehydrator Pit.**

Analyst

Review

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	403410
Sample ID:	3 @ 3'	Date Reported:	09-27-00
Laboratory Number:	18235	Date Sampled:	09-25-00
Chain of Custody:	7498	Date Received:	09-27-00
Sample Matrix:	Soil	Date Analyzed:	09-27-00
Preservative:	Cool	Date Extracted:	09-27-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**31.6**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**87.4**	**2.2**
o-Xylene	**67.4**	**1.0**
Total BTEX	**186**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Florance #45 Abandoned Dehydrator Pit.**

Analyst

Review

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

CHAIN OF CUSTODY RECORD

74,8

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/BP	ABANDONED DEHYDRATOR PIT FLORANCE #45	
Sampler: NJV	Client No. 403410	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)	BTEX (8021)					Remarks
③ @ 3'	9/25/00	1350	18235	SOIL	1	✓	✓					PRESERV. - COOL

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	9/27/00	0844	Christa Walters	9-27-00	8:44
Relinquished by: (Signature) NJV			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		