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

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR

SEP 19 1996

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: 6 ALLE 605 008
Well Name

Location: Unit or Qtr/Qtr Sec M Sec 34 T 26 N R 11 W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

Land Type: BLM ___, State ___, Fee ___, Other Com. AGMT.

Pit Location: (Attach diagram)
Pit dimensions: length 35', width 35', depth 13'
Reference: wellhead X, other ___
Footage from reference: 120
Direction from reference: 0 Degrees ___ 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)	20
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)	10
	RANKING SCORE (TOTAL POINTS):	30

B0265

Date Remediation Started: _____ **Date Completed:** 4-21-95

Remediation Method: (Check all appropriate sections)
Excavation X Approx. cubic yards 600
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

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 13'

Sample date 4-21-95 Sample time _____

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) ND

Field headspace(ppm) 365

TPH 16 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 5-2-95

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

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

LOCATION NO: R-265
C.O.C. NO: 0340

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: GALLEGOS WELL #: 008 PIT: SEP.
QUAD/UNIT: M SEC: 34 TWP: 26 N RNG: 11 W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: SW/SW CONTRACTOR: MOSS

DATE STARTED: 4-21-95
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: RLO

EXCAVATION APPROX. 35 FT. x 35 FT. x 13 FT. DEEP. CUBIC YARDS: 600
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LF
LAND USE: RANGE LEASE: 96-004285 FORMATION: DAKOTA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 120 FEET SOUTH FROM WELLHEAD.
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <1000' BLANCO WASH
NMOCD RANKING SCORE: 30 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

MOIST, BROWN, SILTY SAND TO CLAYEY SILT - MINOR STAIN LENSES IN SIDEWALLS. BOTTOM SOFT SILTSTONE.

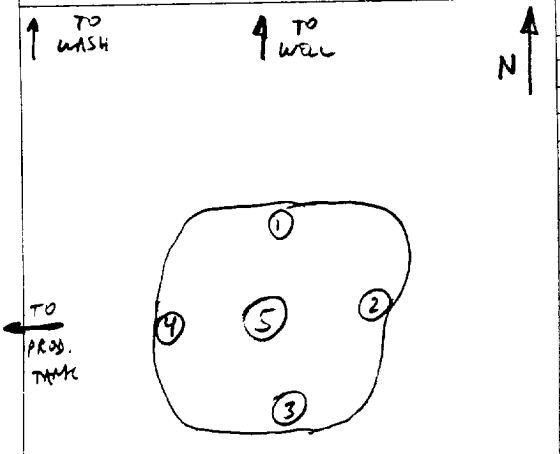
CLOSE PIT

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
WS-8'	1469	10.0	20.0	—	17	34
CB-13'	1470	10.0	20.0	—	8	16

SCALE
0 10 20 FT

PIT PERIMETER

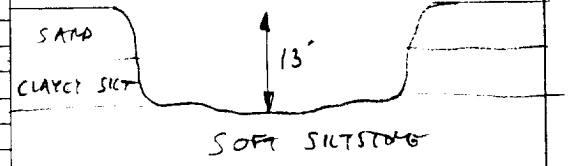


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS-9'	25
2 ES-10'	61
3 SS-9'	85
4 WS-8'	476
5 CB-13'	365

LAB	SAMPLES
WS@8'	BTEX - PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 4-21-95 ONSITE: 4-21-95

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:	CB @ 13'	Date Analyzed:	4-21-95
Project Location:	Gallegos 008	Date Reported:	4-24-95
Laboratory Number:	TPH-1470	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**16**	**10**

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
3,000	3,182	6

*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 Pit - B0265

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 MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	WS @ 8'	Date Analyzed:	4-21-95
Project Location:	Gallegos 008	Date Reported:	4-24-95
Laboratory Number:	TPH-1469	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**34**	**10**

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3,000	3,182	6

*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 Pit - B0265

R. E O'Neill
Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

VOLATILE AROMATIC HYDROCARBONS

Blagg Engineering, Inc.

Project ID:	Gallegos 008	Report Date:	04/25/95
Sample ID:	WS @ 8' Sep. Pit	Date Sampled:	04/21/95
Lab ID:	890	Date Received:	04/21/95
Sample Matrix:	Soil	Date Extracted:	04/21/95
Preservative:	Cool	Date Analyzed:	04/24/95
Condition:	Intact		

Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	25.1
Toluene	ND	25.1
Ethylbenzene	ND	25.1
m,p-Xylenes	ND	50.2
o-Xylene	ND	25.1

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	101	81 -117%
Bromofluorobenzene	100	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

Well Name:	**Gallegos #8**
Well Site location:	Unit M, Sec. 34, T26N, R11W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable Area
Horizonal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	< 50 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 13 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 13 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 (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.

4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	**1100**	**0.011**	**5.889**
Berger A1	**482**	**0.084**	**0.681**
Mudge Com B 1E	**684**	**0.017**	**16.438**
L.C. Kelly #5	**1235**	**0.643**	**13.908**

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

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 permeable 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.