

District I
P.O. Box 1980, Hobbs, NM
District II
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

Denied 1/16/90

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: VCA # 26
Well Name _____
Location: Unit or Qtr/Qtr Sec D Sec 22 T 28 NR 4 County RIO ARriba
Pit Type: Separator ___ Dehydrator ___ Other BLow
Land Type: BLM X, State ___, Fee ___, Other UNIT AGENT

Pit Location: Pit dimensions: length 30', width 30', depth 1'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 160'
Direction from reference: 90 Degrees ___ East North X
of
X 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

Buddy D. Shaw
Environmental Coordinator

PIT NO: C4920

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

C.D.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: LEASE: UC4 WELL #: 26 PIT: Blow
UNIT: D SEC: 22 TWP: 28N RNG: 4W BM: Nm CNTY: R.A. ST: Nm
CONTRACTOR: JAUGHN W.S.

DATE STARTED: 4-14-94
DATE FINISHED: 4-22-94

ENVIRONMENTAL SPECIALIST: *pe*

SOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 30 FT. x 1 FT. DEEP.
DISPOSAL FACILITY: LANDFARM ON SITE - SE OF PIT, SOUTH OF WELL
LAND USE: BLM - RANGE

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FEET WEST FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST SURFACE WATER: >1000' NEAREST WATER SOURCE: >1000'
NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT EXCAVATION ~ ONE FOOT DEEP - PIT APPEARS TO BE SET ON SOLID BEDROCK WITH A SOILS BERM FOR CONTAINMENT. NO SIDEWALLS ARE AVAILABLE FOR SAMPLE

SOIL: SILTY, SANDY ORGANICS. BROWN/GRAY - BED ROCK HAS GRAY/BLACK STAINING.

① BEDROCK SLIPPINGS - BOTTOM COMPOSITE. ② LANDFARM COMPOSITE
SOIL REMNANTS FIELD 4181 CALCULATIONS

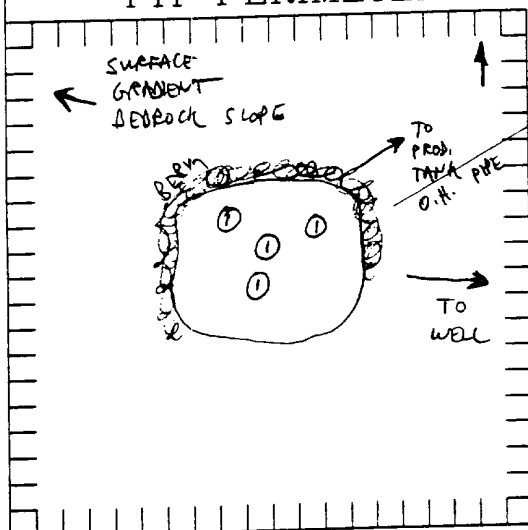
SAMPLE I.D.		LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
①	B-Comp	6AC 429	10.00	20	10:1	733	14,660
②	LF-Comp	6AC 430	10.00	20	10:1	606	12,120

SCALE

[illegible]

0 10 20 FEET

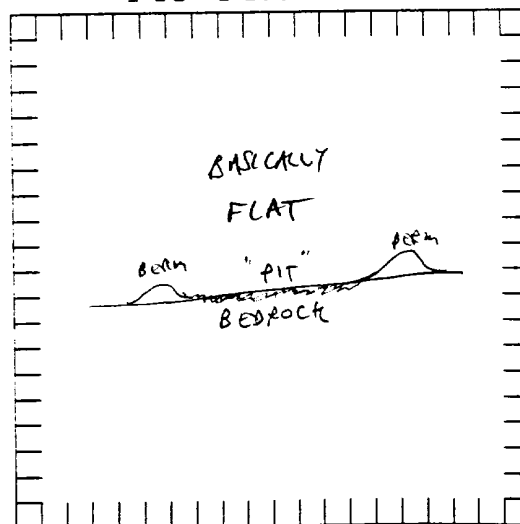
PIT PERIMETER



OVM RESULTS

[illegible]

PIT PROFILE



TRAVEL NOTES: CALLOUT: 4-21-94 HOLLO V. ONSITE: 4-22-94 1100 AFS

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Valencia Canyon Unit #26

Unit D, Sec. 22, T28N, R4W

Blow Pit

Pictured Cliffs

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

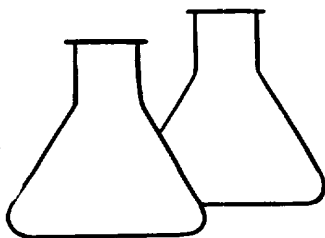
Pit remediation activities were terminated when loader encountered sandstone bedrock at 1 feet below grade.

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 1 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 0.30 miles northwest of the nearest vulnerable area boundary (Geffen Canyon wash).

(Refer to Leandro Canyon Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1982, (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 and vertical 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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	Pit Btm Comp	Date Analyzed:	4-22-94
Project Location:	VCU 26	Date Reported:	4-22-94
Laboratory Number:	GAC0429	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	14700	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	510	490	4

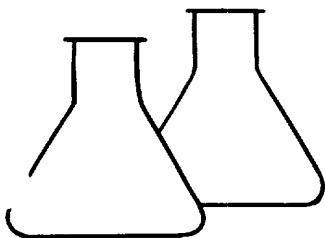
*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Blow Pit C4970

R. E. O'Neill
Analyst

Marvin Young
Review



ENVIROTECH LABS

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	Landfarm Comp	Date Analyzed:	4-22-94
Project Location:	VCU 26	Date Reported:	4-22-94
Laboratory Number:	GAC0430	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	12100	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	510	490	4

*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: Blow Pit C4970 Landfarm

R. E. O'Neil
Analyst

Mervin D. Young
Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>C4070</u> C.D.C. NO: _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>VCU</u>	WELL #: <u>26</u>	PITS: <u>BLOW</u>	DATE STARTED: <u>11-18-97</u>
QUAD/UNIT: <u>D</u> SEC: <u>22</u> TWP: <u>28N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>			DATE FINISHED: _____
QTR/FOOTAGE: _____		CONTRACTOR: _____	ENVIRONMENTAL SPECIALIST: <u>JLG</u>

SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 33

 LAND USE: RANGE

LIFT DEPTH (ft): _____

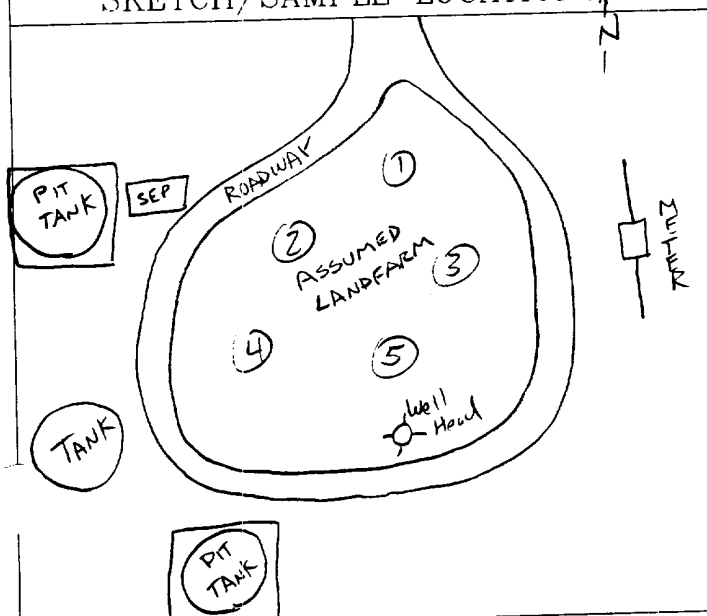
FIELD NOTES & REMARKS:

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

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1340	LF-1	1931	5.0	20.0	4x	20	80

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

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

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: _____ ONSITE: _____

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
Sample ID: Landfarm
Project Location: VCU # 26
Laboratory Number: TPH-1931

Project #:
Date Analyzed: 11-19-97
Date Reported: 11-19-97
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	80	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	608	568	6.80

*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: Landfarm Composite Sample

J. C. Blagg
Analyst

Nelson V. J.
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:

Landfarm

Date Analyzed:

11-19-97

Project Location:

VCU # 26

Date Reported:

11-19-97

Laboratory Number:

TPH-1931

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

20 mg/kg

TPH Result:

80.0 mg/kg

Reported TPH Result:

80 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

608

568

6.80

Comments:

*****Max Characters*****

Comments:

Landfarm Composite Sample