B/ow-bedrock

94420

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: VCU #43

Location: Unit or Qtr/Qtr Sec M Sec 27 T 28N R 4W County RIO ARRIBA

Pit Type: Separator ___ Dehydrator ___ Other Blow

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

Pit Location: (Attach diagram)

Pit dimensions: length 27', width 27', depth 6'

Reference: wellhead X, other ___

Footage from reference: 200'

Direction from reference: 0 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

94420 Blow Pit

Date Remediation Started: _____ Date Completed: 7/22/92

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 160

Landfarmed ✓ Insitu Bioremediation ___

Other _____

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

General Description Of Remedial Action: _____

Excavation, Bedrock bottom - 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 6' (Pit Bottom)

Sample date 7/21/92 Sample time 0905

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 660

TPH 232 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 7/22/92

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

94420

ENVIROTECH Inc.

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

1646

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: Valencia Canyon Unit WELL: No 43 QD: SW¼ SW¼ M
SEC: 27 TWP: 28N RNG: 4W BM: NM CNTY: R.A. ST: N.M PIT: Blow
CONTRACTOR: Vaught well service
EQUIPMENT USED: dozer and backhoe
Fed. LEASE No N M 14921

DATE STARTED: 7-21-92
DATE FINISHED: 7-21-92
ENVIRONMENTAL SPECIALIST: JW

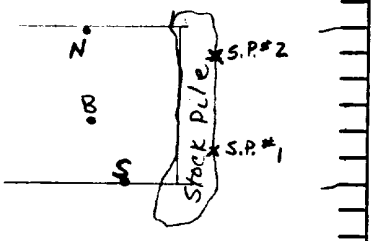
SOIL REMEDIATION: QUANTITY: Approx 160 cy of stock pile
DISPOSAL FACILITY: treat on location
LAND USE: Forest
SURFACE CONDITIONS: Earthen Pit

FIELD NOTES & REMARKS: Bottom of Pit is bedrock contamination has soaked into the rock. North wall is realtively clean, south wall has some contamination, most of south wall is bed rock. Stock Pile seems realitively clean. If spread out and turned, material could be used to back fill.
Pit located approx. 200' west of well

T.P.H. from bottom of pit

SCALE
0 5' 10 FEET

PIT PERIMETER



SAMPLE RESULTS

SMPL No:	ANALYTICAL RESULTS
B.	660 ppm
N	4.4 ppm
S	518 ppm
S.P.1	115 ppm
S.P.2	2.2 ppm

SCALE
0 FEET

PIT PROFILE

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

Well Name:	**Valencia Canyon Unit #43**
Well Site location:	Unit M, Sec. 27, T28N, R4W
Pit Type:	Blow Pit
Producing Formation:	Mesaverde
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 sandstone bedrock at 6 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 6 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 0.18 miles east of the nearest vulnerable area boundary (Scissor 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 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:	Bottom Pit	Date Reported:	07-22-92
Laboratory Number:	1993	Date Sampled:	07-21-92
Sample Matrix:	Soil	Date Received:	07-21-92
Preservative:	Cool	Date Analyzed:	07-22-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	232	5.0

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

ND - Parameter not detected at the stated detection limit.

Comments: Valencia Canyon Unit #43 Blow Pit 94420

Vanessa Pearson
Analyst

Review

.546

94420

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	Blow Pit Valencia Canyon Unit #43	
Sampler: (Signature) Jim Weaver	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH						Remarks
Bottom Pit	7-21-92	905	1993	Soil	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jim Weaver	7-21-92	1651	[signature]	7-21-92	1656
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: C4420
C.O.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: VCU WELL #: 43 PITS: BLOW
QUAD/UNIT: M SEC: 27 TWP: 28N RNG: 4W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 11-17-97
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: JCB

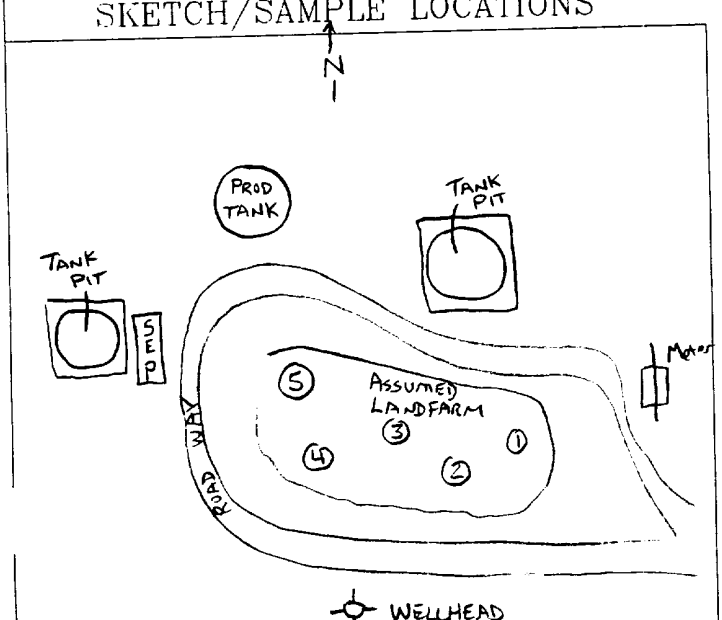
SOIL REMEDIATION:
REMEDIATION SYSTEM: STOCKPILE (LANDFARM) APPROX. CUBIC YARDAGE: 160
LAND USE: RANGE LIFT DEPTH (ft): _____

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

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1205	LF-1	1926	5.0	20.0	4x	21	84

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

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

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS

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	Project #:	
Sample ID:	Landfarm	Date Analyzed:	11-19-97
Project Location:	VCU # 43	Date Reported:	11-19-97
Laboratory Number:	TPH-1926	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**84**	**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

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 # 43	Date Reported:	11-19-97
Laboratory Number:	TPH-1926	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	21	mg/kg

TPH Result:	84.0	mg/kg
Reported TPH Result:	84	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