KISK Dewatering
A0111

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

Denied 12/5/99 LF

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: VCU #15

Location: Unit or Qtr/Qtr Sec I 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 30', width 36', depth 3'

Reference: wellhead X, other ___

Footage from reference: 205'

Direction from reference: 10 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

A0111 Blow Pit

Date Remediation Started: _____ **Date Completed:** 9/29/94

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 120

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 3' (Pit Bottom)

Sample date 9/23/94 Sample time 1020

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 8.426

Field headspace(ppm) 861

TPH 11,300 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 9/29/94

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO

ENVIROTECH Inc.

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

PIT NO: A0111
C.O.C. NO: 3934

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: NAME: Valencia Canyon Unit WELL #: 5 PIT: BLOW
QUAD/UNIT: I SEC: 27 TWP: 28N RNG: 4W BM: NMPM CNTY: RA ST: NM
QTR/FOOTAGE: CONTRACTOR: Carol Vaughn

DATE STARTED: 9/23/94
DATE FINISHED: 9/23/94
ENVIRONMENTAL SPECIALIST: Rmy

SOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 36 FT. x 3 FT. DEEP.
DISPOSAL FACILITY: On-Site Landfarm CUBIC YARDAGE: 120
LAND USE: Carson Forest LEASE: FEE LEASE # NM-14921

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 205 FEET S10°W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

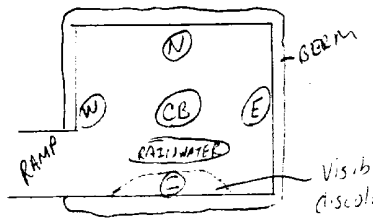
SOIL AND EXCAVATION DESCRIPTION: RAINWATER HAS COLLECTED in the SOUTHERN PORTION of THE PIT (APPROX 1" deep).
Contaminated SOIL (VISUAL) IS PRESENT IN THE SOUTHERN WALL.
Recommend Closure if Laboratory Samples are below NMOCD Standards
10/3/94 Recommended Removal of more SOIL FROM SOUTH WALL and Removal of more Sandstone from pit bottom (if Possible) then Re-Assess.

FIELD 418.1 CALCULATIONS

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

SCALE
0 10 20 FEET

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 N@3'	Sand 446.
2 E@3'	Sand 125
3 S@3'	Sand 59
4 W@3'	Sand 4.2
5 CB@3'	Sandstone 861
	LAB SAMPLES
CB@3'	418.1/BTEX
S@3'	418.1

PIT PROFILE

0'-3' Interbedded Sand Brn Sandstone, Pale Yellow to Brown, Loose to Firm, Non Cohesive, MOIST, Staining as noted above.

3' Olive Green Sandstone. Well Lithified, HARD, No hydrocarbon odor, no Visible Contamination.

TRAVEL NOTES: CALLOUT: ONSITE

Well Name:	**Valencia Canyon Unit #15**
Well Site location:	Unit I, Sec. 27, T28N, R4W
Pit Type:	Blow Pit
Producing Formation:	Pictured Cliffs
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 loader encountered sandstone bedrock at 3 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 3 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 on the fringe of the Valencia Canyon **vulnerable area boundary**.

(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

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	S @ 3'	Date Sampled:	09-26-94
Laboratory Number:	7923	Date Received:	09-26-94
Chain of Custody #	3934	Date Analyzed:	09-29-94
Sample Matrix:	Soil	Date Reported:	09-29-94
Preservative:	Cool	Analysis Needed:	TPH
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	54300	10.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 15 Blow Pit A0111 analysis performed with GAC TPH unit

Analyst

Review

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:	CB @ 3'	Date Sampled:	09-26-94
Laboratory Number:	7924	Date Received:	09-26-94
Chain of Custody #	3934	Date Analyzed:	09-29-94
Sample Matrix:	Soil	Date Reported:	09-29-94
Preservative:	Cool	Analysis Needed:	TPH
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	11300	10.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 15 Blow Pit A0111 analysis performed with GAC TPH unit

Analyst

Review

ENVIROTECH LABS

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

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	CB @3'	Date Reported:	09-28-94
Laboratory Number:	7924BTEX.	Date Sampled:	09-26-94
Sample Matrix:	Soil	Date Received:	09-26-94
Preservative:	Cool	Date Extracted:	09-26-94
Condition:	Cool & Intact	Date Analyzed:	09-27-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	39.4
Toluene	526	78.7
Ethylbenzene	ND	39.4
p,m-Xylene	4870	59.1
o-Xylene	3030	59

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	143 %
Bromofluorobenzene	182 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Valencia Canyon Unit # 14 A0111
Excessive surrogate recovery due to coelution

Analyst

Review

3934

A0111

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	A0111 ANALYSIS/PARAMETERS							
Amoco 92140	Valencia Canyon Unit #15								
Sampler: (Signature)	Chain of Custody Tape No.								
Robert M Young									

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	418.1	BTEX					Remarks
S@3'	9/23/94	1025	7923	SOIL		✓						Blow Pit
CB@3'	9/23/94	1020	7924	SOIL		✓	✓					Blow Pit

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Robert M Young	9/26/94	0832	Roy L Griffin	9/26/94	9 am
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: AO111
C.O.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: VCU WELL #: 15 PITS: BLOW
QUAD/UNIT: I SEC: 27 TWP: 29N RNG: 4W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 11-18-97
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: JC3

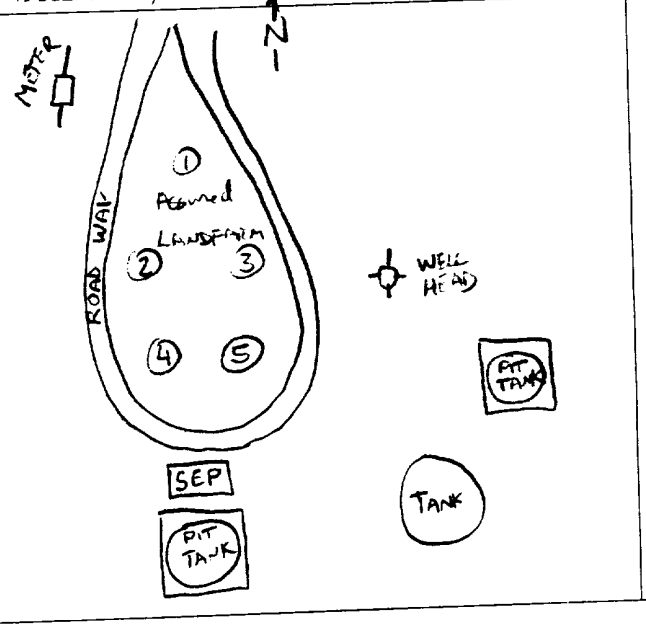
SOIL REMEDIATION:
REMEDIATION SYSTEM: LANDFARM
LAND USE: RANGE
APPROX. CUBIC YARDAGE: 120
LIFT DEPTH (ft): _____

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
1054	LF-1	1940	5.0	20.0	4x	220	880

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 # 15	Date Reported:	11-19-97
Laboratory Number:	TPH-1940	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**880**	**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 # 15	Date Reported:	11-19-97
Laboratory Number:	TPH-1940	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	220	mg/kg

TPH Result:	880.0	mg/kg
Reported TPH Result:	880	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