

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

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SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT
OIL CON. DIV.
DIST. 3

Demised 12/9/96 LF

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: VCU #4
Well Name _____
Location: Unit or Qtr/Qtr Sec N Sec 25 T 28N R 4W County RIO ARriba
Pit Type: Separator ___ Dehydrator ___ Other BLow
Land Type: BLM ☒, State ___, Fee ___, Other UNIT AGMT.

Pit Location: Pit dimensions: length 27', width 36', depth 6'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 205'
Direction from reference: 20 Degrees ___ East North ___
of
☒ West South ☒

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 Points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
Horizontal distance to perennial 200 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/22/94Remediation Method: Excavation ☒
(Check all appropriate sections)Landfarmed ☒Approx. cubic yards 216

Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: _____

Excavation

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 DocumentsSample depth 5' (SE SIDEWALL)Sample date 9/22/94 Sample time 1210

Sample Results

Benzene(ppm) NDTotal BTEX(ppm) 19,055Field headspace(ppm) 847TPH 355 ppmGround 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

9/22/94

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

PIT NO: A0115

C.O.C. NO: 3438

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No:- 1 of 1

LOCATION: NAME: VALENCIA CANYON UNIT WELL #: 4 PIT: BLOW

DATE STARTED: 9/22/54

DATE FINISHED: 9/22/94

QUAD/UNIT: N SEC: 25 TWP: 28N RNG: 4W BM: 11M PM CNTY: RA ST: NM

ENVIRONMENTAL SPECIALIST: Rmy

QTR/FOOTAGE: _____ CONTRACTOR: Carol VAUGHN

SOIL REMEDIATION: EXCAVATION APPROX. 27 FT. x 36 FT. x 6 FT. DEEP.

DISPOSAL FACILITY: ON-SITE LANDFARM CUBIC YARDAGE: 216

LAND USE: CARBON NATIONAL FOREST LEASE: NM-14919 (Forest)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 205 FEET S20°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'

NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: Rainwater is pooled approximately 4" deep in the west 1/2 of the pit.

Contamination exceeding NMOC STANDARDS ENCOUNTERED IN NW, NE, and SE Sidewalls

10/3/94 Recommended Closure to Carol Vaughn

FIELD 418.1 CALCULATIONS

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

SCALE



0 10 20 FEET

SURFACE FLOW AND
SUSPECTED GROUND-
WATER FLOW

PIT PERIMETER

OVM

RESULTS

PIT PROFILE

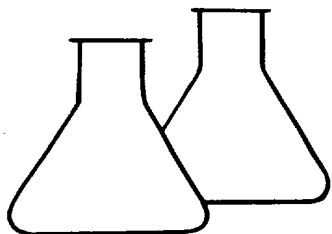
[illegible]

0'-6' Purple and olive green clayey
Shale. FIRM, MOIST,
No Visible Contamination,
No hydrocarbon odor.

TRAVEL NOTES:

CALLOUT:

ONE. E



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:	SE @ 5'	Date Sampled:	09-26-94
Laboratory Number:	7917	Date Received:	09-26-94
Chain of Custody #	3938	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	355	10.0

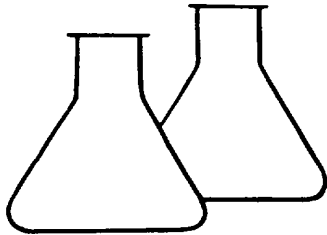
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 4 Blow Pit A0115
analysis performed with GAC TPH unit

Reid Griffin
Analyst

Monis D Young
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:	SE @5'	Date Reported:	09-28-94
Laboratory Number:	7917BTEX.	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	431	78.9
Ethylbenzene	424	39.4
p,m-Xylene	10200	59.2
o-Xylene	8000	59

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	116 %
	Bromofluorobenzene	140 %

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

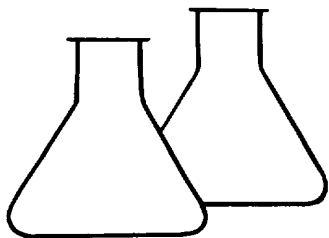
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Valencia Canyon Unit # 4 Blow Pit A0115
Excessive surrogate recovery due to coelution

Rey L. Gaffin
Analyst

Marvin D. Young
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 @ 6'	Date Sampled:	09-26-94
Laboratory Number:	7918	Date Received:	09-26-94
Chain of Custody #	3938	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	11	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 # 4 Blow Pit A0115
analysis performed with GAC TPH unit

Rebecca Griffin
Analyst

Maria S. Young
Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0115</u> C.O.C. NO: _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>VCU</u>	WELL #: <u>4</u>	PITS: <u>Blow</u>	DATE STARTED: <u>11-18-97</u>
QUAD/UNIT: <u>N</u> SEC: <u>25</u> TWP: <u>28N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>			DATE FINISHED: _____
DTP/FOOTAGE: _____		CONTRACTOR: _____	ENVIRONMENTAL SPECIALIST: <u>JCS</u>

SOIL REMEDIATION:

REMEDATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>216</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): _____

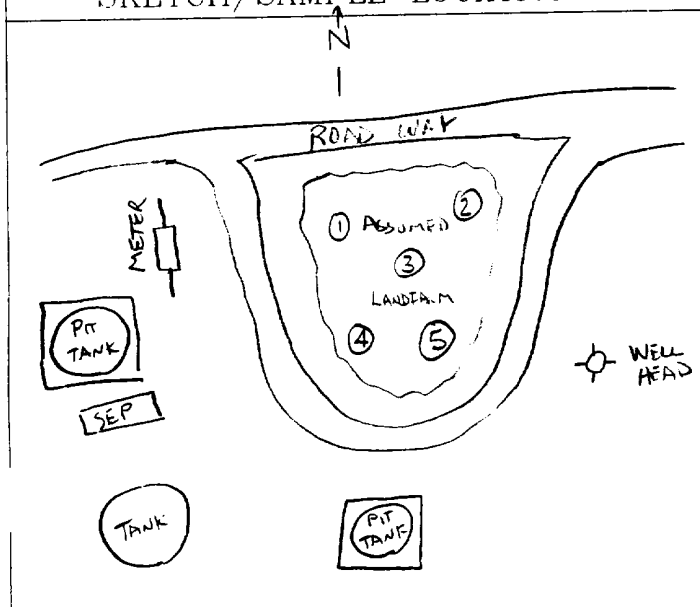
FIELD NOTES & REMARKS:

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

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
<u>1006</u>	<u>LF-1</u>	<u>1942</u>	<u>5.0</u>	<u>20.0</u>	<u>4x</u>	<u>8</u>	<u>32</u>

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
<u>LF-1</u>	<u>0.0</u>				

SCALE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS							
Amoco 92140			Valencia Canyon Unit #4									
Sampler: (Signature)			Chain of Custody Tape No.		No. of Containers	XTR	418.1					
Robert M. Moore			Sample Identification	Sample Date	Sample Time	Lab Number	Sample Matrix					
			SE @ 5'	9/22/94	1240	7917	SORL	V				BLOW P.T.
			CB @ 6'	9/22/94	1215	7918	SORL	V				BLOW P.T.
Relinquished by: (Signature) Robert M. Moore			Date 9/26/94	Time 0940	Received by: (Signature) Rex & Duffin			Date 9/26/94	Time 9 ⁰⁰			
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

See Juan Repro Form 578-B1

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 # 4
Laboratory Number: TPH-1942

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	32	20

ND = Not Detectable at stated detection limits.

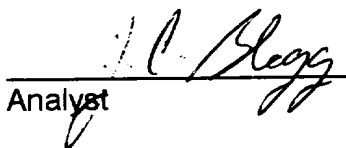
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	608	568	6.80

*Administrative Acceptance limits set at 30%.

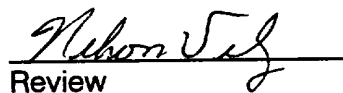
Method: Modified Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and Waste,
USEPA Storet No.4551, 1978

Comments: Landfarm Composite Sample

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:

Sample ID:

Project Location:

Laboratory Number:

AMOCO

Landfarm

VCU # 4

TPH-1942

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

11-19-97

11-19-97

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

8 mg/kg

TPH Result:

32.0 mg/kg

Reported TPH Result:

32 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