

District I

P.O. Box 1930, Santa Fe, NM

District II

District III

District IV

1000 Rio Grande Rd., Santa Fe, NM 87504

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

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: LEFKOITZ GC B1
Well Name

Location: Unit or Qtr/Qtr sec A sec 25 T2N R 10W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☐ State ☐ Fee ☐ Other ☒ COM. AGMT.

Pit Location: Pit dimensions: length 25', width 25', depth 14'
(Attach diagram)

Reference: wellhead ☒ other ☐

Footage from reference: 210'

Direction from reference: 56 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) 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) 0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: _____ Date Completed: 3/17/94

Remediation Method: Excavation ☒ Approx. cubic yards 325
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: 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 REFER TO "CLOSURE VERIFICATION" SHEET

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

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 4/29/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

A1

Well Name:	Lefkovitz GC B # 1
Well Site location:	Unit A, Sec. 25, T29N, R10W
Pit Type:	Separator pit
Producing Formation:	Basin Dakota
Pit Category:	Vulnerable Area
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	< 50 ft.

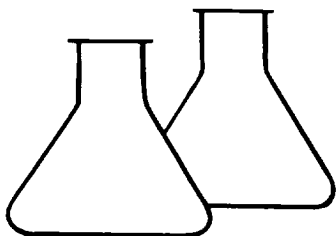
RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe reached practical extent at 14 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Vertical extent was established by using lab analysis (North sidewall BTEX results and pit bottom TPH results). Sidewalls except north perimeter revealed OVM levels below 100 ppm. Extent of TPH contamination contained within the north sidewall appears to be limited in quantity.
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.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is limited. In addition, the below standards for the BTEX and TPH results of the north sidewall and pit bottom, respectively, also demonstrates the low probability of groundwater impact from the contamination remaining in place. 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 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	1 @ 9'	Date Reported:	03-18-94
Laboratory Number:	7063	Date Sampled:	03-16-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Extracted:	03-18-94
Condition:	Cool & Intact	Date Analyzed:	03-18-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	20.0
Toluene	1,490	50.0
Ethylbenzene	960	20.0
p,m-Xylene	14,700	30.0
o-Xylene	3,420	20.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	96 %

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

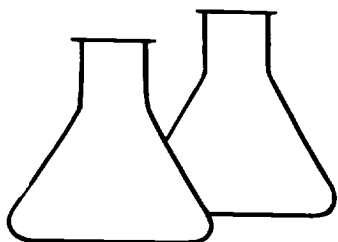
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz GC B1 Separator Pit C4520

Dennis L. Gencer
Analyst

Marvin D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	1 @ 9'	Date Sampled:	03-16-94
Laboratory Number:	7063	Date Received:	03-16-94
Sample Matrix:	Soil	Date Analyzed:	03-27-94
Preservative:	Cool	Date Reported:	03-27-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	184	10.0

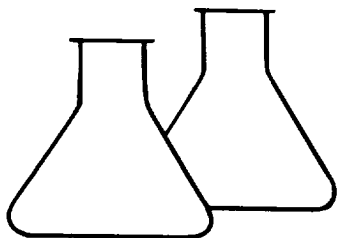
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Lefkovitz GC B1 Sep Pit C4520

Tony Triano
Analyst

Marie D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 14'	Date Sampled:	03-17-94
Laboratory Number:	7065	Date Received:	03-17-94
Sample Matrix:	Soil	Date Analyzed:	03-27-94
Preservative:	Cool	Date Reported:	03-27-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	10.1	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: Lefkovitz GC Bl Sep Pit C4520

Tony Tintano
Analyst

Mavis D. Young
Review

[illegible]

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>C4520</u> C.O.C. NO: <u>5609</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>LEFKOWITZ GC B</u> WELL #: <u>1</u> PITS: <u>SEP, BLOW</u> QUAD/UNIT: <u>A</u> SEC: <u>25</u> TWP: <u>29</u> RNG: <u>10</u> PM: <u>NM</u> CNTY: <u>5J</u> ST: <u>NM</u> QTP/FOOTAGE: <u>NE 1/4 NE 1/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>11/22/97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 1100
 LAND USE: RANGE LIFT DEPTH (ft): 12"-18"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

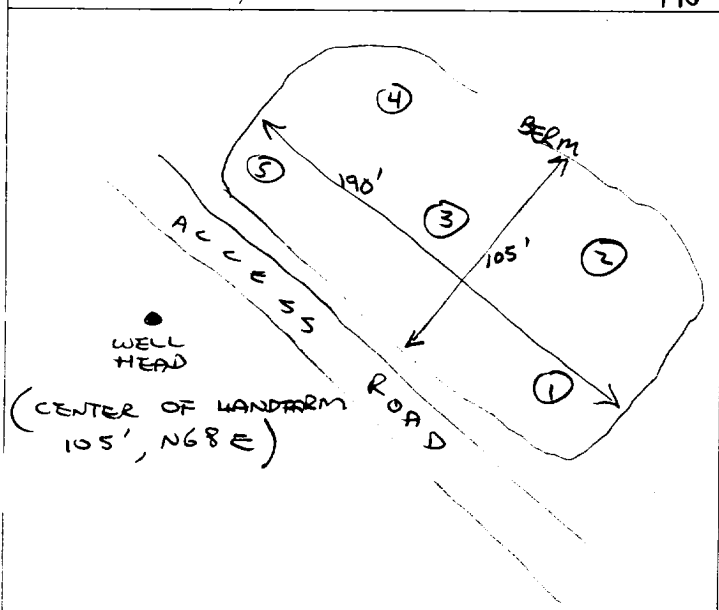
NMOC RANKING SCORE: 20 NMOC TPH CLOSURE STD: 100 PPM

SOIL CONSIST OF MOSTLY DK. YELL. BROWN SAND. W/ SMALL AMOUNT OF GRAVEL, SLIGHTLY MOIST, FIRM, BLACKISH DISCOLORATION OBSERVED W/IN SAND @ EACH SAMPLE PT., NO HC ODOR OBSERVED, COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS.

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS ↑ N



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (2015)	1330	ND

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 11/22/97

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

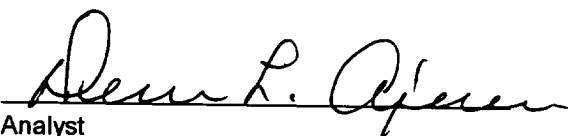
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	11-26-97
Laboratory Number:	C566	Date Sampled:	11-22-97
Chain of Custody No:	5609	Date Received:	11-24-97
Sample Matrix:	Soil	Date Extracted:	11-24-97
Preservative:	Cool	Date Analyzed:	11-25-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

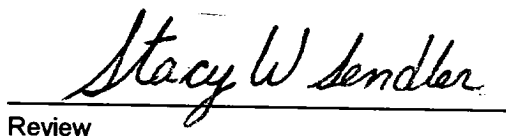
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Lefkovitz GC B #1 Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name <i>BLISS / Amco</i>			Project Location <i>LANDFARM</i>			ANALYSIS/PARAMETERS					
Sampler: (Signature) <i>Alison VJg</i>			Chain of Custody Tape No. <i>04034-10</i>								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks					
<i>LF-1</i>	<i>11/24/97</i>	<i>1330</i>	<i>CS66</i>	<i>SOIL</i>	<i>1</i>						
						<i>RESTEDU. - COOL</i> <i>5 PT. COMPOSITE</i>					
Relinquished by: (Signature) <i>Alison VJg</i>			Date <i>11/24/97</i>	Time <i>0805</i>	Received by: (Signature) <i>Alison L. Oliver</i>	Date <i>11-24-97</i>	Time <i>0805</i>	<i>sample received and analyzed</i>			
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

RF CACS *5575 → 5584*
5605 → 5615

ENVIROTECH INC.
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