

District I

P.O. Box 1980, Abbe, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

io 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

Blow - Risk (CY 118)

SEP - VISK RISK

APPROPRIATE

SUBMIT 1 COPY TO

DISTRICT OFFICE

AND 1 COPY TO

SANTA FE OFFICE

**PIT REMEDIATION AND CLOSURE REPORT**

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

**Address:** 20C Amoco Court, Farmington, New Mexico 87401

**Facility or:** GERK GC B #1  
**Well Name**

**Location:** Unit or Qtr/Qtr Sec 6 sec 30 T 29 N R 9 W county SAN JUAN

**Pit Type:** Separator    Dehydrator    other BLOW

**Land Type:** BLM   , State   , Fee   , Other CON AGMT.

**Pit Location:** Pit dimensions: length 35', width 35', depth 13'  
(Attach diagram)

**Reference:** wellhead X, other   

**Footage from reference:** 155

**Direction from reference:** 45 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) <u>10</u>

**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) <u>0</u>

**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) <u>0</u>

**RANKING SCORE (TOTAL POINTS):** 10

Date Remediation Started: \_\_\_\_\_ Date Completed: 4/28/94

Remediation Method: Excavation ☒ Approx. cubic yards 590  
(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: \_\_\_\_\_

Excavation, BELOW BOTTOM, RISK ASSESSED, 90'

Ground Water Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents

Closure Sampling:  
(if multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 13'

Sample date 4-28-94 Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 1265

TPH 620 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 4/29/94 5/23/98

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

RESULTS TO PAUL V. 4-28-94

CLIENT: AMOCO

ENVIROTECH Inc.

PIT NO: C4978

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

C.O.C. NO: —

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: LEASE: GERK GC B WELL #: 1 PIT: BLOW

DATE STARTED: 4-28-94

UNIT: G SEC: 30 TWP: 29N RNG: 9W BM: NM CNTY: SJ ST: NM

DATE FINISHED: 4-28-94

CONTRACTOR: PAUL VELASQUEZ

ENVIRONMENTAL SPECIALIST: REC

SOIL REMEDIATION: EXCAVATION APPROX. 35 FT. x 35 FT. x 13 FT. DEEP.

DISPOSAL FACILITY: ON SITE LANDFARM

LAND USE: RANGE

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 155 FEET N45°W FROM WELLHEAD.

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

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT EXCAVATED IN SHALE/BEDROCK SANDSTONE.  
SOME GRAY OILS VISIBLE ON PIT WALLS + BOTTOM  
WALLS + BOTTOM ARE HARD.

NO ADDITIONAL EXCAVATION POSSIBLE.

CONTAMINATION REMAINS IN ROCK FRACTURES / BEDROCK SANDSTONE ONLY.

BEDROCK  
BOTTOM

FIELD 4181 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
4)C3@13'	GAC 425	10.00	20	—	310	620

PSI ASSESSED

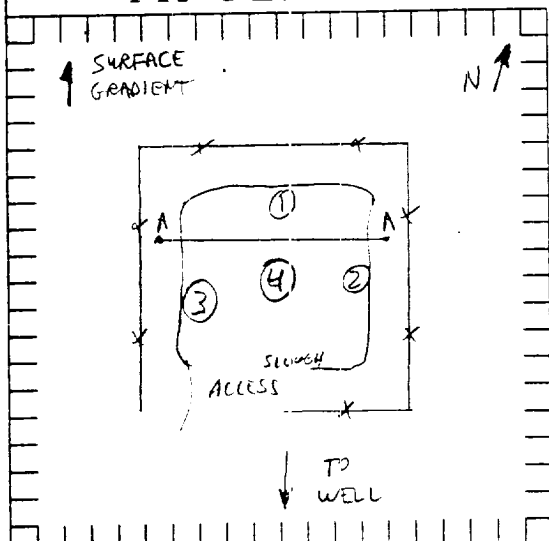
AV

SCALE



0 10 20 FEET

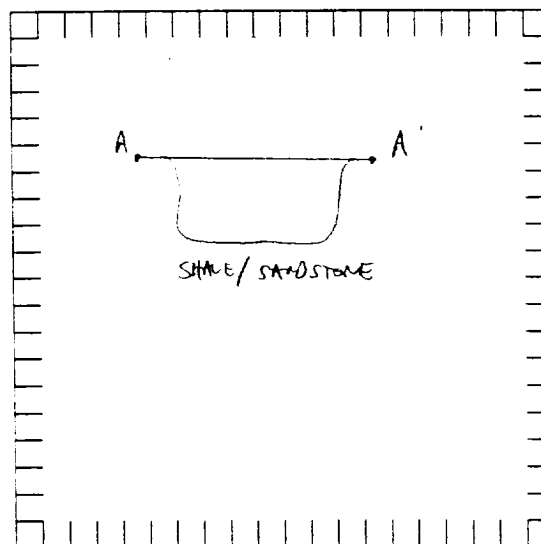
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
① NS010	1126
② ES09	191
③ SW09	16
④ CB@13'	1265

PIT PROFILE



TRAVEL NOTES:

CALLOUT: 4-28-94

ONSITE: 4-28-94

1230

**Well Name:**

**Well Site location:**

**Pit Type:**

**Producing Formation:**

**Pit Category:**

**Horizontal Distance to Surface Water:**

**Vicinity Groundwater Depth:**

**Gerk GC B #1**

**Unit G, Sec. 30, T29N, R9W**

**Blow Pit**

**Basin Dakota**

**Vulnerable**

**> 1000 ft.**

**< 100 ft.**

## **RISK ASSESSMENT**

Pit remediation activities were terminated when trackhoe encountered shale/sandstone bedrock at 13 feet below grade.

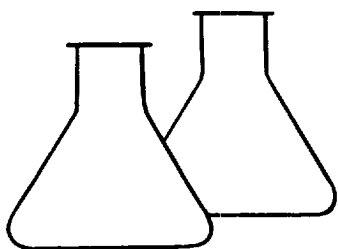
No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/sandstone bedrock located 13 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 (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	1100	0.011	5.889
Berger A1	482	0.084	0.681
Mudge Com B 1E	684	0.017	16.438
L.C. Kelly #5	1235	0.643	13.908

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/sandstone bottom creates enough of a 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 therefore request 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:	CB @ 13'	Date Analyzed:	4-28-94
Project Location:	Gerk GC B 1	Date Reported:	4-28-94
Laboratory Number:	GAC0435	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	620	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	750	820	9

\* 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 C4978

R. E. O'Neil  
Analyst

Tony T. T. T.  
Review

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Aztec, 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 87504-2088SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICEPIT REMEDIATION AND CLOSURE REPORTOperator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: GERK GC B1  
Well NameLocation: Unit or Qtr/Qtr Sec G Sec 30 T 29N R 9W County SAN JUANPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: BLM ☐, State ☐, Fee ☐, Other COM. A6MT.t Location: Pit dimensions: length 20', width 45', depth 7'  
(Attach diagram)Reference: wellhead ☒, other ☐Footage from reference: 150Direction from reference: 35 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) <u>10</u>

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) <u>0</u>

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) <u>0</u>

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Start : \_\_\_\_\_

Date Completed: 5/2/94

Remediation Method: Excavation ☒  
(Check all appropriate sections) Landfarmed ☒

Approx. cubic yards 235

Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

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

General Description of Remedial Action: EXCAVATION. BEDROCK

BOTTOM. RISK ASSESSED AS

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 7'

Sample date 5-2-94

Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 1356

TPH 53 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 5/6/94

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

ONSITE: 5/2/94 - now



**Well Name:****Well Site location:****Pit Type:****Producing Formation:****Pit Category:****Horizontal Distance to Surface Water:****Vicinity Groundwater Depth:****Gerk GC B #1**

Unit G, Sec. 30, T29N, R9W

Separator Pit

Basin Dakota

Vulnerable

&gt; 1000 ft.

&lt; 100 ft.

## **RISK ASSESSMENT**

Pit remediation activities were terminated when trackhoe encountered shale/sandstone bedrock at 7 feet below grade.

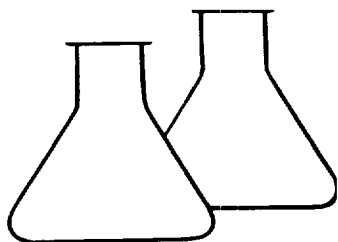
No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/sandstone bedrock located 7 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 (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	1100	0.011	5.889
Berger A1	482	0.084	0.681
Mudge Com B 1E	684	0.017	16.438
L.C. Kelly #5	1235	0.643	13.908

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/sandstone bottom creates enough of a 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 therefore request 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:	5 @ 7'	Date Sampled:	05-02-94
Laboratory Number:	7333	Date Received:	05-03-94
Sample Matrix:	Soil	Date Analyzed:	05-03-94
Preservative:	Cool	Date Reported:	05-03-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	53	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: Gerk GC B1 Sep Pit C4981

Tony Tristano  
Analyst

Mavis S. Young  
Review



District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Aztec, NM 88211  
District III  
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

**PIT REMEDIATION AND CLOSURE REPORT**

**Operator:** Amoco Production Company **Telephone:** (505) - 326-9200  
**Address:** 200 Amoco Court, Farmington, New Mexico 87401  
**Facility Or:** GERK GC B 1  
**Well Name**  
**Location:** Unit or Qtr/Qtr Sec G sec 30 T 29N R 9W county SAN JUAN  
**Pit Type:** Separator    Dehydrator    Other ABANDONED COMPRESSOR  
**Land Type:** BLM   , State   , Fee   , Other COM. AGMT.

**t Location:** Pit dimensions: length 13', width 16', depth 6'  
(Attach diagram) Reference: wellhead X, other     
Footage from reference: 102'  
Direction from reference: 70 Degrees X East North X  
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) 10  
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):** 10

Date Remediation Started: \_\_\_\_\_

Date Completed: 5/2/94

Remediation Method: Excavation ☒  
(Check all appropriate sections)

Approx. cubic yards 50

Landfarmed ☒

Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_

(ie. landfarmed onsite,  
name and location of  
offsite facility)

General Description Of Remedial Action: EXCAVATION - BEDROCK

BOTTOM. RISK ASSESSED - 915

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 6'

Sample date 5-2-94

Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 323

TPH 1900 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 5/2/94 5/23/98 915

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

CLIENT: AMOCO

ENVIROTECH Inc.

PIT NO: C4982

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

C.D.C. NO: 3557

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: LEASE: GERK GC WELL #: 81 PIT: ABAND. COMP.

DATE STARTED: 5/2/94

DATE FINISHED: 5/2/94

UNIT: 6 SEC: 30 TWP: 29N RNG: 9W BM: NM CNTY: SAN JUAN ST: NM

ENVIRONMENTAL SPECIALIST: *NV*

CONTRACTOR: P. VELASQUEZ

SOIL REMEDIATION: EXCAVATION APPROX. 13 FT. x 16 FT. x 6 FT. DEEP.

DISPOSAL FACILITY: LANDFARMED ON-SITE

LAND USE: RANGE

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 102 FEET N70E FROM WELLHEAD.

DEPTH TO GROUNDWATER: <100' NEAREST SURFACE WATER: >1000' NEAREST WATER SOURCE: >1000'

NMOC Ranking Score: 10 NMOC TPH Closure Std: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: ALL URM SAMPLES COMPOSED OF SHALY ROCK MATERIAL.  
BOTTOM CENTER SAMPLE HAD SLIGHT HC COOR.

BEDROCK  
Bottom

COLLECTED LAB SAMPLE FOR TPH (418.1) ⑤ @ G<sup>1</sup> TIME - 10

RISK ASSESSED

FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

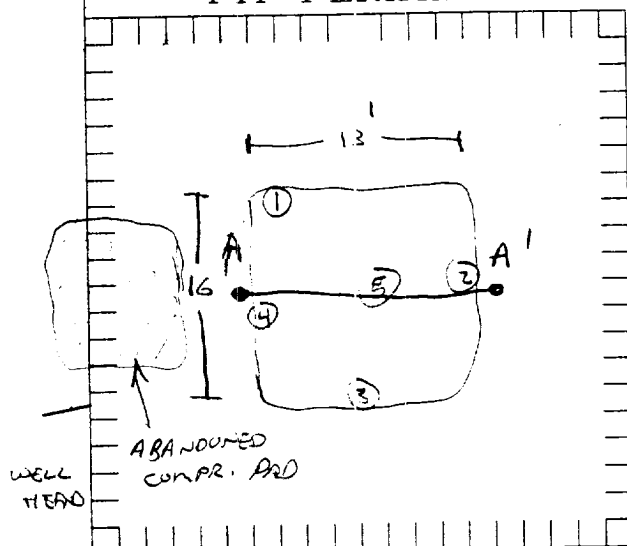
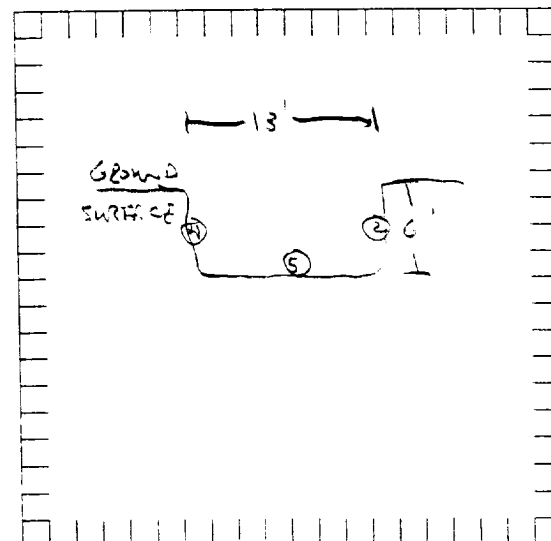
0

FEET

PIT PERIMETER

## OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES:      CALLOUT: 4/29/94 - FRI      ONSITE: 5/2/94 - MON

<b>Well Name:</b>	<b>Gerk GC B #1</b>
<b>Well Site location:</b>	Unit G, Sec. 30, T29N, R9W
<b>Pit Type:</b>	Compressor Pit
<b>Producing Formation:</b>	Basin Dakota
<b>Pit Category:</b>	Vulnerable
<b>Horizontal Distance to Surface Water:</b>	> 1000 ft.
<b>Vicinity Groundwater Depth:</b>	< 100 ft.

## **RISK ASSESSMENT**

Pit remediation activities were terminated when trackhoe encountered shale/sandstone bedrock at 6 feet below grade.

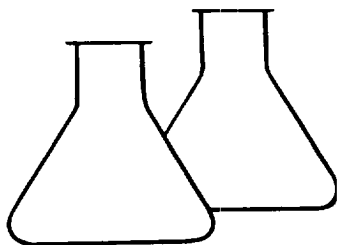
No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/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 (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	1100	0.011	5.889
Berger A1	482	0.084	0.681
Mudge Com B 1E	684	0.017	16.438
L.C. Kelly #5	1235	0.643	13.908

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/sandstone bottom creates enough of a 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 therefore request 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:	5 @ 6'	Date Sampled:	05-02-94
Laboratory Number:	7334	Date Received:	05-03-94
Sample Matrix:	Soil	Date Analyzed:	05-03-94
Preservative:	Cool	Date Reported:	05-03-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	1,900	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: Gerk GC B1 Abandoned Compressor C4982

Tony Tustans  
Analyst

Marin D. Young  
Review





CLIENT: <u>AMOCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C4978 LOCATION NO: <u>C4981</u> C.D.C. NO: <u>5570</u>
----------------------	---------------------------------------------------------------------------------------	--------------------------------------------------------------

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>GERK GC B</u> WELL #: <u>1</u> PITS: <u>Blow, SEP, COMP</u> QUAD/UNIT: <u>(G)</u> SEC: <u>30</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>P &amp; S</u>	DATE STARTED: <u>11-20-97</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV/EP</u>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------

### SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 825

 LAND USE: RANGE

 LIFT DEPTH (ft): NA

### FIELD NOTES & REMARKS:

 DEPTH TO GROUNDWATER: 5100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

 NMDCI RANKING SCORE: 10 NMDCI TPH CLOSURE STD: 1000 PPM

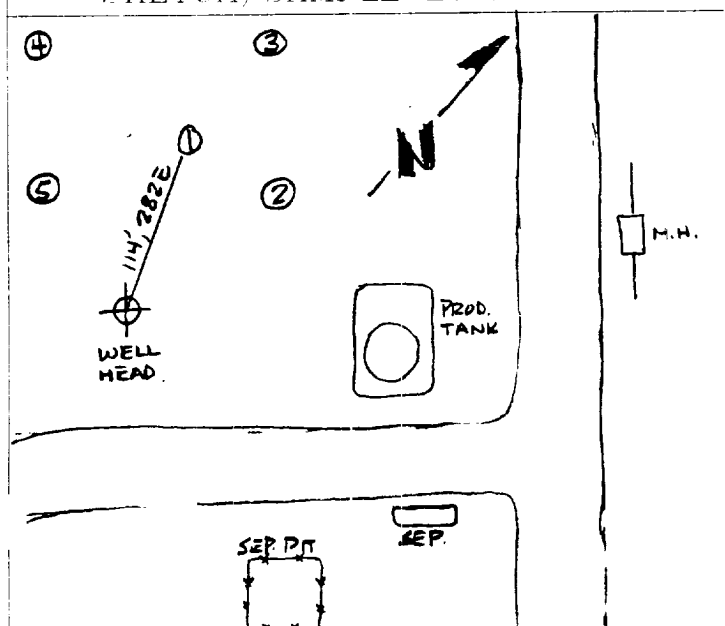
SOIL IS DRY LIGHT GRAY CLAY W/SILTY SAND.

NO STAIN OR H.C. ODOOR TOOK 5 PT COMPOSITE FOR LAB ANALYSIS, UNCERTAIN IF AREA SAMPLE IS ACTUAL LANDFARMED SOIL.

### FIELD 418.1 CALCULATIONS

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

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

### LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	8015	1120	ND

### SCALE

0 1 FT

### TRAVEL NOTES:

 CALLOUT: N/A

 ONSITE: 11-20-97
1120

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

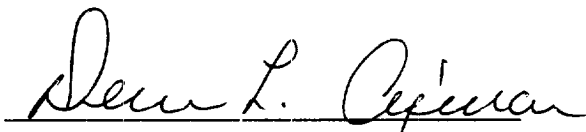
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	11-25-97
Laboratory Number:	C545	Date Sampled:	11-20-97
Chain of Custody No:	5570	Date Received:	11-21-97
Sample Matrix:	Soil	Date Extracted:	11-21-97
Preservative:	Cool	Date Analyzed:	11-24-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

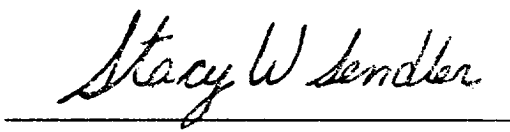
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Gerk GC B #1 Landfarm. 5 Pt. Composite.**

  
Analyst

  
Review

(505) 632-0615