

3R - 103

# REPORTS

DATE:

1999

## **BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505) 632-1199 Fax: (505) 632-3903

February 17, 1999

**RECEIVED**

**FEB 19 1999**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

Mr. William C. Olson -Hydrogeologist  
Environmental Bureau  
New Mexico Oil Conservation Division  
2040 Pacheco  
State Land Building  
Santa Fe, New Mexico 87505

RE: Cross Timbers Oil Co. (Amoco) Pit Closure/Groundwater Monitoring Reports  
San Juan County, New Mexico

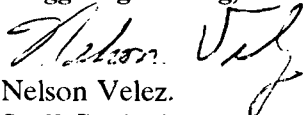
Dear Mr. Olson:

The attached reports on pit closure/groundwater monitoring at nineteen (19) previously owned Amoco well locations is being submitted for your review. These well sites have been acquired by Cross Timbers Co. as of December, 1997. The well names are listed on the following page of this correspondence. The reports for each individual well site are laid out in the following order;

- 1) Pit Closure documentation and/or a brief description of all activities which occurred during the investigation, sampling procedures, and/or interpretations, conclusions, and possible recommendations.
- 2) A summary spreadsheet (when applicable) containing laboratory BTEX, general chemistry (if applicable), and any other pertinent information.
- 3) When applicable: site and groundwater gradient maps, boring logs, and monitor well detail schematics.
- 4) Laboratory reports for each sampling event.
- 5) Quality Assurance/Quality Control data.

A copy of this report is also being submitted to Mr. Denny Foust at the Aztec NMOCD office. If you have any questions or comments concerning this report, please contact Blagg Engineering at 632-1199.

Respectfully submitted,  
**Blagg Engineering, Inc.**

  
Nelson Velez.  
Staff Geologist

Attachments: Pit Closure/Groundwater Monitoring Reports

xc: Denny Foust, NMOCD Aztec Office; Nina Hutton, Cross Timbers Oil Co.

NJV/njv

FEB99-PC.COV

Cross Timbers Oil Company  
Pit Closure/Groundwater Monitoring Reports  
Well Sites being submitted, February 1999

1) Abrams GC C # 1	Unit F, Sec. 25, T29N, R10W
2) Abrams L # 1A	Unit I, Sec. 26, T29N, R10W
3) Anderson GC A # 1	Unit C, Sec. 28, T29N, R10W
4) Armenta GC A # 1	Unit D, Sec. 27, T29N, R10W
5) Baca GC A # 1	Unit H, Sec. 26, T29N, R10W
6) Baca GC A # 1A	Unit F, Sec. 26, T29N, R10W
7) Chavez GC C # 1R	Unit J, Sec. 23, T29N, R10W
8) Federal GC 3-1	Unit N, Sec. 23, T29N, R10W
9) Garcia GC B # 1E	Unit M, Sec. 21, T29N, R10W
10) Haney GC B # 1E	Unit M, Sec. 20, T29N, R10W
11) Hare GC C # 1	Unit M, Sec. 25, T29N, R10W
12) Hare GC C # 1E	Unit F, Sec. 25, T29N, R10W
13) Hare GC F # 1	Unit G, Sec. 23, T29N, R11W
14) Lefkovitz GC B # 1	Unit A, Sec. 25, T29N, R10W
15) Masden GC # 1	Unit A, Sec. 28, T29N, R11W
16) Romero GC A # 1	Unit K, Sec. 27, T29N, R10W
17) Stedje GC # 1	Unit F, Sec. 27, T30N, R12W
18) Stedje GC # 1E	Unit A, Sec. 27, T30N, R12W
19) Trujillo GC A # 1	Unit C, Sec. 28, T29N, R10W

District I  
P.O. Box 1980, Hobbs, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

District II

Drawer DD, Artesia, NM 88211

District III

1000 Rio Bravo Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

RECEIVED

APPROVED

FEB 19 1999

PIT REMEDIATION AND CLOSURE REPORT

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

C4960

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility or: BACA GC A1  
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 26 T 29N R 10W County SAN JUAN

Pit Type: Separator    Dehydrator    Other BLOW

Land Type: BLM   , State   , Fee   , Other COM, A6MT.

Pit Location: Pit dimensions: length 34, width 30, depth 14  
(attach diagram)

Reference: wellhead X, other   

Footage from reference: 100'

Direction from reference: 0 Degrees    East North     
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) 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) 10

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) 10

RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: \_\_\_\_\_ Date Completed: 3/23/94

Remediation Method: Excavation ☒ Approx. cubic yards 610  
(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: \_\_\_\_\_

Ground Water Encountered: No \_\_\_\_\_ Yes ☒ Depth 12'

Final Pit: Sample location REFER TO "CLOSURE VERIFICATION" SHEET

Closure Sampling: \_\_\_\_\_  
(if multiple samples, attach sample results and diagram of sample locations and depths)

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

C4960

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

COCR 3451

## FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140  
PAGE No: 1 of 1

LOCATION: LEASE: BACA GC WELL: A1 QD: SE/4 NE/4 (H)  
SEC: 26 TWP: 29N RNG: 10W BM: NM CNTY: SAN JUAN ST: NM PIT: 6LOW  
CONTRACTOR: P. VELASQUEZ  
EQUIPMENT USED: TRACKHOE

DATE STARTED: 3/23/94  
DATE FINISHED: 3/23/94

ENVIRONMENTAL  
SPECIALIST: *NV*

SOIL REMEDIATION: QUANTITY: 34' x 30' x 14'  
DISPOSAL FACILITY: LANDFARMED ON-SITE

LAND USE: RANGE

SURFACE CONDITIONS: UNKNOWN (SEE SITE ASSESSMENT FIELD REPORT 94319)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 33 YARDS ONE WEST FROM WELLHEAD.

DEPTH TO GROUNDWATER: < 12'  
NEAREST WATER SOURCE: 300 - 500'  
NEAREST SURFACE WATER: < 300'

GW NOT PUMPED PRIOR TO SAMPLING, NO HC SHEEN OBSERVED ON GW SURFACE

LAB SAMPLE: COLLECTED GW SAMPLE FOR BTEX (BDO)

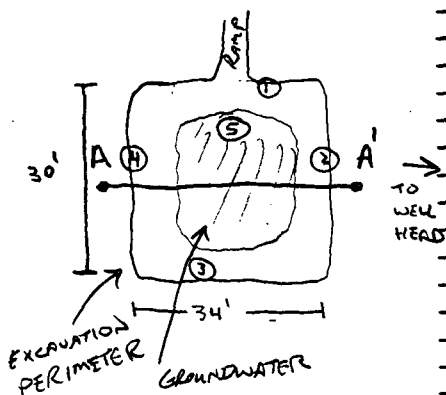
## FIELD 418.1 CALCULATIONS

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

### SCALE



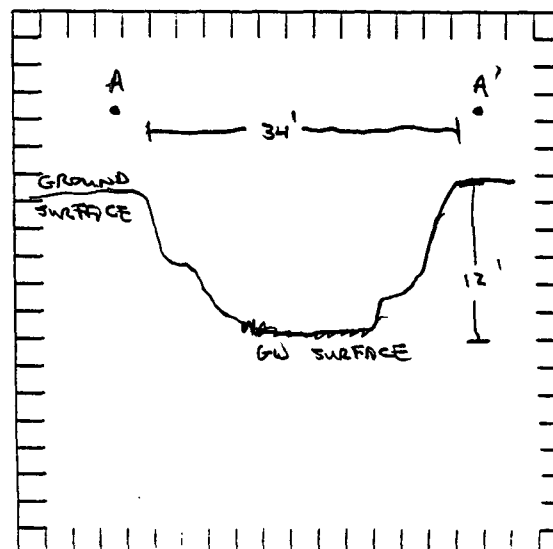
FEET  
PIT PERIMETER



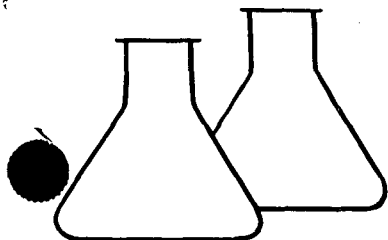
## OVM RESULTS

[illegible]

## PIT PROFILE



TRAVEL NOTES: CALLOUT: 3/23/94 ONSITE: 3/23/94



# 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:	5 @ GW (12')	Date Reported:	03-24-94
Laboratory Number:	7093	Date Sampled:	03-23-94
Sample Matrix:	Water	Date Received:	03-23-94
Preservative:	HgCl and Cool	Date Analyzed:	03-23-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.9	0.4
Ethylbenzene	ND	0.4
p,m-Xylene	2.9	0.5
o-Xylene	1.0	0.4

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	97 %

Method: Method 5030A, 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: Baca GC A1 Blow Pit C4960

*Dennis L. Jensen*  
Analyst

*Mavis D. Young*  
Review

C4960

## CHAIN OF CUSTODY RECORD

[illegible]**ENVIROTECH INC.**

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

**(505) 632-0615**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Amoco Production Company

## 3. Address and Telephone No.

200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE - NE S - 26 T29N R10W NM PM

## 5. Lease Designation and Serial No.

NM 015P3586C

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA, Agreement Designation

COM. AGMT

## 8. Well Name and No.

BACA GC A #1

## 9. API Well No.

3004526110

## 10. Field and Pool, or Exploratory Area

CHACRA

## 11. County or Parish, State

SAN JUAN, N.M.

## 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
- 
- ☒
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Abandonment
- 
- ☐
- Recompletion
- 
- ☐
- Plugging Back
- 
- ☐
- Casing Repair
- 
- ☐
- Altering Casing
- 
- ☒
- Other Pit closure
- 
- ☐
- Change of Plans
- 
- ☐
- New Construction
- 
- ☐
- Non-Routine Fracturing
- 
- ☐
- Water Shut-Off
- 
- ☐
- Conversion to Injection
- 
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pit closure verification - see attached documentation.

① BLOW PIT - ABANDONED, GROUNDWATER, PERMANENT CLOSURE UNDER  
Amoco's GW PLAN (SEC. 1.2)

## 14. I hereby certify that the foregoing is true and correct

Signed

B. Shaw

Title

Enviro. Coordinator

Date

4/29/94

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

## SPECIFIC INSTRUCTIONS

**Item 4**—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 13**—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE** — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

### ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION** — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

**District I**

P.O. Box 1980, Hobbs, NM

**District II**

P.O. Drawer DD, Artesia, NM 88211

**District III**

10 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

RECEIVED

FEB 19 1999

**PIT REMEDIATION AND CLOSURE REPORT**

APPROVED

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: BACA GC A1  
Well Name

Location: Unit or Qtr/Qtr Sec H sec 26 T29N R10W county SAN JUAN

Pit Type: Separator Dehydrator ☒ Other

Land Type: BLM, State, Fee, other Com. AGMT.

Pit Location: Pit dimensions: length 24', width 45', depth 10'  
(Attach diagram)Reference: wellhead ☒, other

Footage from reference: 140'

Direction from reference: 50 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) 20**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) 10

RANKING SCORE (TOTAL POINTS): 50

Date Remediation Started: \_\_\_\_\_ Date Completed: 12/30/94Remediation Method: Excavation ☒  
(Check all appropriate sections)Landfarmed ☒Approx. cubic yards 300

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 DocumentsMULTIPLE SAMPLESSample depth 6' + 10'Sample date 12-28-94

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

Sample Results

Benzene(ppm) ND @ 6'Total BTEX(ppm) 0.0794 @ 6'Field headspace(ppm) 68 @ 10'TPH 40 ppm @ 10'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 BELIEFDATE 12/30/94

SIGNATURE

Buddy D. ShawPRINTED NAME  
AND TITLEBuddy D. Shaw  
Environmental Coordinator

RED

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80199</u> C.O.C. NO: _____
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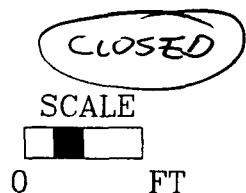
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>BACA GC</u> WELL #: <u>A1</u> PIT: <u>DEHY</u>	DATE STARTED: <u>12/28/94</u>
QUAD/UNIT: <u>H</u> SEC: <u>26</u> TWP: <u>29N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST. NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>SE1/4 NE1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>24</u> FT. x <u>45</u> FT. x <u>10</u> FT. DEEP. CUBIC YARDAGE: <u>300</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u> LEASE: <u>-</u> FORMATION: <u>MV</u>

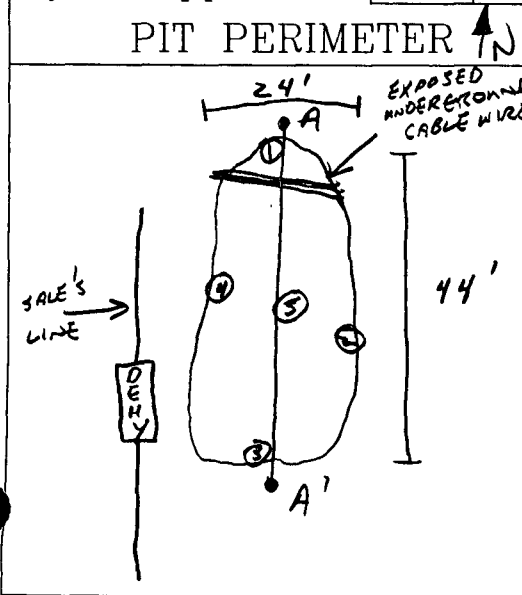
FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>140</u> FT. <u>SSOE</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&lt;50'</u>	NEAREST WATER SOURCE: <u>&lt;1000'</u>
NMCD RANKING SCORE: <u>50</u>	NEAREST SURFACE WATER: <u>&lt;1000'</u>
NMCD TPH CLOSURE STD: <u>100</u> PPM	
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: <input type="checkbox"/> PIT ABANDONED <input checked="" type="checkbox"/> STEEL TANK INSTALLED

MOSTLY OR. YELL. BROWN CLAY, HIGHLY PLASTIC, SLIGHTLY MOIST TO MOIST, FIRM TO STIFF, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.



FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1330	(5) @ 10'	TPH-1338	5	30	1:1	10	40
1340	(1) @ 6'	TPH-1339	5	20	1:1	13	52

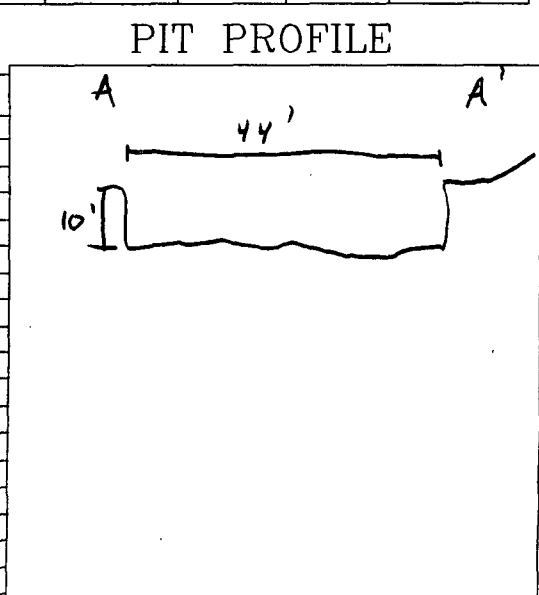


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 6'	31.9
2 @ 6'	15.9
3 @ 6'	0.0
4 @ 6'	0.0
5 @ 10'	68.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(1) @ 6'	BTEX	1340
	<u>PAUSED</u>	



TRAVEL NOTES:	CALLOUT: <u>12/28/94</u>	ONSITE: <u>12/28/94</u>
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**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: 5 @ 10'  
Project Location: Baca GC A 1  
Laboratory Number: TPH-1338

Project #:   
Date Analyzed: 12-29-94  
Date Reported: 12-29-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	40	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	3560	3040	15.76

\*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: Dehydrator Pit - B0199

  
Analyst  
Review

**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: 1 @ 6'  
Project Location: Baca GC A 1  
Laboratory Number: TPH-1339

Project #:   
Date Analyzed: 12-29-94  
Date Reported: 12-29-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	52	20

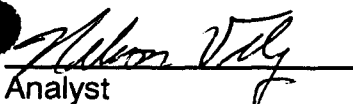
ND = Not Detectable at stated detection limits.

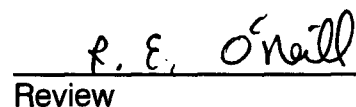
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3560	3040	15.76

\*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: Dehydrator Pit - B0199

  
Analyst

  
Review

OFF: (505) 325-8786

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

Attn: *Nelson Velez*  
Company: *Blagg Engineering*  
Address: *P.O. Box 87*  
City, State: *Bloomfield, NM 87413*

Date: *12/30/94*  
Lab ID: *2519*  
Sample ID: *4554*  
Job No. *2-1000*

Project Name: *BACA GC A 1*  
Project Location: *1 @ 6' - Dehy Pit*  
Sampled by: *NV* Date: *12/28/94*  
Analyzed by: *DLA* Date: *12/30/94*  
Sample Matrix: *Soil*

Time: *13:40*

**Aromatic Volatile Organics**

<b>Component</b>	<b>Measured Concentration ug/kg</b>	<b>Detection Limit Concentration ug/kg</b>
<i>Benzene</i>	<i>ND</i>	<i>0.2</i>
<i>Toluene</i>	<i>ND</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>79.4</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>ND</i>	<i>0.2</i>
<b>TOTAL</b> <i>79.4 ug/kg</i>		

*ND - Not Detectable*

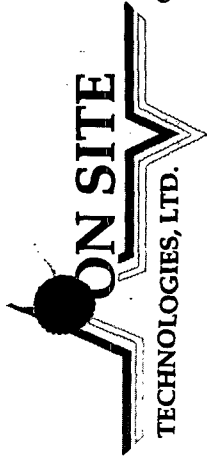
**Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DLA*

Date: *12/30/94*

P. O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY SERVING THE CONCRETE INDUSTRY



# CHAIN OF CUSTODY RECORD

2519

Page 1 of 1

Date: 12/28/94  
657 W. Maple • P.O. Box 2606 • Farmington NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

80199

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company		PG	
Address		BLAC ENGINEERING		Mailing Address		SAME	
City, State, Zip		P.O. BOX 87		City, State, Zip		SAME	
Sampling Location:		BACA GC AI		Telephone No.		632-1199	
Sampler:		Nelson Vile		Telefax No.			
SAMPLE IDENTIFICATION		DATE		TIME		LAB ID	
10E61 - DEHY PIT		12/28/94		1340		554-2519	
RESULTS TO		REPORT		ANALYSIS REQUESTED			
Number of Containers		1		BTEX (802)			
Relinquished by:		Nelson Vile		Received by:		D. J. O'Brien	
Date/Time		12/29/94		Date/Time		1438	
Relinquished by:				Received by:			
Date/Time				Date/Time			
Relinquished by:				Received by:			
Date/Time				Date/Time			
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by:		(Client Signature Must Accompany Request)		Special Instructions:			
Date				Date			
Distribution: White - On Site		Yellow - LAB		Pink - Sampler		Goldenrod - Client	

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80199</u> C.D.C. NO: <u>-</u>
----------------------	--	--

# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>BACA GC</u> WELL #: <u>A1</u> PITS: <u>BLOW, DEHY, DEHY</u>	DATE STARTED: <u>5/28/96</u>
QUAD/UNIT: <u>H</u> SEC: <u>26</u> TWP: <u>29N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	DATE FINISHED: <u>-</u>
QTR/FOOTAGE: <u>SE 1/4 NE 1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMED

APPROX. CUBIC YARDAGE: 1520 BACA 1200 McDANIEL 2720

LAND USE: AGRICULTURAL RANGE

LIFT DEPTH (ft): 0.5-2.5'

## FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 550' NEAREST WATER SOURCE: < 1000' NEAREST SURFACE WATER: < 1000'

NMOC D RANKING SCORE: 50 NMOC D TPH CLOSURE STD: 100 PPM

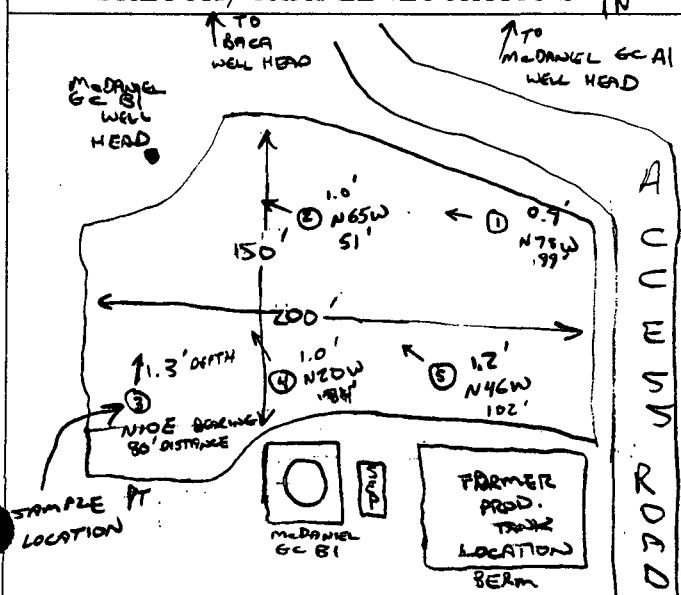
McDANIEL GC A1 - DEHY PIT SOILS COMBINED W/ BACA GC A1 - BLOW & DEHY PITS (SAME WELL PAD). COLLECTED 5 PT. COMPOSITE SAMPLE (SEE SKETCH BELOW). SLIGHT HC OOR IN OVM SAMPLE. SAMPLE PT. ① CONSTRAINED CLAYEY SOIL, MED. GRAY DISCOLORATION, HC OOR.

**CLOSED**

## FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1010	LF-1	TPH-1728	5	20	1:1	21	84

## SKETCH/SAMPLE LOCATIONS



## OVM RESULTS

## LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	37.7				

## SCALE



## TRAVEL NOTES:

CALLOUT: -

ONSITE: 5/28/96

**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: LF - 1  
Project Location: Baca GC A1  
Laboratory Number: TPH-1728

Project #:  
Date Analyzed: 05-28-96  
Date Reported: 05-28-96  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	84	20

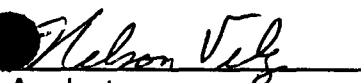
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	724	568	24.15

\*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 ( 5 pt. composite sample ) - B0199

  
Analyst

  
Review

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE/4 NE/4, SEC. 26, T29N, R10W, NMPM

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or ☒ Agreement Designation

NM015P3586C

8. Well Name and No.

BACA GC A1

9. API Well No.

3004526110

10. Field and Pool, or Exploratory Area

MESA VERDE/CHARA

11. County or Parish, State

SAN JUAN, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Pit closure  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pit closure verification - see attached documentation.

DEHYDRATOR PLT - STEEL TANK INSTALLED

14. I hereby certify that the foregoing is true and correct

Signed

*B. Shaw*

Title

*Enviro. Coordinator*

Date

*12/30/99*

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date