

3R - 99

# 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

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

**RECEIVED**

**FEB 19 1999**

**ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION**

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

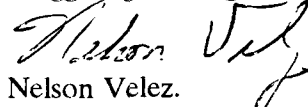
Dear Mr. Olson:

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

District II

Lawyer 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

RECEIVED

APPROVED

FEB 19 1999

PIT REMEDIATION AND CLOSURE REPORT

C4341

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility or: ABRAMS GC C1  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec F Sec 25 T 29N R 10W County SAN JUAN  
Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other BLOW  
Land Type: BLM \_\_, State \_\_, Fee X, Other \_\_\_\_\_

Location: Pit dimensions: length 57', width 45', depth 7'  
(attach diagram) Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 45'  
Direction from reference: 62 Degrees \_\_\_ East North X  
of  
X 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) 20  
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) 10  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches) Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 30

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

Date Completed: 3/14/94

Remediation Method: Excavation ☒  
(Check all appropriate sections)

Approx. cubic yards 950

Landfarmed ☒

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

Other \_\_\_\_\_

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

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

General Description Of Remedial Action: \_\_\_\_\_

PIT EXCAVATED & SOILS LANDFARMED ON-SITE

Ground Water Encountered: \_\_\_\_\_

No \_\_\_\_\_

Yes ☒

Depth 7'

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 4/27/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

C4341

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

COCR 3425

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140  
PAGE No: 1 of 1

LOCATION: LEASE: ABRAMS GC WELL: C1 QD: SW/4 NW/4 (F)  
SEC: 25 TWP: 29N RNG: 10W BM: N/M CNTY: SAN JUAN ST: NM PIT: ~~SEP~~  
CONTRACTOR: P. VELSRUEZ BLOW  
EQUIPMENT USED: TRACKHIE

DATE STARTED: 3/14/94  
DATE FINISHED: 3/14/94

ENVIRONMENTAL  
SPECIALIST: NV

SOIL REMEDIATION: QUANTITY: 57' x 45' x 7'  
DISPOSAL FACILITY: LANDFARM ON-SITE  
LAND USE: RANGE  
SURFACE CONDITIONS: UNKNOWN (SEE SITE ASSESSMENT FIELD REPORT 94341)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 15 YARDS N62°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7'  
NEAREST WATER SOURCE: > 500'  
NEAREST SURFACE WATER: 300-400'

WATER: 300-400  
COLLECTED GW SAMPLE FOR BTEX (8020) @ 1605-TIME.  
SIDEWALLS APPEAR FREE OF VISUAL HYDROCARBON CONTAMINATION (NOT  
SLOPE, THEREFORE INACCESSIBLE FOR SAMPLING).

FIELD 418.1 CALCULATIONS

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

SCALE



0

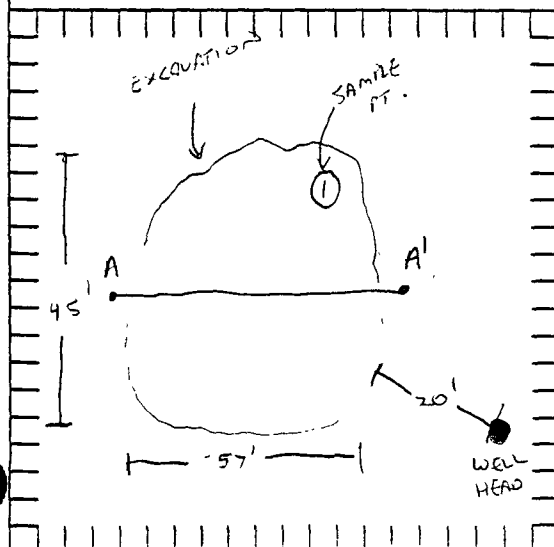
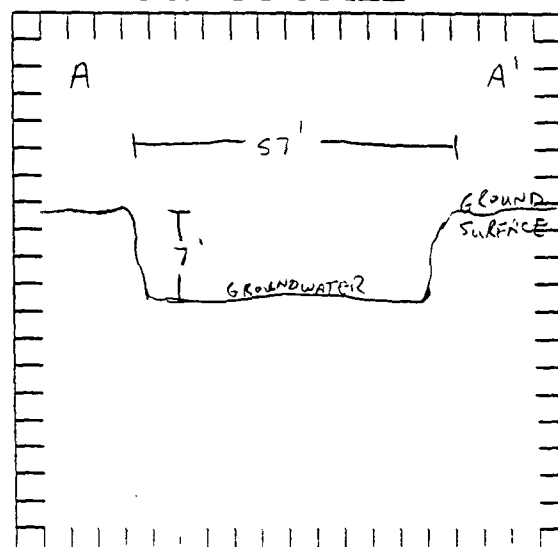
FEET

# PIT PERIMETER

$\uparrow$   
N

## OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES: CALLOUT: 3/14/94 ONSITE: 3/14/94



# 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:	1 @ GW (7')	Date Reported:	03-16-94
Laboratory Number:	7055	Date Sampled:	03-14-94
Sample Matrix:	Water	Date Received:	03-15-94
Preservative:	HgCl and Cool	Date Analyzed:	03-15-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.6	0.2
Toluene	3.2	0.4
Ethylbenzene	1.8	0.2
p,m-Xylene	11.1	0.3
o-Xylene	5.8	0.3

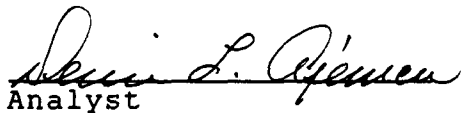
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	100 %

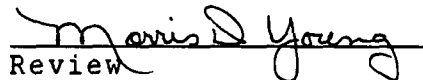
Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Abrams GC C1 Blow Pit C4341

  
Analyst

  
Review

3425  
C4341

## CHAIN OF CUSTODY RECORD

[illegible]



CLIENT: AMOCOBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: 64341C.D.C. NO: 5625

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: ABRAMS GC C WELL #: 1 PITS: BLWDATE STARTED: 11 25 97QUAD/UNIT: (F) SEC: 25 TWP: 29N RNG: 10W PM:  CNTY: SS ST: NMDATE FINISHED: QTP/FOOTAGE: SW/4 NW/4 CONTRACTOR: P & SENVIRONMENTAL  
SPECIALIST: NIV/EP

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 450LAND USE: RANGELIFT DEPTH (ft): NA

## FIELD NOTES &amp; REMARKS:

DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: < 1000' NEAREST SURFACE WATER: < 1000'NMOCED RANKING SCORE: 40 NMOCED TPH CLOSURE STD: 100 PPM

SOIL IS DARK YELLOW W/ LIGHT BROWN. SILTY SAND. SLIGHTLY MOIST

NO STAIN OR HC ODOR.

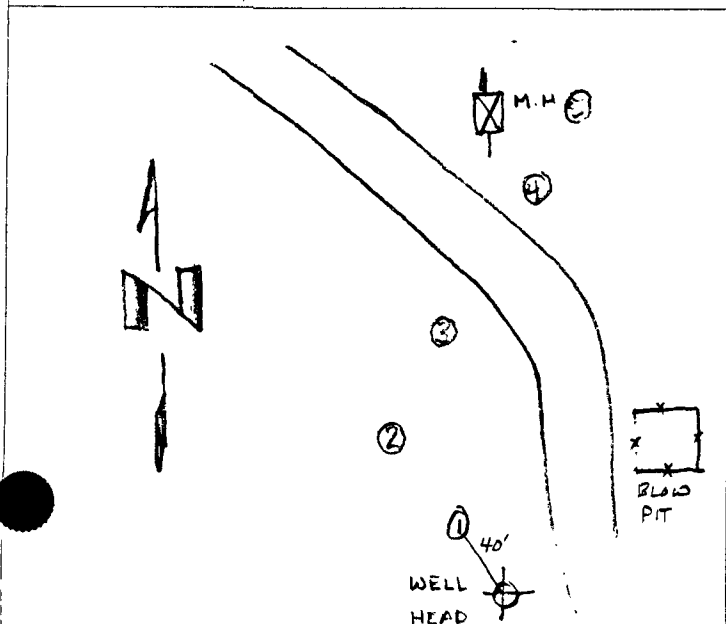
TOOK SPT COMPOSITE OF ENTIRE LOCATION.

NO ACTUAL LANDFARM  
OBSERVED ON-SITE.

## 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	0850	ND

## SCALE



0 FT

## TRAVEL NOTES:

CALLOUT: N/AONSITE: 11 25 97 0850

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

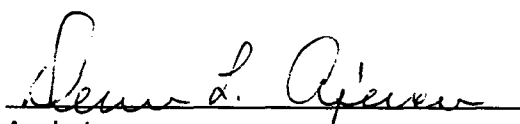
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-03-97
Laboratory Number:	C597	Date Sampled:	11-25-97
Chain of Custody No:	5625	Date Received:	11-26-97
Sample Matrix:	Soil	Date Extracted:	11-26-97
Preservative:	Cool	Date Analyzed:	12-01-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

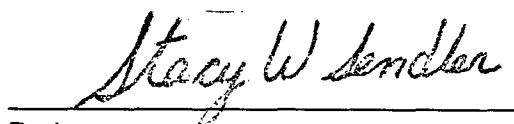
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Abrams GC C #1 Landfarm. 5 Pt. Composite.**

  
Analyst

  
Review

[illegible]

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

### Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-01-PM-TPH QA/QC	Date Reported:	12-03-97
Laboratory Number:	C597	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-01-97
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	10-28-97	6.1686E-04	6.4457E-04	4.49%	0 - 15%
Diesel Range C10 - C28	10-28-97	6.1629E-04	6.4736E-04	5.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

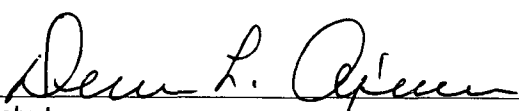
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

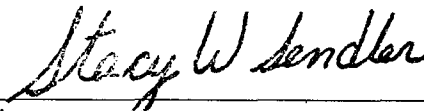
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

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: QA/QC for samples C597 - C604.

  
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)

SW 1/4 NW 1/4, SEC. 25, T29 N, R10 W, N.M.P.M.  
1650' FWL | 1650' FWL

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

ABRAMS GC C # 1

9. API Well No.

3004507880

10. Field and Pool, or Exploratory Area

PICTURED CLIFFS

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.)

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.

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

*7/19/98*

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date