

3R - 102

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

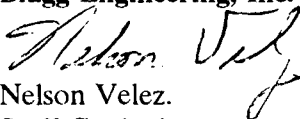
Dear Mr. Olson:

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
District II
Drawer DD, Artesia, NM 88211
District III
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

4288
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

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APPROVED

FEB 19 1999

PIT REMEDIATION AND CLOSURE REPORT

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: ARMENTA GC A #1
Well Name
Location: Unit or Qtr/Qtr Sec D Sec 27 T 29N R 10W County SAN JUAN
Pit Type: Separator Dehydrator Other BLOW
Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 30', width 50', depth 12'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 10 YDS.
Direction from reference: 0 Degrees East North
of
 West South X

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)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 10
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: _____ Date Completed: 10/1/93Remediation Method: Excavation ☒ Approx. cubic yards 600
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____Other STOCKPILEDRemediation Location: Onsite ☒ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No _____ Yes ☒ Depth 11'Final Pit: Sample location see Attached DocumentsClosure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 11'Sample date 9/30/98 Sample time 1015

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 7/19/98

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator



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:	B @ 11'	Date Reported:	10-01-93
Laboratory Number:	6211	Date Sampled:	09-30-93
Sample Matrix:	Water	Date Received:	09-30-93
Preservative:	HgCl and Cool	Date Analyzed:	10-01-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	1.3	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	5.1	0.3
o-Xylene	6.9	0.2

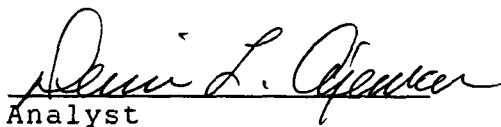
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	103 %
	Bromofluorobenzene	105 %

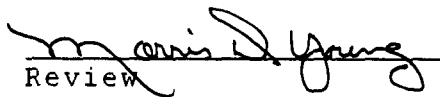
Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Armenta Gas Com A #1 Blow Pit C4288


Analyst


Review

RESULTS TO P.V. 5-9-95 PEO

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80282</u> C.D.C. NO: <u> </u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>ARMENTA GC A WELL #1</u> PITS: <u>—</u>	DATE STARTED: <u>5-9-95</u>
QUAD/UNIT: <u>D</u> SEC: <u>27</u> TWP: <u>29N</u> RNG: <u>10W</u> BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: <u> </u>
QTR/FOOTAGE: <u>NW/NW</u> CONTRACTOR: <u>PAUL + SONS</u>	ENVIRONMENTAL SPECIALIST: <u>PEO</u>

SOIL REMEDIATION:	W: <u>125 x 5 x 10</u> E: <u>100 x 5 x 10</u>
REMEDICATION SYSTEM: <u>STOCKPILE - COMPOSTED</u>	APPROX. CUBIC YARDAGE: <u>600</u>
LAND USE: <u>FARMING</u>	LEASE: <u>PRIVATE</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: ~250' HOME NEAREST SURFACE WATER: ~500' SAN JUAN RIVER

NMOCB RANKING SCORE: 40 NMOCB TPH CLOSURE STD: 100 PPM

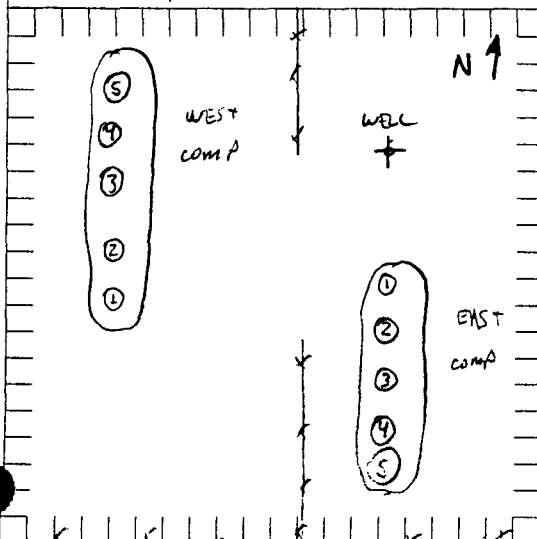
COLLECT 5-POINT COMPOSITE SAMPLES FROM EACH STOCKPILE.

CLOSE PILES

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
WEST COMP	1498	10.0	20.0	—	7	14
EAST COMP	1499	10.0	20.0		4	8

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
WEST COMP	2
EAST COMP	2

LAB SAMPLES

SAMPLE ID	ANALYSIS

TRAVEL NOTES: CALLOUT: 5-8-95 ONSITE: 5-9-95 1020

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	Project #:	
Sample ID:	West Stockpile Composite	Date Analyzed:	5-9-95
Project Location:	Armenta GC A 1	Date Reported:	5-9-95
Laboratory Number:	TPH-1498	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	14	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	2,596	2,588	0

*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: Compost Pile - C4288 / B0282

R. E. O'Neill
Analyst

Nick V. [Signature]
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	Project #:	
Sample ID:	East Stockpile Composite	Date Analyzed:	5-9-95
Project Location:	Armenta GC A 1	Date Reported:	5-9-95
Laboratory Number:	TPH-1499	Sample Matrix:	Soil

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

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	2,596	2,588	0

*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: Compost Pile - C4288 / B0282

L. E. O'Neil
Analyst

Nelson Telf
Review

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

C 4288

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator Amoco Production Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW/4 NW/4, SEC. 27, T29 N, R10 W, N.M.P.M. 400'FWL 1190'FWL	8. Well Name and No. ARMENTA GC A #1
	9. API Well No. 3004507926
	10. Field and Pool, or Exploratory Area
	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	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Pit closure	<input type="checkbox"/> 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 <u>B. Shaw</u>	Title <u>Enviro. Coordinator</u>	Date <u>7/19/98</u>
(This space for Federal or State office use)		

Approved by _____	Title _____	Date _____
Conditions of approval, if any:		