

3R - 112

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

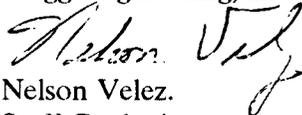
Dear Mr. Olson:

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 |

C4227

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

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

RECEIVED

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 Well Name: GARCIA GC B #1E

Location: Unit or Qtr/Qtr Sec M sec 21 T29N R10W county SAN JUAN

Pit Type: Separator Dehydrator Other Blow

Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 40', width 80', depth 4'
(Attach diagram)

Reference: wellhead , other

Footage from reference: 165'

Direction from reference: 70 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>20</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>20</u>
RANKING SCORE (TOTAL POINTS):				<u>40</u>

C4227 Blow PIT

Date Remediation Started: _____ Date Completed: 9/9/93

Remediation Method: Excavation Approx. cubic yards _____
(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, GROUNDWATER ENCOUNTERED.

Ground Water Encountered: No _____ Yes Depth 4'

Final Pit: Sample location see Attached Documents

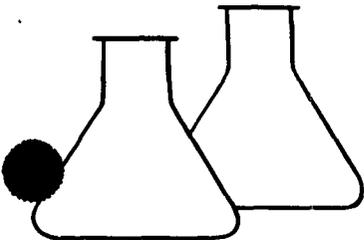
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 4'
Sample date 9/7/93 Sample time 1330

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 9/9/93
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy 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:	Pit Water	Date Reported:	09-09-93
Laboratory Number:	6039	Date Sampled:	09-07-93
Sample Matrix:	Water	Date Received:	09-07-93
Preservative:	HgCl and Cool	Date Analyzed:	09-09-93
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	0.2
p,m-Xylene	2.5	0.3
o-Xylene	0.6	0.3

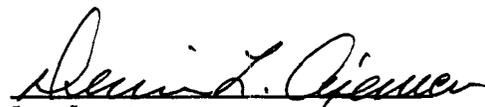
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	91 %
	Bromofluorobenzene	102 %

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: Garcia GC "B" 1E Blow Pit C4222


Analyst


Review

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
 P.O. BOX 87, BLOOMFIELD, NM 87413
 (505) 632-1199

LOCATION NO: 04222

C.O.C. NO: 5641

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: GARCIA GC B WELL #: 1E PITS: BLW

DATE STARTED: 12-4-97

QUAD/UNIT(M) SEC: 21 TWP: 29N RNG: 10W PM: NM CNTY: SS ST: N

DATE FINISHED: _____

QTR./FOOTAGE: SW/4 SW/4 CONTRACTOR: P+S

ENVIRONMENTAL SPECIALIST: NV/EP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 474

LAND USE: RANGE

LIFT DEPTH (ft): 6"-12"

FIELD NOTES & REMARKS:

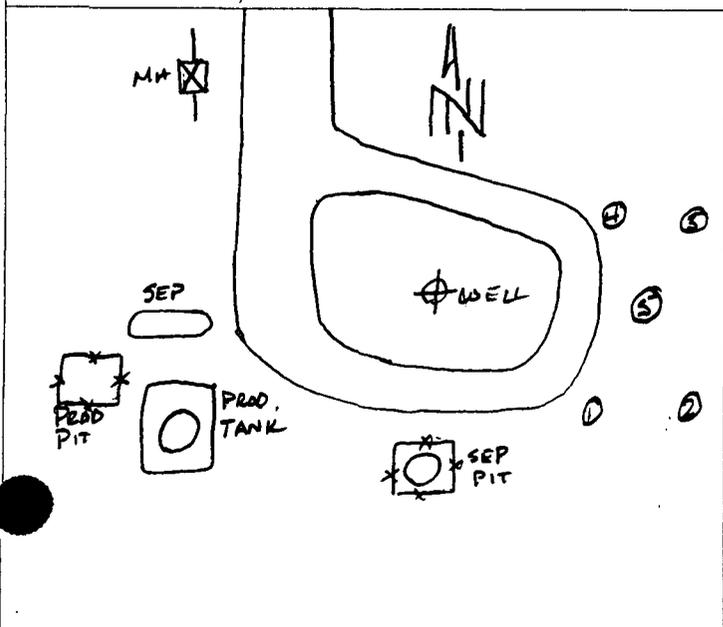
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <200'

NMDCI RANKING SCORE: 40 NMDCI TPH CLOSURE STD: 100 PPM
 SOIL IS DRY DARKYELLOW W/ LIGHT BROWN SILTY SAND.
 NO STAIN OR HC ODOOR.
 TOOK 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



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	8015	0820	ND

SCALE



TRAVEL NOTES:

CALLOUT: N/A

ONSITE: 12-4-97 0820

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

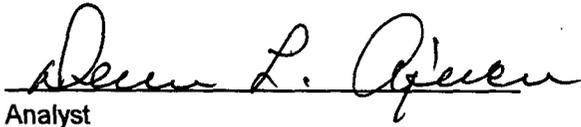
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-09-97
Laboratory Number:	C645	Date Sampled:	12-04-97
Chain of Custody No:	5641	Date Received:	12-05-97
Sample Matrix:	Soil	Date Extracted:	12-08-97
Preservative:	Cool	Date Analyzed:	12-08-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

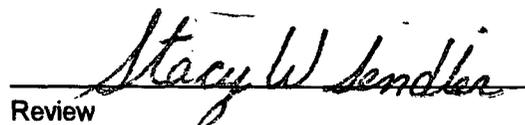
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Garcia GC B #1E Landfarm. 5 Pt. Composite.


Analyst


Review

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:	12-08-TPH QA/QC	Date Reported:	12-09-97
Laboratory Number:	C640	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-08-97
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	2.9715E-04	3.0698E-04	3.31%	0 - 15%
Diesel Range C10 - C28	10-28-97	2.9167E-04	3.0288E-04	3.84%	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	1,384	1,315	5.0%	0 - 30%
Diesel Range C10 - C28	388	369	5.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,384	250	1,629	100%	75 - 125%
Diesel Range C10 - C28	388	250	637	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 C640 and C642 - C648.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name BLUES Amoco			Project Location LANDFARM			ANALYSIS/PARAMETERS					
Sampler: (Signature) Ed Patta			Chain of Custody Tape No. 04034-10			No. of Containers 1			Remarks RESERV. - COOL		
Sample Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
LF-1	12/14/97	0820	CL645								5 PT. COMPOSITE
SAMPLE RECEIVED COOL & INTER DUL											
Relinquished by: (Signature) Ed Patta			Date	Time	Received by: (Signature) Alison Vef			Date	Time		
Relinquished by: (Signature) Alison Vef			12/5/97	0700	Received by: (Signature) Alison Vef			12/5/97	0700		
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time		
Relinquished by: (Signature)			12/5/97	0945	Received by: (Signature) Alison Vef			12/5/97	0945		

REP accis 5638-5647

ENVIROTECH INC.
 5796 U.S. Highway 64-3014
 Farrington, New Mexico 87401
 (505) 632-0615

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/4 SW/4 SEC. 21, T 29 N, R 10W, N.M.P.M.
790' FSL / 590' 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.

GARCIA GC B #1E

9. API Well No.

3004524649

10. Field and Pool, or Exploratory Area

Basin DAKOTA

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 ENCOUNTERED CLOSED 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 7/26/98

(This space for Federal or State office use)

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