

3R - 101

REPORTS

DATE:

1998

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

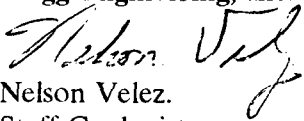
Dear Mr. Olson:

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

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

C4233
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

RECEIVED

Feb 19

APR 22 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: ANDERSON GC A #1
Well Name

Location: Unit or Qtr/Qtr Sec C sec 28 T29N R10W County SAN JUAN

Pit Type: Separator Dehydrator Other BLOW

Land Type: BLM, State, Fee, Other

Pit Location: Pit dimensions: length 50', width 50', depth 5'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 33 YDS.

Direction from reference: 20 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) 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: 9/21/93

Remediation Method: Excavation ☒ Approx. cubic yards 463
(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 .

Ground Water Encountered: No _____ Yes ☒ Depth 3'

Final Pit: Sample location see Attached Documents

Closure Sampling: _____

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample depth 3'

Sample date 9/16/98 Sample time 1030

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. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

ENVIROTECH Inc.

C4233

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

COC 3013

FIELD REPORT: CLOSURE VERIFICATION

JOB NO. 92140

PAGE 10 of 1

LOCATION: LEASE ANDERSON, GENE W. WELL NO. 2 QD: 144 NW 1/4 (2)
SEC. 28 TWP. 29N RNG: 10W BM: N44PM CNTY: ST ST. NM PIT. BLOWF
CONTRACTOR: PAUL VEJSEJ
EQUIPMENT USED: TRAC-500

DATE STARTED 9-16-93
DATE FINISHED 9-16-93

ENVIRONMENTAL
SPECIALIST: Rm.

SOIL REMEDIATION: QUANTITY: 50' x 50' x > 5' deep

DISPOSAL FACILITY: ON-SITE

LAND USE: PRIVATE LEASE, DEVELOPMENT

SURFACE CONDITIONS: PET FILLETS WITH GROUNDWATER. NO VISIBLE CONTAMINATION, EXCEPT SE. CORNER.

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 33 YARDS N20°E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 3'

NEAREST WATER SOURCE: >1000'

NEAREST SURFACE WATER: 400' (STREAM)

No VISIBLE CONTAMINATION ON GROUNDWATER OR SIDEWALLS.
- except minor traces of filter product and south east corner.
LAC SAMPLE PET WATER TAKEN FOR RTX ANALYSIS.

FIELD 418.1 CALCULATIONS

SAMPLE ID.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	C-LO. ppm

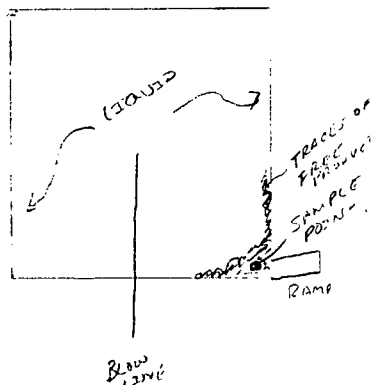
SCALE



0 10 20

FEET

PIT PERIMETER



OVM RESULTS

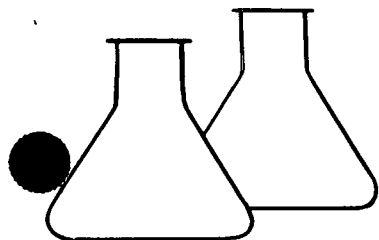
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PIT PROFILE

0.3' SM/ML. PALE YELLOWISH BROWN
SILTY SAND PLUS MINOR
COBBLES. WET, FINE, SL
COHESIVE, NO APPARENT
H₂ STAINING.

TRAVEL NOTES C-LLCUT:

ON-SITE



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:	09-21-93
Laboratory Number:	6113	Date Sampled:	09-16-93
Sample Matrix:	Water	Date Received:	09-16-93
Preservative:	HgCl and Cool	Date Analyzed:	09-20-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

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

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	104 %

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: Anderson GC "A" No. 1 Blow Pit C4233

Kevin L. Jensen
Analyst

Marvin D. Young
Review

Client/Project Name		Project Location		ANALYSIS/PARAMETERS		C4233		ANALYSIS/PARAMETERS	
Sample No./ Identification		Sample Date		Sample Time		Lab Number		Sample Matrix	
P.R. WATER		9-16-93		1030		6113		WATER	
Sampler: (Signature)		Chain of Custody Tape No.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date	
Robert M. Young		9-16-93		1200		C. Chokanlang		9-16-93 1205	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date	

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 04233C.O.C. NO: 5642

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: ANDERSON GC A WELL #: 1 PITS: BLOWDATE STARTED: 12-4-97QUAD/UNIT: (C) SEC: 28 TWP: 29N RNG: 10W PM: NM CNTY: SZ ST: NM

DATE FINISHED: _____

QTP/FOOTAGE: NE/4 NW/4CONTRACTOR: P & SENVIRONMENTAL
SPECIALIST: NV/ET

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 463LAND USE: RANGELIFT DEPTH (ft): NA

FIELD NOTES & REMARKS:

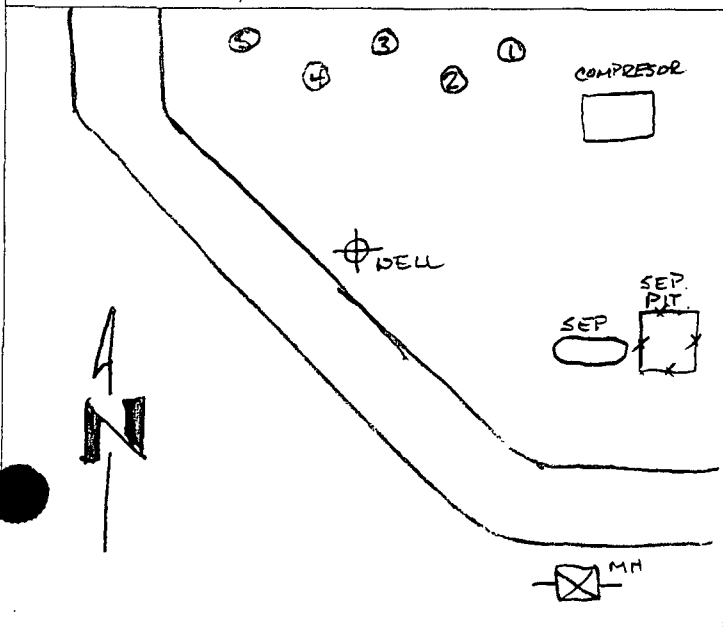
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <1000'NMOCB RANKING SCORE: 30 NMOCB TPH CLOSURE STD: 100 PPMSOIL IS A DRY DARK YELLOW W/LIGHT BROWN SILTY SAND
NO STAIN OR HC ODOR

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)
LF-1	0.0

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	8015	0920	ND

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: NAONSITE: 12-4-970920

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

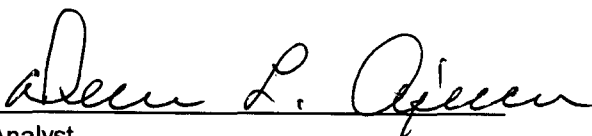
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	12-09-97
Laboratory Number:	C646	Date Sampled:	12-04-97
Chain of Custody No:	5642	Date Received:	12-05-97
Sample Matrix:	Soil	Date Extracted:	12-08-97
Preservative:	Cool	Date Analyzed:	12-08-97
Condition:	Cool and Intact	Analysis 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: **Anderson GC A #1 Landfarm. 5 Pt. Composite.**


Analyst


Review

(505) 632-0615

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

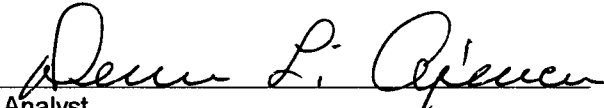
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1,384	1,315	5.0%	0 - 30%
Diesel Range C10 - C28	388	369	5.0%	0 - 30%

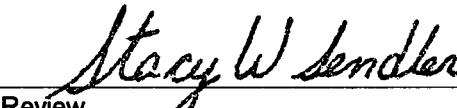
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,384	250	1,629	100%	75 - 125%
Diesel Range C10 - C28	388	250	637	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast SW-846, USEPA, December 1996.

Comments: QA/QC for samples C640 and C642 - C648.


Analyst


Review

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 <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) NE/4 NW/4, SEC. 28, T29 N, R10W, N.M.P.M. 670' FWL / 1450' FWL	8. Well Name and No. ANDERSON GC A #1
	9. API Well No. 3004524954
	10. Field and Pool, or Exploratory Area CHACRA / 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	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input checked="" type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Pit closure
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<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

B. Shaw

Title

Enviro. Coordinator

Date

7/19/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any: