3R -

GENERAL CORRESPONDENCE

YEAR(S): 200-1997

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

April 19, 2000

Mr. William C. Olson - Hydrologist State of New Mexico Oil Conservation Division 2040 South Pacheco State Land Office Building Santa Fe, NM 87505

RECEIVED

APR 27 2000

RE: 1999 ANNUAL GROUNDWATER REPORTS SAN JUAN COUNTY, NEW MEXICO

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Dear Mr. Olson:

Blagg Engineering, Inc., on behalf of Cross Timbers Oil Company, respectfully submits the attached 1999 annual groundwater reports in which quarterly and/or annual sampling is currently being undertaken. This reporting adheres to the NMOCD's previously approved groundwater management plan.

A total of seven (7) well sites, listed on the following page, are associated with this correspondence. All work performed on the these well sites have been incorporated into individual packets. Pit and/or landfarm closure documentation was included in the previous submitted reports.

The summary, conclusions, and/or recommendations made within these reports are based on information made available from the enclosed material. Any site specific inquiries should be examined within the individual packets.

If you have questions, please call and contact either myself or Jeffrey C. Blagg. Thank you for your cooperation and assistance.

Sincerely,

BLAGG ENGINEERING, INC.

Nelson Velez

Staff Geologist

Reviewed by:

Jeffrey C. Blagg, P.E

President

Attachments: Individual Well site packets

Denny Foust, Environmental Geologist, NMOCD District III Office, Aztec, NM

Nina Hutton, Environmental & Safety Manager, Cross Timbers Oil Company, Ft. Worth, TX

NV/nv

CC:

Cross Timbers Oil Co. 1999 Annual Groundwater Reports

1.	Abrams J # 1	Unit I, Sec. 29, T29N, R10W
2 .	Bergin GC # 1E	Unit F, Sec. 21, T29N, R11W
3.	Bruington GC # 1	Unit E, Sec. 14, T29N, R11W
4.	Rowland GC # 1	Unit P, Sec. 25, T30N, R12W
5 .	State GC BS # 1	Unit F, Sec. 21, T29N, R11W
6.	Sullivan GC D # 1	Unit B, Sec. 26, T29N, R11W
7 .	Valdez A # 1E	Unit G, Sec. 24, T29N, R11W

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



FEB 1 5 1999

February 11, 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. Groundwater Monitoring (Amoco) 1996-1998 Reports

San Juan County, New Mexico

Dear Mr. Olson:

The attached reports on groundwater monitoring at eight (8) 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) Brief description of all activities which occurred during the investigation, sampling procedures, and/or interpretations, conclusions, and possible recommendations.

- 2) A summary spreadsheet contains laboratory BTEX, general chemistry (if applicable), and any other pertinent information. The latest quarter/annual sampling results are shown along with all previous sampling conducted at the specified locations for comparison purposes.
- 3) Site and groundwater gradient maps, boring logs, and monitor well detail schematics.
- 4) Laboratory reports for each quarter/annual sampling event and a field summary spreadsheet revealing well elevations, water elevations, depth to water information, etc.
- 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: Quarter/Annual Monitor Well Sampling Reports

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

NJV/njv FEB99-WO.COV

Cross Timbers Oil Company Groundwater Monitoring Reports 1996-1998 Well Sites being submitted, February 1999

1)	Abrams J # 1	Unit I, Sec. 29, T29N, R10W
2)	Bergin GC # 1E	Unit F, Sec. 21, T29N, R11W
3)	Bruington GC # 1	Unit E, Sec. 14, T29N, R11W
4)	Rowland GC # 1	Unit P, Sec. 25, T30N, R12W
5)	State GC BS # 1	Unit K, Sec. 23, T29N, R11W
6)	Sullivan GC D # 1	Unit B, Sec. 26, T29N, R11W
7)	Valdez A # 1E	Unit G, Sec. 24, T29N, R11W

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

March 13, 1997

Mr. William Olson, Hydrogeologist New Mexico Oil Conservation Division 2040 So. Pacheco Santa Fe, New Mexico 87505

RE: Remedial Action

Abrams J1 Well site

Legal Description: Unit I, Sec. 29, T29N, R10W

San Juan County, New Mexico

Dear Mr. Olson:

On behalf of Amoco Production Company, Blagg Engineering, Inc. (BEI) proposes remedial action at the referenced well location. Correspondence transmitted to your office dated June 7, 1996 (attached) outlined physical observations of groundwater indicating contamination in excess of New Mexico Water Quality Control Commission regulatory standards for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX). Further investigations have revealed free product in three (3) monitor wells at the site (see attached site map and lab results summary).

As of this date installation of an air sparge remediation system has been initiated for future site reclamation (see attached air sparge system schematic). In order to achieve groundwater clean up standards it is necessary that the air sparge remediation system be installed. The proposed system is designed to contain potential down gradient migration of contamination.

NMOCD's concurrence with reclamation of contamination is requested. If you have any questions concerning this transmittal, please do not hesitate to contact Blagg Engineering at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted, Blagg Engineering, Inc.

Nelson J. Velez

Staff Geologist

cc:

Denny Foust, Deputy Oil & Gas Inspector, NMOCD, Aztec, NM

Buddy Shaw, Environmental Coordinator, Amoco Production Company, Farmington, NM

Attachments:

June 7, 1996 letter, Site Map, Lab Results Summary, & Air Sparge System Schematic.

NV/nv

AB-J1-WO.LTR

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

June 7, 1996

Mr. Roger Anderson Chief of Environmental Bureau State of New Mexico Oil Conservation Division 2040 So. Pacheco Santa Fe, New Mexico 87505

RE: Groundwater Impact

Amoco Production Company:

Abrams J1 Well site

Legal Description: Unit I, Sec. 29, T29N, R10W

San Juan County, New Mexico

Dear Mr. Anderson:

Physical observation of groundwater after monitor well construction was completed at the above referenced well site indicates contamination to be above the State of New Mexico Water Quality Control Commission's regulatory standards for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX). Further assessment will be conducted and a remediation plan drafted after more data is collected.

If you have any questions concerning this information, please do not hesitate to contact us at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted,

Blagg Engineering, Inc.

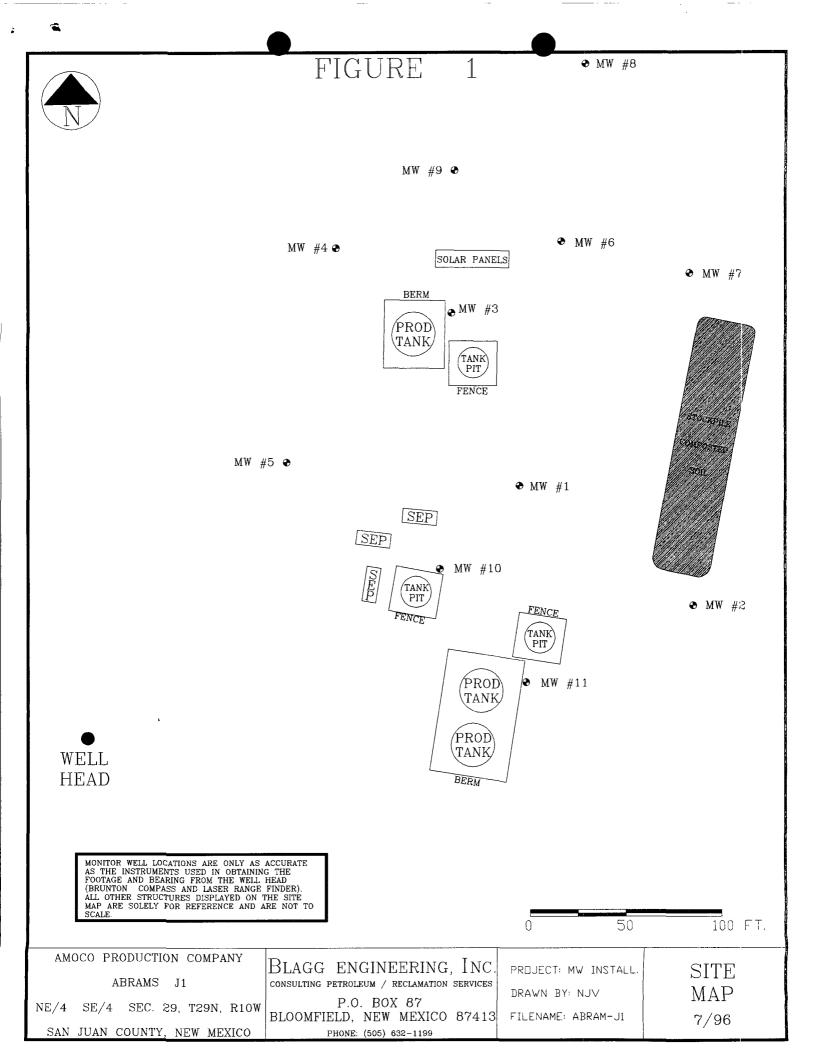
Jeffrey C. Blagg, P.E.

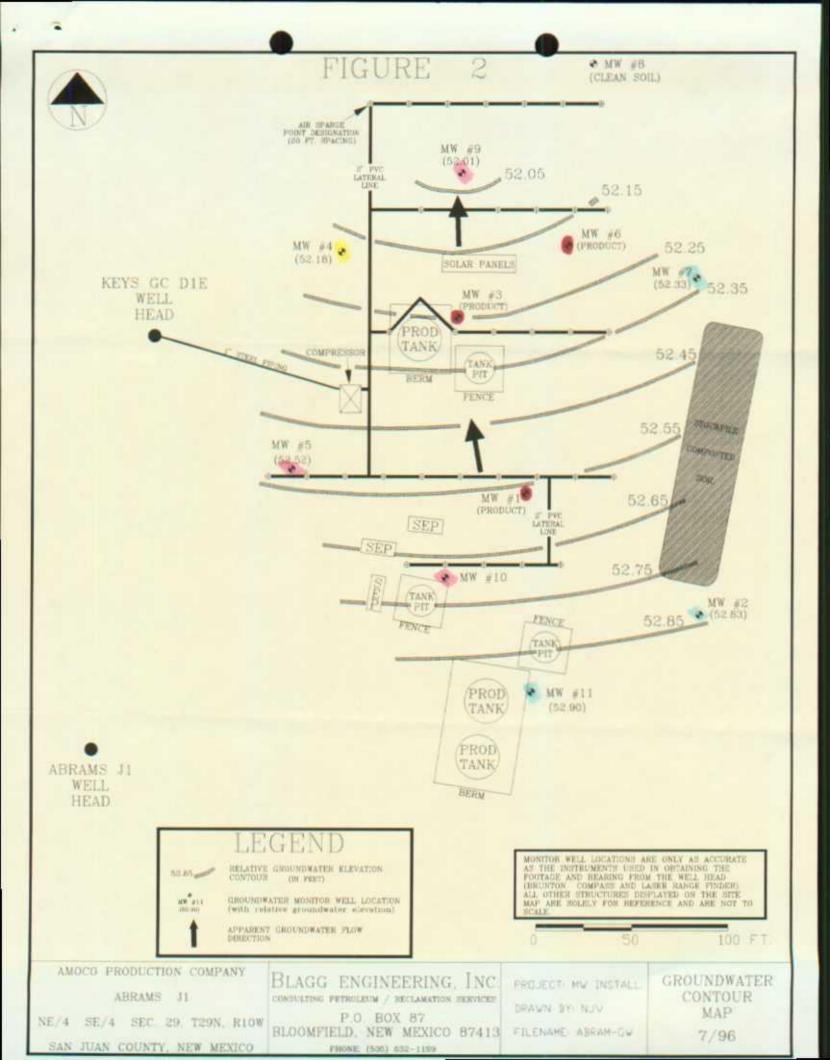
President

Denny Foust, Deputy Oil & Gas Inspector, NMOCD, Aztec, NM

Buddy Shaw, Environmental Coordinator, Amoco Production Company, Farmington, NM

cc:







SUBMITTED BY BLAGG ENGINEERING, INC.

ABRAMS J # 1 — SEPARATOR PIT UNIT I, SEC. 29, T29N, R10W

REVISED DATE: MARCH 9, 1997

FILENAME: (AB-3Q-96.WK3) NJV

	(, , , , , ,	1.0.								
							Γ	BTEX EPA METHOD 8020 (PPB)			
SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	рН	PRODUCT			Ethyl	Total
DATE	WELL No:	(ft)	(ft)	mg/L	umhos	•	(in)	Benzene	Toluene	Benzene	Xylene
		<u> </u>					····				
11-Jun-96	MW #1	45.17	45.73				7.00				
10-Feb-97							Ž1.60				
11-Jun-96	MW #2	42.30	50.00	435	600	7.5		ND	ND	ND	ND
11-Jun-96	MW #3	44.58	50.00				4.00				
10-Feb-97							13.80				
16-Aug-96	MW #4	43.75	50.00					ND	0.56	ND	ND
16-Aug-96	MW #5	45.28	50.00					553	1300	74.3	1077
30-Jun-96	MW #6	_	50.00				8.40				
10-Feb-97							17.40				
16-Aug-96		43.32	50.00					ND	ND	ND	ND
16-Aug-96		44.59	50.00					74.8	ND	ND	ND
16-Aug-96		44.71	50.00					1600	6280	511	6190
16-Aug-96	MW #11	45.76	50.00					, ND	ND	ND	ND

MEMORANDUM OF COMMUNICATION

TRANSMIT TO:

B.D. Shaw, Amoco Production Company

Denny Foust, NMOCD

DATE:

Feb 12, 1997

TIME:

4:15 - 5:05 PM

OIL COM, DIV.

BUTL 3

PARTIES:

Jeff Blagg, Nelson Velez (Blagg Engineering)

Paul Velasquez (Paul & Sons Construction)

Neal Doyle, Renee Doyle (Land Owners) - 632-2128

LOCATION:

Amoco Production Company

Abrams J1 Well Site

(I) Sec 29 - T29N - R10W, San Juan County, NM (Sullivan Road)

LOG OF COMMUNICATION:

Blagg Engineering and Paul & Sons Construction met with the land owners at the Abrams J1 well location to discuss proposed remediation of hydrocarbon impacts to soil and groundwater. Blagg Engineering outlined previous subsurface investigations to determine the extent of impacts. Site diagrams were presented to the landowners for clarification. A proposed remediation plan to include construction of an air sparge system was outlined. It was discussed that due to the depth of groundwater at the site, in excess of 40 feet below ground surface, it would not be feasible to excavate contaminated media. Therefore, an air sparge system was determined to be the best available technology to remediate the site.

The landowners presented their plan to construct a home near the well site, northeast of the area of contamination impacts. They were concerned with gas vapors from the remediation system impacting their home and crops. Additionally, they presented a plan to construct a water well approximately 300 yards north of the well pad. They had concerns with water contamination of this well.

Blagg Engineering stated that if the land owners constructed a home near the area to be remediated, one or more monitor wells would be installed between the home and the remediation system to monitor groundwater impacts to insure that no movement toward the home was occurring. Additionally, it was stated that at other Amoco remediation sites near residences, sensitive explosive gas monitors with alarms were installed in the homes as a precautionary measure. Additionally, we have had no indication of gas migration to any of these homes.

The landowners stated that they had several disagreements with Amoco over the past years with respect to operations at the well site. They stated that they were not prepared to allow Amoco to install the remediation system, and that Blagg Engineering and Paul and Sons were not to begin installation until after the landowners had contacted their attorneys. Blagg Engineering and Paul and Sons agreed to transmit this information to Amoco.

J. C. Blagg



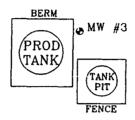
MW #4 @

● MW #6

SOLAR PANELS

→ MW #7

● MW #2



MW #5 �

◆ MW #1

SEP

SEP

MW #10

PIT

TANK

TANK PIT PROD MW #11

FENCE

BERM

PROD TANK

WELL **HEAD**

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

100 FT. 50

AMOCO PRODUCTION COMPANY

ABRAMS J1

NE/4 SE/4 SEC. 29, T29N, R10W SAN JUAN COUNTY, NEW MEXICO

Blagg engineering, Inc CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199

PROJECT: MW INSTALL DRAWN BY: NJV

FILENAME: ABRAM-J1

SITE MAP 7/96

