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REPORTS

DATE: April 10, 1994

BLAGG ENGINEERING, INC.

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

April 10, 1996



Mr. William C. Olson, Hydrologist New Mexico Oil Conservation Division Environmental Bureau P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Re: Quarterly Monitoring Report Amoco Production Company Gallegos Canyon Unit Com F #162, Sec, 36-T29N-R12W San Juan County, New Mexico

Dear Mr. Olson:

Amoco Production Company has retained Blagg Engineering, Inc. to conduct environmental monitoring of groundwater reclamation at Gallegos Canyon Unit Com F Well No. 162 (Figure 1). Following are quarterly monitoring results as required by the New Mexico Oil Conservation Division (NMOCD), pursuant to reclamation plan approval by the NMOCD with letter dated January 27, 1994.

The air injection/vapor extraction system at the site has remained in continuous operation. This system is designed to treat soils and groundwater that could not be accessed by excavation or other methods. This system, in conjunction with enhanced microbial placement that occurred in the fourth quarter of 1995, is effectively remediating hydrocarbon contamination at the site.

Summary Laboratory Analytical Results

Groundwater monitor wells at the site were sampled on March 7, 1996. A summary of laboratory analytical results for this and previous sample events is included in Table 1 on the following page and laboratory data reports are included in Appendix B. Analytical data indicates that groundwater impacts in excess of NMWQCC standards has not migrated down gradient to monitor wells MW-9 or MW-10.

Monitor well MW-7 previously contained free product. Quarterly monitoring in December 1995 and March 1996 indicates this product has dissipated and water quality test data shows stable to declining values for BTEX constituents. Water quality in monitor well MW-4, a down gradient well, has shown declining values of BTEX over time. These trends will be further evaluated during quarterly monitoring periods.

TABLE 1

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Summary Laboratory Analytical Results Amoco Production Company GCU Com "F" No. 162

Ag mg/L	ND NA NA NA	UN NA NA NA	DN A A A A A A A A A A A A A A A A A A A	UN NA NA NA NA NA
Se mg/L	0.0011 NA NA NA	0.0015 NA NA NA	0.0037 NA NA NA NA NA	0.0007 NA NA NA NA
Hg mg/L	DN NA NA NA NA NA	ND NA NA NA	D A A A A A A A A A A A A A A A A A A A	D A A A A A A A A A A A A A A A A A A A
Pb mg/L	0.0034 NA NA NA	0.0373 NA NA NA	ND NA NA NA NA	ND NA NA NA NA
Cr mg/L	UN AN AN AN	ND NA NA NA	N N N N N N N N N N N N N N N N N N N	UN NA NA NA NA NA
Cd mg/L	0.0001 NA NA NA	0.0016 NA NA NA	0.0034 NA NA NA NA NA	0.0002 NA NA NA NA
Ba mg/L	3.27 NA NA NA	5.09 NA NA NA	3.16 Na Na Na Na Na	2.68 NA NA NA NA
As mg/L	UN AN NA NA	0.0022 NA NA NA	0.0064 NA NA NA NA NA	UN A A A A A A A A A A A A A A A A A A A
Anions meq/L	15.49 NA NA NA	18.50 NA NA NA	33.50 NA NA NA NA NA	12.34 NA NA NA NA
Cations meq/L	15.80 NA NA NA	17.74 NA NA NA	34.59 NA NA NA NA NA	13.39 NA NA NA NA
Benzo(a) pyrene ug/L	UN AN NA NA	ND NA NA NA	UN NA NA NA NA NA	UN NA NA A NA A NA A
Naptha- lene ug/L	UN NA NA NA	ND NA NA NA	UN A N A N A N A N A N A N A N A N A N A	UN NA UNA NA N
Total Xylenes ug/L	1.9 ND 10.8 223.1	469 113 352 1575 281.6 79.3	22 23 54 ND ND ND ND ND ND ND	140 98 98 109 8.2 12.6 15.33 175.3 51.3
Ethyl Benzene ug/L	ND ND 0.9 12.7	40.2 34.7 59.4 241.3 29.5 13.0	đư 24.5 2.1-0 đư	5.3 2.6 0.2 ND ND ND ND ND ND S.1 3.1
Toluene ug/L	0.7 ND 3.4 101.1	3.1 2.2 7.6 2.9	1.0 2.7 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.2 1.9 3.7 44.9 ND 0.86 0.86 0.86 4.5
Benzene ug/L	476 13.6 20.9 241.5	240 273 355 1694 143	dN 2.1 2.2 0.8 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15.9 15.3 15.3 15.3 15.3 15.4 2.38 2.38 2.38 31.0 31.0
Sample ID	MW-3 2/25/94 6/17/94 9/27/94 12/7/94	MW-4 2/25/94 6/17/94 9/27/94 12/1/94 12/11/95 3/7/96	MW-5 2/25/94 6(17/94 9/27/94 12/1/94 3/8/95 6(12/95 9/27/95 12/11/95 3/7/96	MW-6 2/25/94 6/17/94 9/27/94 1/2/7/94 3/8/95 6/12/95 9/27/95 1/2/11/95 3/7/96

	UD NA NA NA NA	UN AN AN AN	0.05
	0.0012 NA NA NA NA	0.0018 NA NA NA NA NA	0.05
	ND NA NA NA	UN NA NA NA NA NA	0.002
	ND NA NA NA NA	0.0012 NA NA NA NA	0.05
	ND NA NA NA NA	ND NA NA NA	0.05
	0.0011 NA NA NA NA	0.0140 ND NA NA NA	0.01
	LLT NA NA NA NA NA	2.64 NA NA NA NA	1.0
	UN NA NA NA NA NA	UN NA NA NA NA NA	0.1
	13.47 NA NA NA NA NA	15.45 NA NA NA NA	
	13.73 NA NA NA NA NA	15.04 NA NA NA	
	DN NA NA NA NA NA	UN A A A A A A A A A A A A A A A A A A A	0.7
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522 421		0.7 0.3 0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	750
85.7 95.0	<u> </u>	9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10
MW-7 12/11/95 3/7/96	MW-9 2125/94 6(171/94 9(271/94 12/1/94 3/8/95 6/12/95 9/27/95 12/4/95 3/7/96	MW-10 2/25/94 6/17/94 9/27/94 1/27/94 3/8/95 6/12/95 9/27/95 1/2/4/95 3/7/95	WQCC LIMITS

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Water Table Elevations

Depth to groundwater measurements in monitor wells was measured during the March 7, 1996 sample event. Table 2 includes water depth measurements, surface casing relative elevations and groundwater elevations. A contour map of relative water table elevations for this sample event is included as Figure 2.

TABLE 2

Relative Groundwater Elevations Amoco Production Company GCU Com "F" No. 162 March 7, 1996

Monitor Well	Total Depth (feet)	Depth to Fluid (feet)	Relative Casing Elevation (feet)	Relative Groundwater Elevation (feet)
MW-1	Well	abandoned	during	excavation
MW-2	23.1	na	100.16	na
MW-3	Well	abandoned	during	excavation
MW-4	24.1	21.69	98.87	77.18
MW-5	25.1	22.73	102.50	79.77
MW-6	26.8	21.07	98.68	77.61
MW-7	25.3	20.34	97.39	77.05
MW-8	Well	abandoned	during	excavation
MW-9	19.6	14.82	88.50	73.68
MW-10	16.3	14.11	90.25	76.14

na = water table elevation not measured

Blagg Engineering, Inc. Consulting Engineers

Current and Proposed Activities

Contaminated soil and groundwater at the GCU 162 site that could not be accessed by excavation is presently being remediated with the active air injection/vapor extraction system and through enhanced biodegradation. Operation of the air injection/vapor extraction system is on-going.

The effectiveness of proprietary microbe placement in and around hydrocarbon contaminated subsurface soils is presently being evaluated. Analytical results from future soil and groundwater sample events will be submitted in quarterly reports transmitted to NMOCD.

<u>Summary</u>

This report has been prepared by Blagg Engineering, Inc. on behalf of Amoco Production Company. Questions or comments may be directed to Jeff Blagg at (505)632-1199.

Respectfully submitted: *Blagg Engineering, Inc.*

Ly C. Slagg

Jeffrey C. Blagg, P.E. President

cc: Mr. Denny Foust, NMOCD Mr. Buddy Shaw, Amoco Production Company

Blagg Engineering, Inc. Consulting Engineers Amoco GCU Com F #162 Sec 36-T29N-R12W Quarterly Monitoring Report







March 13, 1996

Nelson Velez Blagg Engineering, Inc. PO Box 87 Bloomfield, NM 87413

Dear Nelson:

Enclosed are the results for the analysis of the aqueous samples received March 8, 1996. The samples were from the GCU Com F 162 site. Analysis for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) was performed on the samples, as per the accompanying chain of custody form.

BTEX analysis was performed on the samples according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the samples, as reported.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely.

Dr. Denise A. Bohemier Lab Director

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	ORGANIC ANALYSES	s Mater	I ANALYSES	METALS	COMMENTS	
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395						
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MW #10 3/1/4 (425					<i>i</i> <i>i</i>	
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Project Information Sample Receipt	Sampled By: R	telinquished By:	Relinquished By:			
Proj. #: No. Containers:	Signature Date: Sig	ignature Date:	Signature	Date:		
Proj. Name: Jun F 162 Custody Seals: Y / N / NA	1/10/2000 UL 3/1/96	7/11 ron UL 3/0/	21		Please Fill Out Thorough	2
P. Q. No: Received Intact:	Company: Time: Co	ompany: C Time:	Company:	Time:		
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	Signature Date: Sig	ignature Date:	Signature	Date: R/-)	White/Yellow: Analytic	
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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

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ENVIRONMENTAL LABORATOR

GCU Com F 162 MW - 4 2857 Water Cool, HgCl₂ Intact

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	143	2.00
Toluene	3.92	2.00
Ethylbenzene	13.0	2.00
m,p-Xylenes	62.2	4.00
o-Xylene	17.1	2.00

Total BTEX 239

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	<u>Acceptance Limits</u>
	Trifluorotoluene	105	88 - 110%
Reference:	Method 602.2, Purge Oct. 1984.	eable Aromatics; Federal Regi	ster, Vol. 49, No. 209,

Comments:

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Blagg Engineering, Inc.

Project ID:	GCU Com F 162	I
Sample ID:	MW - 5	l
Lab ID:	2858	l
Sample Matrix:	Water	l
Preservative:	Cool, HgCl₂	
Condition:	Intact	

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

Total BTEX ND

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	106	88 - 110%
Defense		Maria - Maria - Maria - Dania	

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

NALYTI

ENVIRONMENTAL LABORATORY

GCU Com F 162 MW - 6 2859 Water Cool, HgCl₂ Intact

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	42.1	0.50
Toluene	4.53	0.50
Ethylbenzene	3.09	0.50
m,p-Xylenes	38.6	1.00
o-Xylene	12.7	0.50

Total BTEX 101

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	<u>Acceptance Limits</u>
	Trifluorotoluene	107	88 - 110%
Reference:	Method 602.2, Purgeabl Oct. 1984.	e Aromatics; Federal Reg	ister, Vol. 49, No. 209,

Comments:

hice arman Analyst

Denis/ho

Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

ENVIRONMENTAL LABORATOR

GCU Com F 162 MW -7 2860 Water Cool, HgCl₂ Intact

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	95.0	10.0
Toluene	421	10.0
Ethylbenzene	226	10.0
m,p-Xylenes	3,080	100
o-Xylene	995	10.0

Total BTEX 4,820

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	Acceptance Limits
	Trifluorotoluene	105	88 - 110%
Reference:	Method 602.2, Purg Oct. 1984.	eable Aromatics; Federal Regi	ster, Vol. 49, No. 209,

Comments:

tanica/aina Analyst

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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

NAL

ENVIRONMENTAL LABORATORY

GCU Com F 162 MW - 9 2861 Water Cool, HgCl₂ Intact

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

Total BTEX ND

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	106	88 - 110%
Reference:	Method 602.2, Purge Oct. 1984.	eable Aromatics; Federal Regi	ster, Vol. 49, No. 209,

Comments:

anica Jaman Analyst

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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

NALYTI

ENVIRONMENTAL LABORATOR

GCU Com F 162 MW - 10 2862 Water Cool, HgCl₂ Intact

Report Date:	03/13/96
Date Sampled:	03/07/96
Date Received:	03/08/96
Date Analyzed:	03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

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ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	<u>Acceptance Limits</u>
	Trifluorotoluene	103	88 - 110%
Reference:	Method 602.2, Purgeab Oct. 1984.	le Aromatics; Federal Reg	ister, Vol. 49, No. 209,

Comments:

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Duie Mot

PURGEABLE AROMATICS Quality Control Report

Method Blank Analysis

Sample Matrix: Water Report Date: 03/13/96 Lab ID: MB35136 Date Analyzed: 03/12/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	106	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

anico ainan Analyst

Deniefte

Purgeable Aromatics

Duplicate Analysis

Lab ID: Sample Matrix: Preservative: Condition: 2859Dup Water Cool, HgCl2 Intact

 Report Date:
 03/13/96

 Date Sampled:
 03/07/96

 Date Received:
 03/08/96

 Date Analyzed:
 03/12/96

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	42.1	43.5	33.9 - 51.7
Toluene	4.53	5.35	3.09 - 6.79
Ethylbenzene	3.09	4.01	1.42 - 5.67
m,p-Xylenes	38.6	44.7	NE
o-Xylene	12.7	14.9	NE

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Duplicate acceptance range not established by the EPA.

	Surrogate	Percent Recovery	Acceptance Limits
Quality Control:	Trifluorotoluene	105	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

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Purgeable Aromatics

Matrix Spike Analysis

2863Spk	Report Date:	03/13/96
Water	Date Sampled:	03/08/96
Cool, HgCl2	Date Received:	03/08/96
Intact	Date Analyzed:	03/12/96
	2863Spk Water Cool, HgCl2 Intact	2863SpkReport Date:WaterDate Sampled:Cool, HgCl2Date Received:IntactDate Analyzed:

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	ND	10.7	107%	39 -150
Toluene	10	0.28	10.5	102%	46 - 148
Ethylbenzene	10	ND	9.10	91%	32 - 160
m,p-Xylenes	20	ND	20.4	101%	NE
o-Xylene	10	ND	10.1	101%	NE

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Spike acceptance range not established by the EPA.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	105	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

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NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87505

October 24, 1995

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-434

Mr. B.D. Shaw Amoco Production Company 200 Amoco Court Farmington, New Mexico 87401

RE: AMOCO GALLEGOS CANYON UNIT F#162 WELL SITE SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco Production Company's (Amoco) October 17, 1995 "PROPOSED BIO-ENHANCEMENT TREATMENT PROCEDURE, GALLEGOS CANYON UNIT (K) #162, SEC. 36-T29N-12W, SAN JUAN COUNTY, NEW MEXICO" which was submitted on behalf of Amoco by their consultant Blagg Engineering, Inc. This document contains Amoco's plan for injection of a bio-enhancement solution for remediation of contaminated soils in areas which were inaccessible during previous site excavation actions.

The above referenced proposed bio-enhancement procedure is approved with the following conditions:

- 1. Amoco will make observations of the surface soils overlying the proposed injection areas for evidence of hydrocompaction or settling of the soil profile. If hydrocompaction or settling is observed, Amoco will cease injection, notify the OCD of the occurrence and reevaluate the use of this technique.
- 2. Amoco will include a discussion of all ongoing bio-enhancement activities in each quarterly report on site remedial actions. The discussions will include information on the applications rates and locations of the applications.

Mr. B.D. Shaw October 24, 1995 Page 2

Please be advised that approval of this plan does not relieve Amoco of liability should their operation result in additional pollution of surface or ground waters or the environment or should the plan fail to remediate contamination related to Amoco's activities. In addition, OCD approval does not relieve Amoco of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please contact me at (505) 827-7154.

. . . .

Sincerely,

William C. Olson Hydrogeologist Environmental Bureau

xc: Denny Foust, OCD Aztec District Office