3R - 27

REPORTS

DATE:

1/26/2000

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

January 26, 2000

Mr. Bill Olson
State of New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

RE: JAQUEZ GC C #1/E #1 - SOIL AND GROUNDWATER REMEDIATION REPORT
UNIT F, SEC. 6, T29N, R9W, SAN JUAN CO., N.M.

Dear Mr. Olson:

Blagg Engineering, Inc., on behalf of BP Amoco , respectfully submits the attached soil and groundwater report for the Jaquez GC C #1/E #1 well site which was required by the New Mexico Oil Conservation Division (NMOCD) with letter dated December 21, 1999 (attached at the end of the report).

Closure activities that have transpired at the site include the following:

Site Assessment Dates:	**March, 1993**
Pit closure Date:	**December 8, 1993**
Monitor Well Installation Dates:	**March 1 & 2, 1994**
Monitor Well Sampling Dates:	**March '94 - June '95**

All soil descriptions can be found within the Site Assessment Data section of this report. Groundwater samples were collected from site monitor wells following USEPA: SW-846 protocol. The samples were collected using new disposable bailers and placed in new laboratory supplied 40 ml glass vials with teflon septa caps. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per USEPA Method 8020. The samples were preserved cool and with mercuric chloride preservative, then hand delivered to a qualified laboratory for testing. Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

Based on the enclosed documentation, the groundwater at the monitor well vicinities appears to meet all criteria for permanent closure. Therefore, BP Amoco is requesting permanent closure status for all the remediated pits presented within this report.

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

Sincerely,
BLAGG ENGINEERING, INC.

Nelson Velez
Staff Geologist

cc: Denny Foust, Environmental Geologist, New Mexico Oil Conservation Division, Aztec, NM
Buddy Shaw, Environmental Coordinator, BP Amoco, Farmington, NM (without attachment)

NV/nv JAQ-C1.CVL

BP AMOCO

SOIL & GROUNDWATER REMEDIATION REPORT

1993-1995

JAQUEZ GC C #1/E #1
(F) SECTION 6, T29N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR:
MR. WILLIAM C. OLSON
NEW MEXICO OIL CONSERVATION DIVISION

JANUARY 2000

PREPARD BY:
BLAGG ENGINEERING, INC.

Consulting Petroleum / Reclamation Services
P.O. Box 87
Bloomfield, New Mexico 87413

BP AMOCO

SOIL & GROUNDWATER REMEDIATION REPORT

1993-1995

JAQUEZ GC C #1/E #1
(F) SECTION 6, T29N, R9W, NMPM
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Bloomfield, New Mexico 87413

AMOCO GROUNDWATER MONITOR WELL LABORATORY RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

JAQUEZ GC C #1 / E #1
UNIT O, SEC. 6, T29N, R9W

REVISED DATE: JANUARY 24, 2000
FILENAME: (C1-4Q-95.WK4) NJV

SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS (ft)	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8020 (PPB) Benzene	Toluene	Ethyl Benzene	Total Xylene
04-Mar-94	WP-1	5.67	7.75		900	7.6		ND	0.8	ND	1.3
15-Jun-94		4.07			700	6.9		0.8	ND	ND	ND
22-Sep-94		3.58			700	7.1		ND	0.5	ND	3.5
19-Dec-94		4.11			600	6.8		ND	ND	ND	ND
16-Mar-95		4.75			400	7.0		0.3	ND	ND	1.5
20-Jun-95		4.04			1,300	6.6		ND	ND	ND	ND
04-Mar-94	WP-2	3.28	6.48		300	7.1		ND	0.7	ND	0.6
15-Jun-94		3.00			500	7.2		ND	ND	ND	ND
22-Sep-94		2.55			600	7.2		ND	0.2	ND	2.9
19-Dec-94		3.47	WELL DAMAGED - UNABLE TO SAMPLE								
04-Mar-94	WP-3	4.20	7.42		300	7.5		ND	0.5	ND	0.6
15-Jun-94		2.77			500	7.0		ND	ND	ND	ND
22-Sep-94		2.68			500	7.1		ND	0.3	ND	2.4
19-Dec-94		3.70			700	6.8		ND	ND	ND	ND
16-Mar-95		4.66			500	6.7		ND	ND	ND	0.9
20-Jun-95		2.92			700	6.9		ND	ND	ND	ND
04-Mar-94	WP-4	5.26	8.11		400	7.2		ND	1.4	ND	2.0
15-Jun-94		3.98			500	7.0		ND	ND	ND	ND
22-Sep-94		3.80			500	7.1		ND	0.2	ND	2.2
19-Dec-94		4.82			600	6.9		ND	ND	ND	ND
16-Mar-95		5.70			500	6.9		ND	ND	ND	0.6
20-Jun-95		3.79			700	6.9		ND	ND	ND	2.2
04-Mar-94	WP-5	4.05	6.50		400	7.5		ND	ND	ND	ND
15-Jun-94		2.74			600	7.0		ND	ND	ND	ND
22-Sep-94		2.70			700	7.1		ND	0.2	ND	1.9
19-Dec-94		3.70			800	6.9		ND	ND	ND	ND
16-Mar-95		4.58			1,100	6.6		ND	0.2	ND	0.5
20-Jun-95		2.38			500	6.8		ND	ND	ND	ND
04-Mar-94	WP-6	3.58	6.65		400	7.3		ND	0.7	ND	ND
15-Jun-94		2.29			500	7.1		ND	1.1	ND	1.4
22-Sep-94		2.51			700	7.1		ND	ND	ND	2.2
19-Dec-94		3.25			1,000	6.9		ND	0.5	1.0	3.5
16-Mar-95		3.96			1,100	6.7		0.3	0.4	1.7	6.1
20-Jun-95		1.62			700	6.9		ND	ND	ND	ND
04-Mar-94	WP-7	3.25	6.86		500	7.5		2.6	0.8	0.9	700
15-Jun-94			WELL DESTROYED DURING ADDITIONAL EXCAVATION								
04-Mar-94	WP-8	5.12	8.20		400	7.3		ND	ND	ND	0.8
15-Jun-94		4.02			500	7.0		ND	ND	ND	ND
22-Sep-94		3.82			700	7.1		ND	0.2	ND	1.1
19-Dec-94		4.71			800	7.0		ND	ND	ND	ND
16-Mar-95		5.53			600	6.9		ND	ND	ND	0.3
20-Jun-95		3.70			800	6.9		ND	ND	ND	ND

AMOCO GROUNDWATER MONITOR WELL LABORATORY RESULTS

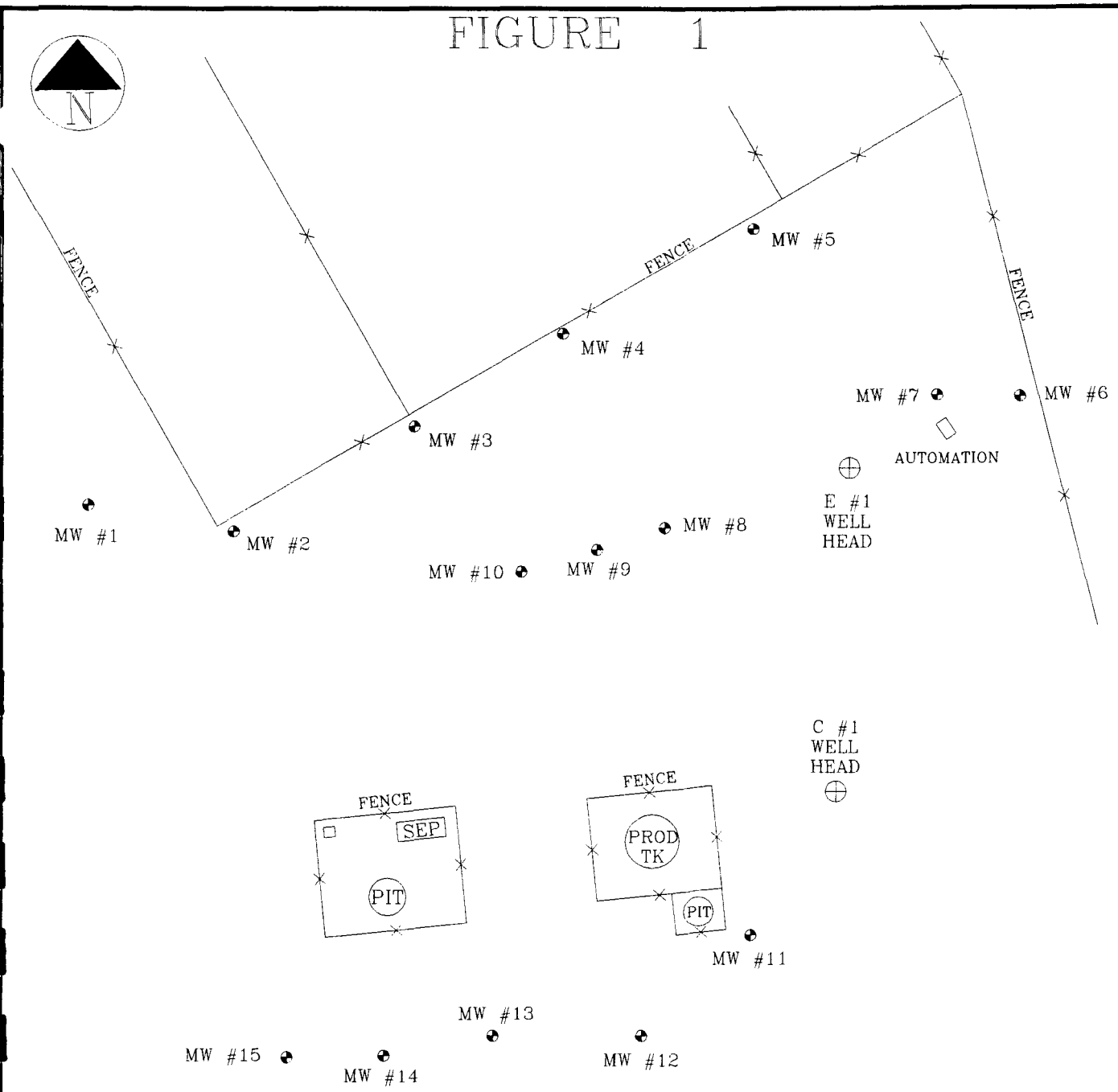
SUBMITTED BY BLAGG ENGINEERING, INC.

JAQUEZ GC C #1/E #1
UNIT O, SEC. 6, T29N, R9W

REVISED DATE: JANUARY 24, 2000
FILENAME: (C1-4Q-95.WK4) NJV

SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS (ft)	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8020 (PPB) Benzene	Toluene	Ethyl Benzene	Total Xylene
04-Mar-94	WP-9	4.25	7.24		2,100	7.4		1.2	0.7	0.4	20.0
15-Jun-94		3.23			800	7.0		8.4	1.8	2.7	46.2
22-Sep-94		2.92			700	7.1		0.9	ND	0.5	10.2
19-Dec-94		3.82			1,000	7.1		ND	0.3	ND	ND
16-Mar-95		4.64			1,500	7.0		ND	0.2	ND	0.4
20-Jun-95		2.95			1,300	6.9		ND	ND	ND	ND
04-Mar-94	WP-10	3.26	6.99		500	7.2		0.7	ND	ND	151.0
15-Jun-94		2.21			400	7.1		ND	ND	ND	16.0
22-Sep-94		1.87			600	6.7		ND	0.3	ND	2.3
19-Dec-94		2.75			900	6.6		ND	ND	ND	ND
16-Mar-95		3.65			800	6.8		ND	ND	ND	0.7
20-Jun-95		2.00			700	6.6		ND	ND	ND	ND
04-Mar-94	WP-11	1.93	4.00		600	7.4		ND	ND	ND	0.7
15-Jun-94		2.08	6.50		400	7.2		ND	ND	ND	ND
22-Sep-94		1.37			600	7.3		ND	0.2	ND	0.4
19-Dec-94		1.46			600	7.2		ND	ND	ND	ND
16-Mar-95		2.33			500	7.2		ND	ND	ND	0.2
20-Jun-95		1.53			500	7.1		ND	ND	ND	ND
04-Mar-94	WP-12	1.96	5.65		300	7.4		ND	ND	ND	ND
15-Jun-94		2.26			400	7.3		0.8	0.6	ND	ND
22-Sep-94		1.40			500	7.3		ND	ND	ND	0.3
19-Dec-94		1.64			600	7.6		ND	ND	ND	ND
16-Mar-95		2.15			400	7.7		ND	ND	ND	ND
20-Jun-95		1.70			500	7.4		ND	ND	ND	ND
04-Mar-94	WP-13	1.82	5.90		500	7.4		ND	ND	ND	1.1
15-Jun-94		2.07			600	7.3		1.0	1.0	0.4	ND
22-Sep-94		1.50			700	7.1		ND	0.2	ND	0.2
19-Dec-94		1.46			700	7.4		ND	ND	ND	ND
16-Mar-95		1.74			400	7.3		ND	ND	ND	0.2
20-Jun-95		1.65			500	7.1		ND	ND	ND	ND
04-Mar-94	WP-14	1.99	5.77		400	7.4		ND	0.9	1.6	19.7
15-Jun-94		2.22			400	7.8		ND	ND	ND	ND
22-Sep-94		1.82			400	7.1		ND	ND	ND	0.2
19-Dec-94		1.62			400	7.6		ND	ND	ND	ND
16-Mar-95		2.09			300	7.3		ND	ND	ND	ND
20-Jun-95		2.16			400	7.1		ND	ND	ND	ND
04-Mar-94	WP-15	1.77	5.67		400	7.5		ND	ND	0.3	0.4
15-Jun-94		2.33			400	7.6		ND	ND	ND	ND
22-Sep-94		1.86			400	7.1		ND	0.2	ND	ND
19-Dec-94		1.58			400	7.6		ND	ND	ND	ND
16-Mar-95		2.01			300	7.3		ND	ND	ND	ND
20-Jun-95		2.18			400	6.9		ND	ND	ND	ND

FIGURE 1



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

1 INCH = 50 FT.

0 50 100 FT.

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1/E #1

SW/4 SE/4 SEC. 6, T29N, R9W

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 SAMP.

DRAWN BY: NJV

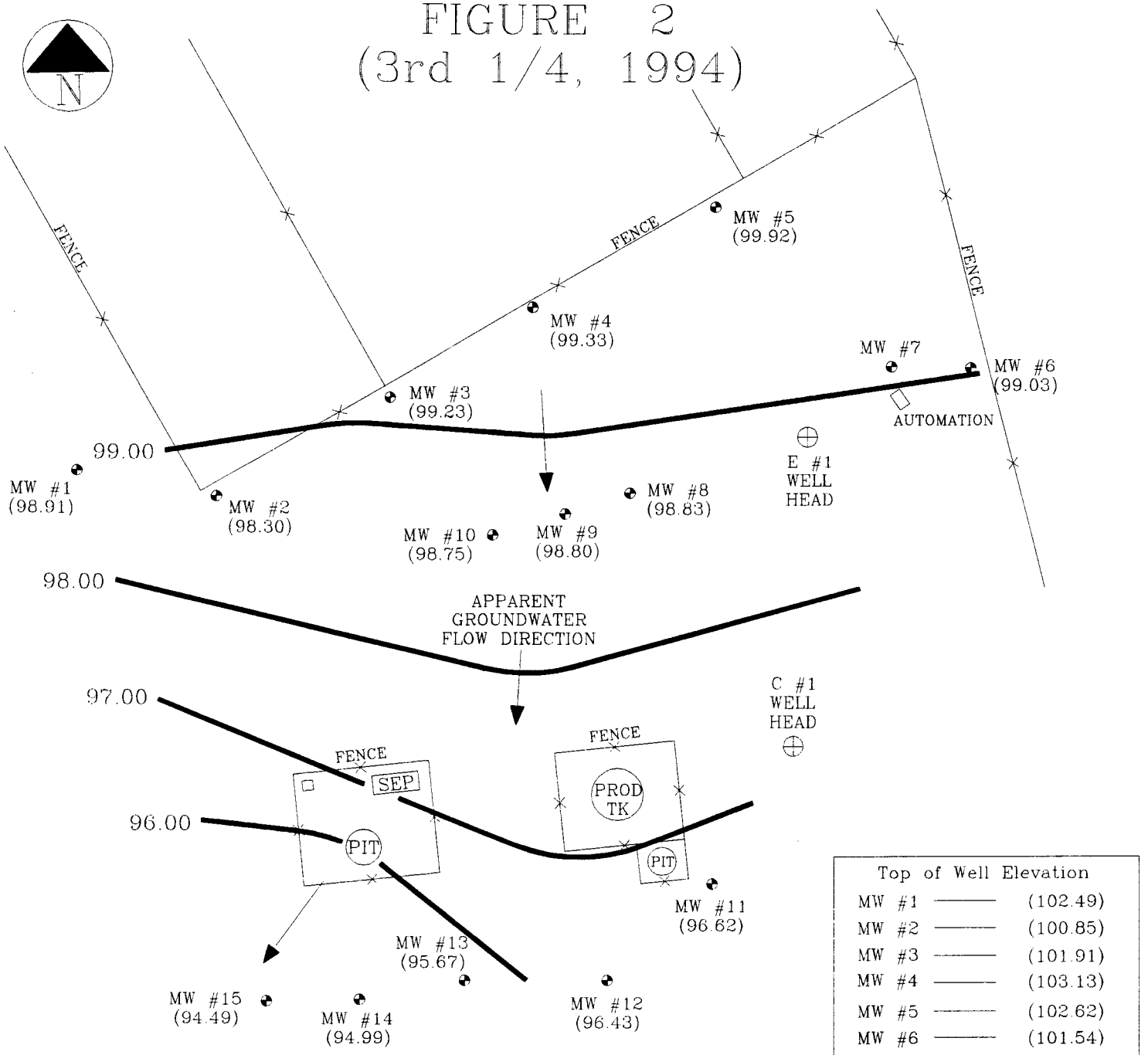
FILENAME: J-C1-SM

DRAFTED: 1/25/00 NJV

SITE MAP

09/94

FIGURE 2
(3rd 1/4, 1994)



Top of Well Elevation	
MW #1	(102.49)
MW #2	(100.85)
MW #3	(101.91)
MW #4	(103.13)
MW #5	(102.62)
MW #6	(101.54)
MW #8	(102.65)
MW #9	(101.72)
MW #10	(100.62)
MW #11	(97.99)
MW #12	(97.83)
MW #13	(97.17)
MW #14	(96.81)
MW #15	(96.35)

MW #1 (98.91) — Groundwater Elevation as of 09/22/94.

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

1 INCH = 50 FT.

0 50 100 FT.

MW #7 DESTROYED DURING ADDITIONAL EXCAVATION BETWEEN MAR. & JUN. '94

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1/E #1

SW/4 SE/4 SEC. 6, T29N, R9W

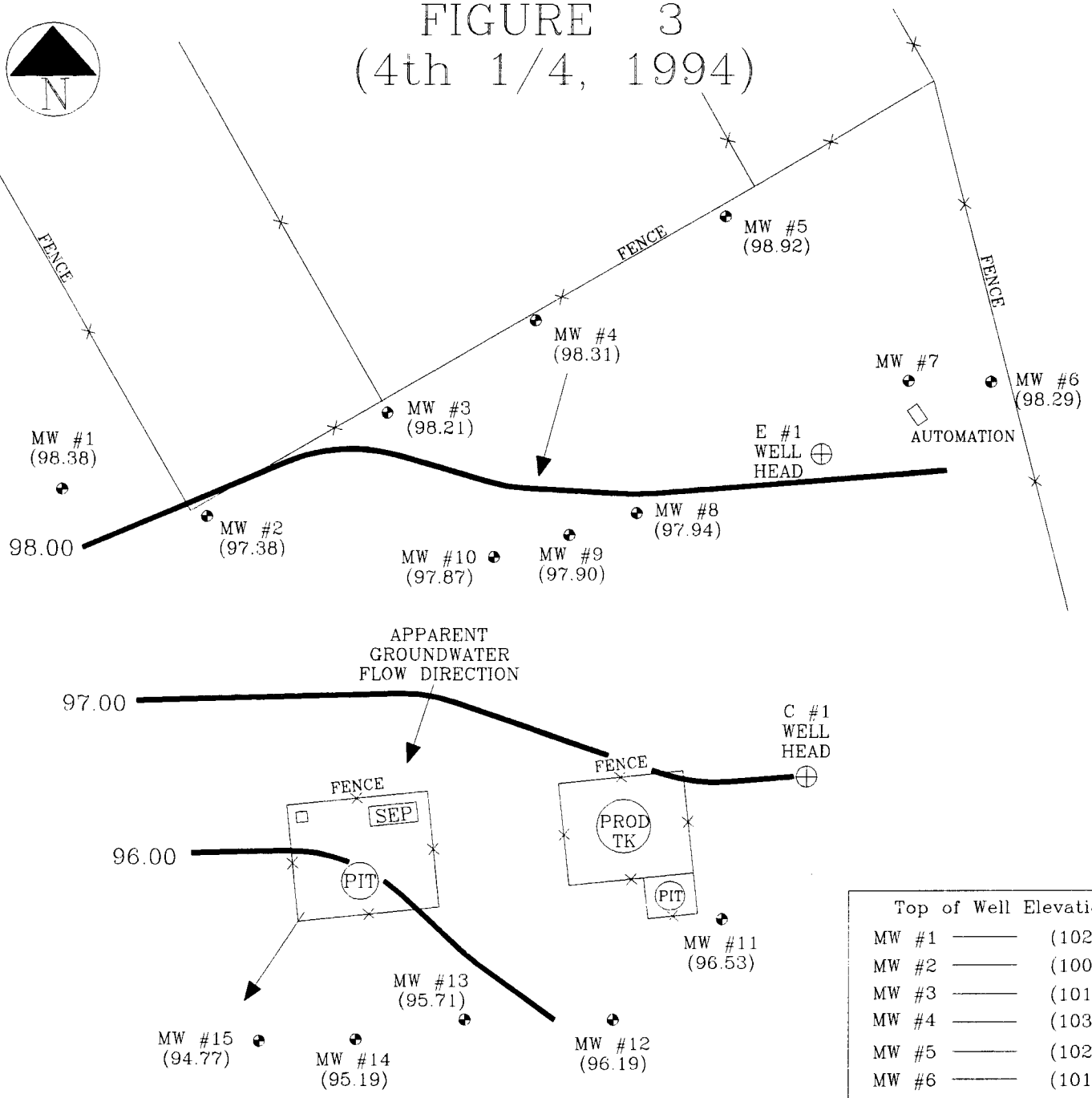
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: 1/4ly SAMP.
DRAWN BY: NJV
FILENAME: 09-22-GW
DRAFTED: 1/25/00 NJV

GROUNDWATER GRADIENT MAP 09/94

FIGURE 3
(4th 1/4, 1994)



Top of Well Elevation	
MW #1	(102.49)
MW #2	(100.85)
MW #3	(101.91)
MW #4	(103.13)
MW #5	(102.62)
MW #6	(101.54)
MW #8	(102.65)
MW #9	(101.72)
MW #10	(100.62)
MW #11	(97.99)
MW #12	(97.83)
MW #13	(97.17)
MW #14	(96.81)
MW #15	(96.35)

MW #1 (98.38) — Groundwater Elevation as of 12/19/94.

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

1 INCH = 50 FT.

0 50 100 FT.

MW #7 DESTROYED DURING ADDITIONAL EXCAVATION BETWEEN MAR. & JUN. '94

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1/E #1

SW/4 SE/4 SEC. 6, T29N, R9W

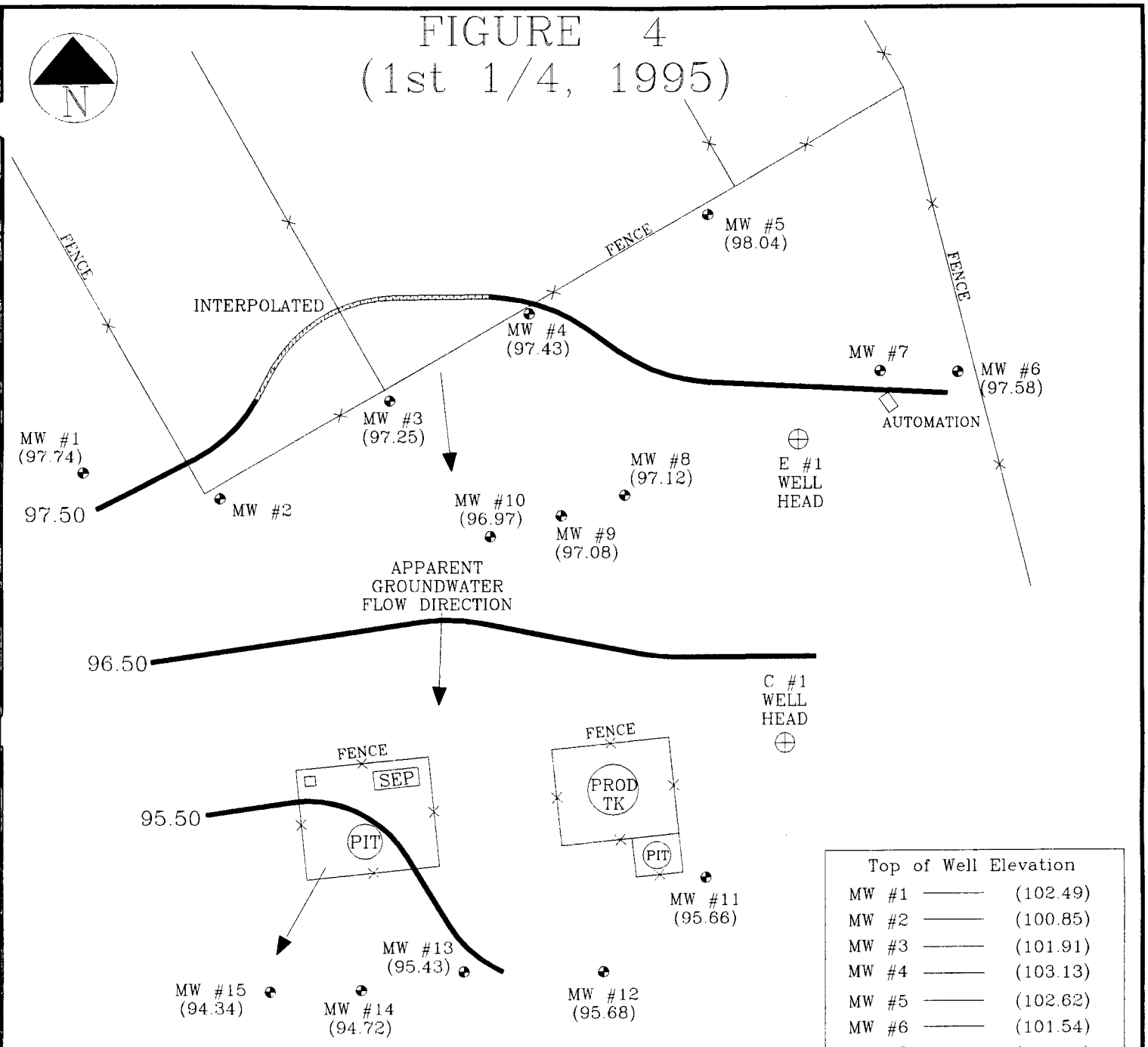
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: 1/4ly SAMP.
DRAWN BY: NJV
FILENAME: 12-19-GW
DRAFTED: 1/25/00 NJV

GROUNDWATER GRADIENT MAP 12/94

FIGURE 4
(1st 1/4, 1995)



Top of Well Elevation	
MW #1	(102.49)
MW #2	(100.85)
MW #3	(101.91)
MW #4	(103.13)
MW #5	(102.62)
MW #6	(101.54)
MW #8	(102.65)
MW #9	(101.72)
MW #10	(100.62)
MW #11	(97.99)
MW #12	(97.83)
MW #13	(97.17)
MW #14	(96.81)
MW #15	(96.35)

MW #1 (97.74) — Groundwater Elevation as of 03/16/95.

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

1 INCH = 50 FT.

0 50 100 FT.

MW #2 DAMAGED BETWEEN SEPT. & DEC '94.

MW #7 DESTROYED DURING ADDITIONAL EXCAVATION BETWEEN MAR. & JUN. '94

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1/E #1

SW/4 SE/4 SEC. 6, T29N, R9W

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: 1/4ly SAMP.

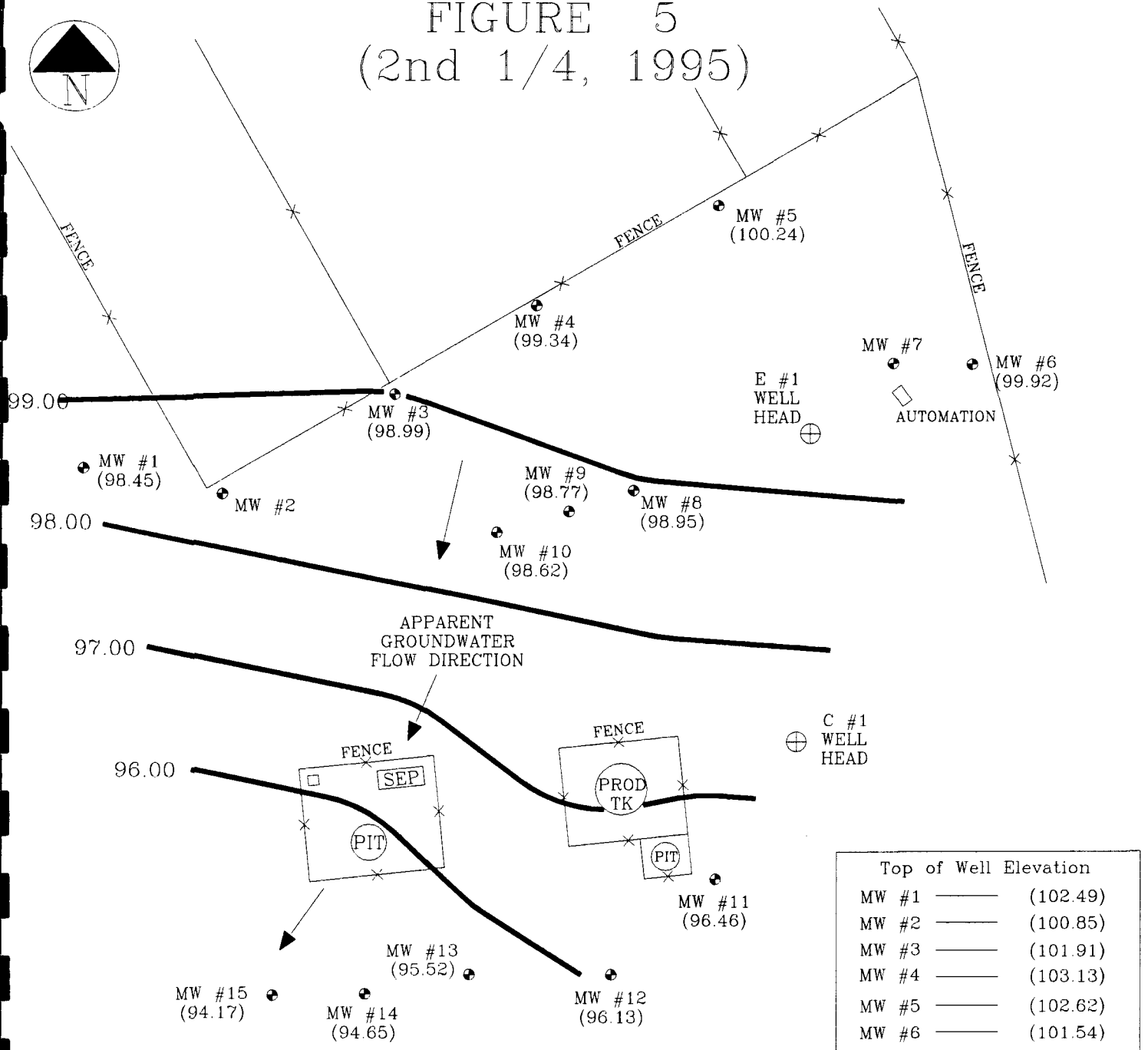
DRAWN BY: NJV

FILENAME: 03-16-GW

DRAFTED: 1/25/00 NJV

GROUNDWATER GRADIENT MAP 03/95

FIGURE 5
(2nd 1/4, 1995)



Top of Well Elevation	
MW #1	(102.49)
MW #2	(100.85)
MW #3	(101.91)
MW #4	(103.13)
MW #5	(102.62)
MW #6	(101.54)
MW #8	(102.65)
MW #9	(101.72)
MW #10	(100.62)
MW #11	(97.99)
MW #12	(97.83)
MW #13	(97.17)
MW #14	(96.81)
MW #15	(96.35)

● MW #1 (98.45) Groundwater Elevation as of 06/20/95.

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

1 INCH = 50 FT.

0 50 100 FT.

MW #2 DAMAGED BETWEEN SEPT. & DEC. '94.

MW #7 DESTROYED DURING ADDITIONAL EXCAVATION BETWEEN MAR. & JUN. '94

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1/E #1

SW/4 SE/4 SEC. 6, T29N, R9W

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: 1/4ly SAMP.
DRAWN BY: NJV
FILENAME: 06-20-GW
DRAFTED: 1/25/00 NJV

GROUNDWATER GRADIENT MAP 06/95

FIGURE 6

AMOCO PRODUCTION COMPANY

JAQUEZ GC C #1 / E #1

SIMPLISTIC DRIVE POINT

CONSTRUCTION & COMPLETION

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: GW REMED. PLAN

REVISED BY: NJV

DATE: DEC. '95

FILENAME: J-C1-DTL.SKD

Monitor Well #'s 1-10

Monitor Well #'s 11-15

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : AMOCO PRODUCTION CO.

CHAIN-OF-CUSTODY # : 2126
2127

JAQUEZ GC C #1 / E #1
UNIT O, SEC. 6, T29N, R9W

LABORATORY (S) USED : ON - SITE TECH.

Date : September 22, 1994

SAMPLER : R E O

Filename : 09-22-94.WK4

PROJECT MANAGER : R E O

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (bails)	FREE PRODUCT (ft)
1	102.49	98.91	3.58	7.75	0850	7.1	700	4.00	-
2	100.85	98.30	2.55	6.48	0910	7.1	600	1.00	-
3	101.91	99.23	2.68	7.42	0920	7.1	500	8.00	-
4	103.13	99.33	3.80	8.11	0940	7.1	500	8.00	-
5	102.62	99.92	2.70	6.50	0955	7.1	700	8.00	-
6	101.54	99.03	2.51	6.65	1010	7.1	700	8.00	-
8	102.65	98.83	3.82	8.20	1025	7.1	700	8.00	-
9	101.72	98.80	2.92	7.24	1030	7.1	700	8.00	-
10	100.62	98.75	1.87	6.99	1100	6.7	600	7.00	-
11	97.99	96.62	1.37	6.50	1120	7.3	600	6.00	-
12	97.83	96.43	1.40	5.65	1130	7.3	500	8.00	-
13	97.17	95.67	1.50	5.90	1145	7.1	700	8.00	-
14	96.81	94.99	1.82	5.77	1200	7.1	400	4.00	-
15	96.35	94.49	1.86	5.67	1210	7.1	400	4.00	-

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).
2 bails per foot - small teflon bailer.
3 bails per foot - 3 / 4 " teflon bailer.
2.00 " well diameter = 0.49 gallons per foot of water.
4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All Wells = 1.25" well point . Collected BTEX samples for all MW 's listed above .

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3183*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 1***				
Sampled by:	REO	Date:	9/22/94	Time:	8:50
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.5	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.9	*0.2*
o-Xylene	0.6	*0.2*
	TOTAL *4.1 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
3005 NORTHRIDGE DRIVE ▪ SUITE F ▪ P. O. BOX 2606 ▪ FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3184*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 2***				
Sampled by:	REO	Date:	9/22/94	Time:	9:10
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.3	*0.2*
o-Xylene	0.6	*0.2*
	TOTAL *3.1 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaL

Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3185*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 3***				
Sampled by:	REO	Date:	9/22/94	Time:	9:20
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.3	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.1	*0.2*
o-Xylene	0.3	*0.2*
	TOTAL 2.6 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Da Gt
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3186*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 4***				
Sampled by:	REO	Date:	9/22/94	Time:	9:40
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	1.9	*0.2*
o-Xylene	0.3	*0.2*
	TOTAL *2.4 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3187*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 5***				
Sampled by:	REO	Date:	9/22/94	Time:	9:55
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	1.4	*0.2*
o-Xylene	0.5	*0.2*
	TOTAL *2.1 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]
Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3188*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 6***				
Sampled by:	REO	Date:	9/22/94	Time:	10:10
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.0	*0.2*
o-Xylene	0.2	*0.2*
	TOTAL 2.2 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3189*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 8***				
Sampled by:	REO	Date:	9/22/94	Time:	10:25
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.9	*0.2*
o-Xylene	0.2	*0.2*
	TOTAL *1.3 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jan H

Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3190*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 9***				
Sampled by:	REO	Date:	9/22/94	Time:	10:30
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	0.9	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	0.5	*0.2*
m,p-Xylene	9.7	*0.2*
o-Xylene	0.5	*0.2*
	TOTAL 11.7 ug/L	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3191*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 10***				
Sampled by:	REO	Date:	9/22/94	Time:	11:00
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.3	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.3	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 2.6 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3192*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 11***				
Sampled by:	REO	Date:	9/22/94	Time:	11:20
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.4	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.7 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 9/26/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3193*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 12***				
Sampled by:	REO	Date:	9/22/94	Time:	11:30
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.3	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.3 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/23/94
Company:	*Blagg Engineering*	*Lab ID:*	*2126*
Address:	*P.O. Box 87*	*Sample ID:*	*3194*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 13***				
Sampled by:	REO	Date:	9/22/94	Time:	11:45
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.2	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.4 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/24/94
Company:	*Blagg Engineering*	*Lab ID:*	*2127*
Address:	*P.O. Box 87*	*Sample ID:*	*3195*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 14***				
Sampled by:	REO	Date:	9/22/94	Time:	12:00
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.2	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.2 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]
Date: 9/26/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	9/24/94
Company:	*Blagg Engineering*	*Lab ID:*	*2127*
Address:	*P.O. Box 87*	*Sample ID:*	*3196*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1 / E1***				
Project Location:	***WP - 15***				
Sampled by:	REO	Date:	9/22/94	Time:	12:10
Analyzed by:	DLA	Date:	9/23/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.2 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 9/24/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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CHAIN OF CUS . ODY RECORD

2126

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 9-22-94

Page 1 of 2

Purchase Order No.:	Reference No.:		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	R E O'NEILL — Title EE
Company	BINGO ENGINEERING, INC. — Dept.	Company	SAME
Address	P.O. BOX 87	Mailing Address	SAME
City, State, Zip	BLOOMFIELD, N.M. 87413	City, State, Zip	
		Telephone No.	632-1199 — Telefax No.

Special Instructions: SWQE 2 CI/EI

Sampler: R E. O'NEILL

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	BTEX									Remarks (matrix)
WP-1 9-22	0850		HgCl2-ICE	2	✓				3183-2126					WATER
WP-2 "	0910		"	2	✓				3184					"
WP-3 "	0920		"	2	✓				3185					"
WP-4 "	0940		"	2	✓				3186					"
WP-5 "	0955		"	2	✓				3187					"
WP-6 "	1010		"	2	✓				3188					"
WP-8 "	1025		"	2	✓				3189					"
WP-9 "	1030		"	2	✓				3190					"
WP-10 "	1100		"	2	✓				3191					"
WP-11 "	1120		"	2	✓				3192					"
WP-12 "	1130		"	2	✓				3193					"
WP-13 "	1145		"	2	✓				3194					"

Relinquished by: R. E. O'Neill	Date/Time 9/22 1321	Received by: Tony Tristano	Date/Time 9/22/94 1321
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: R E O'Neill Date 9-22-94
(Client Signature Must Accompany Request)

Rush	5 Working Days	10 Working Days	Sampling Location:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUS.ODY RECORD

2127

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 9-22-94

Page 2 of 2

Purchase Order No.:	Reference No.:		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	P. E. O'NEILL — Title EE
Company	BLAGG ENGINEERING, INC. — Dept.	Company	SAME
Address	P.O. BOX 87	Mailing Address	SAME
City, State, Zip	BLOOMFIELD N.M. 87413	City, State, Zip	
		Telephone No.	632-1199 — Telefax No.

Special Instructions:

JAQUEZ CI/EI

Sampler: P. E. O'NEILL

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	ANALYSIS REQUESTED: BTEX	Remarks (matrix)
WP-14 9-22	1200		HCl	2	✓ 3195-2127	WATER
WP-15 "	1210		"	2	✓ 3196-1	1

Relinquished by: P. E. O'Neill	Date/Time 9/22 1324	Received by: Tony Tinsley	Date/Time 9/22/94 1324
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: P. E. O'Neill (Client Signature Must Accompany Request) Date 9-22-94

Rush	5 Working Days	10 Working Days	Sampling Location:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : AMOCO PRODUCTION CO.

CHAIN-OF-CUSTODY # : 2511
2512

JAQUEZ GC C #1 / E #1
UNIT O, SEC. 6, T29N, R9W

LABORATORY (S) USED : ON - SITE TECH.

Date : December 19, 1994

SAMPLER : R E O

Filename : 12-19-94.WK4

PROJECT MANAGER : R E O

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (bails)	FREE PRODUCT (ft)
1	102.49	98.38	4.11	7.75	0850	6.8	600	3.00	-
2	100.85	97.38	3.47	6.48	-	-	-	-	-
3	101.91	98.21	3.70	7.42	0915	6.8	700	4.00	-
4	103.13	98.31	4.82	8.11	0930	6.9	600	6.00	-
5	102.62	98.92	3.70	6.50	0945	6.9	800	4.00	-
6	101.54	98.29	3.25	6.65	1000	6.9	1,000	6.00	-
8	102.65	97.94	4.71	8.20	1020	7.0	800	6.00	-
9	101.72	97.90	3.82	7.24	1025	7.1	1,000	4.00	-
10	100.62	97.87	2.75	6.99	1045	6.6	900	5.00	-
11	97.99	96.53	1.46	6.50	1100	7.2	600	5.00	-
12	97.83	96.19	1.64	5.65	1120	7.6	600	6.00	-
13	97.17	95.71	1.46	5.90	1130	7.4	700	6.00	-
14	96.81	95.19	1.62	5.77	1145	7.6	400	4.00	-
15	96.35	94.77	1.58	5.67	1200	7.6	400	4.00	-

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).
2 bails per foot - small teflon bailer.
3 bails per foot - 3 / 4 " teflon bailer.
2.00 " well diameter = 0.49 gallons per foot of water.
4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All Wells = 1.25" well point . Collected BTEX samples for all MW 's listed above except MW #2 - damaged ; no sample obtainable .

OFF: (505) 325-8786

ON SITE
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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4451*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 1***				
Sampled by:	REO	Date:	12/19/94	Time:	8:50
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 12/21/94

OFF: (505) 325-8786

ON SITE
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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4452*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 3***				
Sampled by:	REO	Date:	12/19/94	Time:	9:15
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DA
Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4453*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 4***				
Sampled by:	REO	Date:	12/19/94	Time:	9:30
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Da G
Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4454*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 5***				
Sampled by:	REO	Date:	12/19/94	Time:	9:45
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaL

Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4455*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 6***				
Sampled by:	REO	Date:	12/19/94	Time:	10:00
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.5	*0.2*
Ethylbenzene	1.0	*0.2*
m,p-Xylene	3.5	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 5.0 ug/L	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 12/21/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4456*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 8***				
Sampled by:	REO	Date:	12/19/94	Time:	10:20
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: [signature]
Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4457*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 9***				
Sampled by:	REO	Date:	12/19/94	Time:	10:25
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	0.3	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.3 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: *Date:* 12/21/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4458*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 10***				
Sampled by:	REO	Date:	12/19/94	Time:	10:45
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Dale
Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4459*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 11***				
Sampled by:	REO	Date:	12/19/94	Time:	11:00
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaLv
Date: 12/21/94

OFF: (505) 325-8786

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4460*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 12***				
Sampled by:	REO	Date:	12/19/94	Time:	11:20
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DLA
Date: 12/21/94

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4461*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 13***				
Sampled by:	REO	Date:	12/19/94	Time:	11:30
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DLA
Date: 12/21/94

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2511*
Address:	*P.O. Box 87*	*Sample ID:*	*4462*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 14***				
Sampled by:	REO	Date:	12/19/94	Time:	11:45
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.0 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 12/21/94

OFF: (505) 325-8786

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	12/21/94
Company:	*Blagg Engineering*	*Lab ID:*	*2512*
Address:	*P.O. Box 87*	*Sample ID:*	*4463*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1 / E1***				
Project Location:	***WP - 15***				
Sampled by:	REO	Date:	12/19/94	Time:	12:00
Analyzed by:	DLA	Date:	12/20/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 12/21/94

CHAIN OF CUSTODY RECORD

2511

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 12-19-94

Page 1 of 2

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name N. E O'NEIL	Title
Company BLAGG ENGINEERING	Dept.	Company SAME	
Address P.O. BOX 87		Mailing Address SAME	
City, State, Zip BLOOMFIELD, N.M. 87413		City, State, Zip	
Sampling Location: JAQUEZ GC C1/E1		Telephone No. 632-1199	Telefax No.
Sampler: N E O'Neil			

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
wp - 1	12/19	0850	WATER	HgCl2	2	✓	
wp - 3	"	0915	"	"	2	✓	
wp - 4	"	0930	"	"	2	✓	
wp - 5	"	0945	"	"	2	✓	
wp - 6	"	1000	"	"	2	✓	
wp - 8	"	1020	"	"	2	✓	
wp - 9	"	1025	"	"	2	✓	
wp - 10	"	1045	"	"	2	✓	
wp - 11	"	1100	"	"	2	✓	
wp - 12	"	1120	"	"	2	✓	
wp - 13	"	1130	"	"	2	✓	
wp - 14	"	1145	"	"	2	✓	

Relinquished by: N E O'Neil	Date/Time 12/19 1302	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: N E O'Neil Date 12-19-94
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUSTODY RECORD

2512

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 12-19-94

Page 2 of 2

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	R. E. O'NEILL / Title
Company	BLAGG ENGINEERING / Dept.	Company	SAME
Address	P.O. BOX 87	Mailing Address	SAME
City, State, Zip	BLOOMFIELD, N.M. 87413	City, State, Zip	
		Telephone No.	632-1199 / Telefax No.
Sampling Location:	JAQUEZ GC C1/E1		
Sampler:	R. E. O'Neill		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: BTEX	LAB ID
WP-15	12/19	1200	WATER	H2SO4	2	✓	
				ICE			

Relinquished by: R. E. O'Neill	Date/Time 12/19 1302	Received by:	Date/Time 12/19/94
Relinquished by:	Date/Time 12/19/94 1553	Received by:	Date/Time 12/19/94 1553
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: R. E. O'Neill Date 12-19-94
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : AMOCO PRODUCTION CO.

CHAIN-OF-CUSTODY # : 2649

JAQUEZ GC C #1 / E #1
UNIT O, SEC. 6, T29N, R9W

LABORATORY (S) USED : ON - SITE TECH.

Date : March 16, 1995

SAMPLER : R E O

Filename : 03-16-95.WK4

PROJECT MANAGER : R E O

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (bails)	FREE PRODUCT (ft)
1	102.49	97.74	4.75	7.75	0915	7.0	400	3.00	-
3	101.91	97.25	4.66	7.42	0930	6.7	500	3.00	-
4	103.13	97.43	5.70	8.11	0940	6.9	500	3.00	-
5	102.62	98.04	4.58	6.50	0955	6.6	1,100	2.00	-
6	101.54	97.58	3.96	6.65	1010	6.7	1,100	3.00	-
8	102.65	97.12	5.53	8.20	1020	6.9	600	3.00	-
9	101.72	97.08	4.64	7.24	1030	7.0	1,500	2.00	-
10	100.62	96.97	3.65	6.99	1040	6.8	800	3.00	-
11	97.99	95.66	2.33	6.50	1050	7.2	500	5.00	-
12	97.83	95.68	2.15	5.65	1110	7.7	400	6.00	-
13	97.17	95.43	1.74	5.90	1120	7.3	400	6.00	-
14	96.81	94.72	2.09	5.77	1130	7.3	300	3.00	-
15	96.35	94.34	2.01	5.67	1140	7.3	300	3.00	-

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).
2 bails per foot - small teflon bailer.
3 bails per foot - 3 / 4 " teflon bailer.
2.00 " well diameter = 0.49 gallons per foot of water.
4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All Wells = 1.25" well point . Collected BTEX samples for all MW 's listed above .

OFF: (505) 325-8786

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5567*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 1***				
Sampled by:	REO	Date:	3/16/95	Time:	9:15
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	0.3	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	1.5	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 1.8 ug/L	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 3/20/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5568*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 3***				
Sampled by:	REO	Date:	3/16/95	Time:	9:30
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.9	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.9 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 3/20/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5569*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 4***				
Sampled by:	REO	Date:	3/16/95	Time:	9:40
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.6	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.6 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DLA
Date: 3/20/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5570*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 5***				
Sampled by:	REO	Date:	3/16/95	Time:	9:55
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.5	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.7 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5571*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 6***				
Sampled by:	REO	Date:	3/16/95	Time:	10:10
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	0.3	*0.2*
Toluene	0.4	*0.2*
Ethylbenzene	1.7	*0.2*
m,p-Xylene	6.1	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *8.5 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 8***				
Sampled by:	REO	Date:	3/16/95	Time:	10:20
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.3	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.3 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

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Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5573*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 9***				
Sampled by:	REO	Date:	3/16/95	Time:	10:30
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	0.2	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.4	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.6 ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 3/20/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5574*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 10***				
Sampled by:	REO	Date:	3/16/95	Time:	10:40
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.7	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.7 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5575*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 11***				
Sampled by:	REO	Date:	3/16/95	Time:	10:50
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.2	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.2 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DAG
Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5576*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 12***				
Sampled by:	REO	Date:	3/16/95	Time:	11:10
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DeL
Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5577*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 13***				
Sampled by:	REO	Date:	3/16/95	Time:	11:20
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	0.2	*0.2*
o-Xylene	ND	*0.2*
	TOTAL *0.2 ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

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Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5578*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 14***				
Sampled by:	REO	Date:	3/16/95	Time:	11:30
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 3/20/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	3/18/95
Company:	*Blagg Engineering*	*Lab ID:*	*2649*
Address:	*P.O. Box 87*	*Sample ID:*	*5579*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP - 15***				
Sampled by:	REO	Date:	3/16/95	Time:	11:40
Analyzed by:	DLA	Date:	3/17/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 ug/L	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaC
Date: 3/20/95

CHAIN OF CUSTODY RECORD

2649

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 3-16-95

Page 1 of 1

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	R. E. O'NEILL / Title
Company	BLAGG ENG. / Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
Sampling Location: JAMIE 2 GC C1/E1			
Sampler: R E O'Neill			

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
WP-1	3-16	0915	WATER		2	✓	
WP-3	"	0930	"		2	✓	
WP-4	"	0940	"		2	✓	
WP-5	"	0955	"		2	✓	
WP-6	"	1010	"		2	✓	
WP-8	"	1020	"		2	✓	
WP-9	"	1030	"		2	✓	
WP-10	"	1040	"		2	✓	
WP-11	"	1050	"		2	✓	
WP-12	"	1110	"		2	✓	
WP-13	"	1120	"		2	✓	
WP-14	"	1130	"		2	✓	
WP-15	"	1140	"		2	✓	

~~Relinquished by:~~	~~Date/Time~~	Received by:	Date/Time 3/16/95 1800
Relinquished by: R. E. O'Neill	Date/Time 3-16 1400	Received by:	Date/Time 3/16/95 1406
Relinquished by:	Date/Time 3/16/95 1406	Received by:	Date/Time

Method of Shipment:

Authorized by: R. E. O'Neill Date 3-16-95
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : AMOCO PRODUCTION CO.

CHAIN-OF-CUSTODY # : 2950
2951

JAQUEZ GC C #1 / E #1
UNIT O, SEC. 6, T29N, R9W

LABORATORY (S) USED : ON - SITE TECH.

Date : June 20, 1995

SAMPLER : R E O

Filename : 06-20-95.WK4

PROJECT MANAGER : R E O

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (bails)	FREE PRODUCT (ft)
1	102.49	98.45	4.04	7.75	0845	6.6	1,300	4.00	-
3	101.91	98.99	2.92	7.42	0852	6.9	700	7.00	-
4	103.13	99.34	3.79	8.11	0904	6.9	700	8.00	-
5	102.62	100.24	2.38	6.50	0914	6.8	500	8.00	-
6	101.54	99.92	1.62	6.65	0923	6.9	700	10.00	-
8	102.65	98.95	3.70	8.20	0935	6.9	800	8.00	-
9	101.72	98.77	2.95	7.24	0944	6.9	1,300	7.00	-
10	100.62	98.62	2.00	6.99	0953	6.6	700	6.00	-
11	97.99	96.46	1.53	6.50	1004	7.1	500	5.00	-
12	97.83	96.13	1.70	5.65	1015	7.4	500	8.00	-
13	97.17	95.52	1.65	5.90	1024	7.1	500	6.00	-
14	96.81	94.65	2.16	5.77	1032	7.1	400	3.00	-
15	96.35	94.17	2.18	5.67	1042	6.9	400	3.00	-

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).
2 bails per foot - small teflon bailer.
3 bails per foot - 3 / 4 " teflon bailer.
2.00 " well diameter = 0.49 gallons per foot of water.
4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All Wells = 1.25" well point . Collected BTEX samples for all MW 's listed above .

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AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6908*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-1***				
Sampled by:	REO	Date:	6/20/95	Time:	8:45
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 6/21/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6909*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-3***				
Sampled by:	REO	Date:	6/20/95	Time:	8:52
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 6/21/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6910*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-4***				
Sampled by:	REO	Date:	6/20/95	Time:	9:04
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	2.2	*0.2*
o-Xylene	ND	*0.2*
TOTAL	2.2 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DA
Date: 6/21/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6911*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-5***				
Sampled by:	REO	Date:	6/20/95	Time:	9:14
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaL
Date: 6/21/95

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6912*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-6***				
Sampled by:	REO	Date:	6/20/95	Time:	9:23
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 6/21/95

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AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6913*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-8***				
Sampled by:	REO	Date:	6/20/95	Time:	9:35
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Dale
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6914*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-9***				
Sampled by:	REO	Date:	6/20/95	Time:	9:44
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jack
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6915*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-10***				
Sampled by:	REO	Date:	6/20/95	Time:	9:53
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaL
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6916*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-11***				
Sampled by:	REO	Date:	6/20/95	Time:	10:04
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JaL
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6917*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-12***				
Sampled by:	REO	Date:	6/20/95	Time:	10:15
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2950*
Address:	*P.O. Box 87*	*Sample No.*	*6918*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-13***				
Sampled by:	REO	Date:	6/20/95	Time:	10:24
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2951*
Address:	*P.O. Box 87*	*Sample No.*	*6919*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-14***				
Sampled by:	REO	Date:	6/20/95	Time:	10:32
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 6/21/95

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	6/21/95
Company:	*Blagg Engineering*	*COC No.:*	*2951*
Address:	*P.O. Box 87*	*Sample No.*	*6920*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez GC C1/E1***				
Project Location:	***WP-15***				
Sampled by:	REO	Date:	6/20/95	Time:	10:42
Analyzed by:	DC	Date:	6/20/95		
Type of Sample:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	ND	*0.2*
Toluene	ND	*0.2*
Ethylbenzene	ND	*0.2*
m,p-Xylene	ND	*0.2*
o-Xylene	ND	*0.2*
	TOTAL 0.0 *ug/L*	

ND - Not Detectable

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Dale
Date: 6/21/95

CHAIN OF CUSTODY RECORD

2950

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 6-20-95

Page 1 of 2

Purchase Order No.:	Job No. AMOCO		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name R. E. O'NEILL	Title
Company BLAGG ENGINEERING	Dept.	Company SAME	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No. 7751

Sampling Location: JICARILLA GC C1/E1

Sampler: R. E. O'Neill

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
WP-1	6-20	0845	WATER	H_2SO_4	2	✓	6908-2950
WP-3	"	0852	"	"	2	✓	6909
WP-4	"	0904	"	"	2	✓	6910
WP-5	"	0914	"	"	2	✓	6911
WP-6	"	0923	"	"	2	✓	6912
WP-8	"	0935	"	"	2	✓	6913
WP-9	"	0944	"	"	2	✓	6914
WP-10	"	0953	"	"	2	✓	6915
WP-11	"	1004	"	"	2	✓	6916
WP-12	"	1015	"	"	2	✓	6917
WP-13	"	1024	"	"	2	✓	6918

Relinquished by: R. E. O'Neill	Date/Time 6-20 1222	Received by:	Date/Time 6/20/95 1222
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: R. E. O'Neill Date 6-20-95
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUSTODY RECORD

2951

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 6-20-95

Page 2 of 2

Purchase Order No.:	Job No. AMOCO		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name P. E. O'NEILL	Title
Company BLAGG ENGINEERING	Dept.	Company SAME	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

Sampling Location: JAQUEZ CC C1/E1

Sampler: P. E. O'NEILL

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
WP-14		1032			2	✓	6919-2951
WP-15		1042			2	✓	6920-2951

Relinquished by: P E O'Neill	Date/Time 6-20 1222	Received by:	Date/Time 6/20/95 1230
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

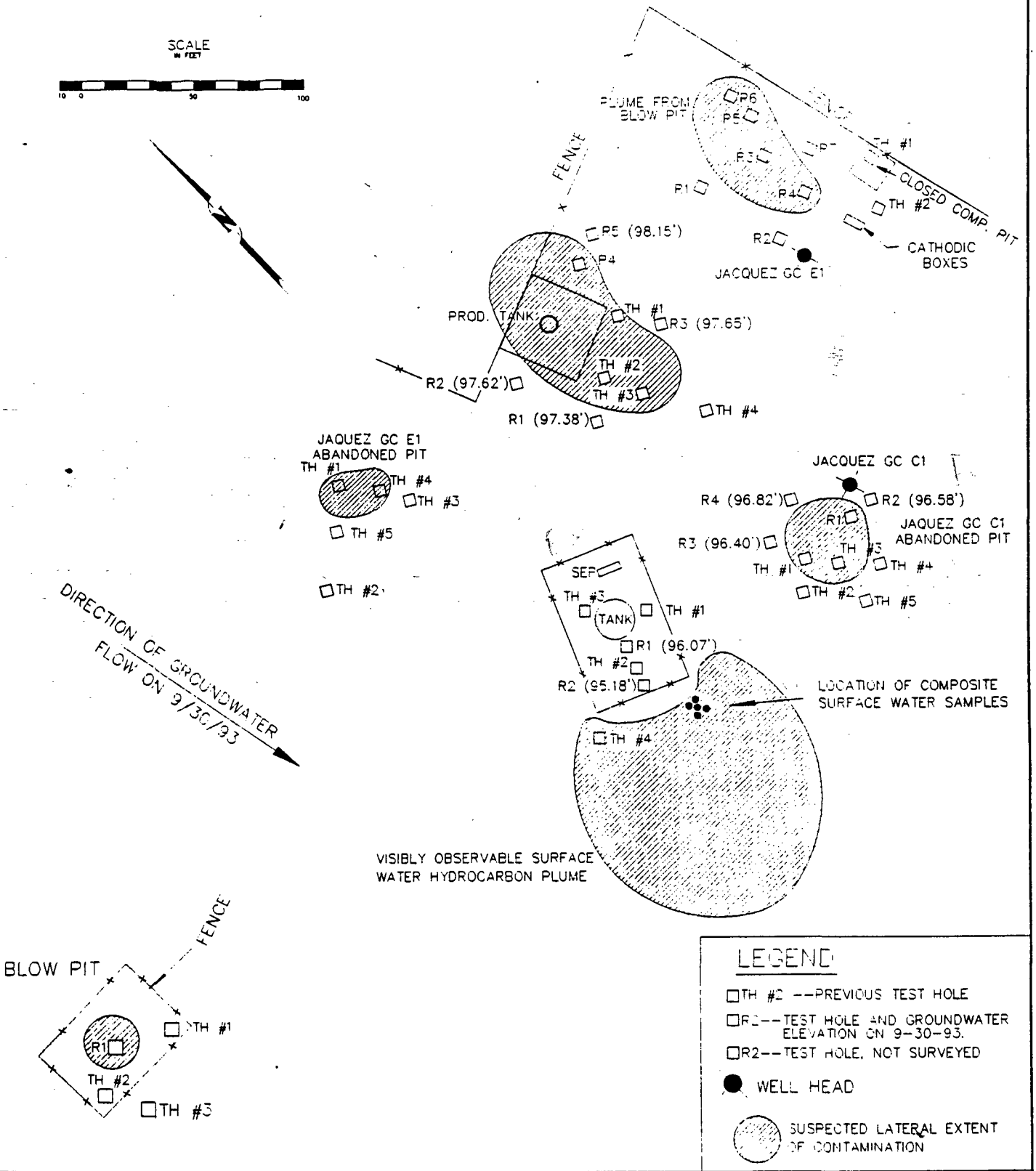
Method of Shipment:

Authorized by: P E O'Neill Date

(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client



SITE DIAGRAM
AMOCO PRODUCTION CO
JAQUEZ C1/E1 LOCATION
(O) 06-T29N-R09W

PROJECT NO. 92140

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

REV BY: RMY
REV DATE: 10/93
SURVEYED: 9/30/93
DATE DRAWN: 3-26-93
PROJECT MGR: RMY

SHEET # 1

ENVIROTECH Inc.

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

94805

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: EXCAVATION HOE #538

DATE STARTED: 3/16/93
DATE FINISHED: 3/17/93
ENVIRO. SPCLT: NV
OPERATOR: RW
ASSISTANT: JC

LOCATION: LSE: JACQUEZ WELL: GC E1 QD: (O) SW 4 SE 4
SEC: 6 TWP: 29N RNG: 9W PM: NM CNTY: SAN JUAN ST: NM PIT: ABANDONED
LAND USE: RANGE RESIDENTIAL
SURFACE CONDITIONS: CLEARED OUT NO VEGETATION LEACHED (WHITE)

FIELD NOTES & REMARKS: SOIL CONSISTS OF BLACK MOIST SAND @ T1 FROM 1' TO APPROX. 4½' INTERVAL. STRONG PETROLEUM ODOR. DUE TO TEST HOLE BEING DUG TOO DEEP INITIALLY, CAVING IN OCCURRED. UNABLE TO COLLECT GROUNDWATER SAMPLE @ T1. PLUME AREA APPEARS TO BE ISOLATED TO THE ORIGINAL PIT LOCATION. APPROXIMATE VOLUM OF CONTAMINATION EQUALS 25'X30'X4' (111 CUBIC YARDS). HA1-1' = 0.00 PPM HA2@2' = 0.6 PPM SEE SITE DIAGRAM FOR PIT LOCATION APPROXIMATED F. THE JACQUEZ HOUSE.

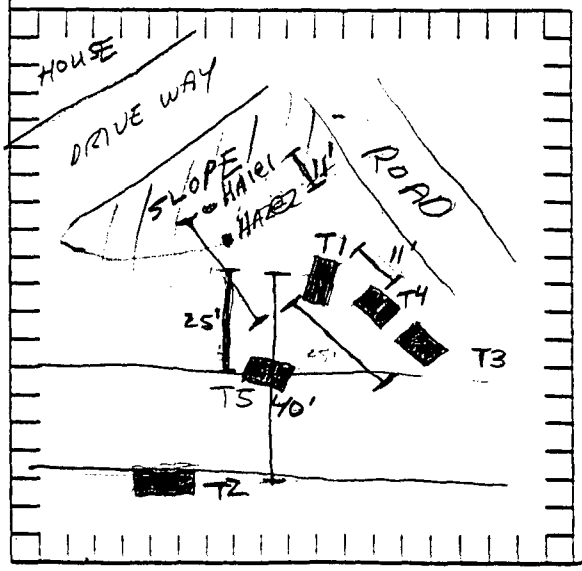
SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
TP@1.5	SOIL	BTEX/TPH
T1@GW	WATER	TPH-CHLOROFORM
T2@3'	SOIL	TPH
T2@GW	WATER	TPH
T2@GW	WATER	BTEX
T3@3'	SOIL	TPH/BTEX
T3@GW	WATER	TPH
T3@GW	WATER	BTEX

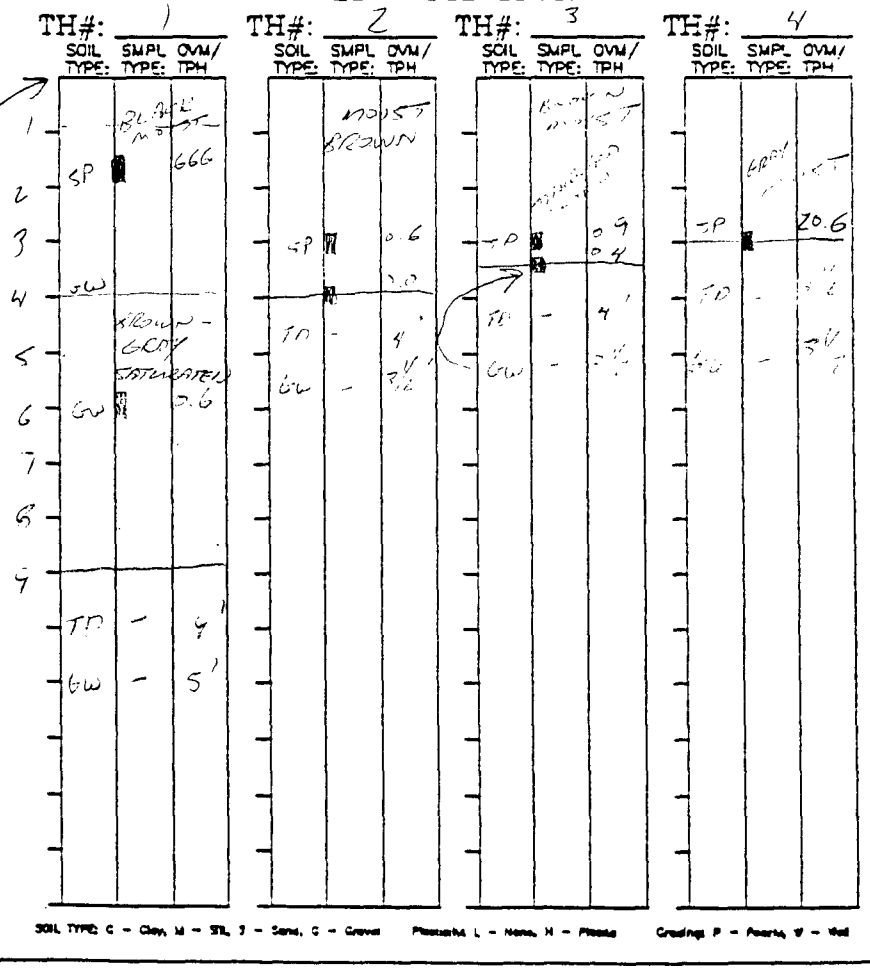
2464
2468

SCALE
0 FEET

SITE DIAGRAM



TEST HOLE LOGS:



ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0815

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 2 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED:

DATE STARTED: 3/16/93
DATE FINISHED: 3/17/93
ENVIRO. SPCLT: NV
OPERATOR: RW
ASSISTANT: TC

LOCATION: LSE: JAQUEZ WELL: 6C (E) QD:
SEC: TWP: RNG: PM: CNTY: ST: PIT: ABANDONED

LAND USE:
SURFACE CONDITIONS:

FIELD NOTES & REMARKS:

CONT'D

SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:

SCALE
0 FEET

SITE DIAGRAM

4 - 5" LAYER

TEST HOLE LOGS:

TH#: 5

SOIL TYPE:	SMPL TYPE:	OVM/TPH
SP		BACK 5.7
SP		2.1
		1.2
TD	-	5'
GW	-	4½'

TH#: ____ TH#: ____ TH#: ____

SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Sampled:	03-16-93
Laboratory Number:	4759	Date Received:	03-16-93
Sample Matrix:	Soil	Date Analyzed:	03-16-93
Preservative:	Cool	Date Reported:	03-16-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	26,200	250

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El 94805 Abandoned Pit

Analyst

Review

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:	T1 @ 1.5'	Date Reported:	03-16-93
Laboratory Number:	4759	Date Sampled:	03-16-93
Sample Matrix:	Soil	Date Received:	03-16-93
Preservative:	Cool	Date Extracted:	03-16-93
Condition:	Cool & Intact	Date Analyzed:	03-16-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3,720	167
Toluene	33,600	250
Ethylbenzene	12,300	167
p,m-Xylene	105,200	250
o-Xylene	10,800	167

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	109 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC E1, Abandoned Pit, 94805.

Analyst

Review

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:	T2 @ 3'	Date Reported:	03-17-93
Laboratory Number:	4760	Date Sampled:	03-16-93
Sample Matrix:	Soil	Date Received:	03-16-93
Preservative:	Cool	Date Extracted:	03-17-93
Condition:	Cool & Intact	Date Analyzed:	03-17-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	24.9	20.0
Toluene	55	26.7
Ethylbenzene	17.3	13.3
p,m-Xylene	69	20.0
o-Xylene	22.8	13.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC E1, Abandoned Pit, 94805.

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 3'	Date Sampled:	03-16-93
Laboratory Number:	4760	Date Received:	03-16-93
Sample Matrix:	Soil	Date Analyzed:	03-17-93
Preservative:	Cool	Date Reported:	03-17-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	10

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit
94805

Analyst

Review

ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ GW (4')	Date Sampled:	03-16-93
Laboratory Number:	4762	Date Received:	03-16-93
Sample Matrix:	Water	Date Analyzed:	03-17-93
Preservative:	Cool	Date Reported:	03-17-93
Condition:	Cool	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	ND	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit 94805

Sample container was not rinsed during analysis due to the large amount of solids present.

Analyst

Review

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:	T2 @ GW (4')	Date Reported:	03-17-93
Laboratory Number:	4761	Date Sampled:	03-16-93
Sample Matrix:	Water	Date Received:	03-16-93
Preservative:	HgCl & Cool	Date Analyzed:	03-17-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.4	0.3
Toluene	1.8	0.4
Ethylbenzene	1.2	0.2
p,m-Xylene	8.0	0.3
o-Xylene	2.5	0.2

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	110 %
Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC E1, Abandoned Pit, 94805.

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ 3'	Date Sampled:	03-17-93
Laboratory Number:	4779	Date Received:	03-17-93
Sample Matrix:	Soil	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit
94805

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (3.5')	Date Sampled:	03-17-93
Laboratory Number:	4781	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	ND	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Abandoned Pit
94805

Heidi Feltman
Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (3.5')	Date Reported:	03-18-93
Laboratory Number:	4780	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-17-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.8	0.3
Toluene	2.9	0.5
Ethylbenzene	3.3	0.4
p,m-Xylene	1.6	1.0
o-Xylene	2.4	0.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	109 %
Bromofluorobenzene	117 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC E1, Abandoned, 94805.

Analyst

Review

2468

CHAIN OF CUSTODY RECORD

94805

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	ABANDONED JAQUEZ GC E1	
Sampler: (Signature) Tom Coddington 95	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (418.1)	BTEX (8020)					Remarks
					or 3/17/93							
T3 @ 3'	3/17/93	0910	4779	SOIL	1	✓						
T3 @ GW (3.5')	3/17/93	0915	4780	WATER	2		✓					
T3 @ GW (3.5')	3/17/93	0910	4781	WATER	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	3/17/93	1530	Linda Pender	3-17-93	1530
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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san juan repro Form 578-81

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92806

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: EXTENDA-HOE #538

DATE STARTED: 3/17/93
DATE FINISHED: 3/17/93
ENVIRO. SPCLT: NV
OPERATOR: BW
ASSISTANT: TC

LOCATION: LSE: JAQUEZ WELL: GC C1 QD: SW/4 SE/4 (O)
SEC: 6 TWP: 27N RNG: 9W PM: NM CNTY: SAN JUAN ST: NM PIT: ABANDONED
LAND USE: RANGE AGRICULTURAL
SURFACE CONDITIONS: CLEARED OUT, NO VEGETATION

FIELD NOTES & REMARKS:

FREE PRODUCT IN WATER @ T3. REFER TO TEST HOLE LOGS FOR SOIL PROFILES FOR EACH TEST HOLE ADVANCED. CONTAMINATION OF SOIL APPEARS TO BE CONICAL IN FASHION. CENTER OF PIT PROBABLY LOCATED BETWEEN T1 & T3. APPROXIMATION VOLUME OF SOIL CONTAMINATION EQUALS 100 - 125 CUBIC YARDS

T1 LOCATED - 30 FT. WEST, 10 FT. SOUTH OF WELL HEAD.. RECALIBRATED OVM AFTER T3@ 2' (122). [illegible] STATE LOCATION WAS APPROXIMATELY WHERE SAMPLE WAS TAKEN. [illegible]

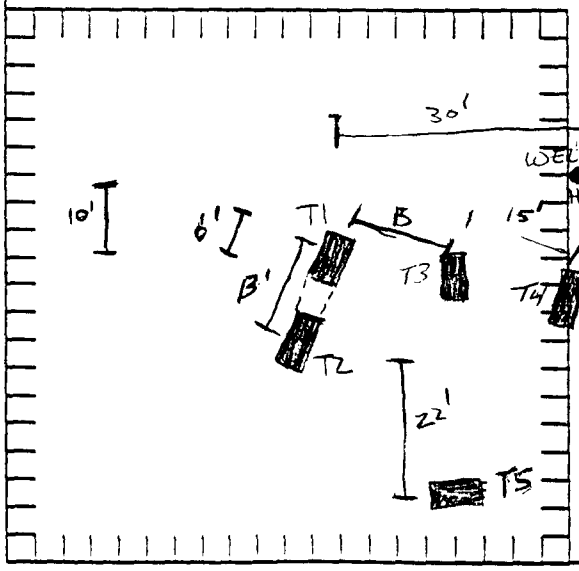
2469

SAMPLE INVENTORY:

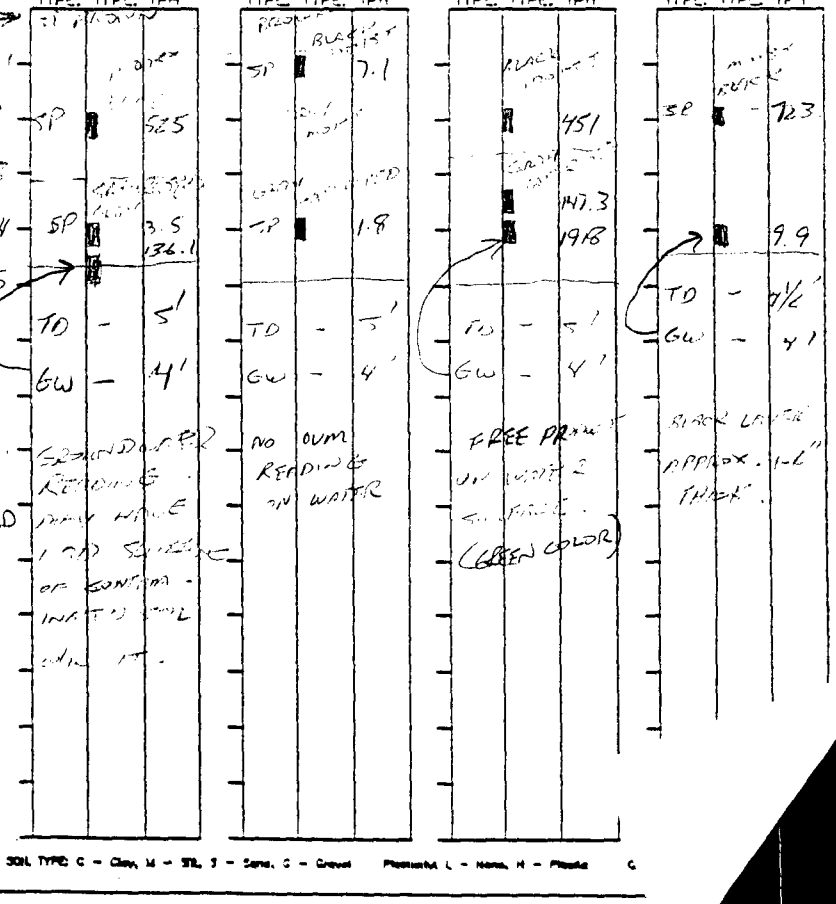
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T1@2	SOIL	TPH/BTEX
T2@		TPH
T3@		BTEX
3.5@(W)	WATER	BTEX
T4@5	SOIL	TPH
T5@GW	WATER	TPH
T5@GW	WATER	BTEX

SCALE
0 FEET

SITE DIAGRAM



TEST HOLE LOGS:



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FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 2 of 3

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED:

DATE STARTED: 3/17/93
DATE FINISHED: 3/17/93
ENVIRO. SPCLT: NV
OPERATOR: BW
ASSISTANT: TC

LOCATION: LSE: JAQUEZ WELL: 6C C1 QD:
SEC: TWP: RNG: PM: CNTY: ST: PIT: ABANDONED

LAND USE:
SURFACE CONDITIONS:

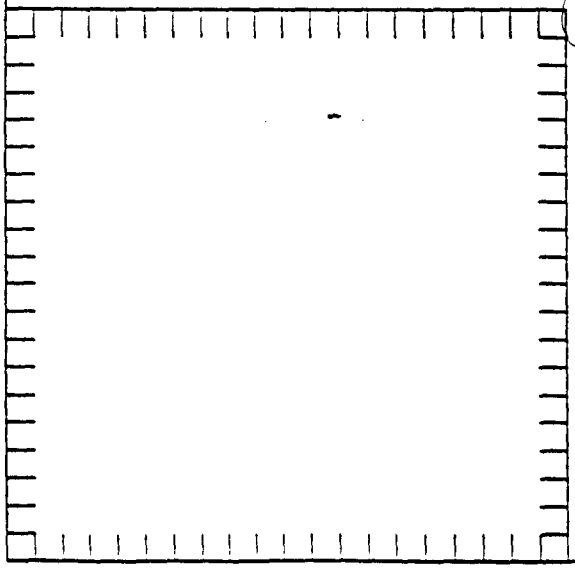
FIELD NOTES & REMARKS: CONT'D

SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:

SCALE
0 FEET

SITE DIAGRAM



TEST HOLE LOGS:

TH#: 5

SOIL TYPE:	SMPL TYPE:	OVM/TPH
	BLOW	
SP		34.2
	GRAB SAMPLED	
SP		2.2
		1.2

6 TD – 5'
GW – 4'

TH#: ____ TH#: ____ TH#: ____

SOIL TYPE: C = Clay, M = Silt, S = Sand, G = Gravel Moisture: L = None, H = Moist Groundwater: P = Absent, W = Wet

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 2'	Date Sampled:	03-17-93
Laboratory Number:	4782	Date Received:	03-17-93
Sample Matrix:	Soil	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	18,200	50

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC C1 Abandoned Pit
94806

Analyst

Review

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 2'	Date Reported:	03-18-93
Laboratory Number:	4782	Date Sampled:	03-17-93
Sample Matrix:	Soil	Date Received:	03-17-93
Preservative:	Cool	Date Extracted:	03-18-93
Condition:	Cool & Intact	Date Analyzed:	03-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	4,960	187
Toluene	16,800	373
Ethylbenzene	3,320	373
p,m-Xylene	45,300	840
o-Xylene	17,700	466

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	118 %
Bromofluorobenzene	122 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC C1, Abandoned, 94806.

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Reported:	03-18-93
Laboratory Number:	4784	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-17-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	2.2	0.3
Toluene	3.3	0.5
Ethylbenzene	2.8	0.4
p,m-Xylene	31.8	1.0
o-Xylene	7.0	0.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	105 %
Bromfluorobenzene	100 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC C1, Abandoned, 94806.

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Sampled:	03-17-93
Laboratory Number:	4783	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	29.7	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC C1 Abandoned Pit
94806

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ GW (4')	Date Reported:	03-18-93
Laboratory Number:	4785	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-18-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.1	0.3
Toluene	4.5	0.5
Ethylbenzene	5.1	0.4
p,m-Xylene	17.2	1.0
o-Xylene	2.0	0.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	108 %
Bromofluorobenzene	108 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC C1, Abandoned, 94806.

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T5 @ 3.5'	Date Reported:	03-18-93
Laboratory Number:	4786	Date Sampled:	03-17-93
Sample Matrix:	Soil	Date Received:	03-17-93
Preservative:	Cool	Date Extracted:	03-18-93
Condition:	Cool & Intact	Date Analyzed:	03-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	19.6
Toluene	48.0	39.2
Ethylbenzene	51	39.2
p,m-Xylene	132	88
o-Xylene	56	49.0

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	97 %
Bromofluorobenzene	95 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC C1, Abandoned, 94806.

Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T5 @ 3.5'	Date Sampled:	03-17-93
Laboratory Number:	4786	Date Received:	03-17-93
Sample Matrix:	Soil	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	7.7	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC Cl Abandoned Pit
94806

Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T5 @ GW (4')	Date Sampled:	03-17-93
Laboratory Number:	4787	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	1.3	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC Cl Abandoned Pit
94806

Sheila Fellmer
Analyst

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T5 @ GW (4')	Date Reported:	03-18-93
Laboratory Number:	4788	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-18-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.3
Toluene	ND	0.5
Ethylbenzene	0.5	0.4
p,m-Xylene	1.7	1.0
o-Xylene	0.5	0.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	93 %
Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC C1, Abandoned, 94806.

Analyst

Review

ENVIROTECH Inc.

COC 3068

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94506

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: HAND AUGER

DATE STARTED: 9/30/93
DATE FINISHED: 9/30/93
ENVIRO. SPCLT: RM4
OPERATOR: ——
ASSISTANT: PV

LOCATION: LSE: JAQUEZ GC WELL: C1 QD: SW/4 SE/4 (O)
SEC: 06 TWP: 29N RNG: 09W PM: NMPM CNTY: SJ ST: NM PIT: ABANDONED

LAND USE: RANGE- PRIVATE LEASE
SURFACE CONDITIONS: MINOR GRASSES.

FIELD NOTES & REMARKS: PREVIOUS ASSESSMENT ON 3/17/93 (TEST HOLES DRILLED ON SITE DELINEATING WITH A "T" designation) CONTAMINATION PLUME APPEARS TO BE BOUNDED ON 6 SIDES BY TEST HOLES T2, T5, T4, R2, R4, R3.

SAMPLE INVENTORY:

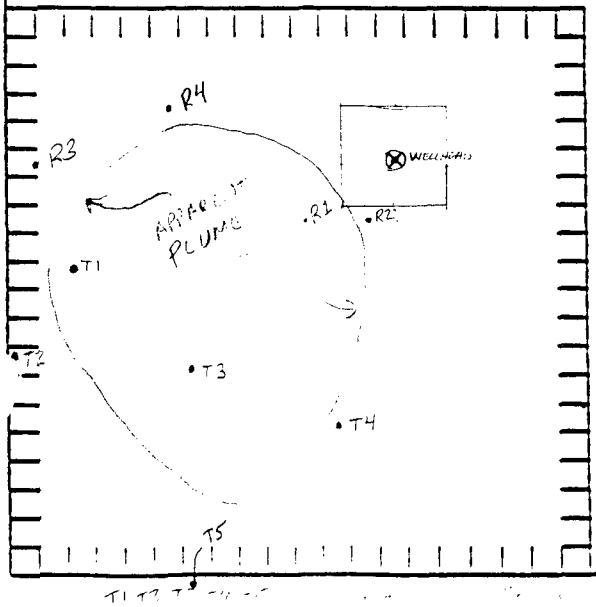
SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
R2@3'	SOIL	418.1
R2@5'	WATER	BTEX
R3@3'	SOIL	418.1
R3@5' W	WATER	BTEX
R4@3'	SOIL	418.1
R4@5' W	WATER	BTEX

SCALE
0 5 10 FEET

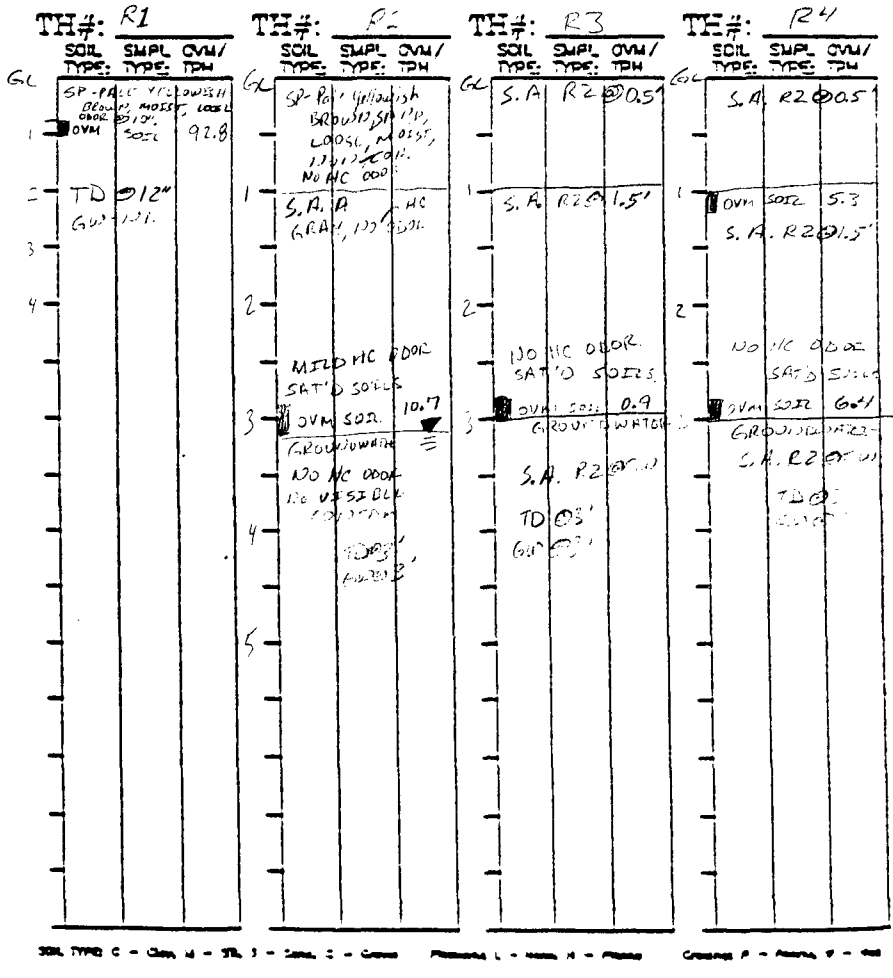
SURFACE FLOW AND SOIL SAMPLE LOCATIONS

N

SITE DIAGRAM



TEST HOLE LOGS:



ENVIROTECH Inc.

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(505) 632-0615

94807

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: EXTENDA-HOE #538

DATE STARTED: 3/17/95
DATE FINISHED: 3/17/95
ENVIRO. SPCLT: NV
OPERATOR: BW
ASSISTANT: JC

LOCATION: LSE: JAQUEZ WELL: 6C E1 QD: SW/4 SE/4 (O)
SEC: 6 TWP: 29N RNG: 9W PM: NM CNTY: SAN JUAN ST: NM PIT: COMPRESSOR ABANDON

LAND USE: RANGE / AGRICULTURAL
SURFACE CONDITIONS: CLEARED ONT PIT WAS CLOSED W/ONT ASSESSMENT OR VERIFICATION

FIELD NOTES & REMARKS: PIT DOES NOT APPEAR TO BE CONTAMINATED. GREEN-GRAY SAND/CLAY @ T1 MAY HAVE RESULTED FROM A TUBE OF GREASE BURIED DURING CLOSING OR DRILLING OF WELL. RECOMMEND CLOSING AS IS.

PIT LOCATION: 30 FT. NORTH, 45 FT. EAST OF WELL HEAD.
DRILLING MUD PUMPED IN PIT

2470

SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T1 @ 1.5'	SOIL	TPH/BTEX
T1 @ GW	WATER	TPH
T2 @ GW	WATER	BTEX

TEST HOLE LOGS:

TH#: 1

SOIL TYPE:	SMPL TYPE:	OVM/TPH
SP		7.0
SP		118.1
		5.4
TD	-	5'
GW	-	4'

TH#: 2

SOIL TYPE:	SMPL TYPE:	OVM/TPH
SP		0.0
		2.2
TD	-	5'
GW	-	5'

TH#: 3

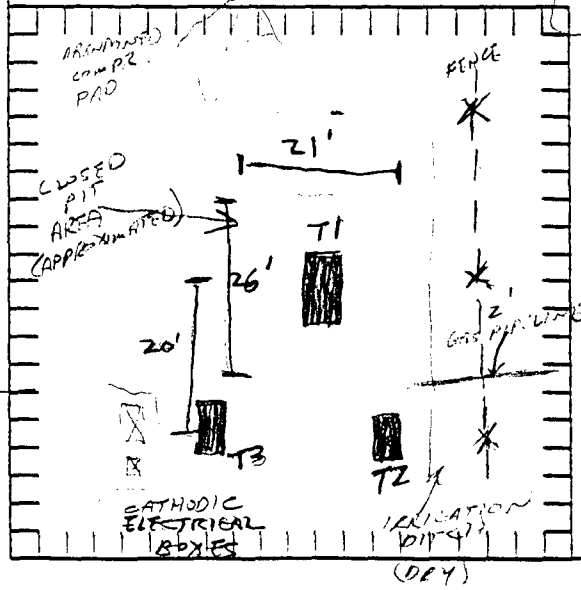
SOIL TYPE:	SMPL TYPE:	OVM/TPH
SG		9.9
		9.3
TD	-	4'
GW	-	4'

TH#: ____

SOIL TYPE:	SMPL TYPE:	OVM/TPH

SCALE
0 FEET

SITE DIAGRAM



SOIL TYPE: C - Clay, M - Silt, S - Sand, G - Gravel Plasticity: L - Non, M - Plastic Cavings: F - Abund, W - Wall

ENVIROTECH LABS

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Sampled:	03-17-93
Laboratory Number:	4789	Date Received:	03-17-93
Sample Matrix:	Soil	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	42.5	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Compr. Abandoned Pit 94807

Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 1.5'	Date Reported:	03-18-93
Laboratory Number:	4789	Date Sampled:	03-17-93
Sample Matrix:	Soil	Date Received:	03-17-93
Preservative:	Cool	Date Extracted:	03-18-93
Condition:	Cool & Intact	Date Analyzed:	03-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	20.1
Toluene	54	40.2
Ethylbenzene	ND	40.2
p,m-Xylene	172	90
o-Xylene	ND	50.2

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	103 %
Bromofluorobenzene	85 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC E1, Compressor Abandoned, 94807.

Analyst

Review

ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Reported:	03-18-93
Laboratory Number:	4791	Date Sampled:	03-17-93
Sample Matrix:	Water	Date Received:	03-17-93
Preservative:	HgCl and Cool	Date Analyzed:	03-18-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	3.3	0.2
Toluene	3.7	0.4
Ethylbenzene	ND	0.4
p,m-Xylene	8.3	0.9
o-Xylene	1.6	0.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	76 %
Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC E1, Compressor Abandoned, 94807.

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	Tl @ GW (4')	Date Sampled:	03-17-93
Laboratory Number:	4790	Date Received:	03-17-93
Sample Matrix:	Water	Date Analyzed:	03-18-93
Preservative:	Cool	Date Reported:	03-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	0.8	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC El Compr. Abandoned Pit 94807

Sheila Feltman
Analyst

Review

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0815

94808

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: EXTENDA-HOE

DATE STARTED: 3/18/93
DATE FINISHED: 3/18/93
ENVIRO. SPCLT: NV
OPERATOR: BW
ASSISTANT: TC

LOCATION: LSE: JAQUEZ WELL: 6C C1 QD: SW/4 SE/4 (O)
SEC: 6 TWP: 29N RNG: 9W PM: NM CNTY: SAN JUAN ST: NM PIT: PROD.

LAND USE: RANGE / AGRICULTURAL
SURFACE CONDITIONS: STAINED SOIL IN OVERFLOW DITCH AROUND TANK.

FIELD NOTES & REMARKS: CONTAMINATION IN THE VICINITY OF THE PRODUCTION TANK APPEARS TO BE EXTENSIVE. CONTAMINATION IN THE SOIL APPROX. 4' THICK STARTING AT THE GROUND SURFACE. THEREFORE IT SEEMS THAT AN EXTENSIVE OVERFLOW MAY HAVE OCCURRED AT SOME POINT IN TIME. FURTHER INVESTIGATION IS RECOMMENDED TO DELINEATE ACTUAL AREA IN THE EAST & WEST DIRECTION.

PIT LOCATION: 100 FT. NORTH, 80 FT. WEST OF WELL HEAD

FREE PRODUCT IN GW @ T1 & T2

2474

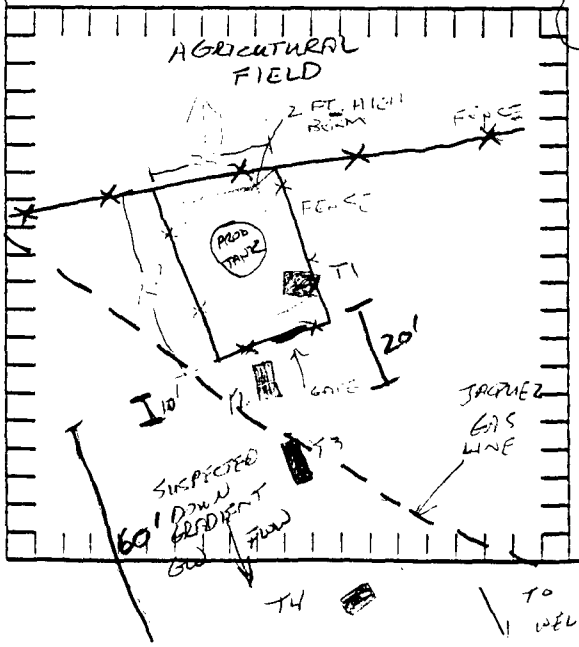
SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
T1@ 2'	SOIL	TPH/BTEX
T1@GW(4')	WATER	BTEX
T1@GW(4')	WATER	TPH
T4@2'	SOIL	TPH
T4@GW(4')	WATER	BTEX
T4@GW(4')	WATER	TPH

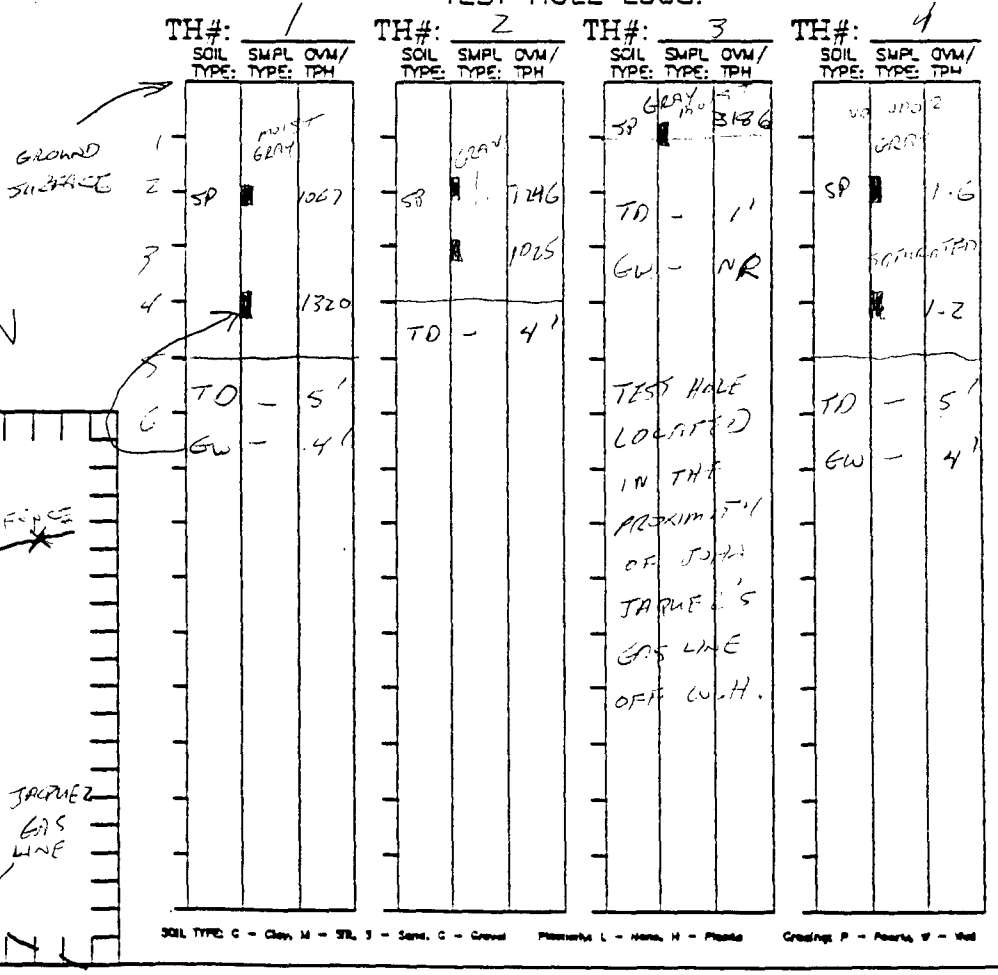
SCALE
0 FEET

N

SITE DIAGRAM



TEST HOLE LOGS:



ENVIROTECH Inc.

CoC 3067

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

94808

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 1

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH INC.
EQUIPMENT USED: HAND AUGER

DATE STARTED: 9-30-93
DATE FINISHED: 9-30-93
ENVIRO. SPCLT: RMY
OPERATOR: —
ASSISTANT: PV

LOCATION: LSE: Jaquez GC WELL: C1 QD: SW/4 SE/4 (O)
SEC: 06 TWP: 29N RNG: 09W PM: NMPM CNTY: SJ ST: NM PIT: PROD

LAND USE: RANGE / PRIVATE LEASE
SURFACE CONDITIONS: 8"-12" GRASSES, NO SURFACE STAINING

FIELD NOTES & REMARKS: PREVIOUS ASSESSMENT PERFORMED 3/18/93, HOLES DENOTED AS "T"

CONTAMINATION PLUME APPEARS TO BE BOUNDED ON FOUR SIDES BY R1, R2, R3, R5.

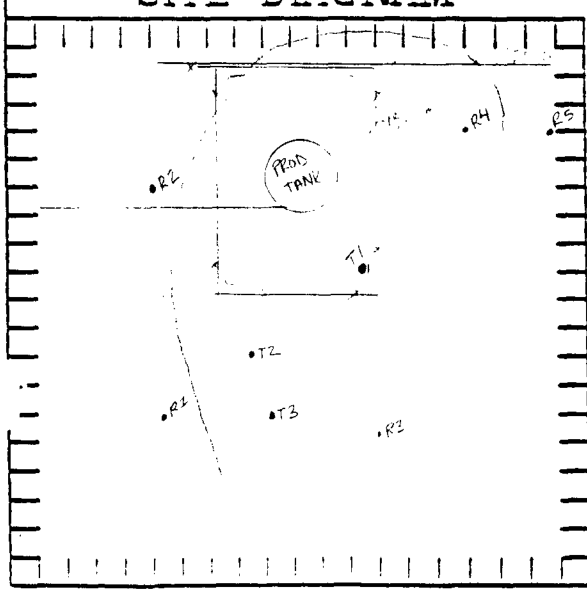
SAMPLE INVENTORY:

SMPL ID:	SMPL TYPE:	LABORATORY ANALYSIS:
R1@1.5'	SOIL	418.1
R1@[illegible]	WATER	BTEX
R2@1.5'	SOIL	418.1
R2@[illegible]	WATER	BTEX
R4@4'	[illegible]	[illegible]
R4[illegible]	WATER	BTEX
R3@24"	SOIL	418.1
R3@GW	WATER	BTEX

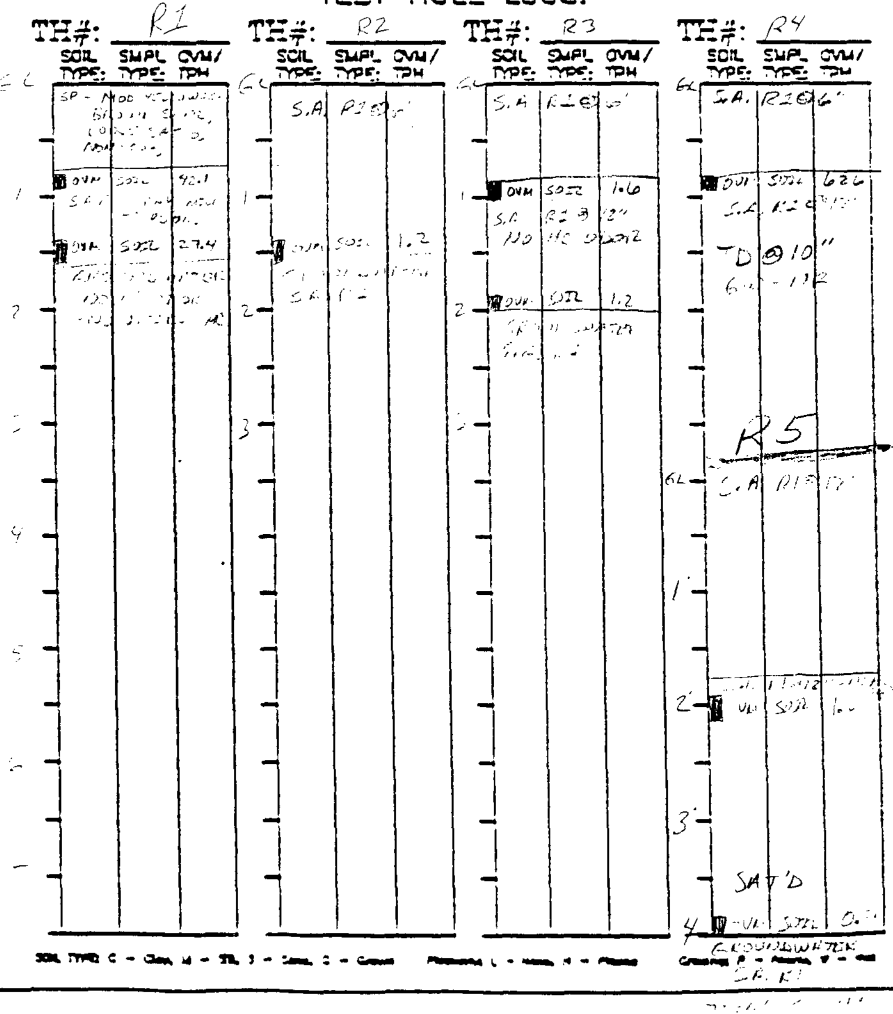
SCALE
0 20 FEET

N

SITE DIAGRAM



TEST HOLE LOGS:



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 2'	Date Sampled:	03-18-93
Laboratory Number:	4797	Date Received:	03-18-93
Sample Matrix:	Soil	Date Analyzed:	03-19-93
Preservative:	Cool	Date Reported:	03-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	8,880	25.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC C1 Prod. Pit
94808

Analyst

Review

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:	T1 @ 2'	Date Reported:	03-23-93
Laboratory Number:	4797	Date Sampled:	03-18-93
Sample Matrix:	Soil	Date Received:	03-18-93
Preservative:	Cool	Date Extracted:	03-22-93
Condition:	Cool & Intact	Date Analyzed:	03-23-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,800	149
Toluene	6,300	198
Ethylbenzene	3,310	149
p,m-Xylene	105,800	397
o-Xylene	10,600	198

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	117 %
Bromofluorobenzene	102 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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: Jaquez GC C1, Production Pit, 94808.

Analyst

Review

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:	T1 @ GW (4')	Date Reported:	03-19-93
Laboratory Number:	4798	Date Sampled:	03-18-93
Sample Matrix:	Water	Date Received:	03-18-93
Preservative:	HgCl & Cool	Date Analyzed:	03-19-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	10.5	0.3
Toluene	36.0	0.3
Ethylbenzene	21.0	0.3
p,m-Xylene	347	0.4
o-Xylene	11.5	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	108 %
Bromofluorobenzene	107 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC C1, Production Pit, 94808.

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ GW (4')	Date Sampled:	03-18-93
Laboratory Number:	4799	Date Received:	03-18-93
Sample Matrix:	Water	Date Analyzed:	03-19-93
Preservative:	Cool	Date Reported:	03-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	247	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC Cl Prod. Pit
94808

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T4 @ 2'	Date Sampled:	03-18-93
Laboratory Number:	4800	Date Received:	03-18-93
Sample Matrix:	Soil	Date Analyzed:	03-19-93
Preservative:	Cool	Date Reported:	03-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	14.2	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC Cl Prod. Pit
94808

Analyst

Review

ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T4 @ GW (4')	Date Sampled:	03-18-93
Laboratory Number:	4802	Date Received:	03-18-93
Sample Matrix:	Water	Date Analyzed:	03-19-93
Preservative:	Cool	Date Reported:	03-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	ND	0.5

Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez GC Cl Prod. Pit
94808

Analyst

Review

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:	T4 @ GW (4')	Date Reported:	03-19-93
Laboratory Number:	4801	Date Sampled:	03-18-93
Sample Matrix:	Water	Date Received:	03-18-93
Preservative:	HgCl & Cool	Date Analyzed:	03-19-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	2.0	0.3
p,m-Xylene	1.7	0.4
o-Xylene	1.1	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	86 %
Bromofluorobenzene	100 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: Jaquez GC C1, Production Pit, 94808.

Analyst

Review

C4806

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JAQUEZ GC C # 1
Well Name

Location: Unit or Qtr/Qtr Sec O Sec 6 T 29N R 9W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other ABANDONED

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 35', width 60', depth 1½'
Reference: wellhead X, other ___
Footage from reference: 39'
Direction from reference: 40 Degrees ___ East North ___ of X West South X

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)	20
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)	0
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)	10
	RANKING SCORE (TOTAL POINTS):	30

C4806 ABANDONED PIT

Date Remediation Started: _____ **Date Completed:** 12/9/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 150

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite X NYE GC B #1E (F-7-29-9)

General Description Of Remedial Action: Excavation. GROUNDWATER IMPACTED.

Ground Water Encountered: No ___ Yes X Depth 1.5'

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 1.5' (GROUNDWATER)

Sample date 12/8/93 Sample time 1320

Sample Results

Benzene (~~ppm~~ ppb) 0.4

TOLUENE 2.0 ppb
ETHYLBENZENE ND "
TOT. XYLENE 8.3 "

Total BTEX (ppm) NA

Field headspace (ppm) NA

TPH NA

Ground Water Sample: Yes X 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 1/25/00 BJS

SIGNATURE BJ Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

ENVIROTECH Inc.

C 4806

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

COCR 3258

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: JAQUEZ GC WELL #: 1 QD: SW/4 SE/4 (O)
SEC: 6 TWP: 29N RNG: 9W BM: NM CNTY: SAN JUAN ST: NM PIT: ABANDONED
CONTRACTOR: P. VELASQUEZ
EQUIPMENT USED: TRACKHOE

DATE STARTED: 12/8/93
DATE FINISHED: 12/8/93

ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION: QUANTITY: 60' X 35' X 1½' 150 C.Y.
DISPOSAL FACILITY: ~~UNKNOWN~~ NYE GC B #1E (F-7-29-9)
LAND USE: RANGE
SURFACE CONDITIONS: UNKNOWN (SEE SITE ASSESSMENT)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 13 YARDS S 40° W FROM WELLHEAD.
DEPTH TO GROUNDWATER: 14.1
NEAREST WATER SOURCE: ~~5300'~~ >1000' 9IT 1/25/00
NEAREST SURFACE WATER: < 300'

COLLECTED GW SAMPLE FOR BTEX.
SLIGHT SHEEN ON GW SURFACE.

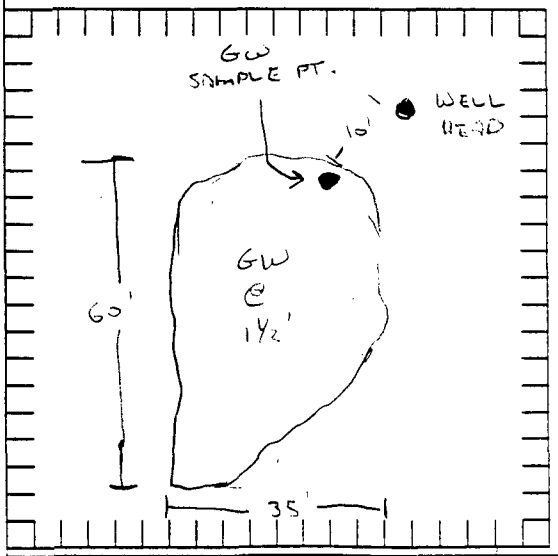
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FEET

N

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

PIT PROFILE

TRAVEL NOTES: CALLOUT: 12/5/93 ONSITE: 12/8/93

F 10

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 (1.5')	Date Reported:	12-09-93
Laboratory Number:	6646	Date Sampled:	12-08-93
Sample Matrix:	Water	Date Received:	12-08-93
Preservative:	HgCl and Cool	Date Analyzed:	12-09-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.4	0.2
Toluene	2.0	0.6
Ethylbenzene	ND	0.3
p,m-Xylene	6.9	0.4
o-Xylene	1.4	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	99 %
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: Jaquez GC C #1 Abandoned Pit C4806

Analyst

Review

3258

CHAIN OF CUSTODY RECORD

C4806

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
AMOCO 92140	ABANDONED PIT JAQUEZ GC C #1	
Sampler: (Signature) Nelson Velez	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
PIT WATER (1½')	12/8/93	1320	6646	WATER	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	12/8/93	1537	Denise L. Spencer	12-8-93	1537
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

C4808

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: JAQUEZ GC C #1

Location: Unit or Qtr/Qtr Sec O Sec 6 T29N R9W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other PRODUCTION TANK

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 20', width 90', depth 2½'
Reference: wellhead X, other ___
Footage from reference: 125'
Direction from reference: 30 Degrees X East North ___ of ___ West South X

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)	20
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)	0
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)	10
	RANKING SCORE (TOTAL POINTS):	30

C4808 PROD. TANK PIT

Date Remediation Started: _____ **Date Completed:** 12/14/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 167

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite X NYE GC B #E (F-7-29-9).

General Description Of Remedial Action: Excavation, GROUNDWATER IMPACT.

Ground Water Encountered: No ___ Yes X Depth 2.5'

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 2.5' (GROUNDWATER)

Sample date 12/8/93 & 12/13/93 Sample time 1340/1415

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) NA

Field headspace(ppm) NA

TPH NA

	12/8/93		12/13/93	
BENZENE	34.1	ppb	4.5	ppb
TOLUENE	2.4	"	2.7	"
ETHYLBENZ.	ND	"	ND	"
TOT. XYLENES	160.2	"	99.7	"

Ground Water Sample: Yes X 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 1/25/00

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw ENVIRONMENTAL COORDINATOR

ENVIROTECH Inc.

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

C4808
COCR 3276 12/15/93
COCR 3260

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 9214.3
PAGE No: 1 of 1

LOCATION: LEASE: JAQUEZ GC WELL #: 1 QD: SW 4 SE 4 (O)
SEC: 6 TWP: 29N RNG: 9W BM: NM CNTY: SAN JUAN ST: NM PIT: PROD.
CONTRACTOR: P. VELASQUEZ
EQUIPMENT USED: TRACKHOE

DATE STARTED: 12/8/93
DATE FINISHED: 12/9/93
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION: QUANTITY: 90' x 20' x 2½'
DISPOSAL FACILITY: ~~UNKNOWN~~ NYE GC B #1E (F-7-29-9)
LAND USE: RANGE
SURFACE CONDITIONS: UNDISTURBED (SEE SITE ASSESS. FIELD REPORT

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 42 YARDS S 32° E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 2.5'
NEAREST WATER SOURCE: ~~5,280'~~ >1000' 9W 11/25/00
NEAREST SURFACE WATER: < 300'

COLLECTED GW SAMPLE FOR BTEX

SLIGHT SHEEN ON GW SURFACE IN SAMPLE PT.

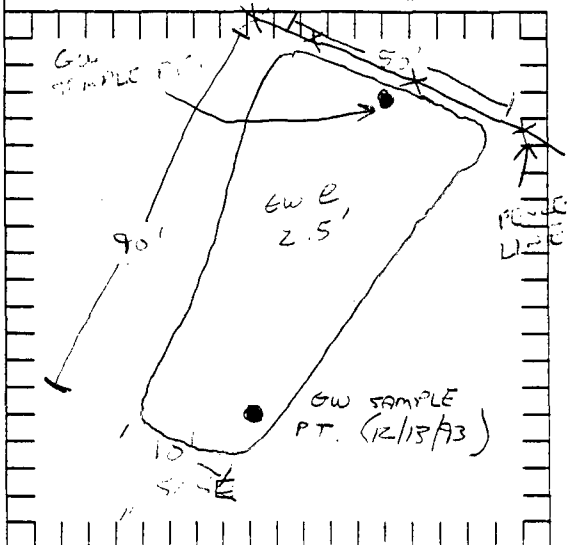
COLLECTED GW SAMPLE FOR BTEX (12/13/93 1415-TIME SOUTHEND).

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FEET

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

PIT PROFILE

TRAVEL NOTES: CALLOUT: 12/8/93 ONSITE: 12/8/93

P 68

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 (2.5')	Date Reported:	12-09-93
Laboratory Number:	6648	Date Sampled:	12-08-93
Sample Matrix:	Water	Date Received:	12-08-93
Preservative:	HgCl and Cool	Date Analyzed:	12-09-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	34.1	0.2
Toluene	2.4	0.6
Ethylbenzene	ND	0.3
p,m-Xylene	147	0.4
o-Xylene	13.2	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	100 %
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: Jaquez GC C #1 Production Pit C4808

Analyst

Review

ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Pit Water	Date Reported:	12-14-93
Laboratory Number:	6663	Date Sampled:	12-13-93
Sample Matrix:	Water	Date Received:	12-13-93
Preservative:	HgCl & Cool	Date Analyzed:	12-14-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	4.5	0.2
Toluene	2.7	0.5
Ethylbenzene	ND	0.3
p,m-Xylene	96	0.4
o-Xylene	3.7	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	97 %
Bromofluorobenzene	97 %

Method: Method 5030, 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: Jaquez GC C #1 Production Pit C4808

Analyst

Review

3260

CHAIN OF CUSTODY RECORD

C4808

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	Prod. Pit Jaquez GC C #1	
Sampler: (Signature) Nelson Velez	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
Pit water (2½')	12/8/93	1340	6648	water	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	12/8/93	1541	Denise L. Cyrier	12-8-93	1541
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
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Farmington, New Mexico 87401
(505) 632-0615

3276

CHAIN OF CUSTODY RECORD

C4808

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	PROD. PIT JAQUEZ GC C #1	
Sampler: (Signature) William Vela	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
PIT WATER	12/13/93	1415	6663	WATER	2	✓						SOUTH END

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
William Vela	12/13/93	1455	Tony Tristano	12/13/93	1500
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

C4344

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JAQUEZ GC C #1
Well Name

Location: Unit or Qtr/Qtr Sec O Sec 6 T 29N R 9W County SAN JUAN

Pit Type: Separator X Dehydrator ___ Other ___

Land Type: BLM ___, State ___, Fee X, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 80', width 45', depth 2'
Reference: wellhead X, other ___
Footage from reference: 150'
Direction from reference: 80 Degrees ___ East ___ North of X West X 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)	20
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)	0
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)	10
	RANKING SCORE (TOTAL POINTS):	30

C4344 SEP. PIT

Date Remediation Started: _____ **Date Completed:** 12/9/93

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 267

Landfarmed ___ Insitu Bioremediation ___

Other STOCKPILED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite X NYE GC B #1E (F-7-29-9)

General Description Of Remedial Action:

Excavation. GROUNDWATER IMPACT.

Ground Water Encountered: No ___ Yes X Depth 2'

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 2' (GROUNDWATER)

Sample date 12/8/93 Sample time 1330

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) NA

Field headspace(ppm) NA

TPH NA

BENZENE	4.0	ppb
TOLUENE	3.2	"
ETHYLBENZ.	0.5	"
TOT. XYLENES	8.5	"

Ground Water Sample: Yes X 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 1/25/00 BDS

SIGNATURE B J Shaw PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

C4344

ENVIROTECH Inc.

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

COCR 3259

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 9240
PAGE No: 1 of 1

LOCATION: LEASE: JAQUEZ GC WELL: C #1 QD: SW/4 SE/4 (O)
SEC: 6 TWP: 29N RNG: 9W BM: NM CNTY: SAN JUAN ST: NM PIT: SEP.
CONTRACTOR: P. VELASQUEZ
EQUIPMENT USED: TRACKHOE

DATE STARTED: 12/8/93
DATE FINISHED: 12/8/93
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION: QUANTITY: 80' x 45' x 2' 267 C.Y.
DISPOSAL FACILITY: ~~UNKNOWN~~ NYE GC B #1E (F-7-29-9)
LAND USE: RANGE
SURFACE CONDITIONS: UNKNOWN (SEE SITE ASSESS. FIELD REPORT)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 50 YARDS S 80° W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 2.5'
NEAREST WATER SOURCE: < 300'
NEAREST SURFACE WATER: < 300'

COLLECTED GW SAMPLE FOR BTEX
SLIGHT SHEEN ON GW SURFACE

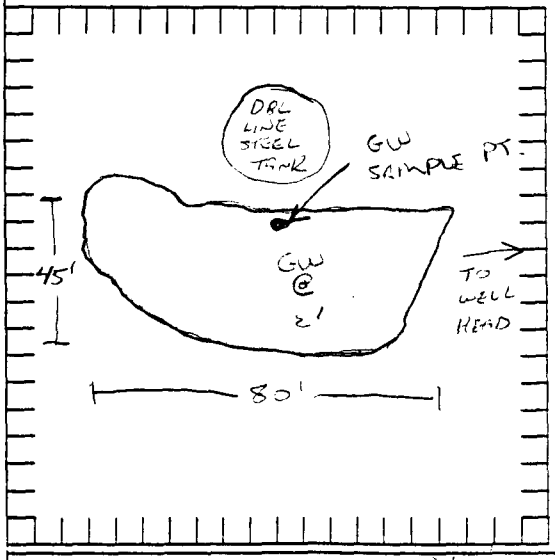
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FEET

N

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

PIT PROFILE

TRAVEL NOTES: CALLOUT: 12/7/93 ONSITE: 12/8/93

RC

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 (2')	Date Reported:	12-09-93
Laboratory Number:	6647	Date Sampled:	12-08-93
Sample Matrix:	Water	Date Received:	12-08-93
Preservative:	HgCl and Cool	Date Analyzed:	12-09-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	4.0	0.2
Toluene	3.2	0.6
Ethylbenzene	0.5	0.3
p,m-Xylene	7.0	0.4
o-Xylene	1.5	0.3

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Trifluorotoluene	95 %
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: Jaquez GC C #1 Separator Pit C4344

Analyst

Review

3259

CHAIN OF CUSTODY RECORD

C4344

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Amoco 92140	SEP PIT JAQUEZ GC C#1	
Sampler: (Signature) Nelson Velez	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX (8020)						Remarks
PIT WATER (2')	12/8/93	1330	6647	WATER	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	12/8/93	1539	Denise L. Spencer	12-8-93	1539
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

BLAGG ENGINEERING, INC.

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

June 29, 1994

Mr. William C. Olson
Hydrogeologist
Environmental Bureau
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

RE: Groundwater sampling
Amoco Production Company
Jaquez GC C1/E1 Well Locations
San Juan County, New Mexico
Unit O, Section 06, T29N, R09W

Dear Mr. Olson:

Per the instructions of Mr. Buddy Shaw, Amoco Production Company, the attached report on groundwater monitoring at the above referenced well locations is being submitted for your review. A copy of this report is also being submitted to Mr. Denny Foust at the Aztec OCD office. Please refer to the original report submitted to you with a March 25, 1994 cover letter for additional information.

Table 1 summarizes all sampling results since initial installation of 15 wellpoints in March 1994. The wellpoints were installed after contaminated pits were excavated for site remediation. Additional excavation was done in the area of wellpoint #7 after initial sampling was completed to remove a small area of remaining contamination. Wellpoint #7 was destroyed in the process. The attached site diagram also indicates the most recent groundwater elevations.

If you have any questions or comments concerning this report, please contact Blagg Engineering at 632-1199.

Respectfully submitted,
Blagg Engineering, Inc.

Robert E. O'Neill

Robert E. O'Neill, M.S.
Civil Engineering, Environmental

Attachments: Table 1 - Sample Results
Site Diagram
Laboratory Reports

xc: Buddy Shaw, Amoco
Denny Foust, NMOCD Aztec Office

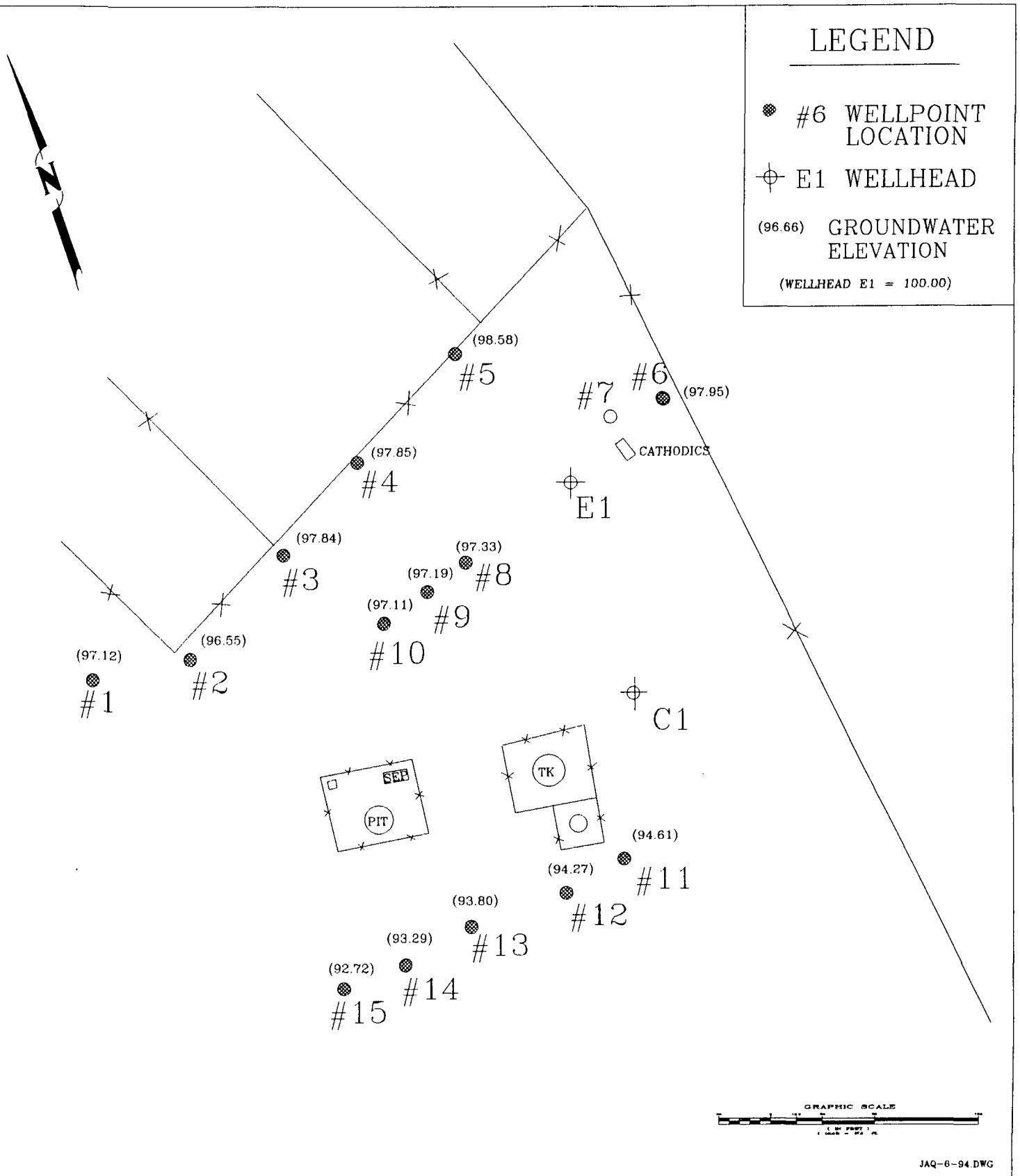
REO/reo

JAQ-6-94.RPT

TABLE 1
AMOCO PRODUCTION COMPANY
JAQUEZ GC C1/E1
GROUNDWATER SAMPLING

June 29, 1994

WELL POINT	DATE	pH	COND. umhos/cm	BENZENE ug/L	TOLUENE ug/L	E-BENZENE ug/L	T-XYLENE ug/L
#1	3-4-94	7.6	900	ND	0.8	ND	1.3
	6-15-94	6.9	700	0.8	ND	ND	ND
#2	3-4-94	7.1	300	ND	0.7	ND	0.6
	6-15-94	7.2	500	ND	ND	ND	ND
#3	3-4-94	7.5	300	ND	0.5	ND	0.6
	6-15-94	7.0	500	ND	ND	ND	ND
#4	3-4-94	7.2	400	ND	1.4	ND	2.0
	6-15-94	7.0	500	ND	ND	ND	ND
#5	3-4-94	7.5	400	ND	ND	ND	ND
	6-15-94	7.0	600	ND	ND	ND	ND
#6	3-4-94	7.3	400	ND	0.7	ND	ND
	6-15-94	7.1	500	ND	1.1	ND	1.4
#7	3-4-94	7.5	500	2.6	0.8	0.9	700.0
#8	3-4-94	7.3	400	ND	ND	ND	0.8
	6-15-94	7.0	500	ND	ND	ND	ND
#9	3-4-94	7.4	2100	1.2	0.7	0.4	20.0
	6-15-94	7.0	800	8.4	1.8	2.7	46.2
#10	3-4-94	7.2	500	0.7	ND	ND	151.0
	6-15-94	7.1	400	ND	ND	ND	16.0
#11	3-4-94	7.4	600	ND	ND	ND	0.7
	6-15-94	7.2	400	ND	ND	ND	ND
#12	3-4-94	7.4	300	ND	ND	ND	ND
	6-15-94	7.3	400	0.8	0.6	ND	ND
#13	3-4-94	7.5	500	ND	ND	ND	1.1
	6-15-94	7.3	600	1.0	1.0	0.4	ND
#14	3-4-94	7.4	400	ND	0.9	1.6	19.7
	6-15-94	7.8	400	ND	ND	ND	ND
#15	3-4-94	7.5	400	ND	ND	0.3	0.4
	6-15-94	7.6	400	ND	ND	ND	ND



JAQ-6-94.DWG

AMOCO PRODUCTION COMPANY JAQUEZ C1/E1 (O) S06-T29N-R09W	BLAGG ENGINEERING, INC. P.O. BOX 87 BLOOMFIELD, NM 87413 PHONE: 632-1199 FAX: 632-3903	WELL LOCATIONS G.W. ELEVATIONS FIGURE #1 | DRWN: 3/94 P.M: REO | REV'D 6/94

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1669*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 1***				
Sampled by:	REO	Date:	6/15/94	Time:	8:30
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*0.8*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.8 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

***Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
3005 NORTHRIDGE DRIVE ▪ SUITE F ▪ P. O. BOX 2606 ▪ FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1670*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 2***				
Sampled by:	REO	Date:	6/15/94	Time:	8:50
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jan Gl
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1671*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 3***				
Sampled by:	REO	Date:	6/15/94	Time:	9:10
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

***Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DLA
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1672*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 4***				
Sampled by:	REO	Date:	6/15/94	Time:	9:45
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DLA
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1673*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 5***				
Sampled by:	REO	Date:	6/15/94	Time:	10:10
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JaC
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1674*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 6***				
Sampled by:	REO	Date:	6/15/94	Time:	10:30
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	****Measured Concentration ug/L***
Benzene	*ND*
Toluene	*1.1*
Ethylbenzene	*ND*
m,p-Xylene	*1.4*
o-Xylene	*ND*
TOTAL	*2.5 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
3005 NORTHRIDGE DRIVE ▪ SUITE F ▪ P. O. BOX 2606 ▪ FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1676*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 8***				
Sampled by:	REO	Date:	6/15/94	Time:	11:00
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1677*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 9***				
Sampled by:	REO	Date:	6/15/94	Time:	11:20
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	****Measured Concentration ug/L***
Benzene	*8.4*
Toluene	*1.8*
Ethylbenzene	*2.7*
m,p-Xylene	*45.2*
o-Xylene	*1.0*
TOTAL	*59 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1678*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 10***				
Sampled by:	REO	Date:	6/15/94	Time:	11:40
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*16.0*
o-Xylene	*ND*
TOTAL	*16.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

***Method** - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JAK
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/16/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1679*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 11***				
Sampled by:	REO	Date:	6/15/94	Time:	12:15
Analyzed by:	DLA	Date:	6/16/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	****Measured Concentration ug/L***
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/16/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/17/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1680*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 12***				
Sampled by:	REO	Date:	6/15/94	Time:	12:40
Analyzed by:	DLA	Date:	6/17/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*0.8*
Toluene	*0.6*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*1.4 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Dan Gl
Date: 6/17/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/17/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1681*
Address:	*P.O. Box 87*	*Sample ID:*	*1572*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 13***				
Sampled by:	REO	Date:	6/15/94	Time:	12:50
Analyzed by:	DLA	Date:	6/17/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	****Measured Concentration ug/L***
Benzene	*1.0*
Toluene	*1.0*
Ethylbenzene	*0.4*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*2.4 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 6/17/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/17/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1682*
Address:	*P.O. Box 87*	*Sample ID:*	*1573*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 14***				
Sampled by:	REO	Date:	6/15/94	Time:	13:10
Analyzed by:	DLA	Date:	6/17/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Jan Gx
Date: 6/17/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn:	*R. E. O'Neill*	Date:	6/17/94
Company:	*Blagg Engineering Inc.*	*Lab ID:*	*1683*
Address:	*P.O. Box 87*	*Sample ID:*	*1573*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***Jaquez C1/E1***				
Project Location:	***WP - 15***				
Sampled by:	REO	Date:	6/15/94	Time:	13:30
Analyzed by:	DLA	Date:	6/17/94		
Sample Matrix:	*Liquid*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L
Benzene	*ND*
Toluene	*ND*
Ethylbenzene	*ND*
m,p-Xylene	*ND*
o-Xylene	*ND*
TOTAL	*0.0 ug/L*

ND - Not Detectable
*** - Method Detection Limit, 2 ug/L*

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JA
Date: 6/17/94

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 6/16/94

Internal QC No.: 0222-STD
Surrogate QC No.: 0223-STD
Reference Standard QC No.: 0300-STD

Method Blank

Analytes in Blank	Amount
Average Amount of All Analytes In Blank	<1 ppb

Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	22	10	15%
Toluene	ppb	20	21	4	15%
Ethylbenzene	ppb	20	20	0	15%
m,p-Xylene	ppb	40	39	2	15%
o-Xylene	ppb	20	20	1	15%

Spike Results

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	104	105	(39-150)	1	20%
Toluene	104	109	(46-148)	3	20%
Ethylbenzene	104	108	(32-160)	3	20%
m,p-Xylene	101	104	(35-145)	2	20%
o-Xylene	101	105	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
1669-1572	99		

S1: Flourobenzene

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 6/17/94

Internal QC No.: 0222-STD
Surrogate QC No.: 0223-STD
Reference Standard QC No.: 0300-STD

Method Blank

Analytes in Blank	*Amount*
Average Amount of All Analytes In Blank	<1 ppb

Calibration Check

Calibration Standards	*Units of Measure*	**True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20	22	9	15%
Toluene	ppb	20	20	2	15%
Ethylbenzene	ppb	20	19	4	15%
m,p-Xylene	ppb	40	38	6	15%
o-Xylene	ppb	20	19	3	15%

Spike Results

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	102	102	(39-150)	0	20%
Toluene	103	100	(46-148)	2	20%
Ethylbenzene	101	99	(32-160)	2	20%
m,p-Xylene	101	99	(35-145)	1	20%
o-Xylene	101	98	(35-145)	2	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*S3 Percent Recovered*
Limits	(70-130)		
1680-1572	99		

S1: Flourobenzene

FAX: (505) 327-1496 ▪ 24 HR. – (505) 327-7105 ▪ OFF.: (505) 325-8786
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CHAIN OF CUSTODY RECORD

No 1572

ON SITE TECHNOLOGIES LIMITED

657 W. Maple ▪ P. O. Box 2606 ▪ Farmington, NM 87499
LAB: (505) 325-5667 ▪ FAX: (505) 325-6256

Date: 6-15-94

Page 1 of 2

Purchase Order No.:	Reference No.:		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name R. E. O'NEILL	Title
Company BLAGG ENGINEERING INC.	Dept.	Company SAME	
Address P.O. BOX 87		Mailing Address	
City, State, Zip BLOOMFIELD, N.M. 87413		City, State, Zip	
		Telephone No. 632-1199	Telefax No. 632-3903

Special Instructions:
JAQUEZ CI/EI

Sampler: R. E. O'NEILL

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	BTEX	Remarks (matrix)
WP-1	6/15 0830		$HgCl_2$ - ICE	2	✓	WATER
WP-2	" 0850		"	2	✓	"
WP-3	" 0910		"	2	✓	"
WP-4	" 0945		"	2	✓	"
WP-5	" 1010		"	2	✓	"
WP-6	" 1030		"	2	✓	"
WP-8	" 1100		"	2	✓	"
WP-9	" 1120		"	2	✓	"
WP-10	" 1140		"	2	✓	"
WP-11	" 1215		"	2	✓	"
WP-12	" 1240		"	2	✓	"
WP-13	" 1250		"	2	✓	"

Relinquished by: R E. O'NEILL	Date/Time 6/15 1412	Received by: Nelson Velez	Date/Time 6/15/94 1412
Relinquished by: Nelson Velez	Date/Time 6/15/94 1529	Received by: Tony Tate	Date/Time 6/15/94 1529
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush	5 Working Days	10 Working Days	Sampling Location:

ON SITE TECHNOLOGIES LIMITED
657 W. Maple • P. O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

No 1573

Date: 6-15-94

Purchase Order No.:	Reference No.:		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	R.E. O'NEILL / Title
Company	BLAGG ENGINEERING INC. / Dept.	Company	SAME
Address	P.O. BOX 87	Mailing Address	
City, State, Zip	BLOOMFIELD, N.M. 87413	City, State, Zip	
		Telephone No.	632-1199 / Telefax No. 632-3903

Special Instructions: JAQUEZ CI/EI

Sampler: R.E. O'NEILL

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	ANALYSIS REQUESTED: BTEX	Remarks (matrix)
WP-14	6/15 1310		$AgCl_2$-ICE	2	✓	WATER
WP-15	6/15 1330		"	2	✓	"

Relinquished by: R.E. O'NEILL	Date/Time 6/15 1420	Received by: Melissa Vela	Date/Time 6/15/94 1420
Relinquished by: Melissa Vela	Date/Time 6/15/94 1530	Received by: Tony Trujillo	Date/Time 6/15/94 1529
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush	5 Working Days	10 Working Days	Sampling Location:

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 21, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-744

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

RE: GROUND WATER CONTAMINATION
JAQUEZ COM C#1 AND E#1 WELL SITES

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) is currently working with El Paso Field Services (EPFS) to remediate contaminated soil and ground water related to EPFS's fromer dehydration pits at the Jaquez Com C#1 & E#1 wells sites north of Blanco, New Mexico.

A review of the OCD's files shows that Amoco Production Company (Amoco) has also conducted soil and ground water remdial actions at the site. While Amoco supplied the OCD with some initial reports on Amoco's soil and ground water actions, the OCD has no record of receiving any correspondence from Amoco since June 29, 1994. Therefore, the OCD requires that Amoco submit a comprehensive report on all soil and ground water investigation and remedial actions at the Jaquez Com C#1 and E#1 well sites. The report shall be submitted to the OCD Santa Fe Office by February 2, 2000 with a copy provided to the OCD Aztec District Office.

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

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: OCD Aztec District Office
Jeff Blagg, Blagg Engineering, Inc.
John Jaquez