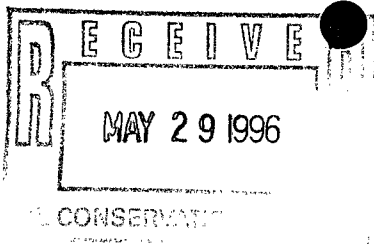


3R - 151

REPORTS

DATE:

1996 - 1994



May 28, 1996

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

Subject: El Paso Field Services Company Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the second quarter 1996, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Ms. Sandra Miller
Blanco Pipeline Regulatory File

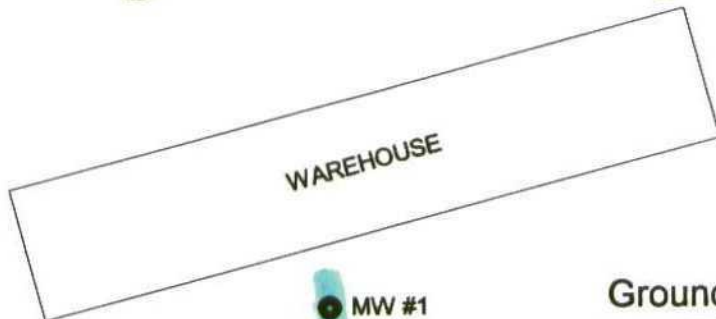
**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1996**

First Quarter - February 1996

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-1 Duplicate
Benzene	<2.5	<2.5	<2.5	67.5	<2.5	<2.5	<2.5
Ethylebenzene	<2.5	<2.5	<2.5	7.3	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	69.0	94.6	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	53.1	174.0	<7.5	<7.5	<7.5

Second Quarter - May 1996

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-3 Duplicate
Benzene	<1.0	<1.0	<1.0	26.1	<1.0	<1.0	<1.0
Ethylebenzene	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	1.0
Toluene	<1.0	<1.0	59.2	36.9	<1.0	<1.0	72.9
Total Xylenes	<3.0	<3.0	38.6	65.5	<3.0	<3.0	67.4



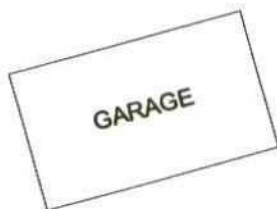
MW #1
5537.30

Groundwater
Flow Direction



5537.5'

5537'



5536.5'

MW #3
5536.48

MW #2
5536.55

Pipelines

5536'

MW #4
5536.12

5535.5'

5535'

PASSIVE AIR STRIPPER TRENCH

MW #6 5534.65

MW #5 5534.45

PROPERTY LINE

EPFS
EL PASO FIELD SERVICES

NEW MEXICO
OIL CONSERVATION DIVISION
SANTA FE, NM 87505
FEB 16 1996

February 16, 1996

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

Subject: El Paso Field Services Company Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the first quarter 1996, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

David Bays

David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Ms. Sandra Miller
Blanco Pipeline Regulatory File

**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1996**

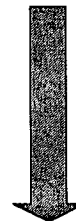
	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-1 Duplicate
Benzene	<2.5	<2.5	<2.5	67.5	<2.5	<2.5	<2.5
Ethylbenzene	<2.5	<2.5	<2.5	7.3	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	69.0	94.6	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	53.1	174.0	<7.5	<7.5	<7.5



BLANCO PIPELINE
WAREHOUSE

● MW #1
5537.70

Groundwater
Flow Direction



5537

GARAGE

MW #3 ●
5536.81

● MW #2R
5536.86

5536.5

TRUNK A LOOP

TRUNK R

TRUNK A

● MW #4
5536.42

5536

5535

PASSIVE AIR STRIPPER TRENCH

MW #6 ● 5534.69

MW #5 ● 5534.84

CAMP PROPERTY LINE

All Measurements Relative to Mean Sea Level

Water Level Readings Collected
November 16, 1995

El Paso Natural Gas Company
Blanco Field
Potentiometric Surface Map
Contour Interval 0.5 Feet



NEW MEXICO OIL CONSERVATION DIVISION
RECEIVED

P. O. Box 4990
FARMINGTON, NM 87499

1995 DEC 26 AM 8 52

December 22, 1995

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

Subject: El Paso Natural Gas Company's Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the fourth quarter 1995, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

A handwritten signature in cursive script that reads 'David Bays'.

David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Sandra Miller/Patrick Marquez/Ricky Cosby
Blanco Field Plant File 5206

**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1995**

February 1995 - First Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-4 Duplicate
Benzene	<2.5	<2.5	<2.5	82.4	<2.5	<2.5	66.9
Ethylebenzene	<2.5	<2.5	65.7	91.6	<2.5	<2.5	73.4
Toluene	<2.5	<2.5	7.0	9.3	<2.5	<2.5	7.7
Total Xylenes	<7.5	<7.5	39.2	138.0	<7.5	<7.5	110.0

May 1995 - Second Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-1 Duplicate
Benzene	<2.5	<2.5	4.2	93.7	<2.5	<2.5	<2.5
Ethylebenzene	<2.5	<2.5	59.4	118.0	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	4.2	8.9	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	42.6	178.0	<7.5	<7.5	<7.5

August 1995 - Third Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-3 Duplicate
Benzene	<2.5	<2.5	8.4	45.6	<2.5	<2.5	8.7
Ethylebenzene	<2.5	<2.5	105.0	43.6	<2.5	<2.5	99.7
Toluene	<2.5	<2.5	4.2	2.2	<2.5	<2.5	2.0
Total Xylenes	<7.5	<7.5	2.7	72.3	<7.5	<7.5	2.0

December 1995 - Fourth Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-6 Duplicate
Benzene	<2.5	<2.5	<2.5	28.9	<2.5	<2.5	<2.5
Ethylebenzene	<2.5	<2.5	<2.5	2.6	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	77.7	43.8	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	45.0	75.0	<7.5	<7.5	<7.5



BLANCO PIPELINE
WAREHOUSE

● MW #1
5537.56

Groundwater
Flow Direction

5537.5'



GARAGE

MW #3 ●
5536.74

● MW #2R
5536.82

5537.0'

5536.5'

● MW #4
5536.37

5536.0'

5535.5'

5535.0'

PASSIVE AIR STRIPPER TRENCH

MW #6 ● 5534.89

MW #5 ● 5534.73

CAMP PROPERTY LINE

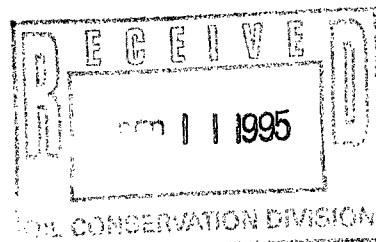
All Measurements Relative to Mean Sea Level

Water Level Readings Collected
November 16, 1995

El Paso Natural Gas Company
Blanco Field
Potentiometric Surface Map
Contour Interval 0.5 Feet



P. O. Box 4990
FARMINGTON, NM 87499
PHONE: 505-599-2202



September 8, 1995

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

Subject: El Paso Natural Gas Company's Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the third quarter 1995, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

A handwritten signature in cursive script that reads 'David Bays'.

David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Sandra Miller/Patrick Marquez/Ricky Cosby
File 5206

**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1995**

February 1995 - First Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-4 Duplicate
Benzene	<2.5	<2.5	<2.5	82.4	<2.5	<2.5	66.9
Ethylbenzene	<2.5	<2.5	65.7	91.6	<2.5	<2.5	73.4
Toluene	<2.5	<2.5	7.0	9.3	<2.5	<2.5	7.7
Total Xylenes	<7.5	<7.5	39.2	138.0	<7.5	<7.5	110.0

May 1995 - Second Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-1 Duplicate
Benzene	<2.5	<2.5	4.2	93.7	<2.5	<2.5	<2.5
Ethylbenzene	<2.5	<2.5	59.4	118.0	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	4.2	8.9	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	42.6	178.0	<7.5	<7.5	<7.5

August 1995 - Third Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-3 Duplicate
Benzene	<2.5	<2.5	8.4	45.6	<2.5	<2.5	8.7
Ethylbenzene	<2.5	<2.5	105.0	43.6	<2.5	<2.5	99.7
Toluene	<2.5	<2.5	4.2	2.2	<2.5	<2.5	2.0
Total Xylenes	<7.5	<7.5	2.7	72.3	<7.5	<7.5	2.0



BLANCO PIPELINE
WAREHOUSE

● MW #1
5537.15

Groundwater
Flow Direction



5537.00

GARAGE

5536.50

● MW #2
5536.46

● MW #3
5536.34

TRUNK R

TRUNK A LOOP

TRUNK A

5536.00

● MW #4
5536.00

5535.50

5535.00

PASSIVE AIR STRIPPER TRENCH

5534.50

● MW #6 5534.58

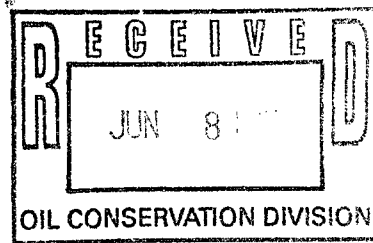
● MW #5 5534.45

CAMP PROPERTY LINE

All Measurements Relative to Mean Sea Level

Water Level Readings Collected
August 18, 1995

El Paso Natural Gas Company
Blanco Field
Potentiometric Surface Map
Contour Interval 0.5 Feet



P. O. Box 4990
FARMINGTON, NM 87499
PHONE: 505-599-2202

June 6, 1995

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

Subject: El Paso Natural Gas Company's Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the second quarter 1995, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

A handwritten signature in cursive script that reads 'David Bays'.

David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Sandra Miller/Patrick Marquez/Ricky Cosby
File 5206

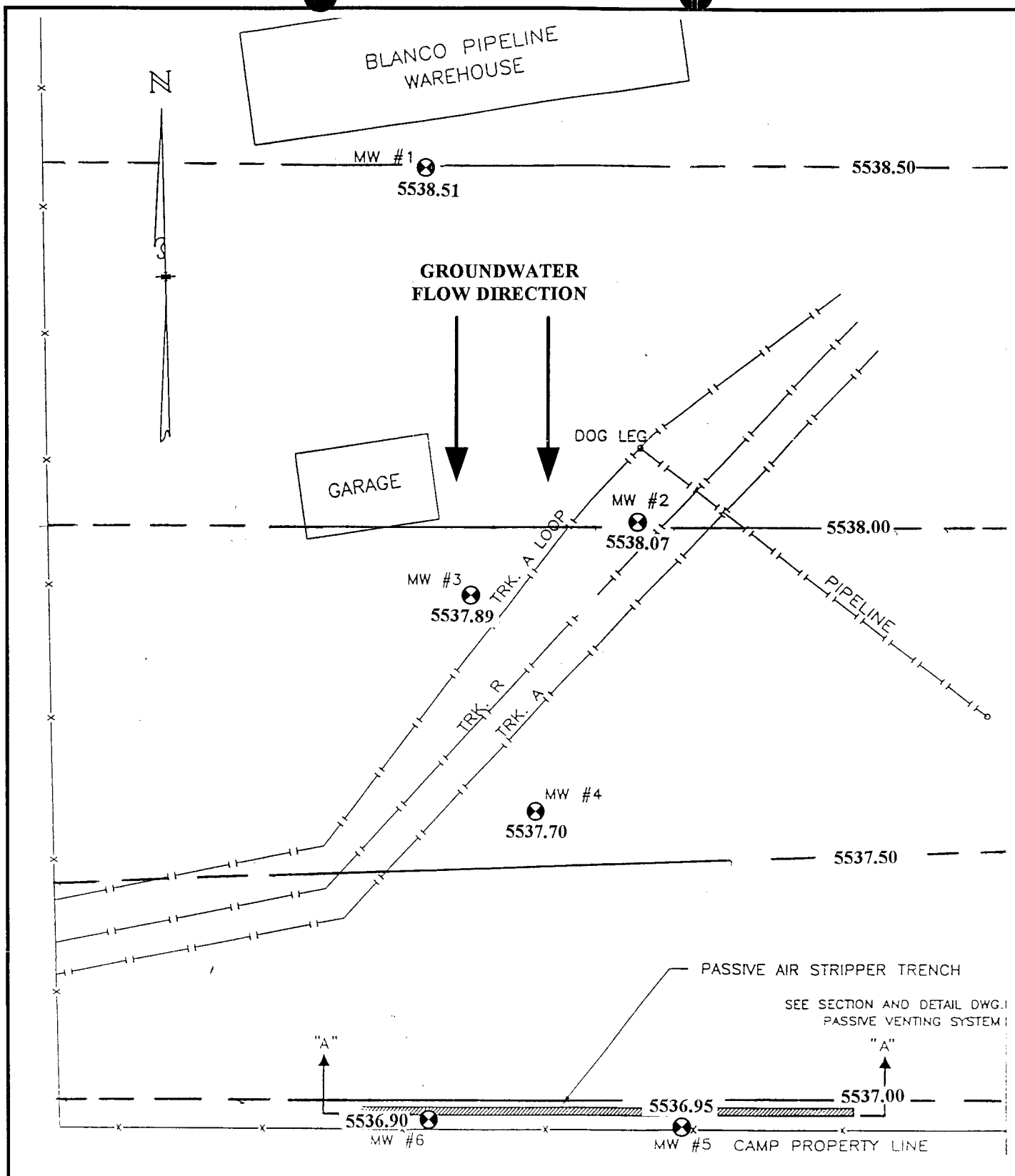
**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1995**

February 1995 - First Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-4 Duplicate
Benzene	<2.5	<2.5	<2.5	82.4	<2.5	<2.5	66.9
Ethylbenzene	<2.5	<2.5	65.7	91.6	<2.5	<2.5	73.4
Toluene	<2.5	<2.5	7.0	9.3	<2.5	<2.5	7.7
Total Xylenes	<7.5	<7.5	39.2	138.0	<7.5	<7.5	110.0

May 1995 - Second Quarter - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-5	MW-6	MW-1 Duplicate
Benzene	<2.5	<2.5	4.2	93.7	<2.5	<2.5	<2.5
Ethylbenzene	<2.5	<2.5	59.4	118.0	<2.5	<2.5	<2.5
Toluene	<2.5	<2.5	4.2	8.9	<2.5	<2.5	<2.5
Total Xylenes	<7.5	<7.5	42.6	178.0	<7.5	<7.5	<7.5



ALL MEASUREMENTS RELATIVE TO

MEAN SEA LEVEL.

WATER LEVEL MEASUREMENTS

COLLECTED MAY 22, 1995

EL PASO NATURAL GAS COMPANY

BLANCO FIELD

POTENTIOMETRIC SURFACE MAP

CONTOUR INTERVAL 0.5 FEET



OIL CONSERVATION DIVISION
RECEIVED

'95 MAY 3 AM 8 52

P. O. Box 4990
FARMINGTON, NM 87499
PHONE: 505-599-2202

May 1, 1995

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

Subject: El Paso Natural Gas Company's Blanco Field Office - Quarterly Monitoring Well Results

Dear Mr. Olson:

Please find attached the groundwater monitoring results for the first quarter 1995, as well as a plot map showing the groundwater gradient contours.

If you have any questions about these results, or if you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

A handwritten signature in cursive script that reads 'David Bays'.

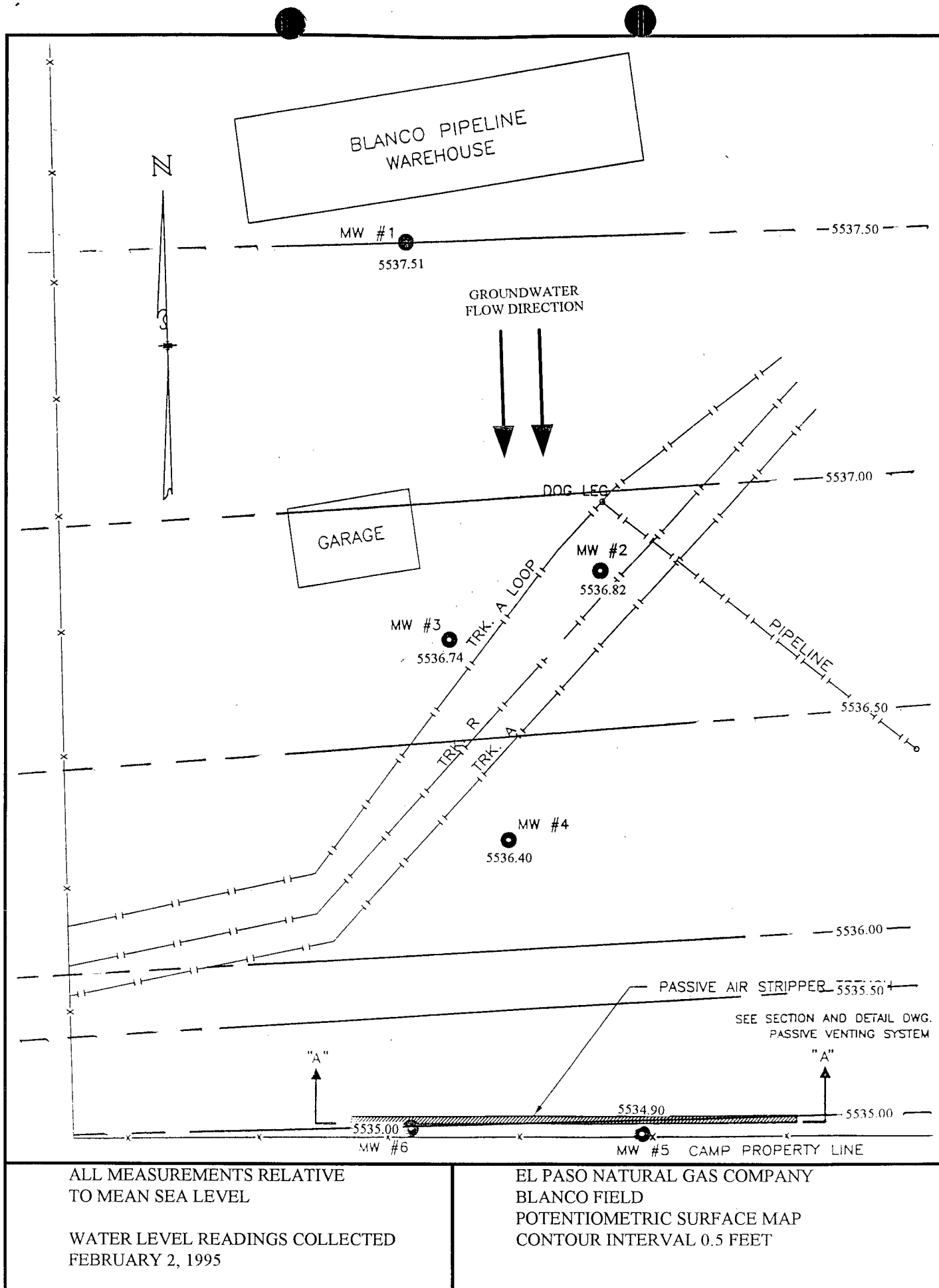
David Bays, REM
Sr. Environmental Scientist

cc: Mr. Denny Foust (NMOCD, Aztec)
Ms. Sandra Miller
File 5206

**El Paso Natural Gas Company
Blanco Field Office
Groundwater Monitoring Well Results - 1995**

February 1995 - All results are expressed as micrograms per liter (ppb)

	MW-1	MW-2R	MW-3	MW-4	MW-4 Duplicate	MW-5	MW-6
Benzene	<2.5	<2.5	<2.5	82.4	66.9	<2.5	<2.5
Ethylbenzene	<2.5	<2.5	65.7	91.6	73.4	<2.5	<2.5
Toluene	<2.5	<2.5	7.0	9.3	7.7	<2.5	<2.5
Total Xylenes	<7.5	<7.5	39.2	138.0	110.0	<7.5	<7.5



El Paso
Natural Gas Company

OIL CONSERVATION DIVISION
RECEIVED

1995 FEB 9 AM 8 52

P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
PHONE: 505-325-2841

February 6, 1995

Mr. Bill Olsen
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Dear Mr. Olsen:

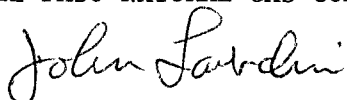
SUBJECT: El Paso Natural Gas Company's Blanco Field Office Quarterly Results

Attached are the first quarter 1995 BTEX analytical results for the six (6) monitor wells at the El Paso Natural Gas Company's Blanco Field office. The WQCC limit for benzene was exceeded in MW-4.

If you have any questions, please call me at 599-2144.

Sincerely,

EL PASO NATURAL GAS COMPANY



John Lambdin
Laboratory Superintendent

Attachments

cc: David Hall, E.P.N.G., W/O Attachments
Sandra Miller, E.P.N.G., W/Attachments
Denny Foust, N.M.O.C.D.
File

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950071

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 945

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5	None	
ETHYL BENZENE	<2.5	None	
TOLUENE	<2.5	None	
TOTAL XYLENES	<7.5	None	

Surrogate Recovery was 74.1 %

Approved By:

John Larch 2/6/95
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950072

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1110

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #2 (MW-2)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5	None	
ETHYL BENZENE	<2.5	None	
TOLUENE	<2.5	None	
TOTAL XYLENES	<7.5	None	

Surrogate Recovery was 73.7 %

Approved By: John Lardi

Date 2/6/95

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950073

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1115

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #3 (MW-3)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5	None	
ETHYL BENZENE	65.7	None	
TOLUENE	7.00	None	
TOTAL XYLENES	39.2	None	

Surrogate Recovery was 73.6 %

Approved By: John Sarda

Date 2/6/95

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950074

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1145

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	82.4	None	
ETHYL BENZENE	91.6	None	
TOLUENE	9.33	None	
TOTAL XYLENES	138	None	

Surrogate Recovery was 71.1 %

Approved By:

John Larden 2/6/95
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950075

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1145

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4) - Field Duplicate

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS: This was a field duplicate for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	66.9	None	
ETHYL BENZENE	73.4	None	
TOLUENE	7.71	None	
TOTAL XYLENES	110	None	

Surrogate Recovery was 71.2 %

Approved By: John Lardi

Date 2/6/95

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950076

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1245

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #5 (MW-5)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5	None	
ETHYL BENZENE	<2.5	None	
TOLUENE	<2.5	None	
TOTAL XYLENES	<7.5	None	

Surrogate Recovery was 69.3 %

Approved By:

John Lordin 2/6/95
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 950077

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): 1345

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 3-Feb-95

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	< 2.5	None	
ETHYL BENZENE	< 2.5	None	
TOLUENE	< 2.5	None	
TOTAL XYLENES	< 7.5	None	

Surrogate Recovery was 70.3 %

Approved By:

John Lardner 2/6/95
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: TRIP BLANK

SAMPLE DATE: 2-Feb-95

SAMPLE TIME (Hrs.): N/A

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Lab Sink

SAMPLE POINT: Faucet

DATE OF ANALYSIS: 3-Feb-95

REMARKS: Collected for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5	None	
ETHYL BENZENE	<2.5	None	
TOLUENE	<2.5	None	
TOTAL XYLENES	<7.5	None	

Surrogate Recovery was 70.2 %

Approved By: John F. Sardi

Date 4/6/95

EL PASO NATURAL GAS - FIELD SERVICES LAB

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Samples: 950071A - 950077A

QA/QC for 2/3/95 Sample Set

LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-41626 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	25.0	21.1	84.4	75 - 125 %	X
Toluene	Standard	25.0	25.0	100.0	75 - 125 %	X
Ethyl benzene	Standard	25.0	22.9	91.6	75 - 125 %	X
Total Xylenes	Standard	75.0	71.8	95.7	75 - 125 %	X
SAMPLE NUMBER ICV LA-41626 200 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	200	175	87.5	75 - 125 %	X
Toluene	Standard	200	186	93.0	75 - 125 %	X
Ethyl benzene	Standard	200	181	90.5	75 - 125 %	X
m & p - Xylene	Standard	400	354	88.5	75 - 125 %	X
o - Xylene	Standard	200	180	90.0	75 - 125 %	X
SAMPLE NUMBER LCS DB-00050 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	25.0	19.6	78.4	39 - 150	X
Toluene	Standard	25.0	25.8	103.2	46 - 148	X
Ethyl benzene	Standard	25.0	22.7	90.8	32 - 160	X
Total Xylenes	Standard	75.0	71.8	95.7	Not Given	X
SAMPLE NUMBER CCV LA-41626 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	25.0	19.7	78.8	75 - 125 %	X
Toluene	Standard	25.0	23.3	93.2	75 - 125 %	X
Ethyl benzene	Standard	25.0	20.9	83.6	75 - 125 %	X
Total Xylenes	Standard	75.0	65.0	86.7	75 - 125 %	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE NUMBER 950073	TYPE (Analysis, Portion, or Sample)	SAMPLE RESULT PPM (mg/Kg)	DUPLICATE RESULT PPM (mg/Kg)	RPD	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	2nd Portion	<5.00	<5.00	0	+/- 35 %	X
Toluene	2nd Portion	7.0	5.4	25	+/- 35 %	X
Ethyl benzene	2nd Portion	65.7	63.2	4	+/- 35 %	X
Total Xylenes	2nd Portion	39.1	37.7	4	+/- 35 %	X

Narrative: Acceptable.

SAMPLE NUMBER	TYPE (Analysis, Portion, or Sample)	SAMPLE RESULT PPM (mg/Kg)	DUPLICATE RESULT PPM (mg/Kg)	RPD	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	N/A			0	+/- 35 %	X
Toluene	N/A			0	+/- 35 %	X
Ethyl benzene	N/A			0	+/- 35 %	X
Total Xylenes	N/A			0	+/- 35 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER 950077 2nd Portion	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	25.0	<5.00	27.0	108	75 - 125 %	X
Toluene	25.0	<5.00	29.1	116	75 - 125 %	X
Ethyl benzene	25.0	<5.00	26.8	107	75 - 125 %	X
Total Xylenes	75.0	<15.0	83.9	112	75 - 125 %	X

Narrative: Acceptable.

SAMPLE NUMBER	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	XR	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	40.0	N/A		0	75 - 125 %	X
Toluene	40.0	N/A		0	75 - 125 %	X
Ethyl benzene	40.0	N/A		0	75 - 125 %	X
Total Xylenes	120.0	N/A		0	75 - 125 %	X

Narrative: Acceptable.

ADDITIONAL ANALYTICAL BLANKS:

SAMPLE ID AUTO BLANK	SOURCE	PPB	STATUS
Benzene	Boiled Water	<2.5	ACCEPTABLE
Toluene	Boiled Water	<2.5	ACCEPTABLE
Ethyl benzene	Boiled Water	<2.5	ACCEPTABLE
Total Xylenes	Boiled Water	<7.5	ACCEPTABLE

Narrative: Acceptable

SAMPLE ID SOTL VIAL BLANK	SOURCE	PPB	STATUS
Benzene	Vial + Boiled Water	N/A	ACCEPTABLE
Toluene	Vial + Boiled Water	N/A	ACCEPTABLE
Ethyl benzene	Vial + Boiled Water	N/A	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	N/A	ACCEPTABLE

Narrative: Acceptable.

SAMPLE ID EXTRACTION BLANK	SOURCE	PPB (In 200 uL shot)	STATUS
Benzene	Methanol	N/A	ACCEPTABLE
Toluene	Methanol	N/A	ACCEPTABLE
Ethyl benzene	Methanol	N/A	ACCEPTABLE
Total Xylenes	Methanol	N/A	ACCEPTABLE

Narrative: Acceptable.

SAMPLE ID Carryover contamination checks	SOURCE	NARRATIVE	STATUS
1/2	Vial + Boiled Water	All analytical compounds <2.5 ppb	ACCEPTABLE
2/2	Vial + Boiled Water	All analytical compounds <2.5 ppb	ACCEPTABLE
N/A	Vial + Boiled Water	All analytical compounds <2.5 ppb	ACCEPTABLE
N/A	Vial + Boiled Water	All analytical compounds <2.5 ppb	ACCEPTABLE

Narrative: Acceptable.

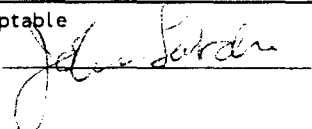
REAGENT BLANKS:

SAMPLE ID BOILED WATER CHECK	SOURCE 1/31/95	PPB	STATUS
Benzene	Boiled Water	<2.5	ACCEPTABLE
Toluene	Boiled Water	<2.5	ACCEPTABLE
Ethyl benzene	Boiled Water	<2.5	ACCEPTABLE
Total Xylenes	Boiled Water	<7.5	ACCEPTABLE

Narrative: Acceptable

SAMPLE ID METHANOL CHECK	SOURCE 1/31/95	PPB	STATUS
Benzene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Toluene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Ethyl benzene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Total Xylenes	MeOH/Boiled Water	<7.5	ACCEPTABLE

Narrative: Acceptable

Approved By: 

Date: 6-Feb-95



CHAIN OF CUSTODY RECORD

Project No.		Project Name		Requested Analysis		Contract Laboratory	
Samplers: (Signature)		Date		Receiving Temp. (°F)		Date/Time	
Dennis Bial		2-2-95		38			
Lab ID	Date	Time	Matrix	Sample Number	Intact?	Total No. of Containers	Chain of Custody Seals
2-2-95	0945		WATER	950071		2	
2-2-95	1110		WATER	950072		2	
2-2-95	1115		WATER	950073		2	
2-2-95	1145		WATER	950074		2	
2-2-95	1145		WATER	950075		2	
2-2-95	1245		WATER	950076		2	
2-2-95	1345		WATER	950077		2	
2-2-95	-		WATER	-		1	
Remarks: BLANK							
Remarks: MONITOR WELL MW-1							
Remarks: MONITOR WELL MW-2							
Remarks: MONITOR WELL MW-3							
Remarks: MONITOR WELL MW-4							
Remarks: MONITOR WELL MW-4 FIELD DUP							
Remarks: MONITOR WELL MW-5							
Remarks: MONITOR WELL MW-6							
Remarks: TRIP BLANK							
Remarks: EL PASO NATURAL GAS							
Remarks: 770 WEST NAVATO							
Remarks: FARMINGTON N.M. 87401							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Dennis Bial		2-2-95 1818					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time	
				Dennis Bial		2/2/95 1630	
Results & Invoices to:		Charge Code		Date Results Reported / by: (Signature)		Remarks:	

To: John Lambdin**Date:** February 4, 1995**From:** Dennis Bird**Place:** Field Services
Engineering-Lab**Subject: Blanco Field Yard Monitor Wells**

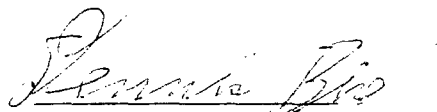
On Thursday, February 2, 1995, John Lambdin and I went to Blanco Field Yard and sampled the following monitor wells. The following analytical parameters are to be performed on these groundwater samples: BTXE. The samples were assigned the laboratory numbers 950071 to 950077. The Field Services Laboratory will be performing the analysis. A field duplicate was collected on Monitor Well MW-4.

The following information was collected on each well.

Monitor Well #	Pipe ID	Static Level	Total Depth	Gallons Bailed
MW-1	2"	5.10'	10.6'	5.0
MW-2	4"	7.05'	20.6'	30.0
MW-3	2"	7.50'	12.0'	3.0
MW-4	2"	5.60'	11.3'	5.0
MW-5	4"	8.80'	20.1'	25.0
MW-6	4"	8.85'	20.3'	25.0

All bailing and sampling was done with disposable, one time use equipment and bottles. All samples were stored on ice immediately after collection. The static level and total depth was measured from the top of the pipe. All of the groundwater from the monitor wells was disposed at the Kutz separator north of Blanco Plant.

Should you have any question or comments please let me know.


Dennis P. Bird

cc: Nancy Prince
David Bays

El Paso
Natural Gas Company

P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
PHONE: 505-325-2841

RECEIVED

DEC 30 1994

OIL CONSERVATION DIV.
SANTA FE

December 21, 1994

Mr. Bill Olsen
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Dear Mr. Olsen:

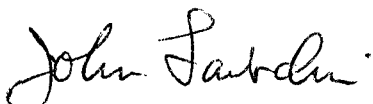
SUBJECT: El Paso Natural Gas Company's Blanco Field Office Quarterly Results

Attached are the fourth quarter 1994 BTEX analytical results for the six (6) monitor wells at the El Paso Natural Gas Company's Blanco Field office.

If you need additional information, please call me at 599-2144.

Sincerely,

EL PASO NATURAL GAS COMPANY



John Lambdin
Laboratory Superintendent

Attachments

cc: David Hall, E.P.N.G.
Patrick Marquez, E.P.N.G.
Denny Foust, N.M.O.C.D.
File



CHAIN OF CUSTODY RECORD

Project No.		Project Name		Requested Analysis		Contract Laboratory	
Samplers: (Signature)		Date		Receiving Temp. (°F)		Intact?	
Date		Time		Matrix		Sample Number	
Dennis Bird		10-21-94		36°			
Lab ID	Date	Time	Matrix	Sample Number		Remarks	
10-21-94	1055		WATER	941472		MONITOR WELL MW-1	
10-21-94	1214		WATER	941473		MONITOR WELL MW-2	
10-21-94	1228		WATER	941474		MONITOR WELL MW-3	
10-21-94	1304		WATER	941475		MONITOR WELL MW-4	
10-21-94	1348		WATER	941476		MONITOR WELL MW-5	
10-21-94	1430		WATER	941477		MONITOR WELL MW-6	
10-21-94	1430		WATER	941478		MONITOR WELL MW-6 FLOWING	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Dennis Bird		10/24/94 1710					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time	
				John J. [Signature]		10/24/94 0930	
Results & Invoices to:		Charge Code		Date Results Reported / by: (Signature)			

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941472

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1055

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 99.9 %.

Approved By:

John F. ...

11/3/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941473

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1214

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #2 (MW-2)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 106 %.

Approved By:

John Fardis 11/3/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941474

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1228

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #3 (MW-3)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	3.28		
ETHYL BENZENE	79.9		
TOLUENE	2.42		
TOTAL XYLENES	31.1		

Surrogate Recovery was 102 %

Approved By: John Lardi

11/3/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941475

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1304

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	55.1		
ETHYL BENZENE	59.2		
TOLUENE	3.99		
TOTAL XYLENES	70.6		

Surrogate Recovery was 95.3 %.

Approved By:

John F. Smith

11/3/94

Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941476

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1348

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #5 (MW-5)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 101 %.

Approved By:

John Lodi

11/3/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941477

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1430

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6)

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

The Surrogate Recovery was 101 %.

Approved By:

11/3/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941478

SAMPLE DATE: 21-Oct-94

SAMPLE TIME (Hrs.): 1430

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6) - Field Duplicate

SAMPLE POINT: Casing

DATE OF ANALYSIS: 25-Oct-94

REMARKS: This was a field duplicate for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 105 %.

Approved By: John Lardi

11/3/94
Date

EL PASO NATURAL GAS - FIELD SERVICES LAB

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Blanco Field - Monitor Wells 941472 to 941478

QA/QC for 10/25/94

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PPB)	RPD	ACCEPTABLE	
					YES	NO
941472					RANGE	
Benzene	2nd Run	<2.5	<2.5	0%	+/- 20 %	X
Toluene	2nd Run	<2.5	<2.5	0%	+/- 2035 %	X
Ethyl benzene	2nd Run	<2.5	<2.5	0%	+/- 20 %	X
Total Xylenes	2nd Run	<2.5	<2.5	0%	+/- 20 %	X

Narrative: Acceptable.

LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	ZR	ACCEPTABLE	
					YES	NO
ICV 40 PPB std					RANGE	
Benzene	Standard	40.0	34.2	85.5	75 - 125 %	X
Toluene	Standard	40.0	35.2	88.0	75 - 125 %	X
Ethyl benzene	Standard	40.0	35.1	87.8	75 - 125 %	X
Total Xylenes	Standard	120	109.2	91.0	75 - 125 %	X
DB0005 40 PPB					RANGE	
Benzene	Standard	40.0	35.1	87.8	39 - 150	X
Toluene	Standard	40.0	35.9	89.8	46 - 148	X
Ethyl benzene	Standard	40.0	36.7	91.8	32 - 160	X
Total Xylenes	Standard	120	117.7	98.1	Not Given	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED (SA) PPB	SAMPLE RESULT (S) (PPB)	SPIKE SAMPLE RESULT (SR) (PPB)	ZR	ACCEPTABLE	
					YES	NO
941472					RANGE	
Benzene	40.0	0.0	34.2	85.5	75 - 125 %	X
Toluene	40.0	0.0	35.9	89.8	75 - 125 %	X
Ethyl benzene	40.0	0.0	36.6	91.5	75 - 125 %	X
Total Xylenes	120	0.0	114	94.8	75 - 125 %	X

Narrative: Acceptable.

LABORATORY , REAGENT AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)	STATUS
Benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Toluene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Ethyl benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Total Xylenes	EPNG Water/MeOH	<2.5	ACCEPTABLE

Narrative: Acceptable!

Approved By:

John Fawcett

Date: 3-Nov-94

El Paso
Natural Gas Company

OIL CONSERVATION DIVISION
RECEIVED

P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

1994 AUG 14 AM 8 50

August 10, 1994

Mr. Bill Olson
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

Subject : El Paso Natural Gas Company's Blanco Field Office - Quarterly Results

Attached are the third quarter BETX analytical results from the six monitor wells at El Paso Natural Gas Company's Blanco Field Office. If you need additional information, please call me at 599-2176.

Anu Pundari
Anu Pundari
Sr. Compliance Engineer

cc: Mr. David Hall (EPNG)
Mr. Denny Foust (NMOCD)

BLANCO FIELD MONITOR WELLS - JULY 1994

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
BENZENE	<2.5	<2.5	3.8	29.1	<2.5	<2.5
ETHYLBENZENE	<2.5	<2.5	58.2	29.3	<2.5	<2.5
TOLUENE	<2.5	<2.5	<2.5	2.31	<2.5	<2.5
TOTAL XYLENES	<2.5	<2.5	11	33	<2.5	<2.5

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941102

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1026

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 2, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 94.9 %.

Approved By:

John F. Linder

Date

8/8/94

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941103

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1026

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1) - Field Duplicate

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 2, 1994

REMARKS: This was a field duplicate for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 97.4 %.

Approved By:

John Smith

Date

8/8/94

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941104

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1131

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #2 (MW-2)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 2, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 96.3 %.

Approved By: John Sardi

8/8/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941105

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1137

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #3 (MW-3)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 2, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	3.80		
ETHYL BENZENE	58.2		
TOLUENE	<2.5		
TOTAL XYLENES	11.0		

Surrogate Recovery was 91.3 %.

Approved By:

Joe Sardi

Date

8/8/94

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941106

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1208

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 3, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	29.1		
ETHYL BENZENE	29.3		
TOLUENE	2.31		
TOTAL XYLENES	33.0		

Surrogate Recovery was 93.3 %.

Approved By: John L. Smith

8/8/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941107

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1250

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #5 (MW-5)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 3, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

Surrogate Recovery was 94.2 %.

Approved By: John Lark

8/8/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 941108

SAMPLE DATE: July 29, 1994

SAMPLE TIME (Hrs.): 1320

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6)

SAMPLE POINT: Casing

DATE OF ANALYSIS: August 2, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.5		
ETHYL BENZENE	<2.5		
TOLUENE	<2.5		
TOTAL XYLENES	<2.5		

The Surrogate Recovery was 94.9 %.

Approved By:

John Faldi

Date

8/8/94

EL PASO NATURAL GAS - FIELD SERVICES LABORATORY

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

BLANCO MONITOR WELLS: 941102 thru 941109

QA/QC for 8/2/94 and 8/3/94 Sample Set

9 Samples

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PPB)	RPD	ACCEPTABLE	
					YES	NO
941106					RANGE	
Benzene	2nd Ext	29.1	30.5	4.7	+/- 20 %	X
Toluene	2nd Ext	2.31	2.44	5.5	+/- 20 %	X
Ethyl benzene	2nd Ext	29.3	31.0	5.6	+/- 20 %	X
Total Xylenes	2nd Ext	33.0	36.2	9.2	+/- 20 %	X

Narrative: Acceptable.

LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	%R	ACCEPTABLE	
					YES	NO
ICV 50 PPB std					RANGE	
Benzene	Standard	50.0	49.1	98.2	75 - 125 %	X
Toluene	Standard	50.0	49.5	99.0	75 - 125 %	X
Ethyl benzene	Standard	50.0	50.4	100.8	75 - 125 %	X
Total Xylenes	Standard	150	160	106.7	75 - 125 %	X
LCS F0565 50 PPB					RANGE	
Benzene	Standard	50.0	49.1	98.2	39 - 150	X
Toluene	Standard	50.0	50.1	100.2	46 - 148	X
Ethyl benzene	Standard	50.0	52.3	104.6	32 - 160	X
Total Xylenes	Standard	200	230	115.0	Not Given	X

Narrative: Acceptable!

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED (SA) PPB	SAMPLE RESULT (S) (PPB)	SPIKE SAMPLE RESULT (SR) (PPB)	%R	ACCEPTABLE	
					YES	NO
941106					RANGE	
Benzene	50.0	29.1	85.2	112	75 - 125 %	X
Toluene	50.0	2.31	53.2	102	75 - 125 %	X
Ethyl benzene	50.0	29.3	95.1	132	75 - 125 %	X
Total Xylenes	150.0	33.0	198	110	75 - 125 %	X

Narrative: Acceptable for Benzene, Toluene and Total Xylenes. Ethyl benzene recovery is slightly high.

LABORATORY , REAGENT AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)	STATUS
Benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Toluene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Ethyl benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Total Xylenes	EPNG Water/MeOH	<2.5	ACCEPTABLE

Narrative: Acceptable!

Approved By:

John Sanchez

Date: 6-Aug-94



Natural Gas Company

CHAIN OF CUSTODY RECORD

[illegible]

To: John Lambdin
From: Dennis Bird

Date: August 01, 1994
Place: Field Services
Engineering-Lab

Subject: Blanco Field Yard Monitor Wells

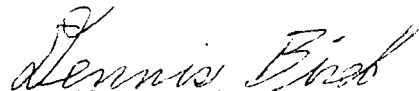
On Friday, July 29, 1994, Richard Benson and I went to Blanco Field Yard and sampled the following monitor wells. The following analytical parameters are to be performed on these groundwater samples: BTXE 8020. The Field Services Lab will be analyzing the groundwater samples. A field duplicate was collected on Monitor Well MW-1.

The following information was collected on each well.

Monitor Well #	Pipe ID	Static Level	Total Depth	Gallons Bailed
941102/03 MW-1	2"	5.3'	10.6'	10.0
941104 - MW-2	4"	7.2'	20.6'	27.0
941105 - MW-3	2"	7.7'	12.0'	3.0
941106 - MW-4	2"	8.5'	11.3'	10.0
941107 - MW-5	4"	9.0'	20.1'	25.0
941108 - MW-6	4"	9.0'	20.3'	25.0

All bailing and sampling was done with disposable, one time use equipment and bottles. All samples were stored on ice immediately after collection. The static level and total depth was measured from the top of the pipe. All of the groundwater from the monitor wells was disposed at the lined pond north of Blanco Plant.

Should you have any question or comments, please let me know.


Dennis P. Bird

cc: Nancy Prince
Anu Pundari

RECEIVED

MAY 03 1994

OIL CONSERVATION DIV.
SANTA FE

April 29, 1994

Mr. Bill Olson
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

Subject : El Paso Natural Gas Company's Blanco Field Office - Quarterly Results

El Paso Natural Gas Company recently replaced MW-2 that was destroyed due to a pipeline expansion project. It was discovered that MW-3 was not destroyed during the same project but was covered with soil. In order to prevent additional damage to MW-3 and MW-4, the existing PVC casing was extended above grade with locking devices, concrete pad, and bumper posts.

In March 1994, MW-2 was replaced. During the construction of MW-2, one soil sample was taken at six feet below grade. A copy of the soil TPH and BETX analytical results is under Tab 1. A lithologic log and well construction log for MW-2 and extension records for the other two new monitor wells is under Tab 2.

The first and second quarter groundwater BETX analytical results are under Tab 3. A map showing the location of the wells and a potentiometric map showing groundwater direction is under Tab 4.

If you need additional information, please call me at 599-2176.

Anu Pundari
Anu Pundari
Sr. Compliance Engineer

cc: Mr. David Hall (EPNG)
Mr. Denny Foust (NMOCD)



Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 403422

April 5, 1994

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: BLANCO FIELD - MW-2 Replacement Well
Soil from Installation
Attention: John Lambdin

On 03/29/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



Client : EL PASO NATURAL GAS CO.
 # : (NONE)
 NAME: BLANCO FIELD - MW-2

DATE RECEIVED: 03/29/94

REPORT DATE : 04/05/94

ATI I.D.: 403422

CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
940625 Blanco Field - MW-2	NON-AQ	03/22/94



-----TOTALS-----

MATRIX	# SAMPLES
NON-AQ	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our waste control department before the scheduled disposal date.



Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

CLIENT : EL PASO NATURAL GAS CO.
PROJECT # : (NONE)
PROJECT NAME: BLANCO FIELD - MW-2

ATI I.D. : 403422
DATE RECEIVED: 03/29/94
DATE ANALYZED: 04/01/94

PARAMETER	UNITS	01
PETROLEUM HYDROCARBONS, IR	MG/KG	<20

PASSED!

8/21/94



Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS CO.
PROJECT # : (NONE)
PROJECT NAME: BLANCO FIELD - MW-2

ATI I.D.: 403422

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	MG/KG	40342201	<20	<20	NA	160	150	107

Acceptable.
JF
4/14/94

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



Analytical **Technologies**, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO.
PROJECT # : (NONE)
PROJECT NAME: BLANCO FIELD - MW-2

ATI I.D.: 403422

SAMPLE I.D. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	940625	NON-AQ	03/22/94	03/31/94	03/31/94	1

PARAMETER	UNITS	01
-----------	-------	----

BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025

BROMOFLUOROBENZENE (%)		85
------------------------	--	----

Assayed!
4/2/94
JF



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST : BTEX (EPA 8020)
BLANK I.D. : 033194
CLIENT : EL PASO NATURAL GAS CO.
PROJECT # : (NONE)
PROJECT NAME: BLANCO FIELD - MW-2

ATI I.D. : 403422
DATE EXTRACTED : 03/31/94
DATE ANALYZED : 03/31/94
DILUTION FACTOR: 1

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
BROMOFLUOROBENZENE (%)		111

Acceptable.
J8
4/14/94



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : BTEX (EPA 8020)
MSMSD # : 40342303
CLIENT : EL PASO NATURAL GAS CO.
PROJECT # : (NONE)
PROJECT NAME: BLANCO FIELD - MW-2

ATI I.D. : 403422
DATE EXTRACTED: 03/31/94
DATE ANALYZED : 03/31/94
SAMPLE MATRIX : NON-AQ
REF. I.D. : 40342303
UNITS : MG/KG

PARAMETERS	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.025	1.0	0.83	83	0.87	87	5
TOLUENE	<0.025	1.0	0.84	84	0.88	88	5
ETHYL BENZENE	<0.025	1.0	0.86	86	0.90	90	5
TOTAL XYLENES	<0.025	3.0	2.5	83	2.6	87	4

Acceptable.
JS
4/14/94

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

MONITORING WELL INSTALLATION RECORD

Burlington Environmental Inc.

4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # MW-2
Well # MW-2
Page 1 of 1

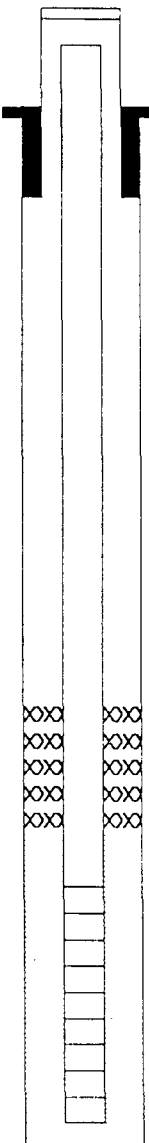
Project Name BLANCO WELL REPLACEMENT
Project Number 11944 Phase 2000
Project Location BLANCO

Elevation _____
Well Location MW-2
GWL Depth 4.5'
Installed By ENVIRO-DRILL, INC.

On-Site Geologist C.M. CHANCE
Personnel On-Site _____
Contractors On-Site ENVIRO-DRILL, INC.
Client Personnel On-Site A.R. SILVA

Date/Time Started 3/22/94 1345
Date/Time Completed 3/23/94 1200

Depths in Reference to Ground Surface				
Item	Material	Depth (feet)		
Top of Protective Casing	8" STEEL	+2.9		
Bottom of Protective Casing		-1.1		
Top of Permanent Borehole Casing		N/A		
Bottom of Permanent Borehole Casing		N/A		
Top of Concrete	PREMIX	+ .3		
Bottom of Concrete		0.0		
Top of Grout		N/A		
Bottom of Grout		N/A		
Top of Well Riser	4" SCH 40 PVC	+2.5		
Bottom of Well Riser		-2.5		
Top of Well Screen	4" SCH 40 PVC	-2.5		
Bottom of Well Screen	.010 SLOT	-17.9		
Top of Peltonite Seal	1/2 & 1/2 BENTONITE PELLETS	0.0		
Bottom of Peltonite Seal		-2.0		
Top of Gravel Pack	10-20 SILICA SAND	-2.0		
Bottom of Gravel Pack		-19.5		
Top of Natural Cave-In		-17.9		
Bottom of Natural Cave-In		-19.5		
Top of Groundwater		-4.5		
Total Depth of Borehole		-19.5		



Top of Protective Casing	<u>+2.9'</u>
Top of Riser	<u>+2.5'</u>
Ground Surface	<u>0</u>
Top of Seal	<u>0.0</u>
Top of Gravel Pack	<u>-2.0</u>
Top of Screen	<u>-2.5</u>
Bottom of Screen	<u>-17.9</u>
Bottom of Borehole	<u>-19.5</u>

Comments: 6 (100 LB.) BAGS 10-20 SILICA SAND, 2 (5 GAL.) BUCKETS 1/4" AND 1/2" BENTONITE PELLETS,
1 (25 LB.) BAG CHIPS

Geologist Signature

Cory Chance / STP



BURLINGTON
ENVIRONMENTAL

4000 Monroe Road
Farmington, NM 87401

RECORD OF SUBSURFACE EXPLORATION

Page 1 of 1

Borehole No. MW-2

Well No. MW-2

PROJECT NAME: EPNG WELL REPLACEMENT				PROJECT NO. 11944						
ELEVATION:				BOREHOLE LOCATION/COORDINATES: BLANCO, N.M.						
LOGGED BY: CM CHANCE				GWL DEPTH: 4.5'		DATE/TIME: 3/22/94 / 1345				
DRILLED BY: ENVIRO DRILL				GWL DEPTH: 4.5'		DATE/TIME: 3/23/94 / 0800				
DRILLING/RIG METHODS: HSA 10 1/4" O.D.										
DATE/TIME STARTED: 3/22/94 / 0840				DATE/TIME COMPLETION(S): 3/22/94 / 1346						
AIR MONITORING TYPE: HNU				BZ = Breathing Zone; BH = Borehole; S = Sample						
Depth (ft.)	Samp. #	Samp. Interval	Samp. Type Recov. (in.)	CLASSIFICATION SYSTEM USCS	USCS SYM.	Depth Chng. (ft.)	AIR MONITORING UNITS_NDU			DRILLING CONDITIONS AND (BLOW COUNTS)
							BZ	BH	S	
5	1	3.5 5	18"	DK BR silty SAND, f-med sand, rounded-subround moist, bottom 2" very moist. Med BR silty SAND, med-f sand, tr gravel, moist.	SW		0	0	0	-30" split tube sampler. -Easy sampling. -Took 2nd sample. 1st one not saturated. -GW @ 5'. -2nd sample has hydrocarbon odor.
	2	5 6.5	18"	BK-Dark Gray silty SAND, med-coarse sand, tr small gravel, rounded-subrounded, very moist-saturated.	SW		0	0	0	
10				Lt BR silty SAND with gravel in cuttings, moist.	GM					-10' cuttings have slight hydrocarbon odor. -Drilling harder.
15				BR gravel with silty sand, f-med sand in cuttings.	GW					-0930 Down(Weld broke on auger head). -1030 Drilling again. -Hard drilling. Pull augers to replace teeth.
20				Greenish Blue clay on augers, med plasticity, soft	CL					
				TOB 19.5'						HEADSPACE SAMPLE Sample #2 5-6.5' = 7NDU

COMMENTS: EPNG collected sample #2 for analysis (5-6.5'). Added approximately 12 gal of potable water to borehole. From 8' to TOB, drilling was very hard, however, very few cobbles were noted.

GEOLOGIST SIGNATURE:

Corey Chance

BLANCO FIELD MONITOR WELLS - JANUARY 1994

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
BENZENE	<2.0	NS	NS	152	<2.0	<2.0
ETHYLBENZENE	<2.0	NS	NS	71.6	<2.0	<2.0
TOLUENE	<2.0	NS	NS	16.1	<2.0	<2.0
TOTAL XYLENES	<2.0	NS	NS	128	<2.0	<2.0

BLANCO FIELD MONITOR WELLS - APRIL 1994

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
BENZENE	<2.0	<2.0	4.9	140	<2.0	<2.0
ETHYLBENZENE	<2.0	<2.0	190	103	<2.0	<2.0
TOLUENE	<2.0	<2.0	4.9	10.7	<2.0	<2.0
TOTAL XYLENES	<2.0	<2.0	93	114	<2.0	<2.0

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940137

SAMPLE DATE: January 25, 1994

SAMPLE TIME (Hrs.): 1035

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1)

SAMPLE POINT: Casing

DATE OF ANALYSIS: January 26, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	< 2.0		
ETHYL BENZENE	< 2.0		
TOLUENE	< 2.0		
TOTAL XYLENES	< 2.0		

Surrogate Recovery was 91.1 %.

Approved By: John Laldi

1/27/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940138

SAMPLE DATE: January 25, 1994

SAMPLE TIME (Hrs.): 1035

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1) Field Duplicate

SAMPLE POINT: Casing

DATE OF ANALYSIS: January 26, 1994

REMARKS: This was a field duplicate for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 91.1 %.

Approved By:

John Lard

Date

1/27/94

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940139

SAMPLE DATE: January 25, 1994

SAMPLE TIME (Hrs.): 1126

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4)

SAMPLE POINT: Casing

DATE OF ANALYSIS: January 26, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	152		
ETHYL BENZENE	71.6		
TOLUENE	16.1		
TOTAL XYLENES	128		

Surrogate Recovery was 88.8 %.

Approved By:

John Larkin 1/27/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940140

SAMPLE DATE: January 25, 1994

SAMPLE TIME (Hrs.): 1312

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #5 (MW-5)

SAMPLE POINT: Casing

DATE OF ANALYSIS: January 26, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 89.8 %.

Approved By:

John Funder 1/27/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940141

SAMPLE DATE: January 25, 1994

SAMPLE TIME (Hrs.): 1324

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6)

SAMPLE POINT: Casing

DATE OF ANALYSIS: October 23, 1993

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	< 2.0		
ETHYL BENZENE	< 2.0		
TOLUENE	< 2.0		
TOTAL XYLENES	< 2.0		

The Surrogate Recovery was 90.3 %.

Approved By:

John Lordin 1/27/94
Date

QUALITY CONTROL REPORT

EPA METHOD 8020 - BETX

Samples: 940137 to 940141

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PPB)	RPD	ACCEPTABLE RANGE + / - 35%	
					YES	NO
940139						
Benzene	2nd Run	152	152	0%	X	
Toluene	2nd Run	16	16	0%	X	
Ethylbenzene	2nd Run	72	69	3%	X	
Total Xylenes	2nd Run	128	124	3%	X	

Narrative: Acceptable!

LABORATORY CONTROL, CALIBRATION CHECK:

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	XR	ACCEPTABLE RANGE 65 - 125 %	
					YES	NO
50 PPB Standard						
Benzene	Standard	50.0	42.0	84.0	X	
Toluene	Standard	50.0	43.8	87.6	X	
Ethylbenzene	Standard	50.0	46.4	92.8	X	
Total Xylenes	Standard	150.0	150.0	100.0	X	

Narrative: Acceptable!

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED (SA) PPB	SAMPLE RESULT (S) (PPB)	SPIKE SAMPLE RESULT (SR) (PPB)	XR	ACCEPTABLE RANGE 65-135 XR	
					YES	NO
940137						
Benzene	50.0	0	44	88	X	
Toluene	50.0	0	45	89	X	
Ethylbenzene	50.0	0	49	97	X	
Total Xylenes	150.0	0	157	105	X	

Narrative: Acceptable.

LABORATORY AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)		STATUS
Benzene	EPNG Water	<2.0		ACCEPTABLE
Toluene	EPNG Water	<2.0		ACCEPTABLE
Ethylbenzene	EPNG Water	<2.0		ACCEPTABLE
Total Xylenes	EPNG Water	<2.0		ACCEPTABLE

Narrative: Acceptable!

Approved By:

John F. Linder

1/27/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940670

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1015

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #1 (MW-1)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 12, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 81.1 %.

Approved By: John F. Davis 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940671

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1142

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #2 (MW-2)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 12, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 80.9 %.

Approved By:

John F. L. L. L. 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940672

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1142

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #2 (MW-2) Field Duplicate

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 13, 1994

REMARKS: This was a field duplicate for QA/QC purposes.

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 81.2 %.

Approved By:

John L. Larkin 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940673

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1148

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #3 (MW-3)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 13, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	4.9		
ETHYL BENZENE	190		
TOLUENE	4.9		
TOTAL XYLENES	93		

Surrogate Recovery was 81.1 %.

Approved By:

John L. Lantieri 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940674

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1208

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #4 (MW-4)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 13, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	140		
ETHYL BENZENE	103		
TOLUENE	10.7		
TOTAL XYLENES	114		

Surrogate Recovery was 80.3 %.

Approved By: John Paulsen 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940675

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1330

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #5 (MW-5)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 13, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

Surrogate Recovery was 80.3 %.

Approved By:

John Sabali 4/20/94
Date

EL PASO NATURAL GAS COMPANY
FIELD SERVICES LABORATORY
ANALYTICAL REPORT
EPA METHOD 8020 - BETX

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 940676

SAMPLE DATE: April 7, 1994

SAMPLE TIME (Hrs.): 1357

SAMPLED BY: Dennis Bird

LOCATION: Blanco Field

SAMPLE SITE: Monitor Well #6 (MW-6)

SAMPLE POINT: Casing

DATE OF ANALYSIS: April 13, 1994

REMARKS:

RESULTS

PARAMETER	PPB (ug/L)	QUALIFIER	COMMENTS
BENZENE	<2.0		
ETHYL BENZENE	<2.0		
TOLUENE	<2.0		
TOTAL XYLENES	<2.0		

The Surrogate Recovery was 80.3 %.

Approved By: John Lombardi

Date 4/24/94

QUALITY CONTROL REPORT

EPA METHOD 8020 - BETX

Samples: 940670 to 940676, 940667, BLK1, BLK2, BLK3, BLK4

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PPB)	RPD	ACCEPTABLE RANGE + / - 35%	
					YES	NO
940671						
Benzene	2nd Run	<2.0	<2.0	0%	X	
Toluene	2nd Run	<2.0	<2.0	0%	X	
Ethylbenzene	2nd Run	<2.0	<2.0	0%	X	
Total Xylenes	2nd Run	<2.0	<2.0	0%	X	

Narrative: Acceptable!

LABORATORY CONTROL, CALIBRATION CHECK:

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	XR	ACCEPTABLE RANGE 65 - 125 %	
					YES	NO
50 PPB Standard						
Benzene	Standard	50.0	43.0	86.0	X	
Toluene	Standard	50.0	43.5	87.0	X	
Ethylbenzene	Standard	50.0	43.8	87.6	X	
Total Xylenes	Standard	150.0	133.0	88.7	X	

Narrative: Acceptable!

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED (SA) PPB	SAMPLE RESULT (S) (PPB)	SPIKE SAMPLE RESULT (SR) (PPB)	XR	ACCEPTABLE RANGE 65-135 %XR	
					YES	NO
940067						
Benzene	50.0	0	43	86	X	
Toluene	50.0	0	43	86	X	
Ethylbenzene	50.0	0	44	88	X	
Total Xylenes	150.0	0	134	89	X	

Narrative: Acceptable.

LABORATORY AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)	STATUS
Benzene	EPNG Water	<2.0	ACCEPTABLE
Toluene	EPNG Water	<2.0	ACCEPTABLE
Ethylbenzene	EPNG Water	<2.0	ACCEPTABLE
Total Xylenes	EPNG Water	<2.0	ACCEPTABLE

Narrative: Acceptable!

Approved By: John Farnham 4/26/94
Date

BLANCO PIPELINE
WAREHOUSE

MW #1

N

GARAGE

MW #3

DOG LEG

MW #2

TRK. A LOOP
TRK. R
TRK. A

PIPELINE

MW #4

PASSIVE AIR STRIPPER TRENCH

SEE SECTION AND DETAIL DWG.
PASSIVE VENTING SYSTEM

"A"

"A"

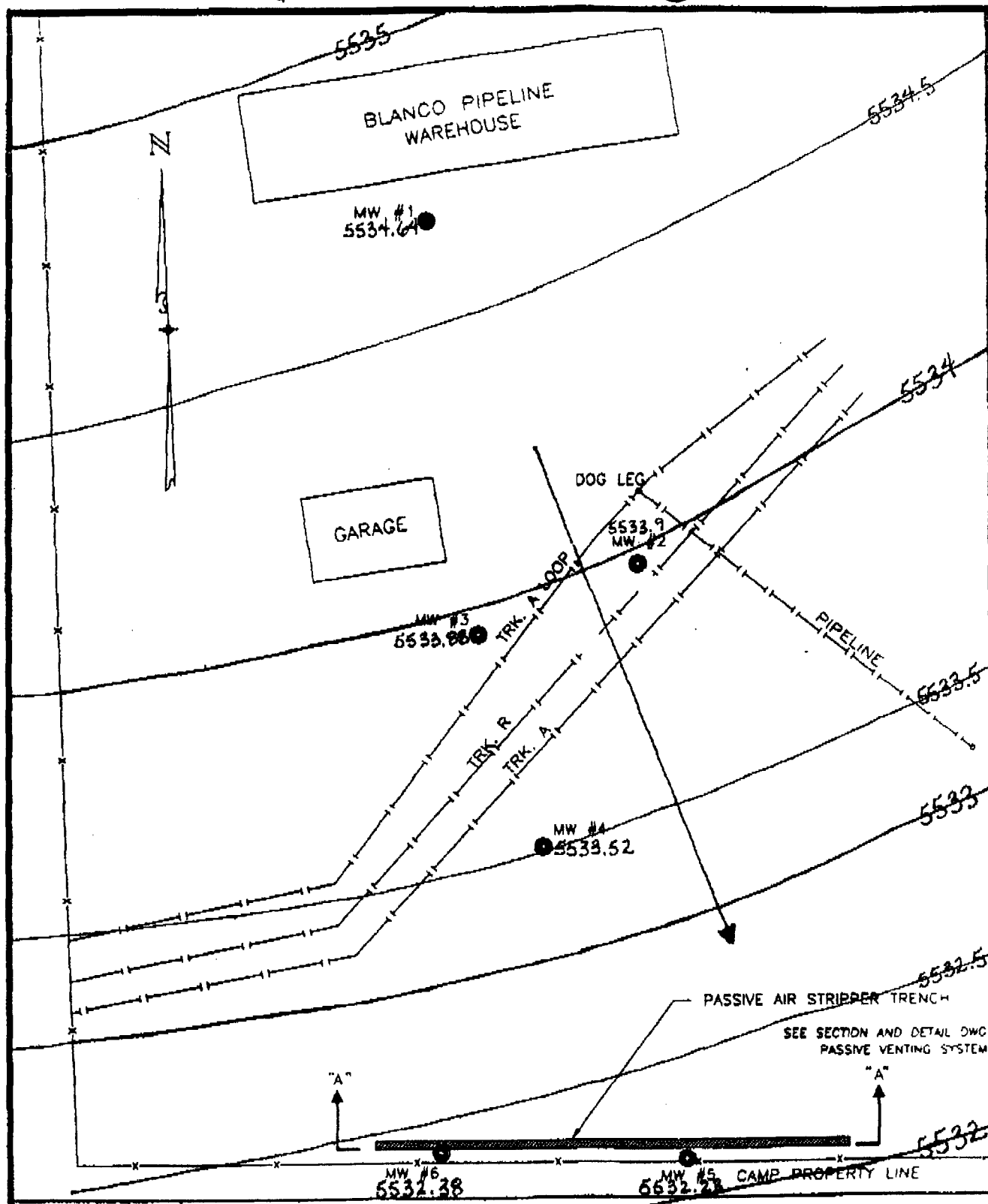
MW #6

MW #5

CAMP PROPERTY LINE

				ENG. RECORD DATE	 El Paso NATURAL GAS COMPANY BLANCO FIELD GROUND WATER MONITORING WELLS SEC. 18, T-29-N, R-9-W, N.M.P.M. SCALE 1"=50' DWG. NO. CGC NO. SP3142	REV. 4
				DRAWN MD 12/90		
				CHECK		
				CHECK		
				PROJ.		
PRT.	SEP.	DATE	TO	W.O.	DESIGN	
PRINT RECORD					W.O. K-5492	

4/22/94RAF



BLANCO FIELD
GROUND WATER MONITORING WELLS

SEC. 18. T-29-N. R-9-W. N.M.P.M.

SCALE 1"=50'
DWG. NO. SP3142

REV. 4

↘ = approximate groundwater flow direction