

3R - 104

**ANNUAL
MONITORING
REPORT**

03/07/2008



March 7, 2008

Mr. Glenn von Gonten
Hydrologist-Groundwater Remediation
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten,

XTO Energy Inc. (XTO) is submitting the Annual Groundwater Remediation Reports in accordance with the NMOCD approved Groundwater Management Plan (GMP). Enclosed are summary reports with analytical data, summary tables, site maps, potentiometric surface diagrams and recommendations/proposed actions for:

- Bruington Gas Com #1- 3RP106
- Carson Gas Com #1E
- EJ Johnson C #1E- 3RP385
- Federal Gas Com #H1 3R 110
- Frost, Jack B #2
- McCoy GC D #1E
- OH Randel #7- 3RP386
- PO Pipken #3E 3R 409
- Rowland Gas Com #1- 3RP124
- Snyder Gas Com #1A- 3RP126
- Sullivan Gas Com D #1- 3RP131
- Valdez A #1E- 3RP134

We have also enclosed an Annual Report for ten sites that meet the closure requirements outlined in the GMP. XTO respectfully requests closure of:

- Baca Gas Com A #1A- 3RP104
- Garcia Gas Com B #1- 3RP111
- Haney Gas Com B #1E- 3RP113
- Hare Gas Com B #1
- Hare Gas Com B #1E- 3RP384
- Hare Gas Com I #1
- Masden Gas Com #1E- 3RP120
- McDaniel Gas Com B #1E- 3RP121
- Stedje Gas Com #1- 3RP128
- Sullivan Frame A #1E- 3RP130

In previously submitted reports five sites met the closure requirements outlined in the GMP and XTO requested closure on those sites in 2006 and 2007. The reports for the below listed sites are being submitted again for your review.

- Abrams J #1- 3RP100
- Armenta Gas Com C #1E- 3RP394
- Bergin Gas Com #1E- 3RP105
- Romero Gas Com A #1- 3RP123
- State Gas Com BS #1- 3RP127

Thank you for your review of the reports. XTO looks forward to hearing from you regarding closure requests and proposed remediation actions. If you have any questions please do not hesitate to contact me at (505) 333-3100.

Respectfully,



Lisa Winn
EH & S Manager
San Juan Division

cc: Mr. Brandon Powell, Environmental, NMOCD District III Office, Aztec, NM
Mr. Martin Nee, Lodestar Services Inc.
File- San Juan Groundwater

3R104

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

***BACA GC A #1A
(F) SECTION 26 – T29N – R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO***

***PREPARED FOR:
MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION***

January 2008

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Appendices

Table 1:	Summary Groundwater Laboratory Results
Table 2:	General Water Chemistry Laboratory Results-05/25/99
Table 3:	General Water Chemistry Laboratory Results-06/12/96
Figure 1:	Site Map
Figures 2 – 5:	Potentiometric Surface Diagrams
Figures 6 – 8:	Geologic Logs and Well Completion Diagrams
Attachment 1:	2006 and 2007 Laboratory Reports
Attachment 2:	NMOCD Correspondence (12/14/00)
Attachment 3:	Pit Closure Report (4/94)

2007 XTO GROUNDWATER REPORT

BACA GAS COM A #1A

SITE DETAILS

LEGALS - TWN: 29N

RNG: 10W

SEC: 26

UNIT: F

NMOCD HAZARD RANKING: 50

LAND TYPE: FEE

PREVIOUS ACTIVITIES

Excavation: Apr-94 (<70 CY)

Monitoring Wells: May-96

Additional Monitoring Wells: Aug-06

Quarterly Sampling Initiated: Aug-06

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

Summary tables of groundwater analytical results are presented as Tables 1 through 3. Table 1 summarizes the benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations in groundwater from 1994 to present. Analytical results of general water quality parameters from 1996 and 1999 are summarized in Tables 2 and 3. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2006 and 2007 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected during site monitoring activities indicates a groundwater gradient that trends towards the northwest. Figures 2 – 5 illustrate the estimated groundwater gradients for 2006 and 2007.

ANNUAL GROUNDWATER REMEDIATION REPORTS

The 2005 annual groundwater report was submitted to New Mexico Oil Conservation Division (NMOCD) in April 2006 proposing quarterly sampling of the groundwater monitoring wells as directed by NMOCD in correspondence dated December 14, 2000 (Attachment 2) and in accordance with the NMOCD approved Groundwater Management Plan.

The 2006 annual groundwater report was submitted to NMOCD in February 2007, proposing continued quarterly sampling of the groundwater monitoring wells until analytical results confirm hydrocarbon constituents are below New Mexico Water Quality Control Commission (NMWQCC) standards for four (4) consecutive quarters.

2007 ACTIVITIES

Quarterly groundwater samples were collected from MW-1, MW-2, MW-3, and MW-4 in 2007 and submitted for laboratory analysis of BTEX. Laboratory results indicate BTEX constituents are below standards or not detectable for four quarters.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Reports are presented as Figures 6 - 8 representing drilling that occurred at the site in May 1996.

2007 XTO GROUNDWATER REPORT

DISPOSITION OF GENERATED WASTES

Waste generated (groundwater) during monitoring well sampling and development was placed in the produced water tank located on the well site.

CONCLUSIONS

January 1998 XTO Energy Inc. (XTO) acquired the Baca Gas Com A #1A from Amoco Production Company. XTO understands the initial evaluation of groundwater impact came from samples of groundwater collected from the bottom of the earthen pit in 1994 following excavation of hydrocarbon impacted soil (Attachment 3). Laboratory analysis of the initial samples collected in 2004 indicate elevated levels of dissolved phase BTEX constituents in groundwater, which are included in summary Table 1. In 1996 three groundwater monitoring wells were installed to delineate the extent of hydrocarbon impact to groundwater (Figure 1). Monitoring well numbered MW-2 was installed near the center of the source area, (closed and backfilled earthen blow pit). Monitoring well numbered MW-3 was placed down gradient of MW-2. BTEX constituents were not detected above the laboratory equipment detection limits (0.2 ug/L) in any of the three monitoring wells (Table 1). Sampling was terminated and site closure requests were submitted. Correspondence from the NMOCD, included as Attachment 2, required four (4) consecutive quarters below NMWQCC standards.

Groundwater analytical data from MW-1, MW-2, MW-3 and MW-4 for four (4) consecutive quarters have demonstrated no detectable levels of BTEX constituents and NMWQCC standards have been met. The quarterly sampling has confirmed no rebound of BTEX constituents has occurred, therefore, XTO requests closure of this site.

RECOMMENDATIONS

- XTO requests closure of this site.
- Following OCD approval for closure, all monitoring well locations will be abandoned in accordance with the monitoring well abandonment plan.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

BACA GC A #1A UNIT F, SEC. 26, T29N, R10W
--

Sample Date	Monitor Well No.	DTW (ft)	TD (ft)	Product (ft)	BTEX EPA Method 801 (PPB)			
					Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
12-Jun-96	MW #1	4.92	7.79		0.67	6	ND	1
30-Aug-06		6.69	7.7		ND	ND	ND	ND
28-Nov-06		4.39	7.7		ND	ND	ND	ND
19-Feb-07		3.79	7.7		ND	ND	ND	ND
17-May-07		4.34	7.7		ND	ND	ND	ND
12-Jun-96	MW #2	6.97	10.03		ND	ND	ND	ND
30-Aug-06		8.48	9.5		ND	ND	ND	ND
28-Nov-06		6.36	9.5		ND	ND	ND	ND
19-Feb-07		5.75	9.5		ND	ND	ND	ND
17-May-07		6.62	9.5		ND	ND	ND	ND
12-Jun-96	MW #3	6.77	9.24		ND	4	ND	ND
30-Aug-06		8.2	9.15		ND	ND	ND	ND
28-Nov-06		7.38	9.15		ND	ND	ND	ND
19-Feb-07		5.95	9.15		ND	ND	ND	ND
17-May-07		6.73	9.15		ND	ND	ND	ND
30-Aug-06	MW #4	8.34	15.07		ND	ND	ND	ND
28-Nov-06		6.2	15.07		ND	ND	ND	ND
19-Feb-07		5.59	15.07		ND	ND	ND	ND
17-May-07		6.55	15.07		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

NOTE: MW-4 installed 08/06

TABLE 2

XTO ENERGY INC. GROUNDWATER LAB RESULTS

BACA GC A #1A UNIT F, SEC. 26, T29N, R10W
--

Sample Date: May 25, 1999

PARAMETERS	MW #1	MW #2	MW #3	UNITS
LAB Ph	6.88	7.29	7.19	s.u.
LAB CONDUCTIVITY @ 25 C	10,700	8,800	6,470	umhos/cm
TOTAL DISSOLVED SOLIDS @ 180 C	5,350	4,380	3,230	mg/L
TOTAL DISSOLVED SOLIDS (Calc)	5,317	4,351	3,209	mg/L
SODIUM ABSORPTION RATIO	9.9	7.9	8.7	ratio
TOTAL ALKALINITY AS CaCO ₃	570	352	326	mg/L
TOTAL HARDNESS AS CaCO ₃	1,795	975	934	mg/L
BICARBONATE AS HCO ₃	570	352	326	mg/L
CARBONATE AS CO ₃	< 1	< 1	< 1	mg/L
HYDROXIDE AS OH	< 1	< 1	< 1	mg/L
NITRATE NITROGEN	0.2	0.4	0.2	mg/L
NITRITE NITROGEN	0.003	0.025	< 0.001	mg/L
CHLORIDE	11.5	58.8	54	mg/L
FLUORIDE	630	1.8	1.55	mg/L
PHOSPHATE	< 0.1	23.2	< 0.1	mg/L
SULFATE	3,300	2,710	1,920	mg/L
IRON	1.15	0.15	0.27	mg/L
CALCIUM	552	520	328	mg/L
MAGNESIUM	101	79.4	27.8	mg/L
POTASSIUM	40.0	14.0	70.0	mg/L
SODIUM	960	730	310	mg/L
CATION/ANION DIFFERENCE	0.09	0.14	0.12	%

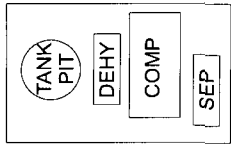
TABLE 3

XTO ENERGY INC. GROUNDWATER LAB RESULTS

BACA GC A #1A
UNIT F, SEC. 26, T29N, R10W

Sample Date: June 12, 1996

PARAMETERS	MW #1	MW #2	MW #3	UNITS
LAB Ph	7.3	7.5	7.2	s.u.
LAB CONDUCTIVITY @ 25 C	8,210	3,720	5,670	umhos/cm
TOTAL DISSOLVED SOLIDS @ 180 C	8,210	2,860	4,710	mg/L
TOTAL DISSOLVED SOLIDS (Calc)	7,860	2,560	4,130	mg/L
SODIUM ABSORPTION RATIO				ratio
TOTAL ALKALINITY AS CaCO ₃	764	239	358	mg/L
TOTAL HARDNESS AS CaCO ₃	4,620	900	1,460	mg/L
BICARBONATE AS HCO ₃	764	239	358	mg/L
CARBONATE AS CO ₃	NA	NA	NA	mg/L
HYDROXIDE AS OH	NA	NA	NA	mg/L
NITRATE NITROGEN	NA	NA	NA	mg/L
NITRITE NITROGEN	NA	NA	NA	mg/L
CHLORIDE	40	17.5	342	mg/L
FLUORIDE				mg/L
PHOSPHATE				mg/L
SULFATE	4,960	1,600	2,250	mg/L
IRON				mg/L
CALCIUM	497	311	498	mg/L
MAGNESIUM	91.6	30.2	53.2	mg/L
POTASSIUM	17.0	36.0	12.0	mg/L
SODIUM	1,800	420	760	mg/L
CATION/ANION DIFFERENCE	3.75	1.87	0.8	%



MW-3

BACA GC A #1A
WELL HEAD

METER
RUN

ACCESS ROAD

MCDANIEL GC B #1E
WELL HEAD

MCDANIEL
GC B1E
MW-3

PIT EXCAVATION
PERIMETER

METER
RUN

AUTOMATION BOX

MCDANIEL
GC B1E
MW-1

MCDANIEL
GC B1E
MW-2

SEP

FENCE

PIT EXCAVATION
PERIMETER

TANK
PIT

PROD
TANK

PROD
TANK

MW-1

SWAMP
WETLAND
AREA

1 INCH = 50 FEET

0 50 100 FT.

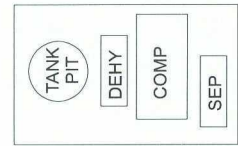
MONITORING WELL LOCATIONS ARE ONLY AS ACCURATE
AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE
AND BEARING FROM THE WELL HEAD (BRUNTON
COMPASS AND LASER RANGE FINDER). ALL OTHER
STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY
FOR REFERENCE AND MAY NOT BE TO SCALE.

Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

BACA GC A1A
SE/4 NW/4 SEC. 26, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 01/24/07

FIGURE 1
SITEMAP



TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
--- = INFERRED GROUNDWATER CONTOUR LINE

FLOW = 0.002

5508.50

5508.60

5508.70

MW-3
TOC = 5516.54
GWEL = 5508.34

MW-2
TOC = 5517.04
GWEL = 5508.56

MW-4
TOC = 5516.86
GWEL = 5508.52

MW-1
TOC = 5515.45
GWEL = 5508.76

BACA GC A #1A
WELL HEAD

ACCESS ROAD

METER
RUN

MCDANIEL GC B #1E
WELL HEAD

MCDANIEL
GC B1E
MW-3

PIT EXCAVATION
PERIMETER

METER
RUN

AUTOMATION BOX

MCDANIEL
GC B1E
MW-1

MCDANIEL
GC B1E
MW-2

SEP

SWAMP
WETLAND
AREA

1 INCH = 50 FEET

0 50 100 FT.

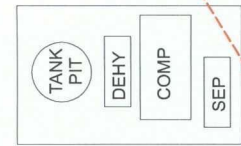
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Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

BACA GC A1A
SE/4 NW/4 SEC. 26, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 01/05/07

GROUNDWATER GRADIENT MAP
08/29/2006
FIGURE 2



TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
--- = INFERRED GROUNDWATER CONTOUR LINE

5510.40



MW-3
TOC = 5516.54
GWEL = 5510.34

5510.60

MW-2

TOC = 5517.04
GWEL = 5510.68

5510.80



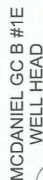
MW-4
TOC = 5516.86
GWEL = 5510.66



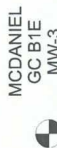
BACA GC A #1A
WELL HEAD



ACCESS ROAD



MCDANIEL GC B #1E
WELL HEAD

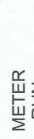


MCDANIEL
GC B1E
MW-3

PIT EXCAVATION
PERIMETER



MCDANIEL
GC B1E
MW-2



MCDANIEL
GC B1E
MW-1

MONITORING WELL LOCATIONS ARE ONLY AS ACCURATE
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1 INCH = 50 FEET
0 50 100 FT.

SWAMP
WETLAND
AREA



MW-1
TOC = 5515.45
GWEL = 5511.06

5511.00

PIT EXCAVATION
PERIMETER

TANK
PIT

PROD
TANK

PROD
TANK

SEP

FENCE



Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

BACA GC A1A

SE/4 NW/4 SEC. 26, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER

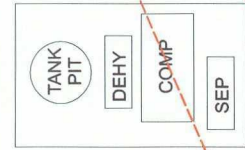
DRAWN BY: ALA

REVISED: 01/05/07

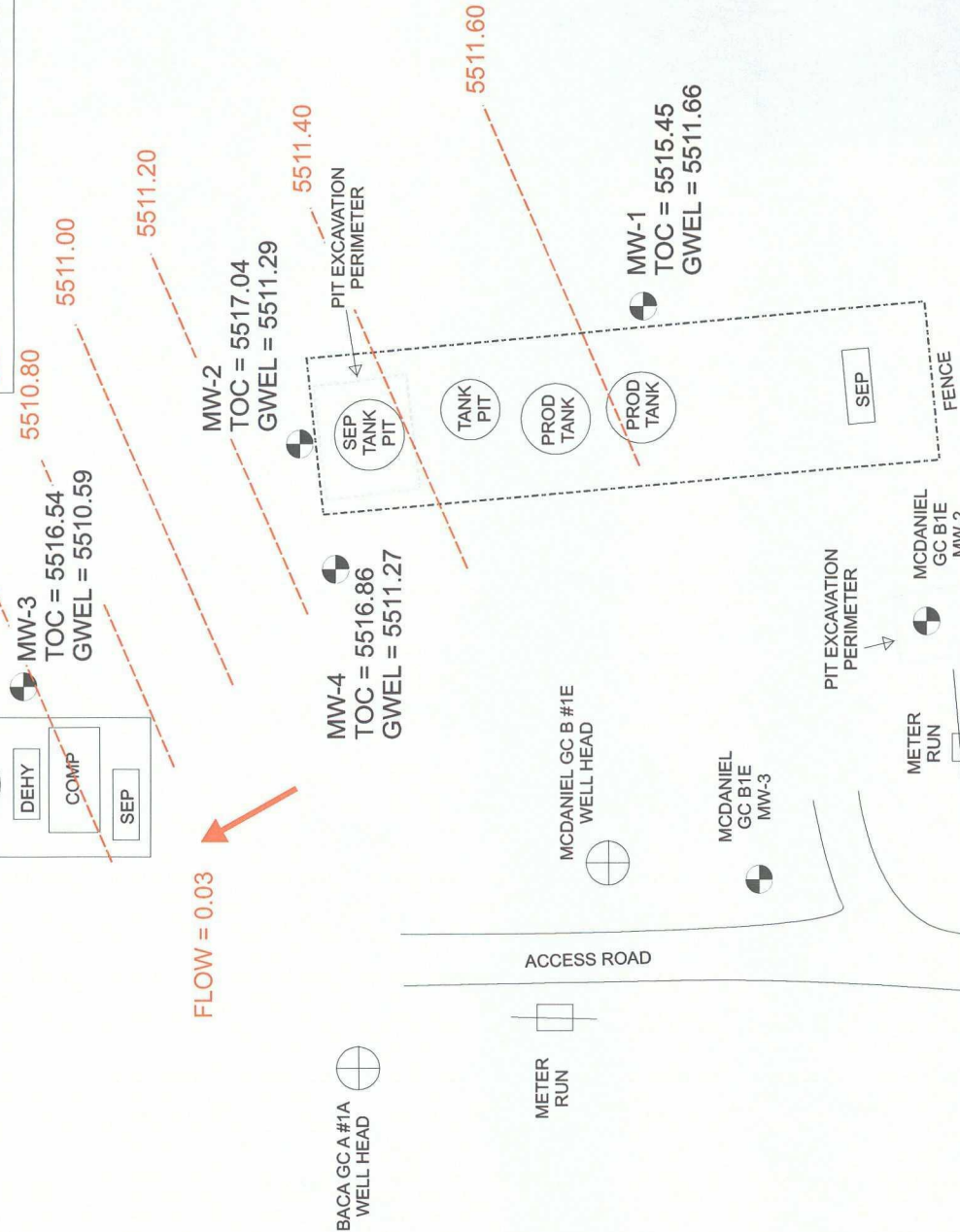
GROUNDWATER GRADIENT MAP

11/28/2006

FIGURE 3



TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
--- = INFERRED GROUNDWATER CONTOUR LINE



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

Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

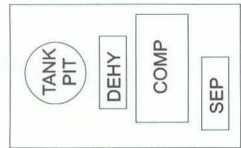
BACA GC A1A
SE/4 NW/4 SEC. 26, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 02/20/07

GROUNDWATER GRADIENT MAP
02/19/2007
FIGURE 4



TOC = TOP OF CASING ELEVATION
GWEL = GROUNDWATER ELEVATION
--- = INFERRED GROUNDWATER CONTOUR LINE



MW-3
TOC = 5516.54
GWEL = 5509.81

FLOW = 0.03

5510.50

MW-2
TOC = 5517.04
GWEL = 5510.42

MW-4
TOC = 5516.86
GWEL = 5510.31

BACA GC A #1A
WELL HEAD

METER
RUN

ACCESS ROAD

MCDANIEL GC B #1E
WELL HEAD

MCDANIEL
GC B1E
MW-3

PIT EXCAVATION
PERIMETER

MCDANIEL
GC B1E
MW-2

METER
RUN

AUTOMATION BOX

MCDANIEL
GC B1E
MW-1

SEP
TANK
PIT

TANK
PIT

PROD
TANK

PROD
TANK


MW-1
TOC = 5515.45
GWEL = 5511.11

SWAMP
WETLAND
AREA

5511.00



MONITORING WELL LOCATIONS ARE ONLY AS ACCURATE
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AND BEARING FROM THE WELL HEAD (BRUNTON
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 **Lodestar Services, Inc**
PO Box 3861
Farmington, NM 87499

BACA GC A1A
SE/4 NW/4 SEC. 26, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 05/21/07

GROUNDWATER GRADIENT MAP
05/17/2007
FIGURE 5

FIGURE 6

BLAGG ENGINEERING, Inc.

P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

BORE / TEST HOLE REPORT

LOCATION NAME: BACA GC A # 1A
 CLIENT: AMOCO PRODUCTION COMPANY
 CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS
 EQUIPMENT USED: BACKHOE
 BORING LOCATION: S73E. 225 FEET FROM WELL HEAD.

BORING #..... BH - 1
 MW #..... 1
 PAGE #..... 1
 DATE STARTED 5/17/96
 DATE FINISHED 5/17/96
 OPERATOR..... BM
 PREPARED BY NJV

DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
				TOP OF CASING APPROX. 1.75 FT. ABOVE GROUND SURFACE.
1			TOS 0.98	DARK YELLOWISH BROWN SAND AND GRAVEL CONTINUOUS THROUGHOUT ENTIRE BORING. NON COHESIVE. SLIGHTLY MOIST TO SATURATED (AT GROUNDWATER). FIRM. NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 5.98 FT. INTERVAL). ▼ GW DEPTH ON 6/12/96 = 3.17 FT. (APPROX.) FROM GROUND SURFACE.
2				
3				
4				
5				
6			TD 5.98	
7				
8				
9				
10				
11				
12				
13				
14				
15				


NOTES:  - SAND & GRAVEL (VARYING SIZES).
 TOS - TOP OF SCREEN FROM GROUND SURFACE.
 TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
 GW - GROUND WATER.

FIGURE 7

BLAGG ENGINEERING, Inc.

P.O. BOX 87
BLOOMFIELD, NM 87413

(505) 632-1199



BORE / TEST HOLE REPORT

LOCATION NAME: BACA GC A # 1A
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS
EQUIPMENT USED: BACKHOE
BORING LOCATION: S86E, 174 FEET FROM WELL HEAD.

BORING #..... BH - 2
MW #..... 2
PAGE #..... 2
DATE STARTED 5/17/96
DATE FINISHED 5/17/96
OPERATOR..... BM
PREPARED BY NJV

DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
				TOP OF CASING APPROX. 2.80 FT. ABOVE GROUND SURFACE.
1				
2				DARK YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, SLIGHTLY MOIST, FIRM. NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 3.5 FT. INTERVAL).
3				
4				▼ GW DEPTH ON 6/12/96 = 4.17 FT. (APPROX.) FROM GROUND SURFACE.
5				
6				DARK GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT HYDROCARBON ODOR OBSERVED (3.5 - 7.2 FT. INTERVAL).
7				
8				
9				
10				
11				
12				
13				
14				
15				

NOTES:

-  - SAND & GRAVEL (VARYING SIZES).
-  - SAND & GRAVEL (VARYING SIZES) DISCOLORED.
- TOS - TOP OF SCREEN FROM GROUND SURFACE.
- TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
- GW - GROUND WATER.

DRAWING: BACA-2

DATE: 2/25/97

DWN BY: NJV

FIGURE 8

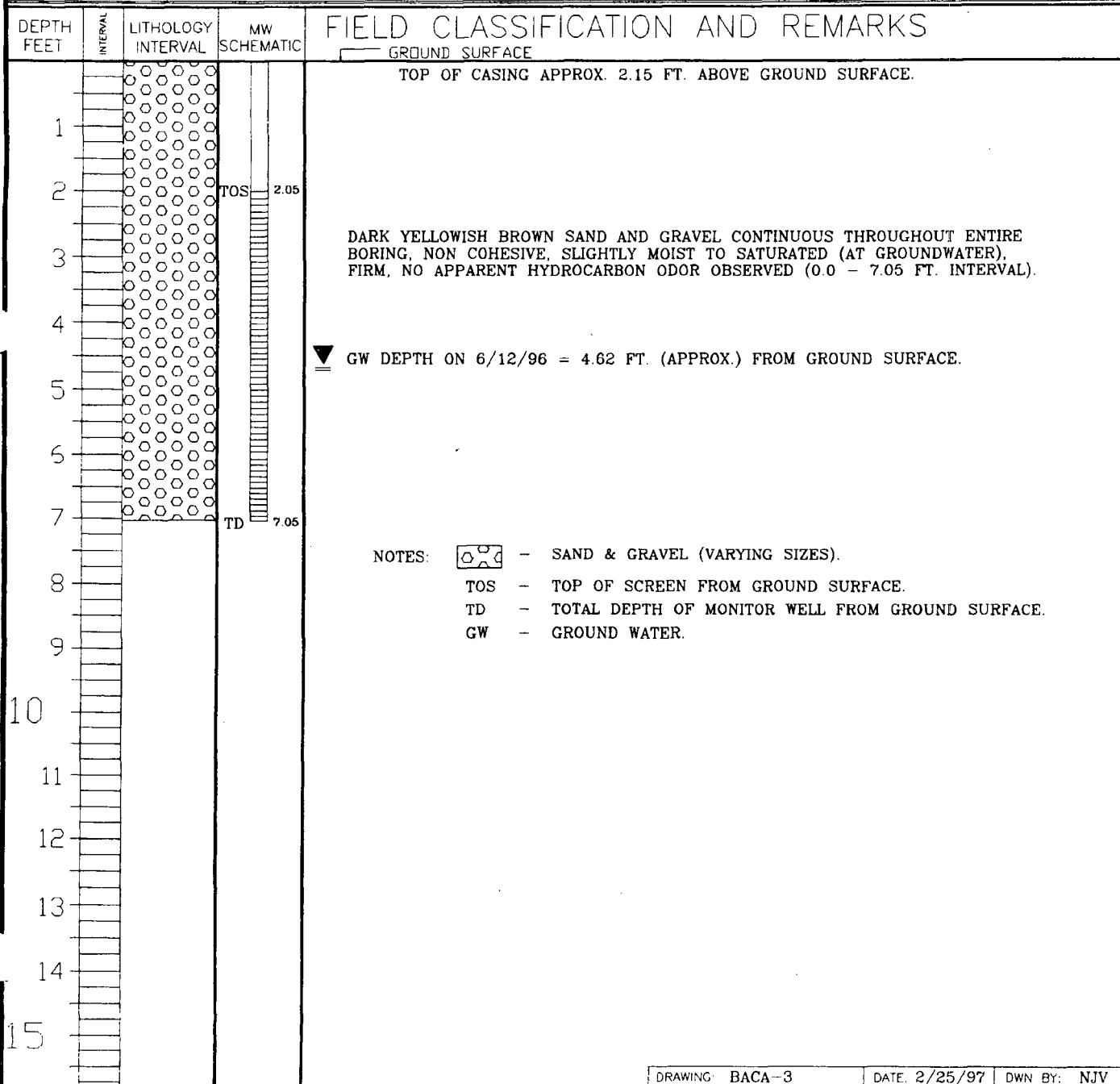
BLAGG ENGINEERING, Inc.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

BORE / TEST HOLE REPORT

LOCATION NAME: BACA GC A # 1A
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS
EQUIPMENT USED: BACKHOE
BORING LOCATION: N53E, 126 FEET FROM WELL HEAD.

BORING #..... BH - 3
MW #..... 3
PAGE #..... 3
DATE STARTED 5/17/96
DATE FINISHED 5/17/96
OPERATOR..... BM
PREPARED BY NJV



DRAWING: BACA-3

DATE: 2/25/97

DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Sep-06

CLIENT: XTO Energy
Project: Ground water**Lab Order:** 0609024**Lab ID:** 0609024-01**Collection Date:** 8/30/2006 7:45:00 AM**Client Sample ID:** Baca Gas Com AIA MW-2**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/5/2006 12:28:41 PM
Toluene	ND	1.0		µg/L	1	9/5/2006 12:28:41 PM
Ethylbenzene	ND	1.0		µg/L	1	9/5/2006 12:28:41 PM
Xylenes, Total	ND	3.0		µg/L	1	9/5/2006 12:28:41 PM
Surr: 4-Bromofluorobenzene	97.0	72.2-125		%REC	1	9/5/2006 12:28:41 PM

Lab ID: 0609024-02**Collection Date:** 8/30/2006 7:48:00 AM**Client Sample ID:** Baca Gas Com AIA MW-1**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/5/2006 11:59:47 AM
Toluene	ND	1.0		µg/L	1	9/5/2006 11:59:47 AM
Ethylbenzene	ND	1.0		µg/L	1	9/5/2006 11:59:47 AM
Xylenes, Total	ND	3.0		µg/L	1	9/5/2006 11:59:47 AM
Surr: 4-Bromofluorobenzene	99.0	72.2-125		%REC	1	9/5/2006 11:59:47 AM

Lab ID: 0609024-03**Collection Date:** 8/30/2006 7:52:00 AM**Client Sample ID:** Baca Gas Com AIA MW-3**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/5/2006 12:57:38 PM
Toluene	ND	1.0		µg/L	1	9/5/2006 12:57:38 PM
Ethylbenzene	ND	1.0		µg/L	1	9/5/2006 12:57:38 PM
Xylenes, Total	ND	3.0		µg/L	1	9/5/2006 12:57:38 PM
Surr: 4-Bromofluorobenzene	97.9	72.2-125		%REC	1	9/5/2006 12:57:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Sep-06

CLIENT: XTO Energy
Project: Ground water**Lab Order:** 0609024**Lab ID:** 0609024-04**Collection Date:** 8/30/2006 4:57:00 PM**Client Sample ID:** Baca Gas Com AIA MW-4**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/6/2006 4:26:52 PM
Toluene	ND	1.0		µg/L	1	9/6/2006 4:26:52 PM
Ethylbenzene	ND	1.0		µg/L	1	9/6/2006 4:26:52 PM
Xylenes, Total	ND	3.0		µg/L	1	9/6/2006 4:26:52 PM
Surr: 4-Bromofluorobenzene	97.6	72.2-125		%REC	1	9/6/2006 4:26:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground water

Work Order: 0609024

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R20558 Analysis Date: 9/5/2006 9:05:41 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R20581 Analysis Date: 9/6/2006 11:07:46 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 100NG BTEX CCV

LCS

Batch ID: R20558 Analysis Date: 9/5/2006 9:34:46 AM

Benzene	18.47	µg/L	1.0	92.4	85	115
Toluene	18.11	µg/L	1.0	90.6	85	118
Ethylbenzene	18.79	µg/L	1.0	94.0	85	116
Xylenes, Total	53.77	µg/L	3.0	88.1	85	119

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R20581 Analysis Date: 9/6/2006 10:45:52 PM

Benzene	21.00	µg/L	1.0	105	85	115
Toluene	21.78	µg/L	1.0	109	85	118
Ethylbenzene	23.42	µg/L	1.0	117	85	116
Xylenes, Total	67.49	µg/L	3.0	111	85	119

S

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R20581 Analysis Date: 9/6/2006 11:14:40 PM

Benzene	20.84	µg/L	1.0	104	85	115	0.746	27
Toluene	20.71	µg/L	1.0	104	85	118	5.06	19
Ethylbenzene	21.79	µg/L	1.0	109	85	116	7.20	10
Xylenes, Total	64.96	µg/L	3.0	107	85	119	3.83	13

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S 3/4: Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Dec-06

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0611364

Lab ID: 0611364-04

Collection Date: 11/28/2006 8:50:00 AM

~~Client Sample ID: Garcia Gas Com B1 MW-2~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	11/30/2006 4:27:26 PM
Toluene	2.1	1.0		µg/L	1	11/30/2006 4:27:26 PM
Ethylbenzene	4.8	1.0		µg/L	1	11/30/2006 4:27:26 PM
Xylenes, Total	190	3.0		µg/L	1	11/30/2006 4:27:26 PM
Surr: 4-Bromofluorobenzene	84.3	70.2-105		%REC	1	11/30/2006 4:27:26 PM

Lab ID: 0611364-05

Collection Date: 11/28/2006 10:10:00 AM

Client Sample ID: Baca Gas Com A1A MW-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	11/30/2006 4:57:29 PM
Toluene	ND	1.0		µg/L	1	11/30/2006 4:57:29 PM
Ethylbenzene	ND	1.0		µg/L	1	11/30/2006 4:57:29 PM
Xylenes, Total	ND	3.0		µg/L	1	11/30/2006 4:57:29 PM
Surr: 4-Bromofluorobenzene	81.8	70.2-105		%REC	1	11/30/2006 4:57:29 PM

Lab ID: 0611364-06

Collection Date: 11/28/2006 10:06:00 AM

Client Sample ID: Baca Gas Com A1A MW-2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	11/30/2006 5:27:26 PM
Toluene	ND	1.0		µg/L	1	11/30/2006 5:27:26 PM
Ethylbenzene	ND	1.0		µg/L	1	11/30/2006 5:27:26 PM
Xylenes, Total	ND	3.0		µg/L	1	11/30/2006 5:27:26 PM
Surr: 4-Bromofluorobenzene	81.9	70.2-105		%REC	1	11/30/2006 5:27:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Dec-06

CLIENT: XTO Energy Lab Order: 0611364
Project: Ground Water

Lab ID: 0611364-07 Collection Date: 11/28/2006 10:55:00 AM
Client Sample ID: Baca Gas Com A1A MW-1 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/1/2006 8:58:48 AM
Toluene	ND	1.0		µg/L	1	12/1/2006 8:58:48 AM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 8:58:48 AM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 8:58:48 AM
Surr: 4-Bromofluorobenzene	83.7	70.2-105		%REC	1	12/1/2006 8:58:48 AM

Lab ID: 0611364-08 Collection Date: 11/28/2006 10:49:00 AM
Client Sample ID: Baca Gas Com A1A MW-4 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/1/2006 9:30:34 AM
Toluene	ND	1.0		µg/L	1	12/1/2006 9:30:34 AM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 9:30:34 AM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 9:30:34 AM
Surr: 4-Bromofluorobenzene	82.3	70.2-105		%REC	1	12/1/2006 9:30:34 AM

Qualifiers: * Value exceeds Maximum Contaminant Level B Analyte detected in the associated Method Blank
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit RL Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0611364

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 5ML RB

MBLK

Batch ID: R21633 Analysis Date: 11/30/2006 8:50:27 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 125NG BTEX CCV-B

LCS

Batch ID: R21633 Analysis Date: 12/1/2006 8:28:43 AM

Benzene	24.67	µg/L	1.0	98.7	85.9	113
Toluene	24.24	µg/L	1.0	97.0	86.4	113
Ethylbenzene	23.65	µg/L	1.0	94.6	83.5	118
Xylenes, Total	71.15	µg/L	3.0	94.9	83.4	122

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Feb-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0702229

Lab ID: 0702229-01
Client Sample ID: Baca GC AIA MW-2

Collection Date: 2/19/2007 9:35:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 9:54:49 AM
Benzene	ND	1.0		µg/L	1	2/22/2007 9:54:49 AM
Toluene	ND	1.0		µg/L	1	2/22/2007 9:54:49 AM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 9:54:49 AM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 9:54:49 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 9:54:49 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 9:54:49 AM
Surr: 4-Bromofluorobenzene	85.0	70.2-105		%REC	1	2/22/2007 9:54:49 AM

Lab ID: 0702229-02
Client Sample ID: Baca GC AIA MW-1

Collection Date: 2/19/2007 9:52:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 10:24:59 AM
Benzene	ND	1.0		µg/L	1	2/22/2007 10:24:59 AM
Toluene	ND	1.0		µg/L	1	2/22/2007 10:24:59 AM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:24:59 AM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 10:24:59 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:24:59 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:24:59 AM
Surr: 4-Bromofluorobenzene	88.4	70.2-105		%REC	1	2/22/2007 10:24:59 AM

Lab ID: 0702229-03
Client Sample ID: Baca GC AIA MW-3

Collection Date: 2/19/2007 10:05:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 10:55:10 AM
Benzene	ND	1.0		µg/L	1	2/22/2007 10:55:10 AM
Toluene	ND	1.0		µg/L	1	2/22/2007 10:55:10 AM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:55:10 AM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 10:55:10 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:55:10 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 10:55:10 AM
Surr: 4-Bromofluorobenzene	87.4	70.2-105		%REC	1	2/22/2007 10:55:10 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Feb-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0702229

Lab ID: 0702229-04
Client Sample ID: Baca GC AIA MW-4

Collection Date: 2/19/2007 10:54:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 11:25:14 AM
Benzene	ND	1.0		µg/L	1	2/22/2007 11:25:14 AM
Toluene	ND	1.0		µg/L	1	2/22/2007 11:25:14 AM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:25:14 AM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 11:25:14 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:25:14 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:25:14 AM
Surr: 4-Bromofluorobenzene	85.8	70.2-105		%REC	1	2/22/2007 11:25:14 AM

Lab ID: 0702229-05
Client Sample ID: ~~Abrams JI MW-10~~

Collection Date: 2/19/2007 11:24:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 11:55:15 AM
Benzene	ND	1.0		µg/L	1	2/22/2007 11:55:15 AM
Toluene	ND	1.0		µg/L	1	2/22/2007 11:55:15 AM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:55:15 AM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 11:55:15 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:55:15 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 11:55:15 AM
Surr: 4-Bromofluorobenzene	87.0	70.2-105		%REC	1	2/22/2007 11:55:15 AM

Lab ID: 0702229-06
Client Sample ID: ~~Abrams JI MW-11~~

Collection Date: 2/19/2007 11:36:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	2/22/2007 12:25:21 PM
Benzene	ND	1.0		µg/L	1	2/22/2007 12:25:21 PM
Toluene	ND	1.0		µg/L	1	2/22/2007 12:25:21 PM
Ethylbenzene	ND	1.0		µg/L	1	2/22/2007 12:25:21 PM
Xylenes, Total	ND	2.0		µg/L	1	2/22/2007 12:25:21 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 12:25:21 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/22/2007 12:25:21 PM
Surr: 4-Bromofluorobenzene	88.6	70.2-105		%REC	1	2/22/2007 12:25:21 PM

Qualifiers: *

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits 2 / 8

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0702229

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0702229-10A MSD									
		MSD			Batch ID: R22570		Analysis Date: 2/22/2007 3:25:51 PM		
Methyl tert-butyl ether (MTBE)	19.30	µg/L	2.5	96.5	51.2	138	0.897	28	
Benzene	19.64	µg/L	1.0	98.2	85.9	113	2.69	27	
Toluene	19.77	µg/L	1.0	98.8	86.4	113	1.36	19	
Ethylbenzene	19.78	µg/L	1.0	98.9	83.5	118	2.27	10	
Xylenes, Total	59.88	µg/L	2.0	99.8	83.4	122	2.13	13	
1,2,4-Trimethylbenzene	19.41	µg/L	1.0	97.1	83.5	115	2.48	21	
1,3,5-Trimethylbenzene	19.43	µg/L	1.0	97.2	85.2	113	2.27	10	
Sample ID: 5ML REAGENT BLA									
		MBLK			Batch ID: R22570		Analysis Date: 2/22/2007 8:13:34 AM		
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
Sample ID: 5ML REAGENT BLA									
		MBLK			Batch ID: R22594		Analysis Date: 2/23/2007 8:08:20 AM		
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
Sample ID: 100NG BTEX LCS									
		LCS			Batch ID: R22570		Analysis Date: 2/22/2007 3:55:54 PM		
Methyl tert-butyl ether (MTBE)	19.74	µg/L	2.5	98.7	51.2	138			
Benzene	20.24	µg/L	1.0	101	85.9	113			
Toluene	20.28	µg/L	1.0	101	86.4	113			
Ethylbenzene	20.44	µg/L	1.0	102	83.5	118			
Xylenes, Total	61.89	µg/L	2.0	103	83.4	122			
1,2,4-Trimethylbenzene	20.52	µg/L	1.0	103	83.5	115			
1,3,5-Trimethylbenzene	20.33	µg/L	1.0	102	85.2	113			
Sample ID: 100NG BTEX LCS									
		LCS			Batch ID: R22594		Analysis Date: 2/23/2007 8:14:12 PM		
Methyl tert-butyl ether (MTBE)	17.63	µg/L	2.5	88.2	51.2	138			
Benzene	20.52	µg/L	1.0	103	85.9	113			
Toluene	20.30	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.25	µg/L	1.0	101	83.5	118			
Xylenes, Total	61.56	µg/L	2.0	103	83.4	122			
1,2,4-Trimethylbenzene	20.17	µg/L	1.0	101	83.5	115			
1,3,5-Trimethylbenzene	20.03	µg/L	1.0	100	85.2	113			
Sample ID: 0702229-10A MS									
		MS			Batch ID: R22570		Analysis Date: 2/22/2007 2:55:46 PM		
Methyl tert-butyl ether (MTBE)	19.48	µg/L	2.5	97.4	51.2	138			
Benzene	20.17	µg/L	1.0	101	85.9	113			
Toluene	20.04	µg/L	1.0	100	86.4	113			

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0702229

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 0702229-10A MS

MS

Batch ID: R22570

Analysis Date: 2/22/2007 2:55:46 PM

Ethylbenzene	20.24	µg/L	1.0	101	83.5	118			
Xylenes, Total	61.17	µg/L	2.0	102	83.4	122			
1,2,4-Trimethylbenzene	19.90	µg/L	1.0	99.5	83.5	115			
1,3,5-Trimethylbenzene	19.88	µg/L	1.0	99.4	85.2	113			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Sample recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-May-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0705289

Lab ID: 0705289-07

Collection Date: 5/17/2007 2:10:00 PM

Client Sample ID: Baca GCA #1A MW-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 12:37:28 AM
Toluene	ND	1.0		µg/L	1	5/24/2007 12:37:28 AM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 12:37:28 AM
Xylenes, Total	ND	2.0		µg/L	1	5/24/2007 12:37:28 AM
Surr: 4-Bromofluorobenzene	85.2	70.2-105		%REC	1	5/24/2007 12:37:28 AM

Lab ID: 0705289-08

Collection Date: 5/17/2007 2:14:00 PM

Client Sample ID: Baca GCA #1A MW-2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 1:07:31 AM
Toluene	ND	1.0		µg/L	1	5/24/2007 1:07:31 AM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 1:07:31 AM
Xylenes, Total	ND	2.0		µg/L	1	5/24/2007 1:07:31 AM
Surr: 4-Bromofluorobenzene	86.5	70.2-105		%REC	1	5/24/2007 1:07:31 AM

Lab ID: 0705289-09

Collection Date: 5/17/2007 2:22:00 PM

Client Sample ID: Baca GCA #1A MW-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 1:37:30 AM
Toluene	ND	1.0		µg/L	1	5/24/2007 1:37:30 AM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 1:37:30 AM
Xylenes, Total	ND	2.0		µg/L	1	5/24/2007 1:37:30 AM
Surr: 4-Bromofluorobenzene	87.7	70.2-105		%REC	1	5/24/2007 1:37:30 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 29-May-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0705289

Lab ID: 0705289-10

Collection Date: 5/17/2007 2:42:00 PM

Client Sample ID: Baca GCA #1A MW-4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 2:07:31 AM
Toluene	ND	1.0		µg/L	1	5/24/2007 2:07:31 AM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 2:07:31 AM
Xylenes, Total	ND	2.0		µg/L	1	5/24/2007 2:07:31 AM
Surr: 4-Bromofluorobenzene	85.1	70.2-105		%REC	1	5/24/2007 2:07:31 AM

Lab ID: 0705289-11

Collection Date: 5/17/2007 3:13:00 PM

Client Sample ID: ~~McCoy GCD #1E MW-2~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 5:32:21 PM
Toluene	ND	1.0		µg/L	1	5/24/2007 5:32:21 PM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 5:32:21 PM
Xylenes, Total	3.1	2.0		µg/L	1	5/24/2007 5:32:21 PM
Surr: 4-Bromofluorobenzene	87.8	70.2-105		%REC	1	5/24/2007 5:32:21 PM

Lab ID: 0705289-12

Collection Date: 5/17/2007 3:32:00 PM

Client Sample ID: ~~McCoy GCD #1E MW-3~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/24/2007 6:02:34 PM
Toluene	ND	1.0		µg/L	1	5/24/2007 6:02:34 PM
Ethylbenzene	ND	1.0		µg/L	1	5/24/2007 6:02:34 PM
Xylenes, Total	ND	2.0		µg/L	1	5/24/2007 6:02:34 PM
Surr: 4-Bromofluorobenzene	88.0	70.2-105		%REC	1	5/24/2007 6:02:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0705289

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 0705289-02A MSD

MSD

Batch ID: R23705

Analysis Date: 5/23/2007 9:34:21 PM

Benzene	19.06	µg/L	1.0	95.3	85.9	113	0.794	27
Toluene	19.13	µg/L	1.0	95.7	86.4	113	0.812	19
Ethylbenzene	19.00	µg/L	1.0	95.0	83.5	118	0.462	10
Xylenes, Total	56.16	µg/L	2.0	93.6	83.4	122	0.901	13

Sample ID: 0705289-16A MSD

MSD

Batch ID: R23752

Analysis Date: 5/25/2007 10:32:54 AM

Benzene	20.43	µg/L	1.0	102	85.9	113	1.85	27
Toluene	20.97	µg/L	1.0	105	86.4	113	1.52	19
Ethylbenzene	20.81	µg/L	1.0	104	83.5	118	2.27	10
Xylenes, Total	61.35	µg/L	2.0	102	83.4	122	1.79	13

Sample ID: 5ML RB-II

MBLK

Batch ID: R23705

Analysis Date: 5/23/2007 10:03:56 AM

Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	µg/L	2.0					

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R23736

Analysis Date: 5/24/2007 8:33:09 AM

Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	µg/L	2.0					

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R23752

Analysis Date: 5/25/2007 8:32:19 AM

Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	µg/L	2.0					

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R23705

Analysis Date: 5/23/2007 11:04:02 AM

Benzene	18.93	µg/L	1.0	94.6	85.9	113		
Toluene	19.74	µg/L	1.0	98.7	86.4	113		
Ethylbenzene	19.87	µg/L	1.0	99.3	83.5	118		
Xylenes, Total	60.16	µg/L	2.0	100	83.4	122		

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R23736

Analysis Date: 5/24/2007 9:38:17 PM

Benzene	19.56	µg/L	1.0	97.8	85.9	113		
Toluene	19.93	µg/L	1.0	99.7	86.4	113		
Ethylbenzene	19.97	µg/L	1.0	99.9	83.5	118		
Xylenes, Total	59.82	µg/L	2.0	99.7	83.4	122		

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R23752

Analysis Date: 5/25/2007 2:03:57 PM

Benzene	19.64	µg/L	1.0	98.2	85.9	113		
Toluene	20.09	µg/L	1.0	100	86.4	113		
Ethylbenzene	19.98	µg/L	1.0	99.9	83.5	118		
Xylenes, Total	59.73	µg/L	2.0	99.5	83.4	122		

Sample ID: 0705289-02A MS

MS

Batch ID: R23705

Analysis Date: 5/23/2007 9:04:25 PM

Benzene	19.21	µg/L	1.0	96.0	85.9	113		
Toluene	19.29	µg/L	1.0	96.4	86.4	113		

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Ground Water

Work Order: 0705289

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 0705289-02A MS

MS

Batch ID: R23705

Analysis Date: 5/23/2007 9:04:25 PM

Ethylbenzene 19.09 µg/L 1.0 95.4 83.5 118

Xylenes, Total 56.66 µg/L 2.0 94.4 83.4 122

Sample ID: 0705289-16A MS

MS

Batch ID: R23752

Analysis Date: 5/25/2007 10:02:41 AM

Benzene 20.05 µg/L 1.0 100 85.9 113

Toluene 20.66 µg/L 1.0 103 86.4 113

Ethylbenzene 20.34 µg/L 1.0 102 83.5 118

Xylenes, Total 60.26 µg/L 2.0 99.8 83.4 122

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits



Back GC #1A

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 14, 2000

CERTIFIED MAIL
RETURN RECEIPT NO: 5051-3983

Ms. Nina Hutton
Cross Timbers Oil Company
810 Houston St., Suite 2000
Fort Worth, Texas 76102-6298

RE: PIT CLOSURE/GROUND WATER MONITORING REPORTS

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed Cross Timbers Oil Company's (CTOC) February 21, 2000 "1999 ANNUAL GROUNDWATER REPORTS, SAN JUAN COUNTY, NEW MEXICO, PERMANENT CLOSURE REQUESTED" which was submitted on behalf of CTOC by their consultant Blagg Engineering, Inc. This document contains the results of CTOC's investigation, remediation and monitoring of soil and ground water contamination related to the disposal of oilfield wastes in unlined pits at 10 sites in the San Juan Basin and requests closure of the remedial actions.

Below is the OCD's review of the above referenced document:

- A. The soil and ground water remedial actions at the sites listed below are satisfactory and the OCD **approves** of the closure of these pit sites. Please be advised that OCD approval does not relieve CTOC of responsibility if remaining contaminants pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve CTOC of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

- | | |
|------------------------------------|------------------------------|
| 1. Hare GC C #1 (Blow pit) | Unit M, Sec. 25, T29N, R10W. |
| 2. Pearce GC #1E (Blow pit) | Unit J, Sec. 23, T29N, R11W. |
| 3. Sanchez GC #1 (Blow pit) | Unit G, Sec. 28, T29N, R10W. |
| 4. Texas National GC #1 (Blow pit) | Unit I, Sec. 19, T29N, R09W. |

Oil Conservation Division * 2040 South Pacheco Street * Santa Fe, New Mexico 87505
Phone: (505) 827-7131 * Fax (505) 827-8177 * <http://www.emnrd.state.nm.us>

- B. The sites listed below were initially found to have ground water contaminated with benzene, toluene, ethylbenzene and xylene (BTEX) in excess of New Mexico Water Quality Control Commission (WQCC) standards. The reports for these sites contain only one subsequent round of water quality sampling events demonstrating that ground water currently meets WQCC standards. CTOC's approved ground water management plan required that all sites contaminated in excess of the WQCC standards would not be submitted for final closure until ground water quality at all monitoring points were below WQCC standards for a minimum of 4 consecutive quarters. Therefore, approval of the closure actions at these sites is **denied**. The OCD requires that CTOC continue ground water quality monitoring at these sites. Pursuant to the previously approved ground water management plan, the OCD will reconsider issuing final closure approval after CTOC demonstrates that ground water quality at all monitoring points are below WQCC standards for a minimum of 4 consecutive quarters.

In addition, the OCD could not find that any analytical results have been submitted for the landfarm activities at the Haney GC B#1E site. Please include these results in all future final closure requests.

- | | |
|---------------------------------------|------------------------------|
| 1. Baca GC A #1A (Blow/seperator pit) | Unit F, Sec. 26, T29N, R10W. |
| 2. Haney GC B#1E (Separator pit) | Unit M, Sec. 20, T29N, R10W. |
| 3. Masden GC #1E (Blow pit) | Unit D, Sec. 28, T29N, R11W. |
| 4. McDaniel GC B#1E (Dehy pit) | Unit F, Sec. 26, T29N, R10W. |
| 5. Snyder GC #1A (Blow pit) | Unit E, Sec. 19, T29N, R09W. |
| 6. Sullivan Frame A#1E (Dehy pit) | Unit A, Sec. 30, T29N, R10W. |

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

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Nelson Velez, Blagg Engineering, Inc.

C 4961

Form 3160-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE/4 NW/4 S-26 T29N R10W NMAPM

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

COM. AGMT: NM015P3586C

8. Well Name and No.

BACA 6C A *1A

9. API Well No.

3004526180

10. Field and Pool, or Exploratory Area

MESA VERDE

11. County or Parish, State

SAN JUAN, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other
- Pit closure
-
- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PIT CLOSURE VERIFICATION
SEE ATTACHED DOCUMENTS① BLOW PIT/SEPARATOR PIT - STEEL TANK ^{INSTALLED}, GROUNDWATER, PERMANENT CLOSURE UNDER Amoco's GW PLAN (SEC. 2.3) - REVISED 5/11/98.

14. I hereby certify that the foregoing is true and correct

Signed

B. Shaw

Title

Enviro. Coordinator

Date

7/19/98 nv4/25/99 nv

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

P.O. Box 100, Rio Grande, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department**OIL CONSERVATION DIVISION**P.O. Box 2088
Santa Fe, New Mexico 87504-2088SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE**PIT REMEDIATION AND CLOSURE REPORT**Operator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: BACA GC A # 1A
Well NameLocation: Unit or Qtr/Qtr Sec F Sec 26 T 29N R 10W County SAN JUANPit Type: Separator X Dehydrator Other BlowLand Type: BLM , State , Fee , Other COM. AGMT.Pit Location: Pit dimensions: length 25', width 25', depth 3'
(attach diagram)Reference: wellhead X, other Footage from reference: 160'Direction from reference: 75 Degrees X East North X
of
 West 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) 20RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: _____ Date Completed: 4/1/94

Remediation Method: Excavation X Approx. cubic yards 69
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No _____ Yes X Depth 3'

Final Pit: Sample location see Attached Documents

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

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

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 4/25/94

SIGNATURE

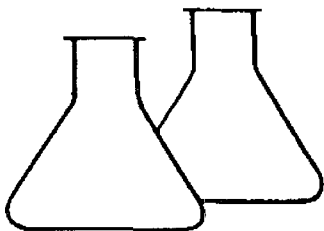
B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

eto

TRAVEL NOTES	3-31-44	NOTE	4-1-44	1300 HRS
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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:	3 @ 3'	Date Reported:	04-05-94
Laboratory Number:	7140	Date Sampled:	04-01-94
Sample Matrix:	Water	Date Received:	04-04-94
Preservative:	HgCl & Cool	Date Analyzed:	04-04-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	14.8	0.2
Toluene	68	0.4
Ethylbenzene	20.2	0.2
p,m-Xylene	298	0.2
o-Xylene	39.8	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	86 %

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.

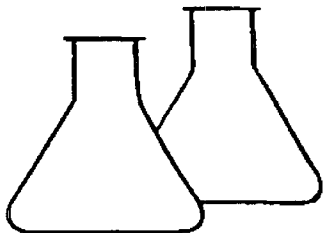
Comments: Baca GC "A" #1A Blow/Sep C4961

Tony Tristano
Analyst

Morris D. Young
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:	2 SWS @ 2'	Date Sampled:	04-01-94
Laboratory Number:	7139	Date Received:	04-04-94
Sample Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	20.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Baca GC "A" #1A Blow/Sep Pit C4961

Tony Tristano
Analyst

Marion D. Yang
Review

CHAIN OF CUSTODY RECORD

[illegible]**ENVIROTECH INC.**

5796 U.S. Highway 64-3014
Farmington, New Mexico 87401

(505) 632-0615