3R - 121

ANNUAL MONITORING REPORT

03/07/2008

XTO ENERGY

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

3R121

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

McDANIEL GAS COM B #1E
(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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2007 XTO GROUNDWATER REPORT

McDANIEL GAS COM B #1E

SITE DETAILS

LEGALS - TWN: 29N **RNG:** 10W **SEC:** 26 **UNIT:** F
NMOCD HAZARD RANKING: 40 **LAND TYPE:** FEE

PREVIOUS ACTIVITIES

Excavation: Dec-94 (50 CY) **Soil Boring:** Oct-99
Monitoring Wells: Oct-99

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

A summary of laboratory results from historical and current groundwater monitoring is presented as Table 1. A summary of general water chemistry from 1999 is presented as Table 2. 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 indicate a groundwater gradient that trends towards the northwest, in the general direction of the San Juan River. In September 2006 the groundwater gradient turned toward the southeast, away from the San Juan River and in the direction of a nearby wetland area. This change in direction is being attributed to seasonal weather conditions. During the months of the previous site visits the weather was unseasonably warm and windy with little if any rainfall. The month before the September 2006 visit had average to cooler temperatures with over an inch of rainfall. The increase in the water level of the River could push local groundwater away and in the opposite direction. Figures 2 - 5 illustrate the estimated groundwater gradients for 2006 and 2007.

ANNUAL GROUNDWATER REMEDIATION REPORTS

Previous groundwater reports submitted to New Mexico Oil Conservation Division (NMOCD) in 2005 and 2006 recommended quarterly sampling of the groundwater monitoring wells, in accordance with the NMOCD approved Groundwater Management Plan.

2007 ACTIVITIES

Quarterly groundwater samples were collected from monitoring wells MW-1, MW-2 and MW-3 in 2007 and submitted for laboratory analysis of benzene, toluene, ethyl benzene and total xylenes (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 on site in September 1999.

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

In January 1998 XTO Energy Inc. (XTO) acquired the McDaniel Gas Com B #1E from Amoco Production Company. XTO understands the initial groundwater assessment came from samples collected from the bottom of the earthen pit following excavation of impacted soils (Attachment 2). Laboratory analysis of the initial sample indicated the presence of elevated dissolved phase BTEX constituents. In 1999 three groundwater monitoring wells were installed to delineate the extent of hydrocarbon impacts to groundwater. Monitoring well numbered MW-2 was installed near the center of the source area (closed and backfilled earthen dehydrator pit). Monitoring wells numbered MW-1 and MW-3 were placed down gradient of the source area. Groundwater samples collected from the three groundwater monitoring wells indicated BTEX constituents were not present above the detection limits of the laboratory equipment (0.2 ug/L). Sampling was terminated and the site was submitted for closure.

Correspondence from NMOCD in 2000 requested four consecutive quarters of testing in compliance with XTO's Groundwater Management Plan. Groundwater analytical data from MW-1R, MW-2, and MW-4 for four consecutive quarters have demonstrated no detectable levels of BTEX constituents and New Mexico Water Quality Control Commission (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

McDANIEL GC B #1E- DEHY. PIT
UNIT F, SEC. 26, T29N, R10W

					BTEX EPA Method 801 (PPB)			
Sample Date	Monitor Well No.	DTW (ft)	TD (ft)	Product (ft)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
28-Oct-99	MW #1	4.04	14		ND	ND	ND	ND
20-Jun-06			3.7		DRY WELL			
25-Sep-06		5.02	12.01		ND	ND	ND	ND
5-Dec-06		4.22	12.01		ND	ND	ND	ND
8-Mar-07		4.12	12.01		ND	ND	ND	ND
28-Oct-99	MW #2	3.49	13		ND	ND	ND	ND
20-Jun-06		5.09	13.3		ND	ND	ND	ND
25-Sep-06		5.27	13.22		ND	ND	ND	ND
5-Dec-06		3.88	13.22		ND	ND	ND	ND
8-Mar-07		3.66	13.22		ND	ND	ND	ND
28-Oct-99	MW #3	1.82	12.12		ND	ND	ND	ND
20-Jun-06		3.7	11.85		ND	ND	ND	ND
25-Sep-06		1.16	12.94		ND	ND	ND	ND
5-Dec-06		2.67	12.94		ND	ND	ND	ND
8-Mar-07		2.45	12.94		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

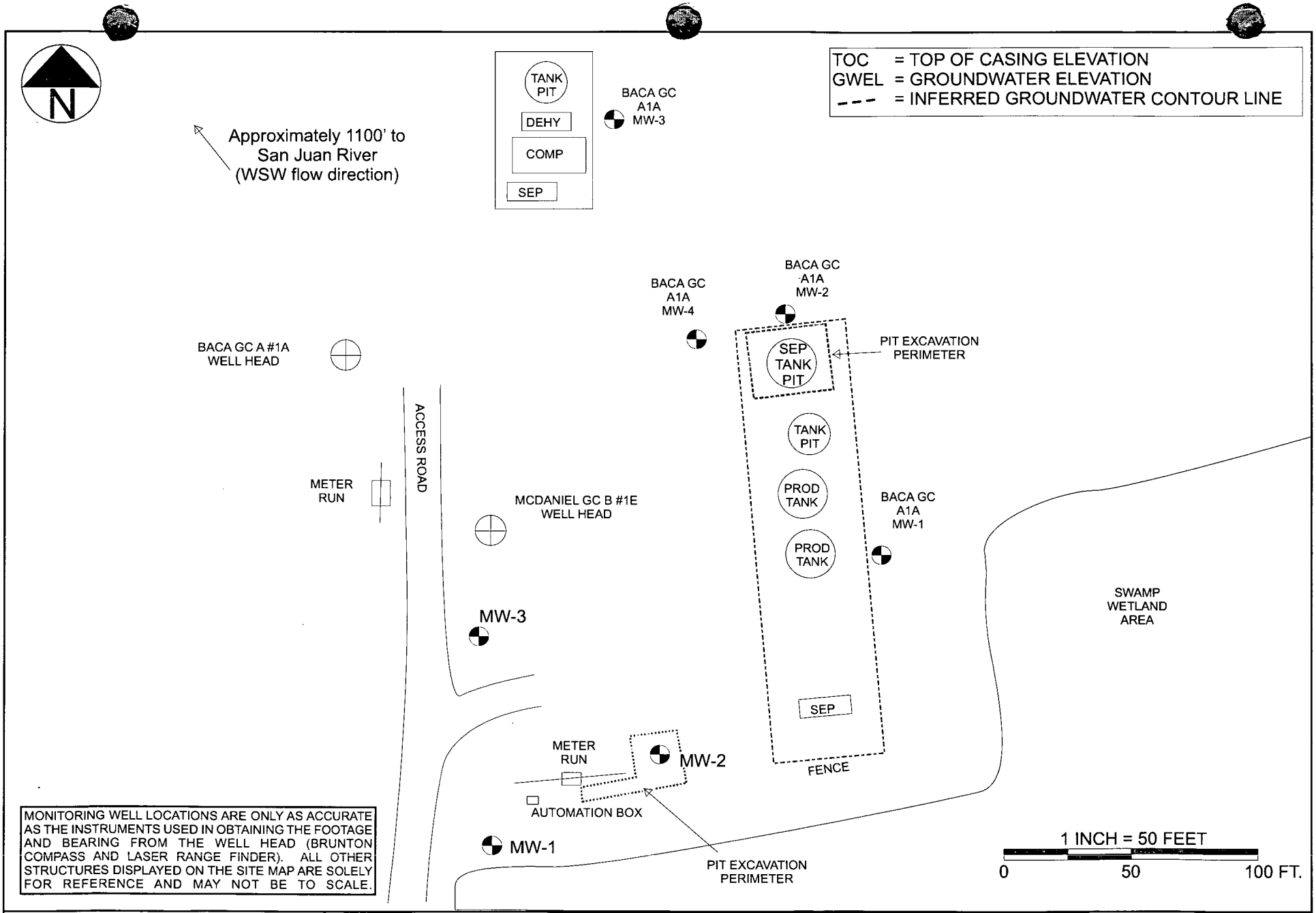
TABLE 2

XTO ENERGY INC. GROUNDWATER LAB RESULTS

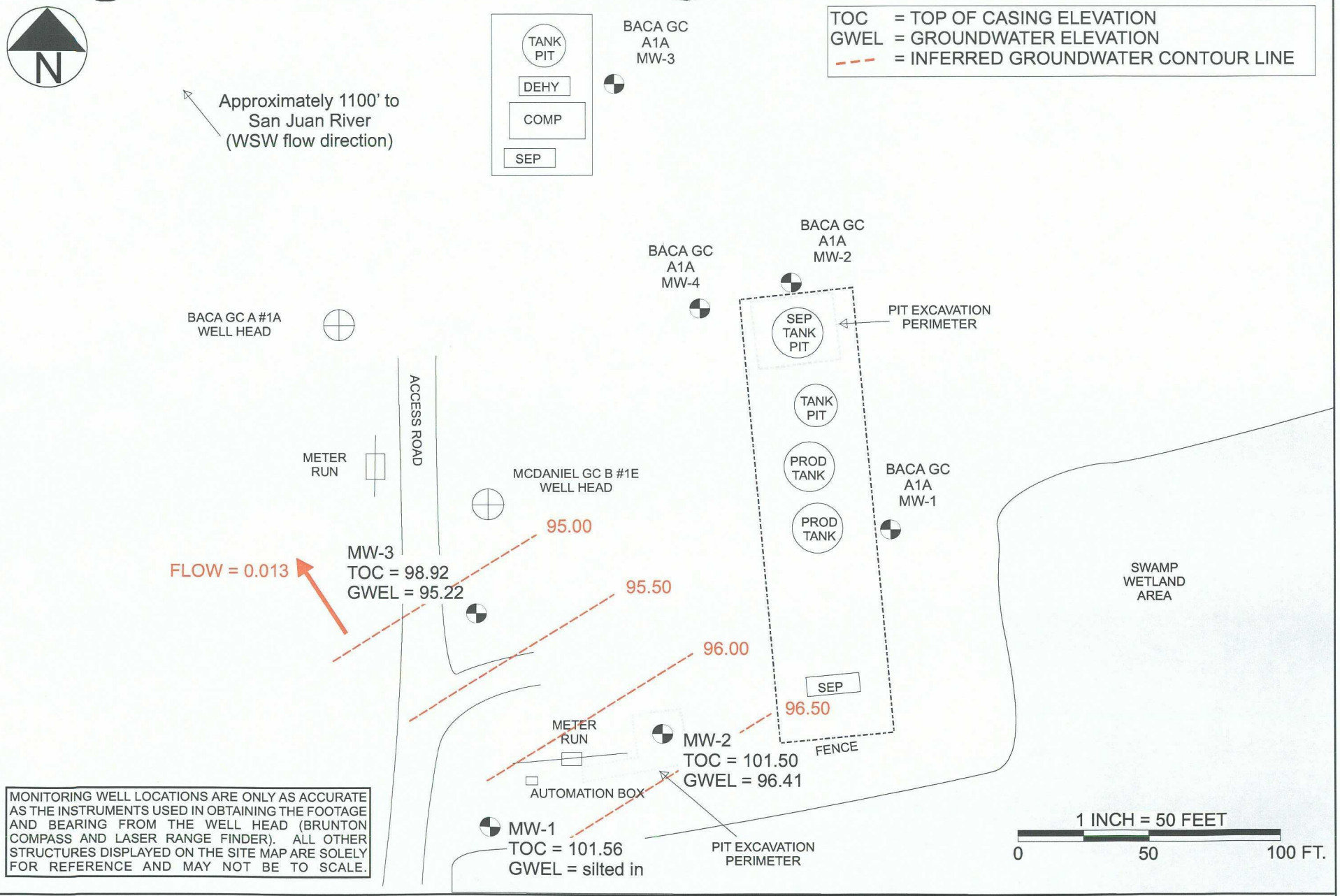
McDANIEL GC B #1E- DEHY. PIT
UNIT F, SEC. 26, T29N, R10W

Sample Date: October 28, 1999

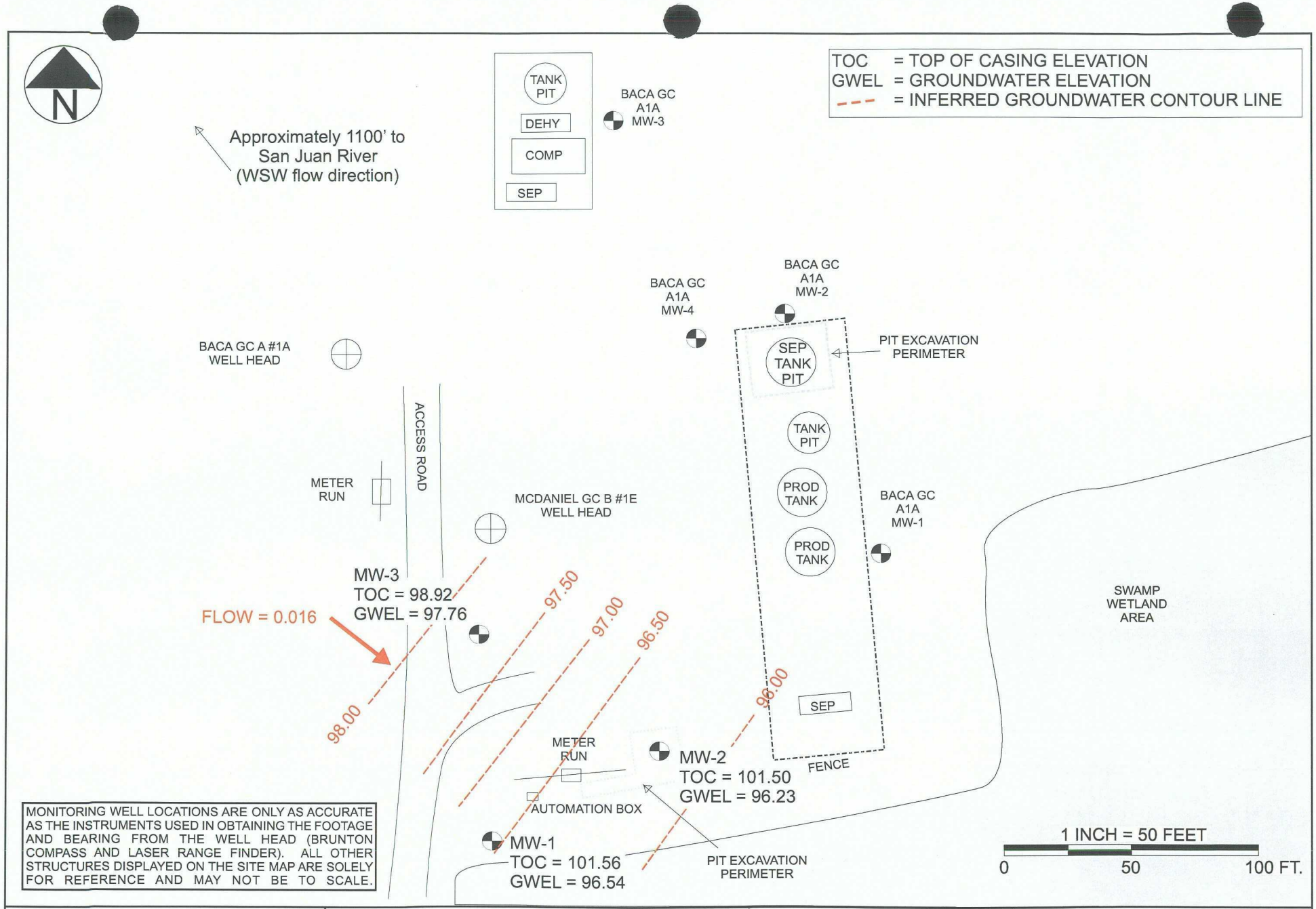
PARAMETERS	MW #1	MW #2	MW #3	UNITS
LAB Ph	7.21	7.2	7.26	s.u.
LAB CONDUCTIVITY @ 25 C	4,180	4,390	3,270	umhos/cm
TOTAL DISSOLVED SOLIDS @ 180 C	2,060	2,100	1,620	mg/L
TOTAL DISSOLVED SOLIDS (Calc)	1,920	1,923	1,574	mg/L
SODIUM ABSORPTION RATIO	0.3	0.1	4.4	ratio
TOTAL ALKALINITY AS CaCO3	300	290	454	mg/L
TOTAL HARDNESS AS CaCO3	1,408	1,450	641	mg/L
BICARBONATE AS HCO3	300	290	454	mg/L
CARBONATE AS CO3	< 1	< 1	< 1	mg/L
HYDROXIDE AS OH	< 1	< 1	< 1	mg/L
NITRATE NITORGEN	< 0.1	0.1	< 0.1	mg/L
NITRITE NITROGEN	< 0.001	0.015	< 0.001	mg/L
CHLORIDE	0.6	2.8	1	mg/L
FLUORIDE	1.82	1.95	1.96	mg/L
PHOSPHATE	0.4	0.4	0.9	mg/L
SULFATE	1,170	1,180	790	mg/L
IRON	0.001	< 0.001	< 0.001	mg/L
CALCIUM	486	493	213	mg/L
MAGNESIUM	46.9	52.7	26.4	mg/L
POTASSIUM	7.0	5.5	9.5	mg/L
SODIUM	25	10	255	mg/L
CATION/ANION DIFFERENCE	0.02	0	0.41	%



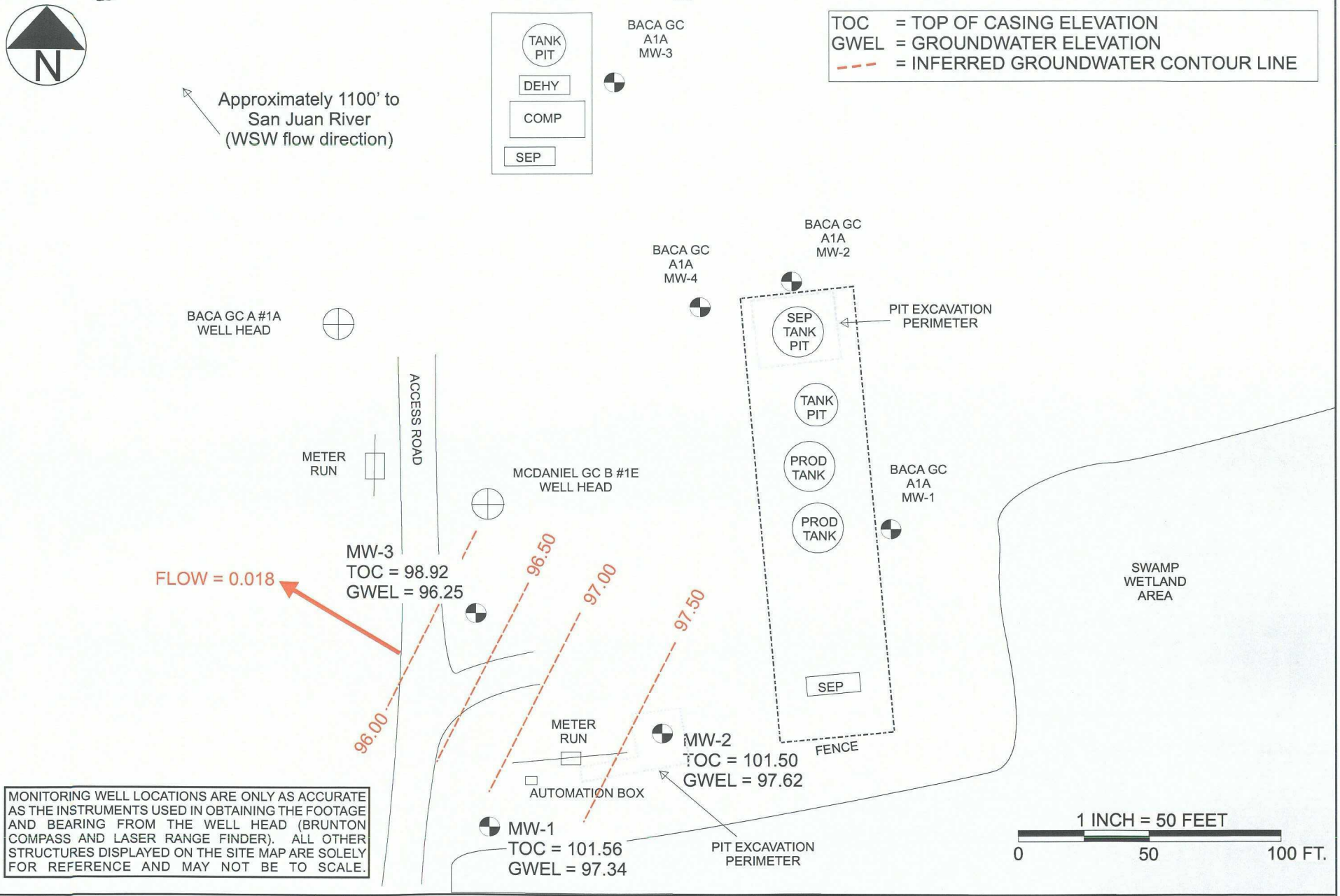
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	MCDANIEL GC B1E SE/4 NW/4 SEC. 26, T29N, R10W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 01/30/08	SITE MAP FIGURE 1



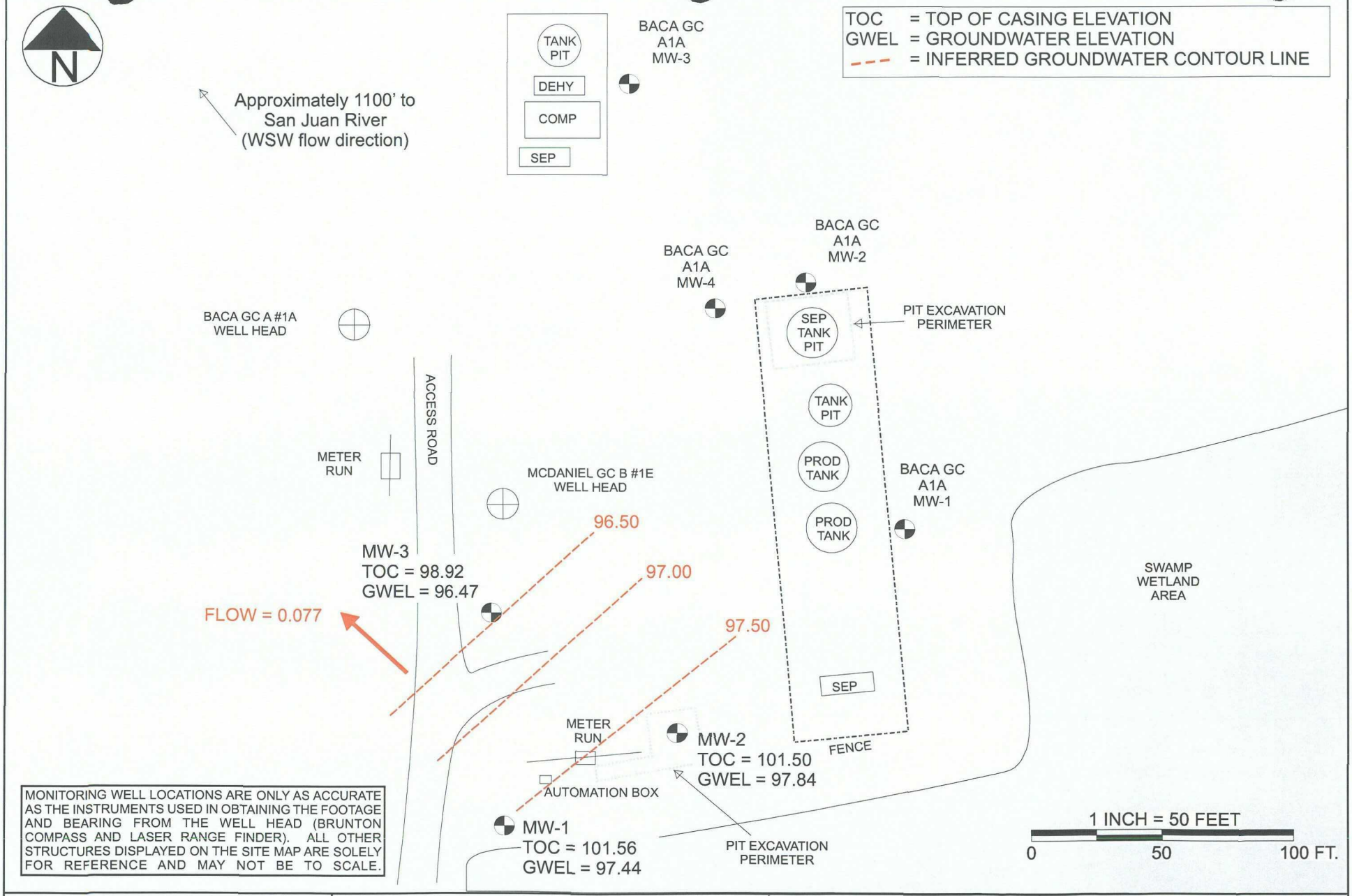
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	MCDANIEL GC B1E SE/4 NW/4 SEC. 26, T29N, R10W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/09/06	GROUNDWATER GRADIENT MAP 06/20/2006 FIGURE 2



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	MCDANIEL GC B1E SE/4 NW/4 SEC. 26, T29N, R10W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/09/06	GROUNDWATER GRADIENT MAP 09/25/2006 FIGURE 3



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	MCDANIEL GC B1E SE/4 NW/4 SEC. 26, T29N, R10W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/09/06	GROUNDWATER GRADIENT MAP 12/05/2006 FIGURE 4



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	MCDANIEL GC B1E SE/4 NW/4 SEC. 26, T29N, R10W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 03/12/07	GROUNDWATER GRADIENT MAP 03/08/2007 FIGURE 5

FIGURE 6

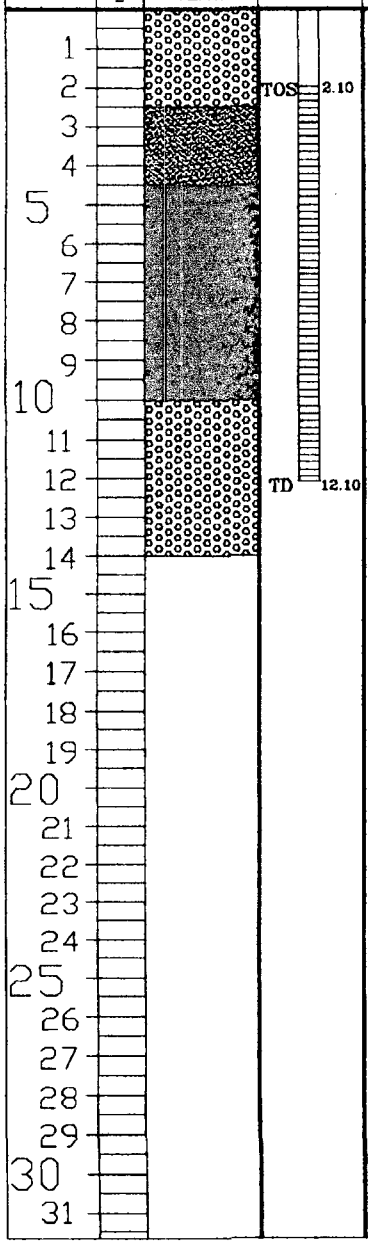
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING #..... BH - 1
MW #..... 1
PAGE #..... 1
DATE STARTED 10/12/99
DATE FINISHED 10/12/99
OPERATOR..... DE
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: McDANIEL GC B #1E
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME 61)
BORING LOCATION: 132 FT., DUE SOUTH FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 1.90 FT. ABOVE GROUND SURFACE.

▼ GW DEPTH ON 10/28/99 = 2.14 FT. (APPROX.) FROM GROUND SURFACE.

DARK YELLOWISH ORANGE SAND AND GRAVEL, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.00 - 2.50 FT. INTERVAL).

OLIVE GRAY SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (2.50 - 4.50 FT. INTERVAL).

DARK GRAY TO BLACK SAND, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (4.50 - 10.00 FT. INTERVAL).

LIGHT GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (10.00 - 14.00 FT. INTERVAL).

NOTE:
- SAND.
- SAND (DISCOLORED).
- SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
GW - GROUND WATER.

DRAWING: BH-1.SKD	DATE: 1/19/00	DWN BY: NJV

FIGURE 7

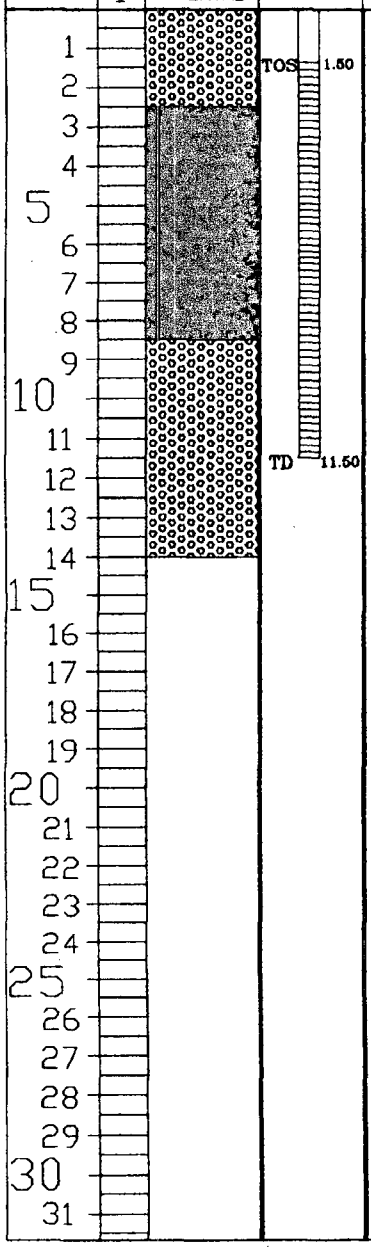
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING # BH - 2
MW # 2
PAGE # 2
DATE STARTED 10/12/99
DATE FINISHED 10/12/99
OPERATOR DE
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: McDANIEL GC B #1E
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME 61)
BORING LOCATION: 118 FT., S36.5E FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 1.50 FT. ABOVE GROUND SURFACE.

▼ GW DEPTH ON 10/28/99 = 1.99 FT. (APPROX.) FROM GROUND SURFACE.

DARK YELLOWISH ORANGE SAND AND GRAVEL, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.00 - 2.50 FT. INTERVAL).

DARK GRAY TO BLACK SAND, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (2.50 - 8.50 FT. INTERVAL).

LIGHT GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (8.50 - 14.00 FT. INTERVAL).

NOTE: ▪ - SAND (DISCOLORED).
▦ - SAND AND GRAVEL.
TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
GW - GROUND WATER.

DRAWING: BH-2.SKD	DATE: 1/19/00	DWN BY: NJV

FIGURE 8

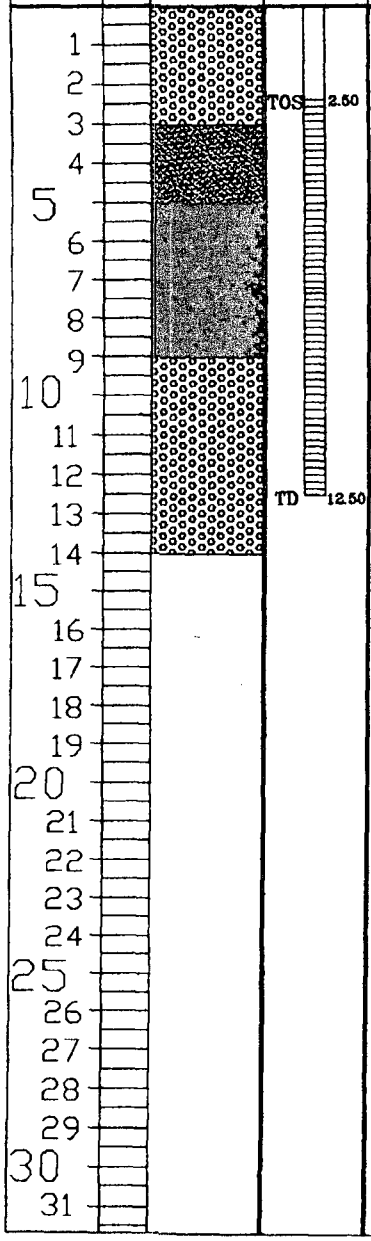
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING # BH - 3
MW # 3
PAGE # 3
DATE STARTED 10/12/99
DATE FINISHED 10/12/99
OPERATOR DE
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: McDANIEL GC B #1E
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME 61)
BORING LOCATION: 46 FT., S7.5W FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 0.38 FT. BELOW GROUND SURFACE.

▼ GW DEPTH ON 10/28/99 = 2.20 FT. (APPROX.) FROM GROUND SURFACE.

DARK YELLOWISH ORANGE SAND AND GRAVEL, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.00 - 3.00 FT. INTERVAL).

OLIVE GRAY SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (3.00 - 5.00 FT. INTERVAL).

DARK GRAY TO BLACK SAND, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (5.00 - 9.00 FT. INTERVAL).

LIGHT GRAY SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (9.00 - 14.00 FT. INTERVAL).

NOTE:
- SAND.
- SAND (DISCOLORED).
- SAND AND GRAVEL.

TOS - TOP OF SCREEN FROM GROUND SURFACE.
TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
GW - GROUND WATER.

DRAWING: BH-3.SKD | DATE: 1/19/00 | DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT: XTO Energy
Project: Groundwater - McDaniel Gas ComB#1E
Lab Order: 0606232

Lab ID: 0606232-01 **Collection Date:** 6/20/2006 11:42:00 AM
Client Sample ID: McDaniel Gas ComB#1E MW-3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: HLM
Benzene	ND	1.0		µg/L	1	6/23/2006 3:33:07 AM
Toluene	ND	1.0		µg/L	1	6/23/2006 3:33:07 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2006 3:33:07 AM
Xylenes, Total	ND	3.0		µg/L	1	6/23/2006 3:33:07 AM
Surr: 4-Bromofluorobenzene	85.3	72.2-125		%REC	1	6/23/2006 3:33:07 AM

Lab ID: 0606232-02 **Collection Date:** 6/20/2006 12:50:00 PM
Client Sample ID: McDaniel Gas ComB#1E MW-2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: HLM
Benzene	ND	1.0		µg/L	1	6/23/2006 4:02:11 AM
Toluene	ND	1.0		µg/L	1	6/23/2006 4:02:11 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2006 4:02:11 AM
Xylenes, Total	ND	3.0		µg/L	1	6/23/2006 4:02:11 AM
Surr: 4-Bromofluorobenzene	86.4	72.2-125		%REC	1	6/23/2006 4:02:11 AM

Lab ID: 0606232-03 **Collection Date:** 6/20/2006 7:00:00 AM
Client Sample ID: 200606TB02 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: HLM
Benzene	ND	1.0		µg/L	1	6/23/2006 4:31:21 AM
Toluene	ND	1.0		µg/L	1	6/23/2006 4:31:21 AM
Ethylbenzene	ND	1.0		µg/L	1	6/23/2006 4:31:21 AM
Xylenes, Total	ND	3.0		µg/L	1	6/23/2006 4:31:21 AM
Surr: 4-Bromofluorobenzene	81.3	72.2-125		%REC	1	6/23/2006 4:31:21 AM

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: Groundwater - McDaniel Gas ComB#1E **Work Order:** 0606232

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									Batch ID: R19665
Sample ID: 5ML RB		*MBLK*							Analysis Date: 6/22/2006
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 LCS		*LCS*							Analysis Date: 6/22/2006
Benzene	18.63	µg/L	1.0	93.2	85	115			
Toluene	17.48	µg/L	1.0	87.4	85	118			
Ethylbenzene	17.83	µg/L	1.0	89.2	85	116			
Xylenes, Total	55.30	µg/L	3.0	92.2	85	119			

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

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Oct-06*

CLIENT:	XTO Energy	**Client Sample ID:**	McDaniel Gas Com B1E MW-1
Lab Order:	0609347	**Collection Date:**	9/25/2006 12:57:00 PM
Project:	XT0 Groundwater	**Date Received:**	9/27/2006
Lab ID:	0609347-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/5/2006 3:09:36 PM
Toluene	ND	1.0		µg/L	1	10/5/2006 3:09:36 PM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2006 3:09:36 PM
Xylenes, Total	ND	3.0		µg/L	1	10/5/2006 3:09:36 PM
Surr: 4-Bromofluorobenzene	97.3	72.2-125		%REC	1	10/5/2006 3:09:36 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: *06-Oct-06*

CLIENT:	XTO Energy	**Client Sample ID:**	McDaniel Gas Com B1E MW-2
Lab Order:	0609347	**Collection Date:**	9/25/2006 12:32:00 PM
Project:	XTO Groundwater	**Date Received:**	9/27/2006
Lab ID:	0609347-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/5/2006 1:22:19 AM
Toluene	ND	1.0		µg/L	1	10/5/2006 1:22:19 AM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2006 1:22:19 AM
Xylenes, Total	ND	3.0		µg/L	1	10/5/2006 1:22:19 AM
Surr: 4-Bromofluorobenzene	90.0	72.2-125		%REC	1	10/5/2006 1:22:19 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			

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Oct-06*

CLIENT:	XTO Energy	**Client Sample ID:**	McDaniel Gas Com B1E MW-3
Lab Order:	0609347	**Collection Date:**	9/25/2006 1:40:00 PM
Project:	XT0 Groundwater	**Date Received:**	9/27/2006
Lab ID:	0609347-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/5/2006 1:51:16 AM
Toluene	ND	1.0		µg/L	1	10/5/2006 1:51:16 AM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2006 1:51:16 AM
Xylenes, Total	ND	3.0		µg/L	1	10/5/2006 1:51:16 AM
Surr: 4-Bromofluorobenzene	93.5	72.2-125		%REC	1	10/5/2006 1:51:16 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			

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Oct-06*

CLIENT:	XTO Energy	**Client Sample ID:**	25092006TB01
Lab Order:	0609347	**Collection Date:**	
Project:	XT0 Groundwater	**Date Received:**	9/27/2006
Lab ID:	0609347-11	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/5/2006 6:16:33 AM
Toluene	ND	1.0		µg/L	1	10/5/2006 6:16:33 AM
Ethylbenzene	ND	1.0		µg/L	1	10/5/2006 6:16:33 AM
Xylenes, Total	ND	3.0		µg/L	1	10/5/2006 6:16:33 AM
Surr: 4-Bromofluorobenzene	97.5	72.2-125		%REC	1	10/5/2006 6:16:33 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: XT0 Groundwater **Work Order:** 0609347

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID:	**R20938**	Analysis Date:		10/4/2006 11:00:33 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:	**R20958**	Analysis Date:		10/5/2006 10:03:16 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 LCS		*LCS*			Batch ID:	**R20938**	Analysis Date:		10/4/2006 9:28:27 PM
Benzene	20.90	µg/L	1.0	105	85	115			
Toluene	20.64	µg/L	1.0	103	85	118			
Ethylbenzene	20.83	µg/L	1.0	104	85	116			
Xylenes, Total	63.36	µg/L	3.0	106	85	119			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R20958**	Analysis Date:		10/5/2006 1:42:53 PM
Benzene	20.96	µg/L	1.0	105	85	115			
Toluene	20.53	µg/L	1.0	103	85	118			
Ethylbenzene	20.82	µg/L	1.0	104	85	116			
Xylenes, Total	63.12	µg/L	3.0	105	85	119			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R20958**	Analysis Date:		10/5/2006 9:31:35 PM
Benzene	21.14	µg/L	1.0	106	85	115	0.855	27	
Toluene	20.72	µg/L	1.0	104	85	118	0.892	19	
Ethylbenzene	20.79	µg/L	1.0	104	85	116	0.173	10	
Xylenes, Total	63.10	µg/L	3.0	105	85	119	0.0317	13	
Method: SW7470									
Sample ID: 0609347-04A msd		*MSD*			Batch ID:	**11395**	Analysis Date:		9/27/2006
Mercury	0.005070	mg/L	0.00020	101	75	125	7.36	20	
Sample ID: MB-11395		*MBLK*			Batch ID:	**11395**	Analysis Date:		9/27/2006
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-11395		*LCS*			Batch ID:	**11395**	Analysis Date:		9/27/2006
Mercury	0.005070	mg/L	0.00020	101	80	120			
Sample ID: 0609347-04A ms		*MS*			Batch ID:	**11395**	Analysis Date:		9/27/2006
Mercury	0.004710	mg/L	0.00020	94.2	75	125			

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

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-06*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0612120

Lab ID: 0612120-07
Collection Date: 12/5/2006 1:03:00 PM
~~**Client Sample ID:** OH Randel 7 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	12/12/2006 4:06:20 AM
Toluene	ND	1.0		µg/L	1	12/12/2006 4:06:20 AM
Ethylbenzene	ND	1.0		µg/L	1	12/12/2006 4:06:20 AM
Xylenes, Total	ND	3.0		µg/L	1	12/12/2006 4:06:20 AM
Surr: 4-Bromofluorobenzene	81.4	70.2-105		%REC	1	12/12/2006 4:06:20 AM

Lab ID: 0612120-08
Collection Date: 12/5/2006 2:13:00 PM
Client Sample ID: McDaniel Gas Com BIE 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	12/12/2006 4:36:26 AM
Toluene	ND	1.0		µg/L	1	12/12/2006 4:36:26 AM
Ethylbenzene	ND	1.0		µg/L	1	12/12/2006 4:36:26 AM
Xylenes, Total	ND	3.0		µg/L	1	12/12/2006 4:36:26 AM
Surr: 4-Bromofluorobenzene	79.5	70.2-105		%REC	1	12/12/2006 4:36:26 AM

Lab ID: 0612120-09
Collection Date: 12/5/2006 3:10:00 PM
Client Sample ID: McDaniel Gas Com BIE 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	12/12/2006 5:06:30 AM
Toluene	ND	1.0		µg/L	1	12/12/2006 5:06:30 AM
Ethylbenzene	ND	1.0		µg/L	1	12/12/2006 5:06:30 AM
Xylenes, Total	ND	3.0		µg/L	1	12/12/2006 5:06:30 AM
Surr: 4-Bromofluorobenzene	79.2	70.2-105		%REC	1	12/12/2006 5:06:30 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-06*

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0612120

Lab ID: 0612120-10 **Collection Date:** 12/5/2006 3:17:00 PM
Client Sample ID: McDaniel Gas Com BIE 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	12/13/2006 10:27:09 AM
Toluene	ND	1.0		µg/L	1	12/13/2006 10:27:09 AM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 10:27:09 AM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 10:27:09 AM
Surr: 4-Bromofluorobenzene	81.2	70.2-105		%REC	1	12/13/2006 10:27:09 AM

Lab ID: 0612120-11 **Collection Date:**
Client Sample ID: 0512 2006 TBO1 **Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/13/2006 10:57:15 AM
Toluene	ND	1.0		µg/L	1	12/13/2006 10:57:15 AM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2006 10:57:15 AM
Xylenes, Total	ND	3.0		µg/L	1	12/13/2006 10:57:15 AM
Surr: 4-Bromofluorobenzene	79.9	70.2-105		%REC	1	12/13/2006 10:57:15 AM

Lab ID: 0612120-12 **Collection Date:** 12/5/2006 3:50:00 PM
~~**Client Sample ID:** Sullivan Gas Com DI MW-1R~~ **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/14/2006 3:14:42 PM
Toluene	ND	1.0		µg/L	1	12/14/2006 3:14:42 PM
Ethylbenzene	ND	1.0		µg/L	1	12/14/2006 3:14:42 PM
Xylenes, Total	ND	3.0		µg/L	1	12/14/2006 3:14:42 PM
Surr: 4-Bromofluorobenzene	80.5	70.2-105		%REC	1	12/14/2006 3:14:42 PM

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:** 0612120

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0612120-02A MSD		*MSD*			Batch ID: **R21754**		Analysis Date:	12/12/2006 1:36:12 AM	
Benzene	17.92	µg/L	1.0	87.5	85.9	113	6.25	27	
Toluene	17.88	µg/L	1.0	87.7	86.4	113	4.33	19	
Ethylbenzene	17.30	µg/L	1.0	86.5	83.5	118	4.82	10	
Xylenes, Total	51.71	µg/L	3.0	86.2	83.4	122	4.61	13	
Sample ID: b 15		*MBLK*			Batch ID: **R21754**		Analysis Date:	12/11/2006 3:54:38 PM	
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: **R21800**		Analysis Date:	12/13/2006 8:26:25 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: **R21831**		Analysis Date:	12/14/2006 8:42:55 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 LCS II		*LCS*			Batch ID: **R21754**		Analysis Date:	12/12/2006 2:06:12 AM	
Benzene	18.26	µg/L	1.0	90.3	85.9	113			
Toluene	18.31	µg/L	1.0	91.6	86.4	113			
Ethylbenzene	17.98	µg/L	1.0	89.9	83.5	118			
Xylenes, Total	53.73	µg/L	3.0	89.6	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R21800**		Analysis Date:	12/13/2006 4:33:03 PM	
Benzene	18.09	µg/L	1.0	90.4	85.9	113			
Toluene	17.99	µg/L	1.0	89.9	86.4	113			
Ethylbenzene	17.55	µg/L	1.0	87.7	83.5	118			
Xylenes, Total	52.58	µg/L	3.0	87.6	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R21831**		Analysis Date:	12/14/2006 7:50:29 PM	
Benzene	17.78	µg/L	1.0	88.9	85.9	113			
Toluene	17.85	µg/L	1.0	89.2	86.4	113			
Ethylbenzene	17.33	µg/L	1.0	86.6	83.5	118			
Xylenes, Total	52.15	µg/L	3.0	86.9	83.4	122			
Sample ID: 0612120-02A MS		*MS*			Batch ID: **R21754**		Analysis Date:	12/12/2006 1:06:08 AM	
Benzene	19.07	µg/L	1.0	93.3	85.9	113			
Toluene	18.68	µg/L	1.0	91.7	86.4	113			
Ethylbenzene	18.16	µg/L	1.0	90.8	83.5	118			
Xylenes, Total	54.15	µg/L	3.0	90.2	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

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Mar-07*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0703123

Lab ID: 0703123-04 **Collection Date:** 3/8/2007 10:22:00 AM
Client Sample ID: ~~Haney GC 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	3/12/2007 3:58:54 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 3:58:54 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 3:58:54 PM
Xylenes, Total	ND	2.0		µg/L	1	3/12/2007 3:58:54 PM
Surr: 4-Bromofluorobenzene	85.4	70.2-105		%REC	1	3/12/2007 3:58:54 PM

Lab ID: 0703123-05 **Collection Date:** 3/8/2007 10:39:00 AM
Client Sample ID: ~~Haney GC 1E 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	3/12/2007 4:28:57 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 4:28:57 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 4:28:57 PM
Xylenes, Total	ND	2.0		µg/L	1	3/12/2007 4:28:57 PM
Surr: 4-Bromofluorobenzene	88.5	70.2-105		%REC	1	3/12/2007 4:28:57 PM

Lab ID: 0703123-06 **Collection Date:** 3/8/2007 11:34:00 AM
Client Sample ID: McDaniel GC B1E 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	3/12/2007 4:59:01 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 4:59:01 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 4:59:01 PM
Xylenes, Total	ND	2.0		µg/L	1	3/12/2007 4:59:01 PM
Surr: 4-Bromofluorobenzene	86.8	70.2-105		%REC	1	3/12/2007 4:59:01 PM

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		

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Mar-07*

CLIENT: XTO Energy
Project: Ground Water
Lab Order: 0703123

Lab ID: 0703123-07 **Collection Date:** 3/8/2007 11:52:00 AM
Client Sample ID: McDaniel GC B1E 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	3/12/2007 7:59:55 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 7:59:55 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 7:59:55 PM
Xylenes, Total	ND	2.0		µg/L	1	3/12/2007 7:59:55 PM
Surr: 4-Bromofluorobenzene	85.8	70.2-105		%REC	1	3/12/2007 7:59:55 PM

Lab ID: 0703123-08 **Collection Date:** 3/8/2007 12:54:00 PM
Client Sample ID: McDaniel GC B1E 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	3/12/2007 8:29:59 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 8:29:59 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 8:29:59 PM
Xylenes, Total	ND	2.0		µg/L	1	3/12/2007 8:29:59 PM
Surr: 4-Bromofluorobenzene	85.5	70.2-105		%REC	1	3/12/2007 8:29:59 PM

Lab ID: 0703123-09 **Collection Date:** 3/8/2007 1:34:00 PM
Client Sample ID: ~~OH Randel 7 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	3/12/2007 9:00:02 PM
Toluene	ND	1.0		µg/L	1	3/12/2007 9:00:02 PM
Ethylbenzene	ND	1.0		µg/L	1	3/12/2007 9:00:02 PM
Xylenes, Total	3.8	2.0		µg/L	1	3/12/2007 9:00:02 PM
Surr: 4-Bromofluorobenzene	88.0	70.2-105		%REC	1	3/12/2007 9:00:02 PM

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:** 0703123

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0703123-10A MSD		*MSD*			Batch ID: **R22791**		Analysis Date:		3/12/2007 5:59:11 PM
Benzene	20.46	µg/L	1.0	102	85.9	113	0.726	27	
Toluene	20.45	µg/L	1.0	102	86.4	113	0.156	19	
Ethylbenzene	20.55	µg/L	1.0	103	83.5	118	0.553	10	
Xylenes, Total	62.34	µg/L	2.0	104	83.4	122	0.115	13	
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R22791**		Analysis Date:		3/12/2007 7:48:15 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: **R22791**		Analysis Date:		3/12/2007 6:29:11 PM
Benzene	20.59	µg/L	1.0	103	85.9	113			
Toluene	20.69	µg/L	1.0	103	86.4	113			
Ethylbenzene	20.53	µg/L	1.0	103	83.5	118			
Xylenes, Total	62.49	µg/L	2.0	104	83.4	122			
Sample ID: 0703123-10A MS		*MS*			Batch ID: **R22791**		Analysis Date:		3/12/2007 5:29:09 PM
Benzene	20.31	µg/L	1.0	102	85.9	113			
Toluene	20.49	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.67	µg/L	1.0	103	83.5	118			
Xylenes, Total	62.41	µg/L	2.0	104	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

BO 191

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or (CA) Agreement Designation
SW27

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
McDANIEL GC B 1E

2. Name of Operator
Amoco Production Company

9. API Well No.
3004523855

3. Address and Telephone No.
200 Amoco Court, Farmington, N.M. 87401 Tel: (505) 326-9200

10. Field and Pool, or Exploratory Area
DAKOTA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SE/4 NW/4, SEC. 26, T 29 N, R 10 W, NMPM

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	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Pit closure	☐ 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 documentation.

DEHYDRATOR PIT - ABANDONED, GROUNDWATER IMPACTED.
RS 2/14/00

14. I hereby certify that the foregoing is true and correct
Signed RA Shaw Title ENVIRO. COORDINATOR Date 12/30/94

(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

BO 191

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name McDANIEL GC B 1E

Location: Unit or Qtr/Qtr Sec F Sec 26 T 29N R 10W County SAN JUAN

Pit Type: Separator ___ Dehydrator X Other ___

Land Type: BLM ___, State ___, Fee ___, Other COM. AGMT.

Pit Location: (Attach diagram)
Pit dimensions: length 20', width 23', depth 4'
Reference: wellhead X, other ___
Footage from reference: 110'
Direction from reference: 32 Degrees X East ___ North ___ of ___ West South X

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	20
	RANKING SCORE (TOTAL POINTS):	40

B0191

Date Remediation Started: _____ **Date Completed:** 12/30/94

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 50

Landfarmed X Insitu Bioremediation ___

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ~~X~~ Offsite X BACA GC A #1A (F-26-29-10)

General Description Of Remedial Action: Excavation GROUNDWATER PUMPED & HAULED. LANDFARM SOIL MIXED WITH BACA GC A #1A - REFER TO BACA GC A #1A FOR LANDFARM CLOSURE INFORMATION.

Ground Water Encountered: No ___ Yes X Depth 31'

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

Sample location see Attached Documents MULTIPLE SAMPLES

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 12/30/94

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

REG

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80191 2329 C.O.C. NO: 2563

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: McDANIEL GC WELL #: 8 1E PIT: DEHY
QUAD/UNIT: F SEC: 26 TWP: 29N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: SE/4 NW/4 CONTRACTOR: P. VELASQUEZ

DATE STARTED: 12/15/94
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 20 FT. x 23 FT. x 4 FT. DEEP. CUBIC YARDAGE: 50
DISPOSAL FACILITY: ~~ON SITE~~ BACA GC A #1A (F-26-29-10) REMEDIATION METHOD: LANDFARMED
LAND USE: RANGE LEASE: - FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 110 FT. S32E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <200'
NMOCD RANKING SCORE: 40 NMOCD TPH CLOSURE STD: 100 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

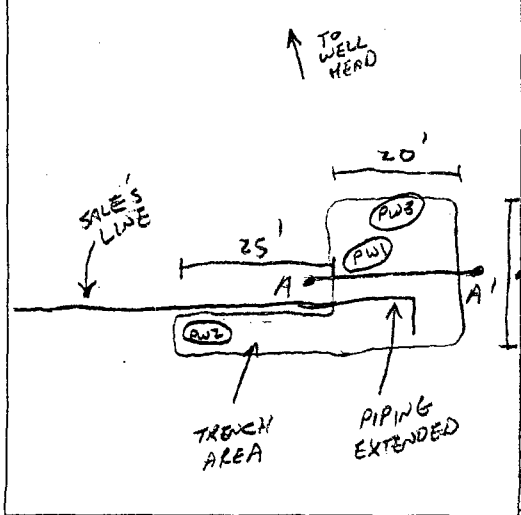
COLLECTED WATER SAMPLE ONLY. NO APPARENT HC ODOR IN SAMPLE CONTAINER OR VISIBLE INDICATION. SLIGHT SHEEN IN GROUNDWATER OBSERVED IN TRENCH AREA. UNABLE TO COLLECT SOIL SAMPLE(S) FROM ANY SIDEWALLS. GROUNDWATER PUMPED BY TRIPLE S & HAULED.

FIELD 418.1 CALCULATIONS

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

SCALE
0 FT

PIT PERIMETER



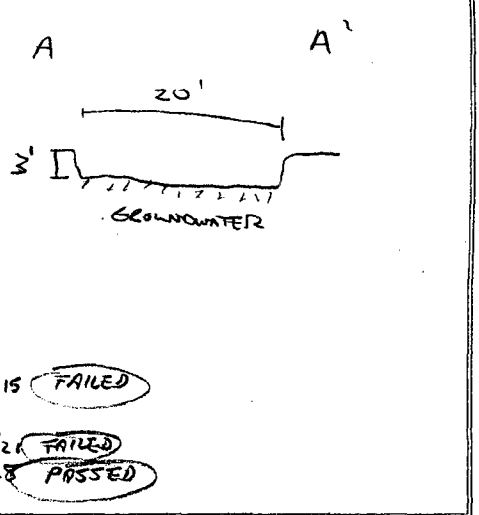
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	
2	
3	
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	
PW1 @ GW (3')	BTEX	1420	12/15 FAILED
PW2 @ GW (3')	BTEX	0925	12/28 FAILED
PW3 @ GW (3')	BTEX	1400	12/28 PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 12/14/94 ONSITE: 12/15/94

OFF: (505) 325-8786

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*Nelson Velez*	Date:	12/16/94
Company:	*Blagg Engineering*	*Lab ID:*	*2329*
Address:	*P.O. Box 87*	*Sample ID:*	*4403*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***McDaniel GC B 1 E***				
Project Location:	***PW 1 @ GW (3') - Dehy Pit***				
Sampled by:	NV	Date:	12/15/94	Time:	14:20
Analyzed by:	DLA	Date:	12/16/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	130.9	*0.2*
Toluene	84.4	*0.2*
Ethylbenzene	30.7	*0.2*
m,p-Xylene	284.6	*0.2*
o-Xylene	53.7	*0.2*
	TOTAL *584.4 ug/L*	

ND - Not Detectable

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

Approved by: DLA

Date: 12/19/94

OFF: (505) 325-8786

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*Nelson Velez*	Date:	12/22/94
Company:	*Blagg Engineering*	*Lab ID:*	*2563*
Address:	*P.O. Box 87*	*Sample ID:*	*4480*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***McDaniel GC B 1 E***				
Project Location:	***PW 2 @ GW (3') - Dehy Pit***				
Sampled by:	NV	Date:	12/21/94	Time:	9:25
Analyzed by:	DLA	Date:	12/22/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	112.6	*0.2*
Toluene	36.1	*0.2*
Ethylbenzene	24.0	*0.2*
m,p-Xylene	308.8	*0.2*
o-Xylene	57.4	*0.2*
	TOTAL *539.0 ug/L*	

ND - Not Detectable

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

Approved by: JLH

Date: 12/22/94

OFF: (505) 325-8786

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*Nelson Velez*	Date:	12/30/94
Company:	*Blagg Engineering*	*Lab ID:*	*2515*
Address:	*P.O. Box 87*	*Sample ID:*	*4550*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***McDaniel GC B 1 E***				
Project Location:	***PW 3 @ GW (3') - Dehy Pit***				
Sampled by:	NV	Date:	12/28/94	Time:	14:00
Analyzed by:	DLA	Date:	12/30/94		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	*Measured Concentration ug/L*	*Detection Limit Concentration ug/L*
Benzene	0.8	*0.2*
Toluene	0.5	*0.2*
Ethylbenzene	0.3	*0.2*
m,p-Xylene	4.2	*0.2*
o-Xylene	0.8	*0.2*
	TOTAL 6.7 ug/L	

ND - Not Detectable

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

Approved by:
Date: 12/30/94

ON SITE TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

2329

Date: 12/15/94

BO191

Purchase Order No.:		Reference No.:	
SEND INVOICE TO	Name		
	Company	RUGG ENGINEERING	Dept.
	Address	P.O. BOX 87	
	City, State, Zip	BLOOMFIELD, NM 87413	
REPORT RESULTS TO	Name	NELSON VELEZ	Title PG
	Company	SAME	
	Mailing Address	SAME	
	City, State, Zip	SAME	
	Telephone No.	632-1199	Telefax No.

Special Instructions: McDANIEL GC B 1 E

Sampler: Nelson Velez

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE/ GRAB	PRESERVATIVES	Number of Containers	ANALYSIS REQUESTED: BTEX (8020)	Remarks (matrix)
PW 1 C GW(3')-DEHY PIT	12/15/94 1420	GRAB	HgCl	2	✓ 4403-2327	WATER

Relinquished by: Nelson Velez	Date/Time 12/16/94 0749	Received by: Helen J. Quinn	Date/Time 12/16/94 0749
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

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

Rush	5 Working Days	10 Working Days	Sampling Location:

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

CHAIN OF CUSTODY RECORD

2563

ON SITE TECHNOLOGIES, LTD.

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

Date: 12/21/94

Page 1 of 1

BO 191

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	NELSON VELEZ Title PE
Company	BLAGG ENGINEERING Dept.	Company	SAME
Address	P.O. BOX 87	Mailing Address	SAME
City, State, Zip	BLOOMFIELD, NM 87413	City, State, Zip	SAME
		Telephone No.	632-1199 Telefax No.
Sampling Location:	McDANIEL GC B1E		
Sampler:	Nelson Vélez		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: BTEX (8020)	LAB ID
PW2 @ GW (3') - DEHY PIT	12/21/94	0925	WATER	HgCl	2	✓	4420-BO 25391

Relinquished by: Nelson Vélez	Date/Time 12/21/94 1337	Received by: Lisa L. Quinn	Date/Time 12/21/94 1337
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

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

Rush	24-48 Hours	10 Working Days	Special Instructions:

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

CHAIN OF CUSTODY RECORD

2515

ON SITE TECHNOLOGIES, LTD.

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

Date: 12/28/94

Page 1 of 1

B0191

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	NELSON VELEZ — Title PE
Company	BLAGG ENGINEERING — Dept.	Company	SAME
Address	P. O. BOX 87	Mailing Address	SAME
City, State, Zip	BLOOMFIELD, NM 87413	City, State, Zip	SAME
		Telephone No.	632-1199 — Telefax No.

Sampling Location: McDANIEL GC B LE

Sampler: Nelson Velez

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: BTEX (8020)	ANALYSIS REQUESTED: BP (M)	LAB ID
PW3 @ GW (3') - DEHY PIT	12/28/94	1400	WATER	HgCl	2	✓		4550-2515

Relinquished by: Nelson Velez	Date/Time 12/29/94 1438	Received by: Sheri L. Apodaca	Date/Time 12/29/94 14:38
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

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

Rush	24-48 Hours	10 Working Days	Special Instructions:

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