

3R - 126

**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:

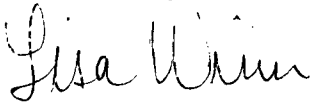
- Baca Gas Com A #1A- 3RP104
- Garcia Gas Com B #1- 3RP111
- Haney Gas Com B #1E- 3RP113
- Hare Gas Com B #1
- Hare Gas Com B #1E- 3RP384
- Hare Gas Com I #1
- Masden Gas Com #1E- 3RP120
- McDaniel Gas Com B #1E- 3RP121
- Stedje Gas Com #1- 3RP128
- Sullivan Frame A #1E- 3RP130

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

3R126

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

***SNYDER GAS COM #1A
(F) SECTION 19 – T29N – R09W, NMPM
SAN JUAN COUNTY, NEW MEXICO***

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

January 2008

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Table 1:	Summary Groundwater Laboratory Results
Table 2:	General Water Chemistry Laboratory Results
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

2007 XTO GROUNDWATER REPORT

SNYDER GAS COM #1A

SITE DETAILS

LEGALS - TWN: 29N RNG: 09W SEC: 19 UNIT: F
NMOCD HAZARD RANKING: 20 LAND TYPE: FEE

PREVIOUS ACTIVITIES

Excavation: Mar-94 (440 cy)

Monitoring Wells: Oct-99

Quarterly Sampling Initiated: 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. General water quality data from 1999 is included 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 west. Figures 2 - 5 illustrate the estimated groundwater gradients for 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 MW-1, MW-2 and MW-3 in January and April 2007. Laboratory results reveal benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations were not detected above the laboratory equipment detection limits (0.2 ug/L) or were below New Mexico Water Quality Control Commission (NMWQCC) standards.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Reports are presented as Figures 6 - 8 representing drilling that occurred on site in October 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.

2007 XTO GROUNDWATER REPORT

CONCLUSIONS

January 1998 XTO Energy Inc. (XTO) acquired the Snyder Gas Com #1A from Amoco Production Company. XTO understands the initial evaluation of groundwater impact came from samples of groundwater collected from the bottom of the pit during excavation of hydrocarbon impacted soil. The initial samples demonstrated elevated levels of dissolved phase BTEX in groundwater. In 1999 three groundwater monitoring wells were installed to delineate the extent of hydrocarbon impact to groundwater. Monitoring well numbered MW-2 was installed in the center of the source area (closed and backfilled earthen blow pit). Groundwater samples collected from MW-2 in October 1999 indicated trace levels of dissolved phase BTEX constituents below the NMWQCC standards. Monitoring well numbered MW-1 was located up-gradient of the source area and monitoring well MW-3 was located down gradient of the source area. MW-1 and MW-3 were sampled and laboratory analysis showed no BTEX constituents above the detection limits of laboratory equipment (0.2 ug/L). Sampling was terminated and site closure was requested in 2000. NMOCD denied the request for closure pending four consecutive quarters of BTEX analysis below the NMWQCC standards.

Groundwater analytical data from MW-1 and MW-2 for four (4) consecutive quarters have demonstrated no detectable levels of BTEX constituents or levels below NMWQCC standards. The quarterly sampling has confirmed no rebound of BTEX constituents has occurred from MW-1 and MW-2. XTO will continue to monitor MW-3 until four consecutive quarters of BTEX analysis are below the NMWQCC standards.

RECOMMENDATIONS

- Terminate sampling of MW-1 & MW-2 for BTEX constituents.
- Continue quarterly sampling of MW-3.
- 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

**SNYDER GC #1A- BLOW PIT
UNIT F, SEC. 19, T29N, R9W**

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)
28-Oct-99	MW #1	6.79	15		ND	ND	ND	ND
13-Jul-06		NA	6.64		No Recovery			
19-Oct-06		10.88	11.97		2.7	9.1	1.1	28
18-Jan-07		9.71	12.42		ND	ND	ND	ND
11-Apr-07		9.12	12		ND	ND	ND	ND
28-Oct-99	MW #2	6.67	15		1.2	3.6	ND	3.7
13-Jul-06		10.31	15.23		ND	ND	ND	ND
16-Oct-06		10.49	15.28		3.1	16	2.3	68
18-Jan-07		9.4	15.23		ND	ND	ND	ND
11-Apr-07		8.82	15.23		ND	ND	ND	ND
28-Oct-99	MW #3	7.35	15		ND	ND	ND	ND
13-Jul-06		9.19	15.1		ND	ND	ND	ND
19-Oct-06		10.67	15.21		82	5.5	ND	19
18-Jan-07		9.64	15.1		2.1	ND	ND	ND
11-Apr-07		9.22	15.1		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

TABLE 2

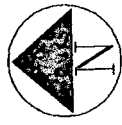
XTO ENERGY INC. GROUNDWATER LAB RESULTS

SNYDER GC #1A- BLOW PIT UNIT F, SEC. 19, T29N, R9W

Sample Date: October 28, 1999

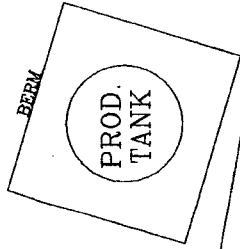
PARAMETERS	MW #1	MW #2	MW #3	UNITS
LAB Ph	7.28	7.37	7.36	s.u.
LAB CONDUCTIVITY @ 25 C	1,094	1,165	1,570	umhos/cm
TOTAL DISSOLVED SOLIDS @ 180 C	520	580	760	mg/L
TOTAL DISSOLVED SOLIDS (Calc)	504	541	733	mg/L
SODIUM ABSORPTION RATIO	2.8	2	1.4	ratio
TOTAL ALKALINITY AS CaCO ₃	221	245	247	mg/L
TOTAL HARDNESS AS CaCO ₃	198	256	420	mg/L
BICARBONATE AS HCO ₃	198	245	247	mg/L
CARBONATE AS CO ₃	< 1	< 1	< 1	mg/L
HYDROXIDE AS OH	< 1	< 1	< 1	mg/L
NITRATE NITROGEN	< 0.1	0.1	0.1	mg/L
NITRITE NITROGEN	0.003	< 0.001	< 0.001	mg/L
CHLORIDE	1.3	2.2	2.3	mg/L
FLUORIDE	1.47	1.35	1.49	mg/L
PHOSPHATE	1.1	0.8	0.5	mg/L
SULFATE	198	208	348	mg/L
IRON	0.007	< 0.001	0.036	mg/L
CALCIUM	73.6	97.2	141.6	mg/L
MAGNESIUM	3.42	3.17	16.1	mg/L
POTASSIUM	2.6	6.4	6.2	mg/L
SODIUM	89	74	67	mg/L
CATION/ANION DIFFERENCE	0.03	0.06	0.16	%

FIGURE 1



SEP.

MW #3



ACCESS ROAD

WELL HEAD

MW #1

1 INCH = 50 FT.



PIT EXCAVATION PERIMETER

MW #2

METER RUN

MONITOR 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 ARE NOT TO SCALE.

XTO ENERGY INC.
SNYDER GC #1A
SW/4 NW/4 SEC. 19, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

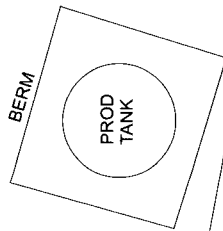
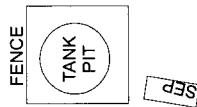
BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW INSTALL.
DRAWN BY: NJV
FILENAME: SNYDR-SM.SKD

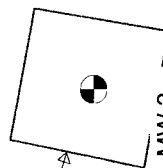
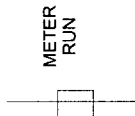
SITE
MAP
10/99



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



MW-3
TOC = 5538.16
GWEL = 5528.97



MW-2
TOC = 5537.92
GWEL = 5527.61

1 INCH = 50 FEET
0 50 100 FT.

ACCESS ROAD



MW-1
TOC = 5538.72
GWEL = Silted In

NOTES:

1. Groundwater contours and flow direction could not be inferred due to the lack of data. Only two control points exist.
2. 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

SNYDER GAS COM #1A
SW/4 NW/4 SEC. 19, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

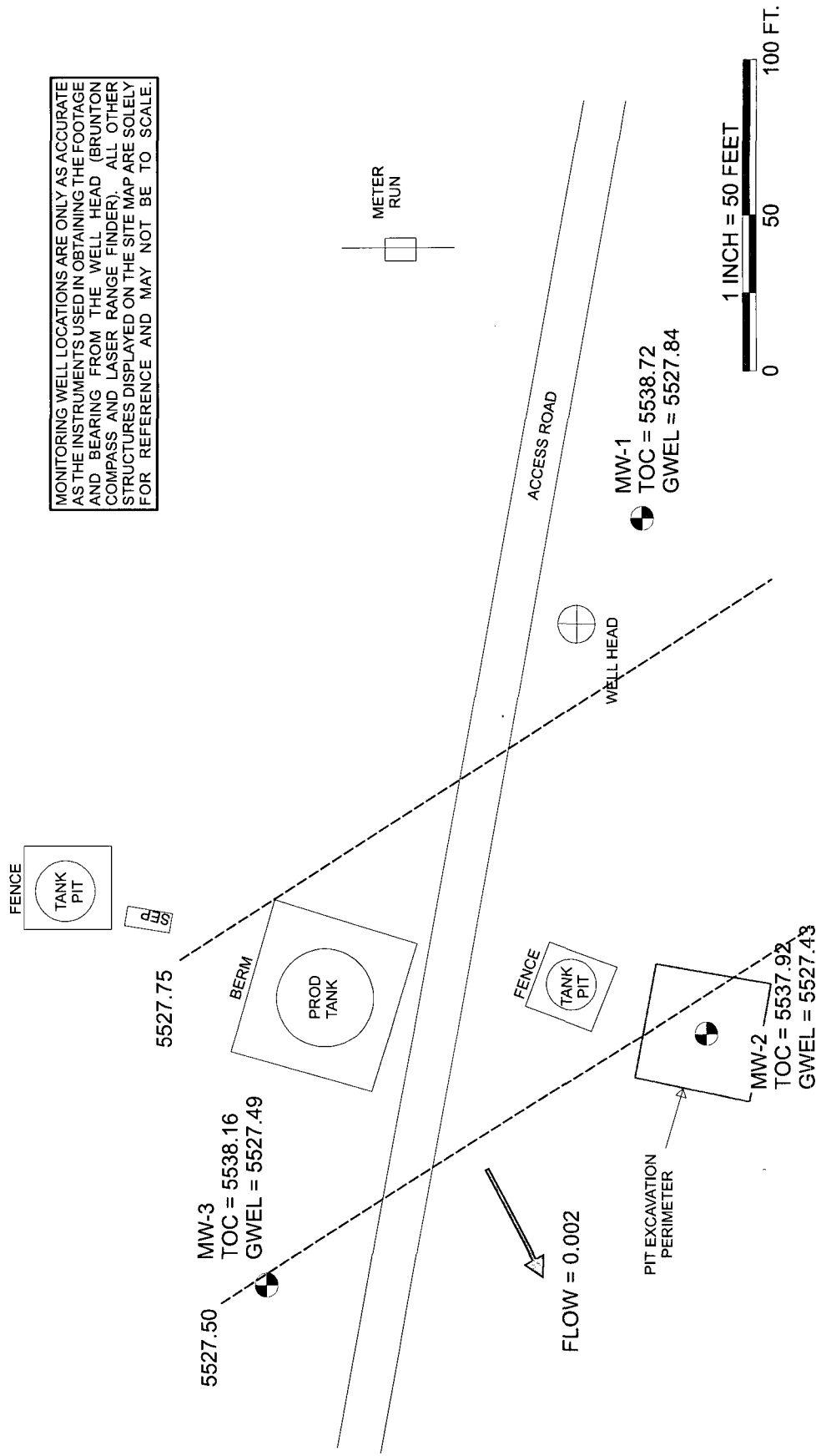
PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 12/01/06

FIGURE 2
GROUNDWATER GRADIENT MAP
07/13/2006



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

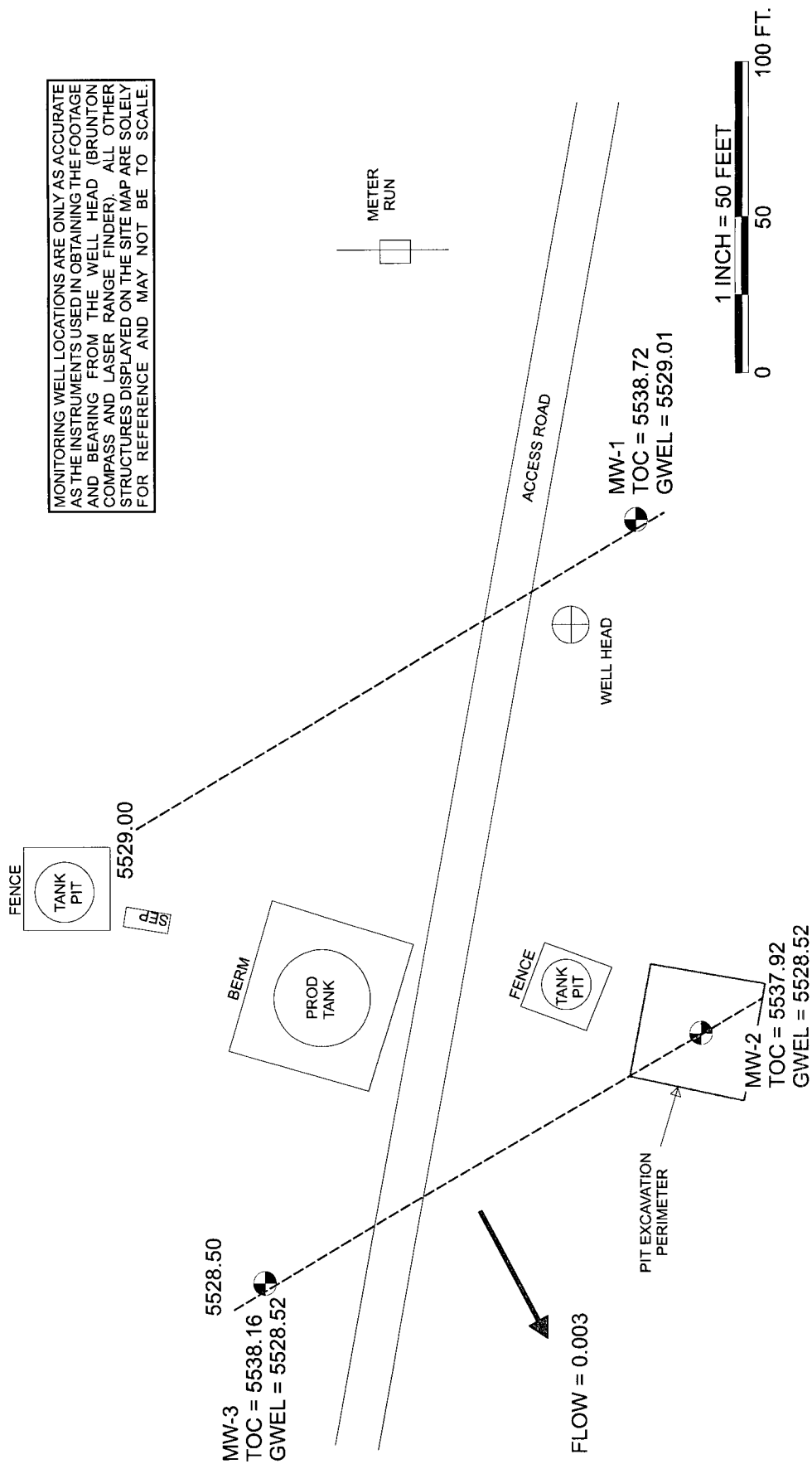
SNYDER GAS COM #1A
SW/4 NW/4 SEC. 19, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 12/01/06

GROUNDWATER GRADIENT MAP
10/19/2006
FIGURE 3



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



Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

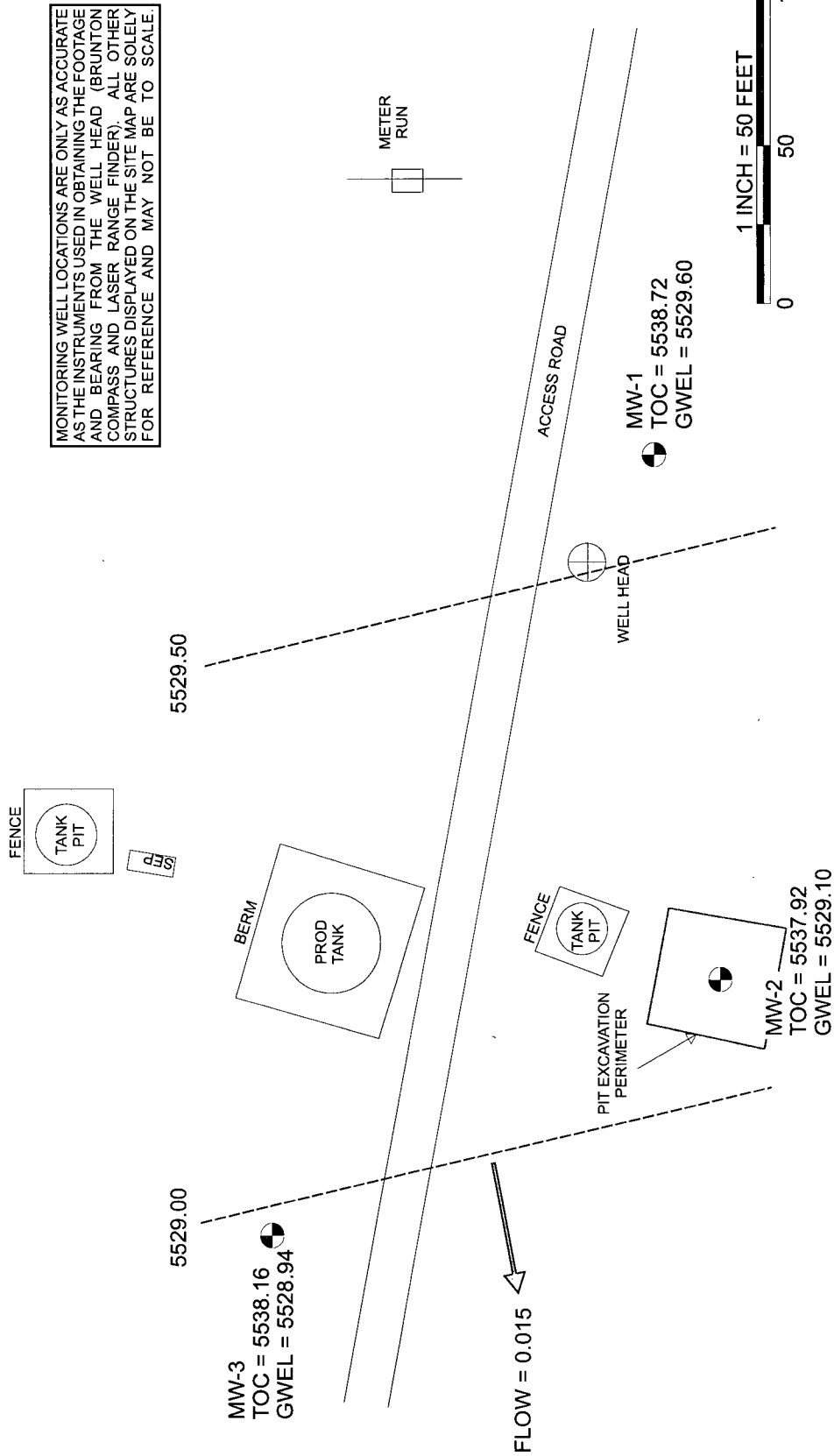
SNYDER GAS COM #1A
SW/4 NW/4 SEC. 19, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 01/19/07

GROUNDWATER GRADIENT MAP
01/18/2007
FIGURE 4



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



Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

SNYDER GAS COM #1A
SW/4 NW/4 SEC. 19, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 04/12/07

GROUNDWATER GRADIENT MAP
04/11/2007
FIGURE 5

FIGURE 6

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.
LOCATION NAME: SNYDER GC #1A
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME61)
BORING LOCATION: 43 FT., S57.5E FEET FROM WELL HEAD.

BORING #..... BH - 1
MW #..... 1
PAGE #..... 1
DATE STARTED 10/11/99
DATE FINISHED 10/11/99
OPERATOR..... DE
PREPARED BY NJV

DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
1				TOP OF CASING APPROX. 1.60 FT. ABOVE GROUND SURFACE.
2				
3				MODERATE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (0.00 - 6.00 FT. INTERVAL).
4				
5				▼ GW DEPTH ON 10/28/99 = 5.19 FT. (APPROX.) FROM GROUND SURFACE.
6				
7				
8				
9				
10				DARK YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT DISCOLORATION OBSERVED OR HYDROCARBON ODOR DETECTED PHYSICALLY (6.00 - 14.00 FT. INTERVAL).
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

NOTE:

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

TOS 3.40
TD 13.40

DRAWING: BH-1.SKD

DATE: 1/29/00

DWN BY: NJV

FIGURE 7

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.
LOCATION NAME: SNYDER GC #1A
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME61)
BORING LOCATION: 145 FT., S73W FEET FROM WELL HEAD.

BORING #..... BH - 2
MW #..... 2
PAGE #..... 2
DATE STARTED 10/11/99
DATE FINISHED 10/11/99
OPERATOR..... DE
PREPARED BY NJV

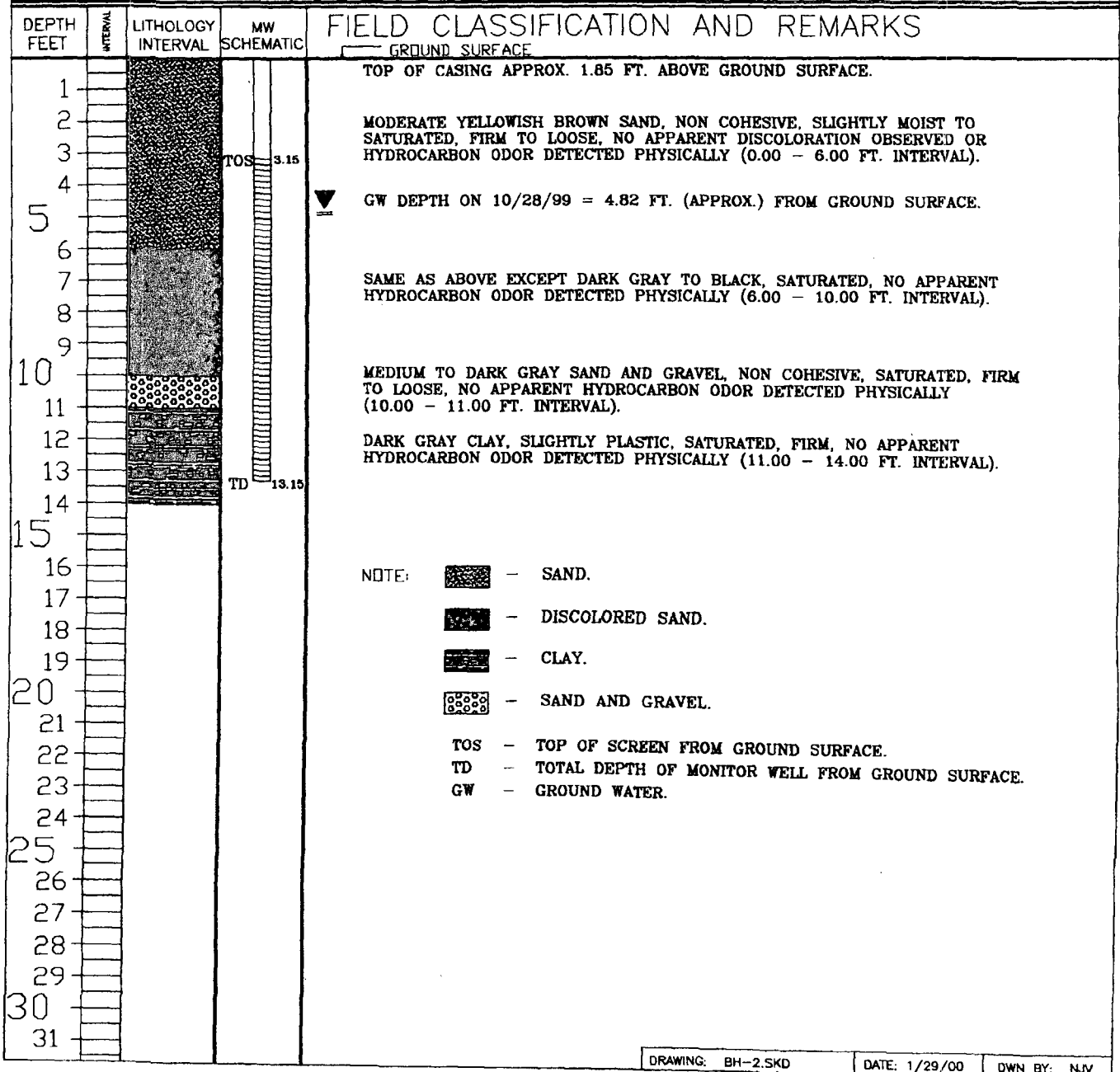


FIGURE 8

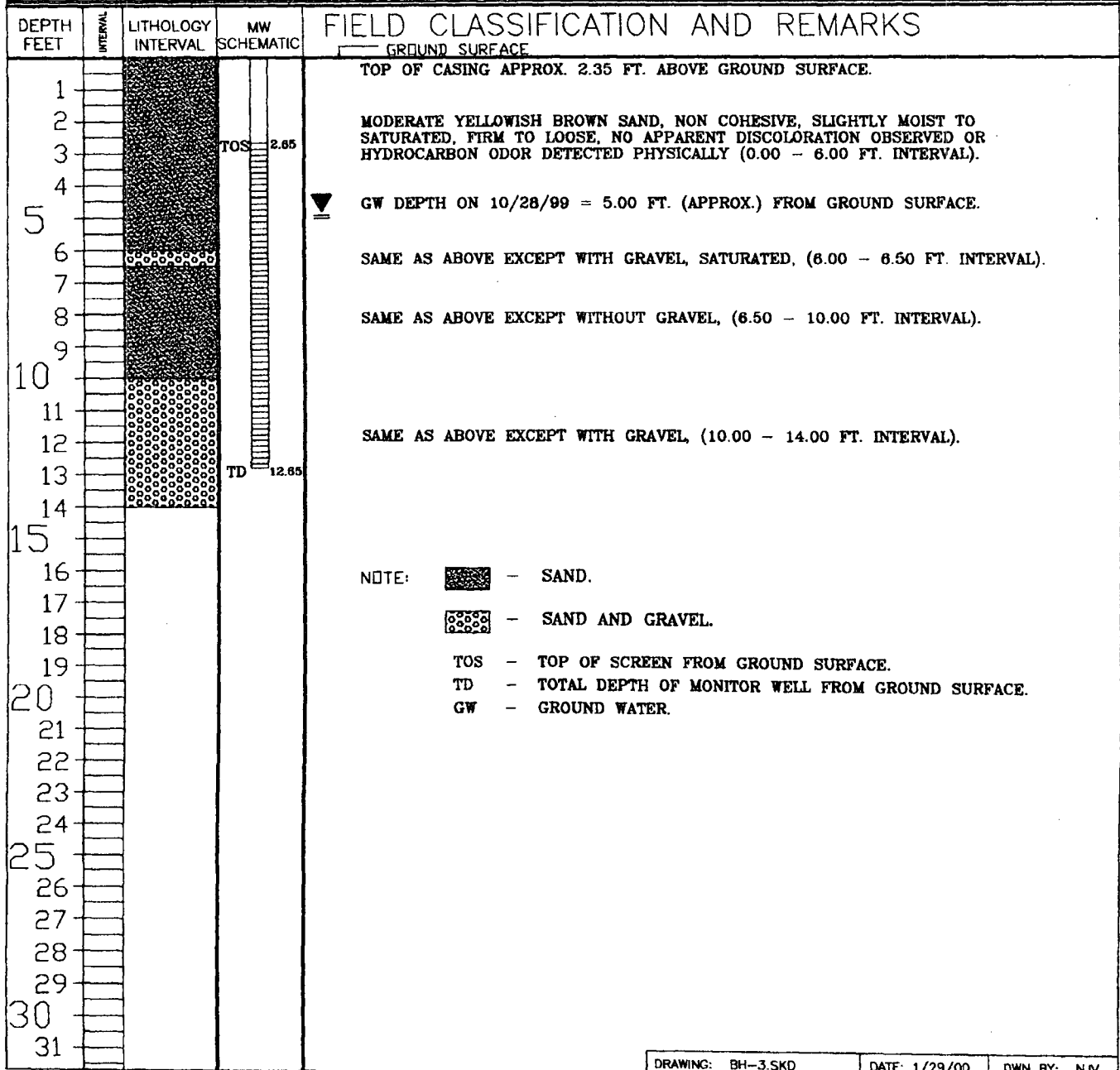
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: XTO ENERGY INC.
LOCATION NAME: SNYDER GC #1A
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (ENVIROTECH CME61)
BORING LOCATION: 246 FT., N65W FEET FROM WELL HEAD.

BORING #..... BH - 3
MW #..... 3
PAGE #..... 3
DATE STARTED 10/11/99
DATE FINISHED 10/11/99
OPERATOR..... DE
PREPARED BY NJV



DRAWING: BH-3.SKD

DATE: 1/29/00

DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Jul-06

CLIENT: XTO Energy
Project: Ground Water**Lab Order:** 0607174**Lab ID:** 0607174-01
Client Sample ID: Snyder GC #1A MW-2**Collection Date:** 7/13/2006 10:17:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	7/24/2006 12:24:02 PM
Toluene	ND	1.0		µg/L	1	7/24/2006 12:24:02 PM
Ethylbenzene	ND	1.0		µg/L	1	7/24/2006 12:24:02 PM
Xylenes, Total	ND	3.0		µg/L	1	7/24/2006 12:24:02 PM
Surr: 4-Bromofluorobenzene	97.6	72.2-125		%REC	1	7/24/2006 12:24:02 PM

Lab ID: 0607174-02
Client Sample ID: Snyder GC #1A MW-3**Collection Date:** 7/13/2006 10:35:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	7/24/2006 12:53:04 PM
Toluene	ND	1.0		µg/L	1	7/24/2006 12:53:04 PM
Ethylbenzene	ND	1.0		µg/L	1	7/24/2006 12:53:04 PM
Xylenes, Total	ND	3.0		µg/L	1	7/24/2006 12:53:04 PM
Surr: 4-Bromofluorobenzene	93.2	72.2-125		%REC	1	7/24/2006 12:53:04 PM

Lab ID: 0607174-03
Client Sample ID: 130706TB002**Collection Date:**
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	7/24/2006 1:22:03 PM
Toluene	ND	1.0		µg/L	1	7/24/2006 1:22:03 PM
Ethylbenzene	ND	1.0		µg/L	1	7/24/2006 1:22:03 PM
Xylenes, Total	ND	3.0		µg/L	1	7/24/2006 1:22:03 PM
Surr: 4-Bromofluorobenzene	98.7	72.2-125		%REC	1	7/24/2006 1:22:03 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: 0607174

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R20010 Analysis Date: 7/24/2006 9:17:45 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: R20010 Analysis Date: 7/24/2006 7:38:34 PM

Benzene	20.42	µg/L	1.0	102	85	115			
Toluene	19.93	µg/L	1.0	99.7	85	118			
Ethylbenzene	19.22	µg/L	1.0	96.1	85	116			
Xylenes, Total	58.45	µg/L	3.0	97.4	85	119			

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R20010 Analysis Date: 7/24/2006 8:07:32 PM

Benzene	20.28	µg/L	1.0	101	85	115	0.727	27	
Toluene	19.96	µg/L	1.0	99.8	85	118	0.110	19	
Ethylbenzene	19.75	µg/L	1.0	98.8	85	116	2.71	10	
Xylenes, Total	60.35	µg/L	3.0	101	85	119	3.21	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 Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Oct-06

CLIENT: XTO Energy
Project: XTO Ground Water

Lab Order: 0610236

Lab ID: 0610236-01

Collection Date: 10/19/2006 2:21:00 PM

Client Sample ID: ~~PO-Pipkin-3E-MW-2~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	54	1.0		µg/L	1	10/23/2006 1:49:04 PM
Toluene	2.9	1.0		µg/L	1	10/23/2006 1:49:04 PM
Ethylbenzene	5.6	1.0		µg/L	1	10/23/2006 1:49:04 PM
Xylenes, Total	50	3.0		µg/L	1	10/23/2006 1:49:04 PM
Surr: 4-Bromofluorobenzene	95.9	72.2-125		%REC	1	10/23/2006 1:49:04 PM

Lab ID: 0610236-02

Collection Date: 10/19/2006 12:58:00 PM

Client Sample ID: Snyder Gas Com 1A MW-1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.7	1.0		µg/L	1	10/23/2006 2:19:23 PM
Toluene	9.1	1.0		µg/L	1	10/23/2006 2:19:23 PM
Ethylbenzene	1.1	1.0		µg/L	1	10/23/2006 2:19:23 PM
Xylenes, Total	28	3.0		µg/L	1	10/23/2006 2:19:23 PM
Surr: 4-Bromofluorobenzene	99.5	72.2-125		%REC	1	10/23/2006 2:19:23 PM

Lab ID: 0610236-03

Collection Date: 10/19/2006 12:45:00 PM

Client Sample ID: Snyder Gas Com 1A MW-3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	82	2.0		µg/L	2	10/24/2006 10:46:24 AM
Toluene	5.5	2.0		µg/L	2	10/24/2006 10:46:24 AM
Ethylbenzene	ND	2.0		µg/L	2	10/24/2006 10:46:24 AM
Xylenes, Total	19	6.0		µg/L	2	10/24/2006 10:46:24 AM
Surr: 4-Bromofluorobenzene	88.9	72.2-125		%REC	2	10/24/2006 10:46:24 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-Oct-06

CLIENT: XTO Energy
Project: XTO Ground Water

Lab Order: 0610236

Lab ID: 0610236-04

Collection Date: 10/19/2006 12:38:00 PM

Client Sample ID: Snyder Gas Com 1A MW-2

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	3.1	1.0		µg/L	1	10/23/2006 3:20:18 PM
Toluene	16	1.0		µg/L	1	10/23/2006 3:20:18 PM
Ethylbenzene	2.3	1.0		µg/L	1	10/23/2006 3:20:18 PM
Xylenes, Total	68	3.0		µg/L	1	10/23/2006 3:20:18 PM
Surr: 4-Bromofluorobenzene	104	72.2-125		%REC	1	10/23/2006 3:20:18 PM

Lab ID: 0610236-05

Collection Date:

Client Sample ID: 19102006TB01

Matrix: TRIP BLANK

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	10/23/2006 3:50:41 PM
Toluene	ND	1.0		µg/L	1	10/23/2006 3:50:41 PM
Ethylbenzene	ND	1.0		µg/L	1	10/23/2006 3:50:41 PM
Xylenes, Total	ND	3.0		µg/L	1	10/23/2006 3:50:41 PM
Surr: 4-Bromofluorobenzene	93.0	72.2-125		%REC	1	10/23/2006 3:50:41 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: XTO Ground Water

Work Order: 0610236

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		MBLK			Batch ID: R21131	Analysis Date: 10/23/2006 9:04:00 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 RB		MBLK			Batch ID: R21155	Analysis Date: 10/24/2006 8:46:50 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: R21131	Analysis Date: 10/23/2006 6:54:04 PM			
Benzene	20.64	µg/L	1.0	103	85	115			
Toluene	20.86	µg/L	1.0	104	85	118			
Ethylbenzene	20.75	µg/L	1.0	104	85	116			
Xylenes, Total	43.17	µg/L	3.0	108	85	119			
Sample ID: 100NG BTEX LCS		LCS			Batch ID: R21155	Analysis Date: 10/24/2006 6:01:40 PM			
Benzene	20.39	µg/L	1.0	102	85	115			
Toluene	20.73	µg/L	1.0	104	85	118			
Ethylbenzene	20.80	µg/L	1.0	104	85	116			
Xylenes, Total	42.15	µg/L	3.0	105	85	119			
Sample ID: 100NG BTEX LCSD		LCSD			Batch ID: R21131	Analysis Date: 10/23/2006 7:24:33 PM			
Benzene	19.92	µg/L	1.0	99.6	85	115	3.53	27	
Toluene	20.05	µg/L	1.0	100	85	118	3.98	19	
Ethylbenzene	20.09	µg/L	1.0	100	85	116	3.21	10	
Xylenes, Total	41.06	µg/L	3.0	103	85	119	5.00	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 Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 23-Jan-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0701243

Lab ID: 0701243-01
Client Sample ID: Snyder GC 1A MW-3

Collection Date: 1/18/2007 9:45:00 AM

Matrix: AQUEOUS

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

Analyst: LMM

Benzene	2.1	1.0		µg/L	1	1/22/2007 11:59:26 AM
Toluene	ND	1.0		µg/L	1	1/22/2007 11:59:26 AM
Ethylbenzene	ND	1.0		µg/L	1	1/22/2007 11:59:26 AM
Xylenes, Total	ND	3.0		µg/L	1	1/22/2007 11:59:26 AM
Surr: 4-Bromofluorobenzene	88.1	70.2-105		%REC	1	1/22/2007 11:59:26 AM

Lab ID: 0701243-02
Client Sample ID: Snyder GC 1A MW-2

Collection Date: 1/18/2007 10:05:00 AM

Matrix: AQUEOUS

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

Analyst: LMM

Benzene	ND	1.0		µg/L	1	1/22/2007 12:29:37 PM
Toluene	ND	1.0		µg/L	1	1/22/2007 12:29:37 PM
Ethylbenzene	ND	1.0		µg/L	1	1/22/2007 12:29:37 PM
Xylenes, Total	ND	3.0		µg/L	1	1/22/2007 12:29:37 PM
Surr: 4-Bromofluorobenzene	90.4	70.2-105		%REC	1	1/22/2007 12:29:37 PM

Lab ID: 0701243-03
Client Sample ID: Snyder GC 1A MW-1

Collection Date: 1/18/2007 10:25:00 AM

Matrix: AQUEOUS

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

Analyst: LMM

Benzene	ND	1.0		µg/L	1	1/22/2007 12:59:35 PM
Toluene	ND	1.0		µg/L	1	1/22/2007 12:59:35 PM
Ethylbenzene	ND	1.0		µg/L	1	1/22/2007 12:59:35 PM
Xylenes, Total	ND	3.0		µg/L	1	1/22/2007 12:59:35 PM
Surr: 4-Bromofluorobenzene	93.4	70.2-105		%REC	1	1/22/2007 12:59:35 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: 23-Jan-07

CLIENT: XTO Energy
Project: Ground Water**Lab Order:** 0701243**Lab ID:** 0701243-10**Collection Date:****Client Sample ID:** Trip Blank**Matrix:** TRIP BLANK

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

Analyst: LMM

Benzene	ND	1.0		µg/L	1	1/19/2007 9:42:17 PM
Toluene	ND	1.0		µg/L	1	1/19/2007 9:42:17 PM
Ethylbenzene	ND	1.0		µg/L	1	1/19/2007 9:42:17 PM
Xylenes, Total	ND	3.0		µg/L	1	1/19/2007 9:42:17 PM
Surr: 4-Bromofluorobenzene	90.2	70.2-105		%REC	1	1/19/2007 9:42:17 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: 0701243

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0701243-05A MSD		MSD			Batch ID: R22202	Analysis Date: 1/19/2007 7:11:56 PM			
Benzene	18.34	µg/L	1.0	91.7	85.9	113	1.76	27	
Toluene	18.78	µg/L	1.0	93.9	86.4	113	0.912	19	
Ethylbenzene	18.82	µg/L	1.0	94.1	83.5	118	1.70	10	
Xylenes, Total	55.94	µg/L	3.0	93.2	83.4	122	1.91	13	
Sample ID: 5ML RB		MBLK			Batch ID: R22202	Analysis Date: 1/19/2007 10:19:43 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 RB		MBLK			Batch ID: R22217	Analysis Date: 1/22/2007 10:28:43 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: R22202	Analysis Date: 1/19/2007 11:50:06 AM			
Benzene	18.37	µg/L	1.0	91.8	85.9	113			
Toluene	18.84	µg/L	1.0	94.2	86.4	113			
Ethylbenzene	18.96	µg/L	1.0	94.8	83.5	118			
Xylenes, Total	56.97	µg/L	3.0	95.0	83.4	122			
Sample ID: 100NG BTEX LCS		LCS			Batch ID: R22217	Analysis Date: 1/22/2007 11:29:07 AM			
Benzene	18.52	µg/L	1.0	92.6	85.9	113			
Toluene	19.07	µg/L	1.0	95.4	86.4	113			
Ethylbenzene	19.43	µg/L	1.0	97.1	83.5	118			
Xylenes, Total	57.94	µg/L	3.0	96.6	83.4	122			
Sample ID: 0701243-05A MS		MS			Batch ID: R22202	Analysis Date: 1/19/2007 6:41:45 PM			
Benzene	18.66	µg/L	1.0	93.3	85.9	113			
Toluene	18.95	µg/L	1.0	94.8	86.4	113			
Ethylbenzene	19.14	µg/L	1.0	95.7	83.5	118			
Xylenes, Total	57.01	µg/L	3.0	95.0	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: 18-Apr-07

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0704208

Lab ID: 0704208-01
Client Sample ID: Snyder GC 1A MW-3

Collection Date: 4/11/2007 10:25:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	1.4	1.0		µg/L	1	4/17/2007 12:57:57 PM
Toluene	ND	1.0		µg/L	1	4/17/2007 12:57:57 PM
Ethylbenzene	ND	1.0		µg/L	1	4/17/2007 12:57:57 PM
Xylenes, Total	ND	2.0		µg/L	1	4/17/2007 12:57:57 PM
Surr: 4-Bromofluorobenzene	87.5	70.2-105		%REC	1	4/17/2007 12:57:57 PM

Lab ID: 0704208-02
Client Sample ID: Snyder GC 1A MW-2

Collection Date: 4/11/2007 10:41:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/17/2007 1:28:07 PM
Toluene	ND	1.0		µg/L	1	4/17/2007 1:28:07 PM
Ethylbenzene	ND	1.0		µg/L	1	4/17/2007 1:28:07 PM
Xylenes, Total	ND	2.0		µg/L	1	4/17/2007 1:28:07 PM
Surr: 4-Bromofluorobenzene	85.6	70.2-105		%REC	1	4/17/2007 1:28:07 PM

Lab ID: 0704208-03
Client Sample ID: Snyder GC 1A MW-1

Collection Date: 4/11/2007 10:54:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/17/2007 1:58:17 PM
Toluene	ND	1.0		µg/L	1	4/17/2007 1:58:17 PM
Ethylbenzene	ND	1.0		µg/L	1	4/17/2007 1:58:17 PM
Xylenes, Total	ND	2.0		µg/L	1	4/17/2007 1:58:17 PM
Surr: 4-Bromofluorobenzene	87.1	70.2-105		%REC	1	4/17/2007 1:58:17 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: 18-Apr-07

CLIENT: XTO Energy
Project: Ground Water**Lab Order:** 0704208**Lab ID:** 0704208-10**Collection Date:****Client Sample ID:** Trip Blank**Matrix:** TRIP BLANK

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	4/17/2007 7:59:06 PM
Toluene	ND	1.0		µg/L	1	4/17/2007 7:59:06 PM
Ethylbenzene	ND	1.0		µg/L	1	4/17/2007 7:59:06 PM
Xylenes, Total	ND	2.0		µg/L	1	4/17/2007 7:59:06 PM
Surr: 4-Bromofluorobenzene	87.1	70.2-105		%REC	1	4/17/2007 7:59:06 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 4 / 6

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: 0704208

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

Sample ID: 0704208-07A MSD *MSD* **Batch ID:** R23257 **Analysis Date:** 4/17/2007 4:58:25 PM

Benzene	19.19	µg/L	1.0	96.0	85.9	113	0.219	27
Toluene	19.51	µg/L	1.0	97.6	86.4	113	0.668	19
Ethylbenzene	19.63	µg/L	1.0	98.2	83.5	118	0.183	10
Xylenes, Total	58.33	µg/L	2.0	97.2	83.4	122	0.209	13

Sample ID: 5ML REAGENT BLA *MBLK* **Batch ID:** R23257 **Analysis Date:** 4/17/2007 8:27:16 AM

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

Sample ID: 5ML RB-II *MBLK* **Batch ID:** R23257 **Analysis Date:** 4/18/2007 12:32:06 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:** R23257 **Analysis Date:** 4/17/2007 5:28:34 PM

Benzene	19.51	µg/L	1.0	97.6	85.9	113
Toluene	19.75	µg/L	1.0	98.8	86.4	113
Ethylbenzene	19.94	µg/L	1.0	99.7	83.5	118
Xylenes, Total	59.17	µg/L	2.0	98.6	83.4	122

Sample ID: 100NG BTEX LCS-II *LCS* **Batch ID:** R23257 **Analysis Date:** 4/18/2007 1:02:03 AM

Benzene	19.87	µg/L	1.0	99.4	85.9	113
Toluene	20.20	µg/L	1.0	101	86.4	113
Ethylbenzene	20.35	µg/L	1.0	102	83.5	118
Xylenes, Total	60.60	µg/L	2.0	101	83.4	122

Sample ID: 100NG BTEX LCSD-I *LCSD* **Batch ID:** R23257 **Analysis Date:** 4/18/2007 1:32:05 AM

Benzene	19.20	µg/L	1.0	96.0	85.9	113	3.42	27
Toluene	19.53	µg/L	1.0	97.6	86.4	113	3.37	19
Ethylbenzene	19.67	µg/L	1.0	98.4	83.5	118	3.38	10
Xylenes, Total	58.58	µg/L	2.0	97.6	83.4	122	3.39	13

Sample ID: 0704208-07A MS *MS* **Batch ID:** R23257 **Analysis Date:** 4/17/2007 4:28:32 PM

Benzene	19.15	µg/L	1.0	95.8	85.9	113
Toluene	19.38	µg/L	1.0	96.9	86.4	113
Ethylbenzene	19.67	µg/L	1.0	98.3	83.5	118
Xylenes, Total	58.20	µg/L	2.0	97.0	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