3R - 415

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 3R415
- 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 3R409
- 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

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

3R 415

- OGRID
- DEHM PIT
- DTW 12

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2007

CARSON GAS COM #1E
(F) SECTION 32 – T30N – R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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

January 2008

TABLE OF CONTENTS

2007 XTO GROUNDWATER REPORT

CARSON GAS COM #1E

SITE DETAILS

LEGALS - TWN: 30N **RNG:** 12W **SEC:** 32 **UNIT:** F
NMOCD HAZARD RANKING: 30 **LAND TYPE:** FEE

PREVIOUS ACTIVITIES

Excavation: Feb-04 (400 CY)
Monitoring Wells: Feb/Mar-04 & May-07
Quarterly Sampling Initiated: Feb-04
Sampling Re-initiated: Aug-06

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. Copies of the laboratory reports and associated quality assurance/quality control data for 2007 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected during site monitoring activities indicate a groundwater gradient that trends towards the southwest. Figures 2 - 4 illustrate the estimated groundwater gradient for three quarters in 2007. Monitoring well MW-3 was replaced in May 2007 (MW-3R).

ANNUAL GROUNDWATER REMEDIATION REPORTS

The 2006 annual groundwater report was submitted to New Mexico Oil Conservation Division (NMOCD) in February 2007, proposing replacement of MW-3 and continued quarterly sampling of the groundwater monitoring wells, in accordance with the NMOCD approved Groundwater Management Plan.

2007 ACTIVITIES

Following the assessment of this site in December 2006, groundwater monitoring well MW-3R was installed in May 2007. Groundwater samples were collected from monitoring wells MW-1, MW-2 and MW-3R during the last three quarters of 2007. No detectable levels of benzene, toluene, ethyl benzene and total xylenes (BTEX) were observed in the groundwater analytical data during these sample events. Quarterly groundwater samples will continue until four (4) consecutive quarters demonstrate levels below New Mexico Water Quality Control Commission (NMWQCC) Standards.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Reports were not generated in 2004 at the time of drilling and therefore are not presented. Bore/Test Hole Reports are presented as Figures 5 - 6 representing drilling that occurred on site in May 2007.

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 Carson Gas Com #1E from Amoco Production Company. In 2004 a historical dehydrator pit was discovered. The former pit was closed (Attachment 2) and three groundwater monitoring wells were installed to delineate the extent of hydrocarbon impact to groundwater. Monitoring well numbered MW-2 was installed near the center of the source area, (closed and backfilled earthen dehy 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 either of the monitoring wells.

Groundwater analytical data from MW-1, MW-2 and MW-3R for three sampling events in 2007 have demonstrated no detectable levels of BTEX constituents. The quarterly sampling will continue until four (4) consecutive quarters have been analyzed for BTEX constituents.

RECOMMENDATIONS

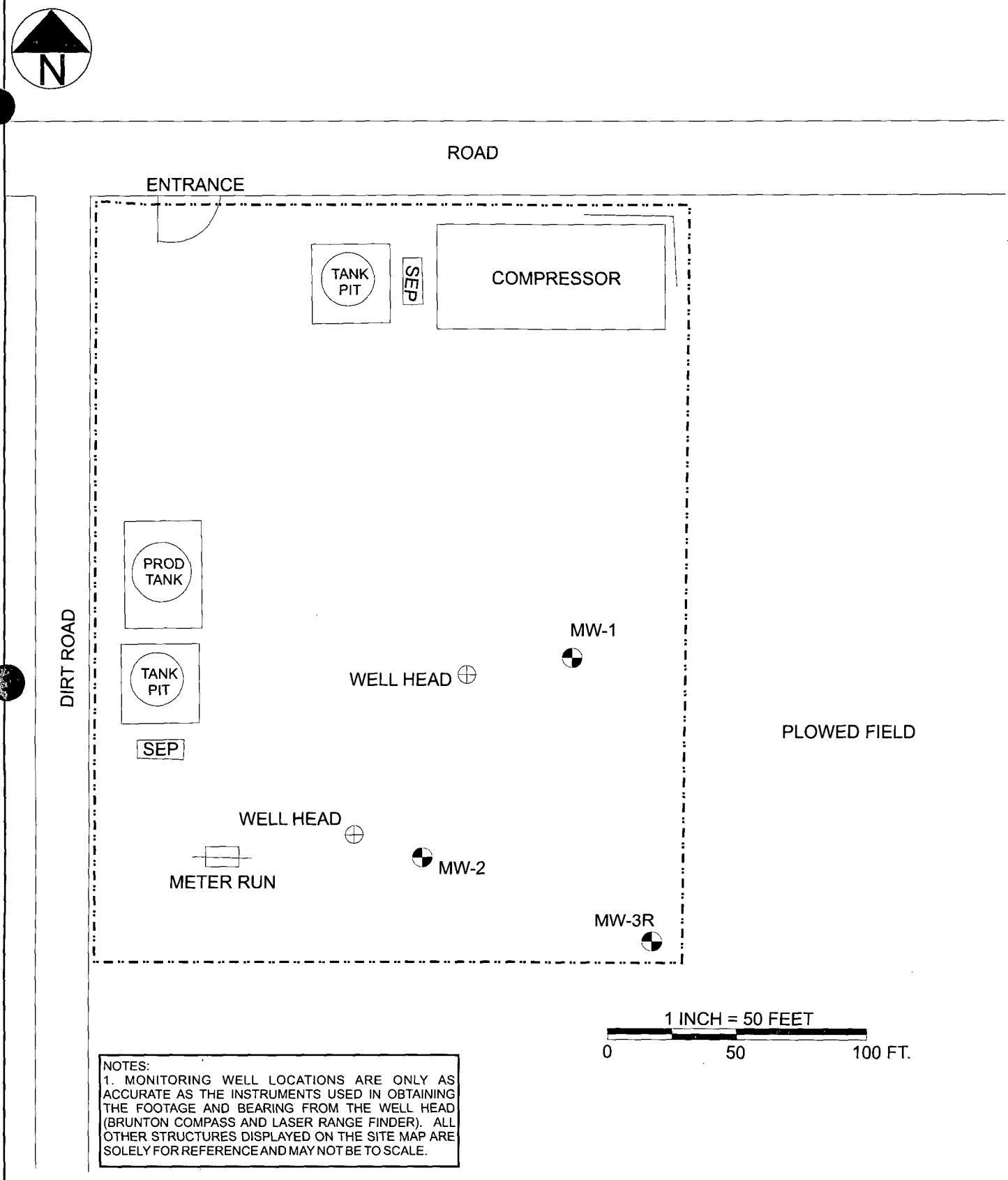
- Quarterly sampling will continue at all monitoring wells until analytical results show hydrocarbon constituents are below New Mexico groundwater standards for four (4) consecutive quarters.
- Following OCD approval for closure, all monitoring well locations will be abandoned in accordance with the monitoring well abandonment plan.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

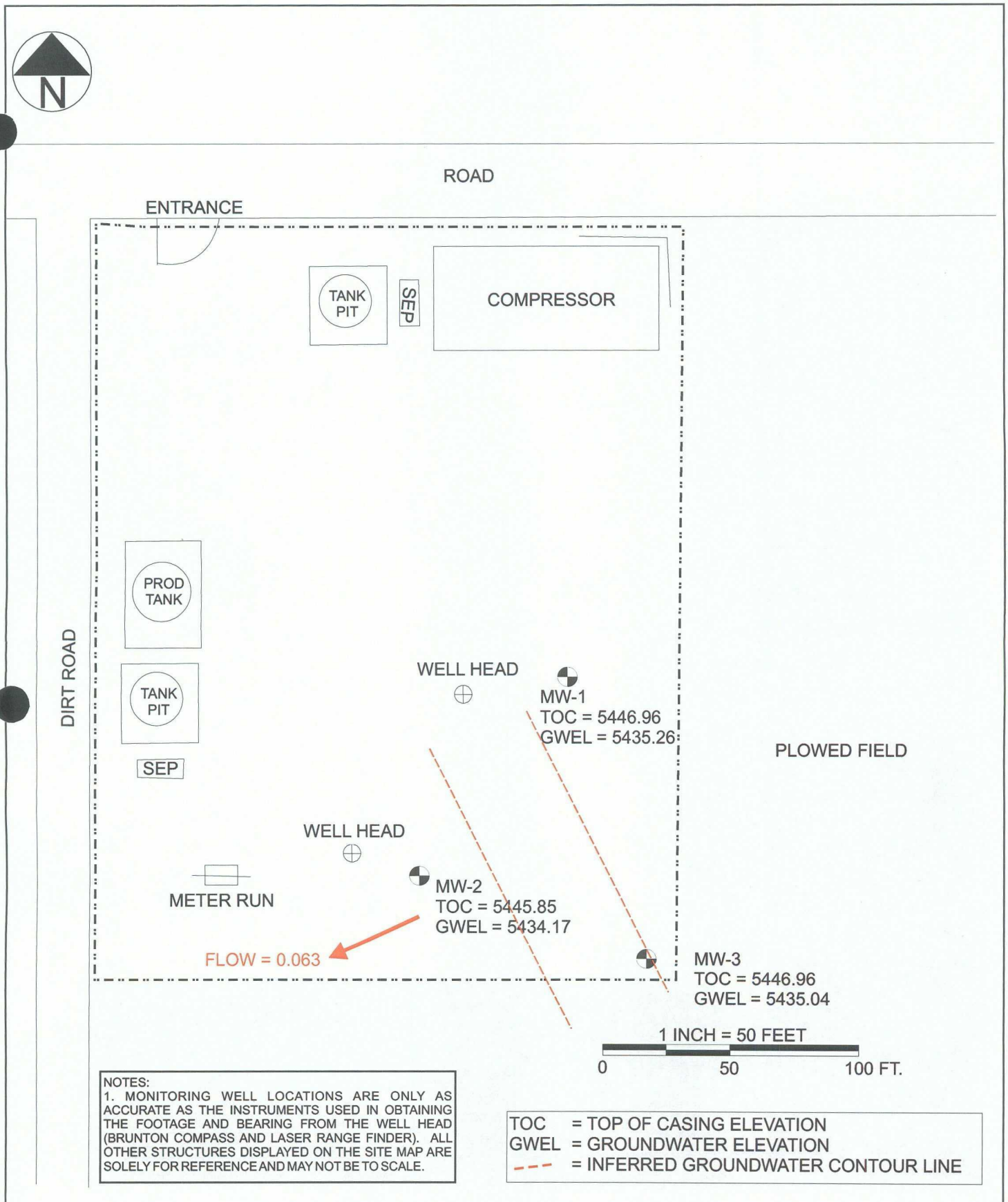
CARSON GC #1E- DEHY PIT
UNIT F, SEC. 32, T30N, R12W

					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)
6-Dec-06	MW #1				ND	ND	ND	ND
15-Jun-07		11.70	25.98		ND	ND	ND	ND
25-Sep-07		11.28	25.98		ND	ND	ND	ND
28-Dec-07		16.36	25.98		ND	ND	ND	ND
29-Feb-04	MW #2				ND	42	110	1100
21-Jun-04					ND	ND	ND	ND
27-Sep-04					ND	ND	0.88	ND
29-Dec-04					ND	ND	0.97	0.54
27-Jun-05					ND	ND	ND	0.96
6-Dec-06					ND	ND	ND	ND
15-Jun-07		11.68	20.08		ND	ND	ND	ND
25-Sep-07		11.11	20.08		ND	ND	ND	ND
28-Dec-07		16.41	20.08		ND	ND	ND	ND
31-Mar-04	MW #3				ND	ND	ND	ND
21-Jun-04					ND	ND	ND	ND
15-Jun-07		13.72	26.32		ND	ND	ND	ND
25-Sep-07		13.72	26.32		ND	ND	ND	ND
20-Dec-07		19.47	26.32		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620



NOTES:
1. 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.

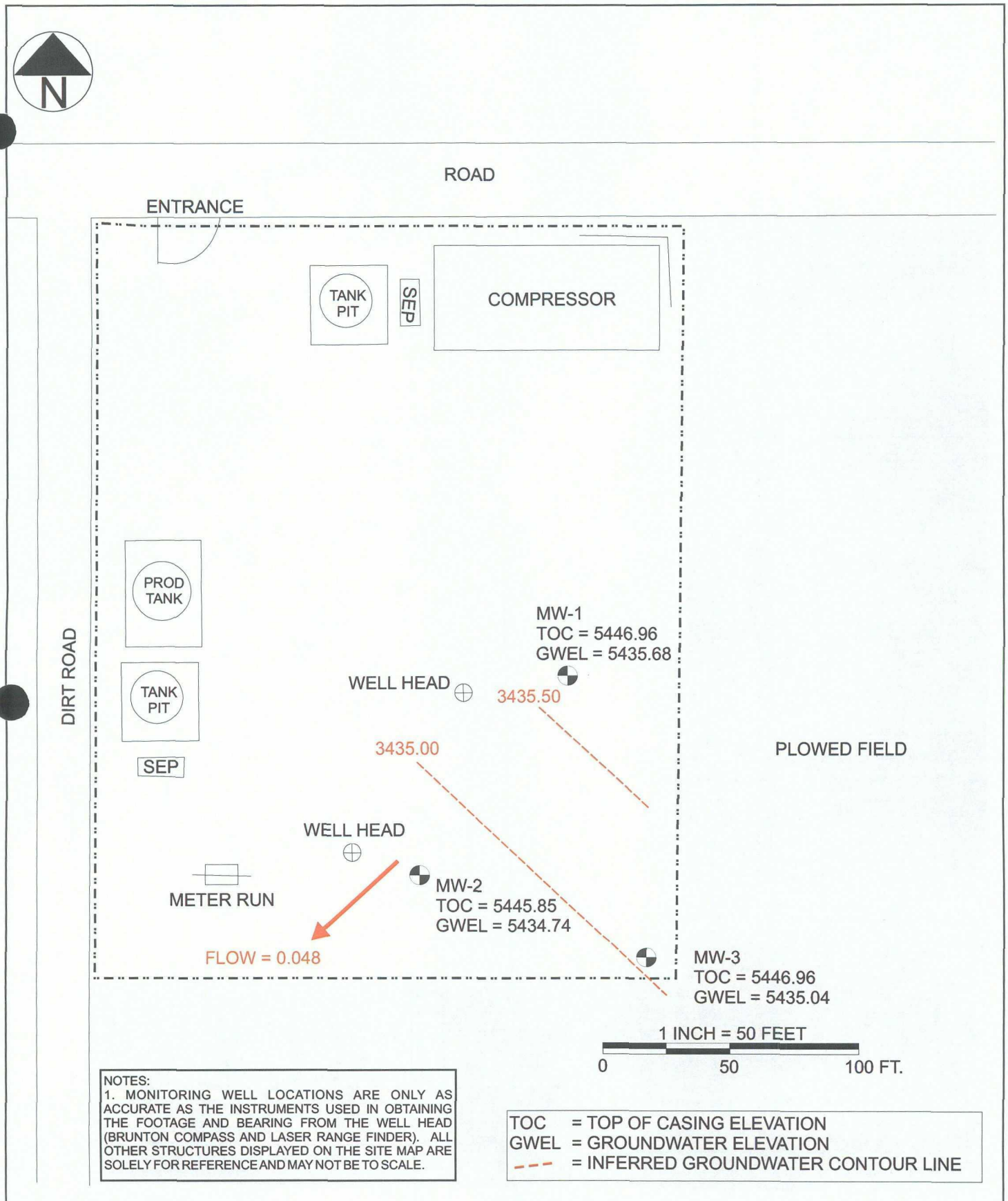
Lodestar Services, Inc Box 3861 Farmington, NM 87499	CARSON GAS COM 1E SE/4 MW/4 SEC. 32, T30N, R12W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 01/29/08	SITE MAP 05/2007 FIGURE 1



NOTES:
1. 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.

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

Lodestar Services, Inc Box 3861 Farmington, NM 87499	CARSON GAS COM 1E SE/4 MW/4 SEC. 32, T30N, R12W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 06/21/07	SITE MAP 06/15/2007 FIGURE 2



NOTES:
1. 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.

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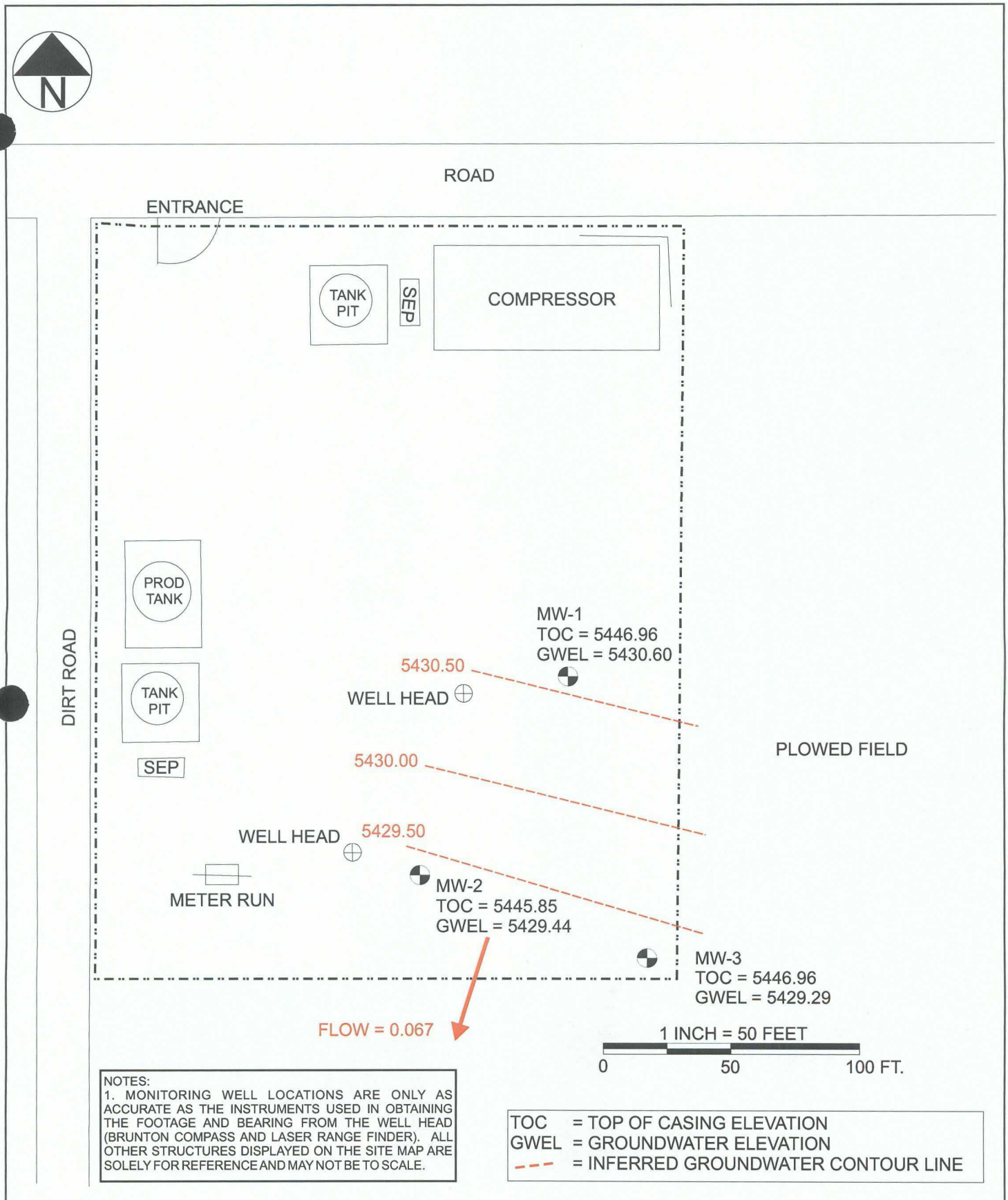
--- = INFERRED GROUNDWATER CONTOUR LINE

Lodestar Services, Inc Box 3861 Farmington, NM 87499	CARSON GAS COM 1E SE/4 MW/4 SEC. 32, T30N, R12W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 09/28/07	SITE MAP 09/27/2007 FIGURE 3



NOTES:
1. 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.

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

Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	CARSON GAS COM 1E SE/4 MW/4 SEC. 32, T30N, R12W SAN JUAN COUNTY, NEW MEXICO	PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 12/31/07	SITE MAP 12/28/2007 FIGURE 4

FIGURE 5

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #: 1
Well #: MW-3
Page: 1 of 2
Project Number:
Project Name: XTO Ground Water
Project Location: Carson Gas Com #1E

Borehole Location: 36° 35.689' N, 107° 52.356' W
GWL Depth: 21.5
Drilled By: Enviro-Drill
Well Logged By: Ashley Ager
Date Started: 05/01/07
Date Completed: 05/01/07

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
0	1	0-7'	cuttings	tan, poorly sorted gravelly sand with cobbles (fill from well pad)	0	Easy
5	2	7-20'	cuttings	Brown, coarse sand, poorly sorted, sub-rounded, unconsolidated, moist	0	Easy
10						
15						
20						

Comments: Cobbles in top 20', but loose enough that auger was used to drill hole.

Geologist Signature: *Ashley L. Ager*

RECORD OF SUBSURFACE EXPLORATION

LodeStar Services
P.O. Box 4465
Durango, CO 81302
303-917-6288

Borehole #: 1
Well #: MW-3
Page: 2 of 2
Project Number:
Project Name: XTO Ground Water
Project Location: Carson Gas Com #1E

Borehole Location: 36° 35.689' N, 107° 52.356' W
GWL Depth: 21.5
Drilled By: Enviro-Drill
Well Logged By: Ashley Ager
Date Started: 05/01/07
Date Completed: 05/01/07

Drilling Method: Hollow Stem Auger
Air Monitoring Method: PID

Depth (feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description	Air Monitoring	Drilling Conditions
20						
	3	21.5-25.5	cuttings	Brown, coarse sand, poorly sorted, sub-rounded, unconsolidated, saturated	0	Easy
25	4	25.5	cuttings	brown sandstone fragments	0	Hard
30						
35						
40						

Comments: Reached sandstone bedrock at 25.5'

Geologist Signature: *Ashley L. Ager*

FIGURE 6
MONITORING WELL INSTALLATION RECORD

Lodestar Services, Inc
PO Box 3861
Farmington, New Mexico 87499
(505) 334-2791

Borehole # 1
Well # MW-3
Page 1 of 1

Project Name XTO Ground Water
Project Number _____ Cost Code _____
Project Location Carson Gas Com #1E

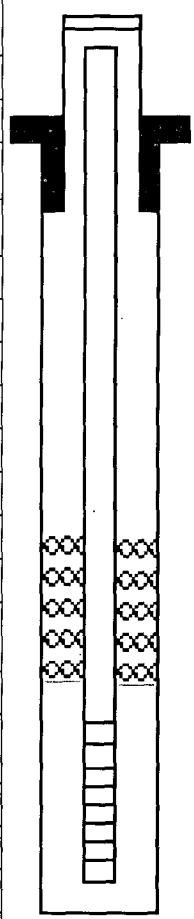
Elevation 5423
Well Location 36° 35.689' N, 107° 52.356' W
GWL Depth 21.5'
Installed By Enviro-Drill

On-Site Geologist Ashley Ager
Personnel On-Site
Contractors On-Site Jeff Cathron and assistant
Client Personnel On-Site

Date/Time Started 04/30/07, 1350
Date/Time Completed 04/30/07, 1420

Depths in Reference to Ground Surface

Item	Material	Depth (feet)
Top of Protective Casing	Steel	3
Bottom of Protective Casing		-2
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete	Concrete	0.3
Bottom of Concrete		-.07
Top of Grout		NA
Bottom of Grout		NA
Top of Well Riser	Sch. 40 PVC	2.8
Bottom of Well Riser		-26.8
Top of Well Screen	Sch. 40 PVC	-16.5
Bottom of Well Screen		-26.5
Top of Peltonite Seal	3/8" Bentonite hole plug	-12.5
Bottom of Peltonite Seal		-14.5
Top of Gravel Pack	10-20 grade silica sand	-14.5
Bottom of Gravel Pack		-26.8
Top of Natural Cave-In	Silty sand	NA
Bottom of Natural Cave-In		NA
Top of Groundwater		-21.5
Total Depth of Borehole		-26.8



Top of Protective Casing 3.0
Top of Riser 2.8
Ground Surface 0
Top of Seal -12.5
Top of Gravel Pack -14.5
Top of Screen -16.5
Bottom of Screen -26.5
Bottom of Borehole -26.8

Comments: 50 lb bags of sand used: 4 ea. , 50 lb bags of bentontie used: 3.5 ea.; 1 bag of quikcrete used

Geologist Signature *Ashley L. Ager*

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Jun-07*

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0706264

Lab ID: 0706264-04 **Collection Date:** 6/15/2007 11:58:00 AM
Client Sample ID: Carson GC #1E MW-2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: LMM
Benzene	ND	1.0		µg/L	1	6/26/2007 5:08:42 PM
Toluene	ND	1.0		µg/L	1	6/26/2007 5:08:42 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2007 5:08:42 PM
Xylenes, Total	ND	3.0		µg/L	1	6/26/2007 5:08:42 PM
Surr: 4-Bromofluorobenzene	90.1	71.2-123		%REC	1	6/26/2007 5:08:42 PM

Lab ID: 0706264-05 **Collection Date:** 6/15/2007 12:23:00 PM
Client Sample ID: Carson GC #1E MW-3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: LMM
Benzene	ND	1.0		µg/L	1	6/26/2007 5:47:37 PM
Toluene	ND	1.0		µg/L	1	6/26/2007 5:47:37 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2007 5:47:37 PM
Xylenes, Total	ND	3.0		µg/L	1	6/26/2007 5:47:37 PM
Surr: 4-Bromofluorobenzene	92.6	71.2-123		%REC	1	6/26/2007 5:47:37 PM

Lab ID: 0706264-06 **Collection Date:** 6/15/2007 12:52:00 PM
Client Sample ID: Carson GC #1E MW-1 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: LMM
Benzene	ND	1.0		µg/L	1	6/26/2007 6:26:34 PM
Toluene	ND	1.0		µg/L	1	6/26/2007 6:26:34 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2007 6:26:34 PM
Xylenes, Total	ND	3.0		µg/L	1	6/26/2007 6:26:34 PM
Surr: 4-Bromofluorobenzene	88.7	71.2-123		%REC	1	6/26/2007 6:26:34 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: *29-Jun-07*

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0706264

Lab ID: 0706264-07 **Collection Date:**
Client Sample ID: Trip Blank **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: LMM
Benzene	ND	1.0		µg/L	1	6/27/2007 4:02:24 PM
Toluene	1.1	1.0		µg/L	1	6/27/2007 4:02:24 PM
Ethylbenzene	ND	1.0		µg/L	1	6/27/2007 4:02:24 PM
Xylenes, Total	ND	3.0		µg/L	1	6/27/2007 4:02:24 PM
Surr: 4-Bromofluorobenzene	90.3	71.2-123		%REC	1	6/27/2007 4:02:24 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:** 0706264

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5mL rb		*MBLK*			Batch ID: R24131		Analysis Date: 6/26/2007 11:55:15 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 5mL rb		*MBLK*			Batch ID: R24155		Analysis Date: 6/27/2007 9:31:05 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 lcs		*LCS*			Batch ID: R24131		Analysis Date: 6/26/2007 1:12:58 PM		
Benzene	20.49	µg/L	1.0	102	82.4	128			
Toluene	19.13	µg/L	1.0	95.6	77.2	115			
Sample ID: 100ng lcs		*LCS*			Batch ID: R24155		Analysis Date: 6/27/2007 10:49:11 AM		
Benzene	21.10	µg/L	1.0	106	82.4	128			
Toluene	20.10	µg/L	1.0	101	77.2	115			

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 [illegible] recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Carson GC 1E MW-2
Lab Order:	0709406	**Collection Date:**	9/27/2007 11:24:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-25	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 10:05:58 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 10:05:58 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 10:05:58 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 10:05:58 PM
Surr: 4-Bromofluorobenzene	86.4	70.2-105		%REC	1	10/3/2007 10:05:58 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: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Carson GC 1E MW-3
Lab Order:	0709406	**Collection Date:**	9/27/2007 11:53:00 AM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-26	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 10:35:51 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 10:35:51 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 10:35:51 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 10:35:51 PM
Surr: 4-Bromofluorobenzene	84.6	70.2-105		%REC	1	10/3/2007 10:35:51 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: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Carson GC 1E MW-1
Lab Order:	0709406	**Collection Date:**	9/27/2007 12:20:00 PM
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-27	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 11:05:55 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 11:05:55 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 11:05:55 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 11:05:55 PM
Surr: 4-Bromofluorobenzene	86.3	70.2-105		%REC	1	10/3/2007 11:05:55 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: *08-Oct-07*

CLIENT:	XTO Energy	**Client Sample ID:**	Trip Blank
Lab Order:	0709406	**Collection Date:**	
Project:	Ground Water	**Date Received:**	9/28/2007
Lab ID:	0709406-28	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 11:35:56 PM
Xylenes, Total	ND	2.0		µg/L	1	10/3/2007 11:35:56 PM
Surr: 4-Bromofluorobenzene	82.7	70.2-105		%REC	1	10/3/2007 11:35:56 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 REPOR

Client: XTO Energy
Project: Ground Water **Work Order:** 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0709406-01A MSD		*MSD*			Batch ID:	**R25409**	Analysis Date:		10/3/2007 3:45:13 AM
Benzene	20.98	µg/L	1.0	105	85.9	113	0.580	27	
Toluene	19.97	µg/L	1.0	99.6	86.4	113	0.764	19	
Ethylbenzene	19.95	µg/L	1.0	99.3	83.5	118	1.13	10	
Xylenes, Total	59.14	µg/L	2.0	98.1	83.4	122	0.764	13	
Sample ID: 0709406-20A MSD		*MSD*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 8:05:57 PM
Benzene	20.94	µg/L	1.0	102	85.9	113	1.15	27	
Toluene	19.97	µg/L	1.0	98.4	86.4	113	1.23	19	
Ethylbenzene	19.95	µg/L	1.0	99.2	83.5	118	2.10	10	
Xylenes, Total	58.87	µg/L	2.0	96.8	83.4	122	1.12	13	
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R25409**	Analysis Date:		10/2/2007 8:14:55 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 9:00:15 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:	**R25409**	Analysis Date:		10/2/2007 8:15:26 PM
Benzene	20.25	µg/L	1.0	101	85.9	113			
Toluene	19.54	µg/L	1.0	97.3	86.4	113			
Ethylbenzene	19.60	µg/L	1.0	97.4	83.5	118			
Xylenes, Total	58.14	µg/L	2.0	96.2	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 11:00:56 AM
Benzene	20.65	µg/L	1.0	103	85.9	113			
Toluene	20.04	µg/L	1.0	99.8	86.4	113			
Ethylbenzene	20.04	µg/L	1.0	99.6	83.5	118			
Xylenes, Total	60.00	µg/L	2.0	99.5	83.4	122			
Sample ID: 0709406-01A MS		*MS*			Batch ID:	**R25409**	Analysis Date:		10/3/2007 3:15:09 AM
Benzene	21.10	µg/L	1.0	105	85.9	113			
Toluene	19.82	µg/L	1.0	98.8	86.4	113			
Ethylbenzene	19.73	µg/L	1.0	98.2	83.5	118			
Xylenes, Total	58.69	µg/L	2.0	97.4	83.4	122			
Sample ID: 0709406-20A MS		*MS*			Batch ID:	**R25420**	Analysis Date:		10/3/2007 7:35:52 PM
Benzene	20.70	µg/L	1.0	101	85.9	113			
Toluene	19.73	µg/L	1.0	97.2	86.4	113			
Ethylbenzene	19.53	µg/L	1.0	97.1	83.5	118			
Xylenes, Total	58.22	µg/L	2.0	95.7	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

QA/QC SUMMARY REPOR

Client: XTO Energy
Project: Ground Water **Work Order:** 0709406

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E160.1									
Sample ID: 0709406-08B MSD		*MSD*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	3202	mg/L	20	104	80	120	0.627	20	
Sample ID: MB-13963		*MBLK*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13963		*LCS*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	1001	mg/L	20	100	80	120			
Sample ID: 0709406-08B MS		*MS*			Batch ID: **13963**		Analysis Date:		10/1/2007
Total Dissolved Solids	3182	mg/L	20	102	80	120			

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: *07-Jan-08*

CLIENT: XTO Energy
Project: Carson Gascom 1E
Lab Order: 0801007

Lab ID: 0801007-01 **Collection Date:** 12/28/2007 9:50:00 AM
Client Sample ID: Carson GC1E MW-1 **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	1/4/2008 2:00:25 AM
Benzene	ND	1.0		µg/L	1	1/4/2008 2:00:25 AM
Toluene	ND	1.0		µg/L	1	1/4/2008 2:00:25 AM
Ethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:00:25 AM
Xylenes, Total	ND	2.0		µg/L	1	1/4/2008 2:00:25 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:00:25 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:00:25 AM
Surr: 4-Bromofluorobenzene	90.7	68.9-122		%REC	1	1/4/2008 2:00:25 AM

Lab ID: 0801007-02 **Collection Date:** 12/28/2007 10:20:00 AM
Client Sample ID: Carson GC1E MW-2 **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	1/4/2008 2:30:34 AM
Benzene	ND	1.0		µg/L	1	1/4/2008 2:30:34 AM
Toluene	ND	1.0		µg/L	1	1/4/2008 2:30:34 AM
Ethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:30:34 AM
Xylenes, Total	ND	2.0		µg/L	1	1/4/2008 2:30:34 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:30:34 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 2:30:34 AM
Surr: 4-Bromofluorobenzene	93.4	68.9-122		%REC	1	1/4/2008 2:30:34 AM

Lab ID: 0801007-03 **Collection Date:** 12/28/2007 10:54:00 AM
Client Sample ID: Carson GC1E MW-3 **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	1/4/2008 3:00:40 AM
Benzene	ND	1.0		µg/L	1	1/4/2008 3:00:40 AM
Toluene	ND	1.0		µg/L	1	1/4/2008 3:00:40 AM
Ethylbenzene	ND	1.0		µg/L	1	1/4/2008 3:00:40 AM
Xylenes, Total	ND	2.0		µg/L	1	1/4/2008 3:00:40 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 3:00:40 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/4/2008 3:00:40 AM
Surr: 4-Bromofluorobenzene	91.0	68.9-122		%REC	1	1/4/2008 3:00:40 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: Carson Gascom 1E **Work Order:** 0801007

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 0801007-03A MSD		*MSD*			Batch ID:	**R26788**	Analysis Date:		1/4/2008 4:00:40 AM
Methyl tert-butyl ether (MTBE)	20.30	µg/L	2.5	101	51.2	138	0.118	28	
Benzene	21.22	µg/L	1.0	106	85.9	113	1.17	27	
Toluene	21.14	µg/L	1.0	105	86.4	113	0.274	19	
Ethylbenzene	20.96	µg/L	1.0	105	83.5	118	0.855	10	
Xylenes, Total	63.54	µg/L	2.0	106	83.4	122	0.681	13	
1,2,4-Trimethylbenzene	20.65	µg/L	1.0	103	83.5	115	3.63	21	
1,3,5-Trimethylbenzene	20.21	µg/L	1.0	101	85.2	113	2.91	10	
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R26788**	Analysis Date:		1/3/2008 8:54:20 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:	**R26788**	Analysis Date:		1/4/2008 12:30:04 AM
Methyl tert-butyl ether (MTBE)	20.82	µg/L	2.5	104	51.2	138			
Benzene	21.28	µg/L	1.0	106	85.9	113			
Toluene	21.38	µg/L	1.0	106	86.4	113			
Ethylbenzene	21.39	µg/L	1.0	107	83.5	118			
Xylenes, Total	65.46	µg/L	2.0	109	83.4	122			
1,2,4-Trimethylbenzene	22.16	µg/L	1.0	110	83.5	115			
1,3,5-Trimethylbenzene	21.64	µg/L	1.0	108	85.2	113			
Sample ID: 0801007-03A MS		*MS*			Batch ID:	**R26788**	Analysis Date:		1/4/2008 3:30:40 AM
Methyl tert-butyl ether (MTBE)	20.32	µg/L	2.5	102	51.2	138			
Benzene	21.47	µg/L	1.0	107	85.9	113			
Toluene	21.20	µg/L	1.0	105	86.4	113			
Ethylbenzene	21.14	µg/L	1.0	106	83.5	118			
Xylenes, Total	63.97	µg/L	2.0	106	83.4	122			
1,2,4-Trimethylbenzene	21.42	µg/L	1.0	107	83.5	115			
1,3,5-Trimethylbenzene	20.81	µg/L	1.0	104	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	Spike recovery outside accepted recovery limits

VUL 3004525508

CLIENT: XTO

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

LOCATION NO: _____
COCR NO: HALL

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: CARSON GC WELL #: 1E TYPE: DEHY.
QUAD/UNIT: F SEC: 32 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1470'N / 1460'W SE/NW CONTRACTOR: HOI (HEBER)

DATE STARTED: 2/18/03
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 30 FT. x 30 FT. x 20 FT. DEEP. CUBIC YARDAGE: 400
DISPOSAL FACILITY: I.E.I. (GROUCH MESA) REMEDIATION METHOD: LANDFARM (?)
LAND USE: RANGE LEASE: FEE FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75 FT. S25W FROM WELLHEAD.
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <1000'
NMOCD RANKING SCORE: 30 NMOCD TPH CLOSURE STD: 100 PPM

OVM CALIB. READ. = 50.1 ppm CHECK
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 3:40 am/pm DATE: 2/23/04

SOIL AND EXCAVATION DESCRIPTION:

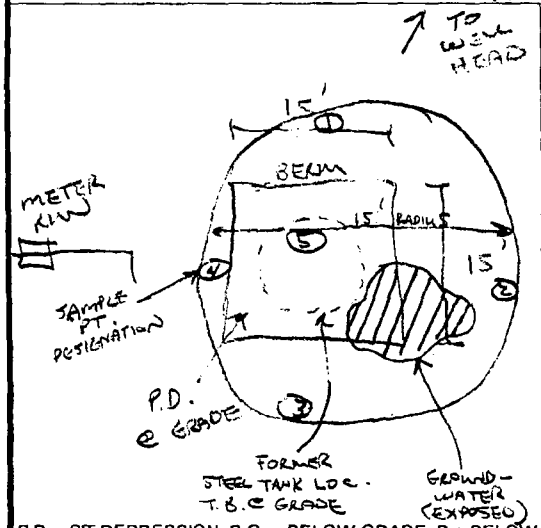
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: DK. YELL. ORANGE (0'-5') LT. GRAY TO BLACK (5'-20')
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE
~~PLASTICITY (CLAYS)~~: NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
~~DENSITY (COHESIVE CLAYS & SILTS)~~: SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - _____
HC ODOR DETECTED: YES NO EXPLANATION - _____
~~SAMPLE TYPE~~: GRAB / COMPOSITE - # OF PTS. —
ADDITIONAL COMMENTS: GROUNDWATER IMPACTED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE 0 FT

PIT PERIMETER



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 8'	147
2 @ 8'	29.9
3 @ 12'	60.1
4 @ 10'	253
5 @ 19'	232

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
④ @ 10'	TPH (8015B)	1535
"	BTEX (8021B)	"

PIT PROFILE

TRAVEL NOTES: CALLOUT: 2/18/04 - MORN. ONSITE: 2/18/04 - AFTER.

revised: 09/04/02 bei1005C.skf

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address	2. Destination Name:
XTO ENERGY INC 2700 FARMINGTON AVE. SUITE K FARMINGTON, NM 87401	J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): CARSON GC #1E attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): F-32-30-12
4. Source and Description of Waste DEHYDRATOR PIT FROM WELL SITE WASTE ~~SPECIFIED AS~~ PRODUCED WATER, GYLCOL BY PRODUCT (MOST LIKELY) NW	

I, NELSON VELEZ representative for :
Print Name

XTO ENERGY INC. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,1988, regulatory determination, the above described waste is: (Check appropriate classification) NV

X **EXEMPT** oilfield waste

~~X~~ **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non –hazardous waste defined above.

For **NON-EXEMPT** waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Nelson Velez

Title: STAFF GEOLOGIST

Date: 2/23/04

Hall Environmental Analysis Laboratory

Date: *01-Mar-04*

CLIENT:	Blagg Engineering	**Client Sample ID:**	4 @10'
Lab Order:	0402187	**Collection Date:**	2/23/2004 3:35:00 PM
Project:	Carson GC#1E		
Lab ID:	0402187-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	8.1	5.0		mg/Kg	1	2/28/2004 11:18:14 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/28/2004 11:18:14 AM
Surr: DNOP	102	60-124		%REC	1	2/28/2004 11:18:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	5.2	5.0		mg/Kg	1	2/26/2004 5:41:00 PM
Surr: BFB	107	74-118		%REC	1	2/26/2004 5:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	2/26/2004 5:41:00 PM
Toluene	ND	0.025		mg/Kg	1	2/26/2004 5:41:00 PM
Ethylbenzene	ND	0.025		mg/Kg	1	2/26/2004 5:41:00 PM
Xylenes, Total	0.034	0.025		mg/Kg	1	2/26/2004 5:41:00 PM
Surr: 4-Bromofluorobenzene	100	74-118		%REC	1	2/26/2004 5:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:
NELAC ☐ USACE ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENER. / XTO ENERGY
Project Name: CARSON GC #1E
Address: P.O. BOX 87
BLOOMFIELD, NM 87413
Project #: nv
Project Manager: NJV
Phone #: 505-632-1199
Sampler: NJV
Fax #: 505-632-3903
Sample Temperature: 2.0

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. 040218	(BTEX + MTBE + TMB's (8021B))	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
2/23/04	1535	SOIL	④ @ 10'	1-4oz.				1	✓		✓														

ANALYSIS REQUEST

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	Remarks:
2/24/04	0700	Nelson VM	Gonzales 02/24/04 1631	
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Hall Environmental Analysis Laboratory

Date: *01-Mar-04*

CLIENT: Blagg Engineering
Work Order: 0402187
Project: Carson GC#1E

QC SUMMARY REPORT
Method Blank

Sample ID **MB-5303**	Batch ID: **5303**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **2/28/2004 9:47:23 AM**	Prep Date **2/27/2004**
Client ID:		Run ID: **FID(17A) 2_040228A**		SeqNo: **255398**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	5.0									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10.79	0	10	0	108	60	124	0			

Sample ID **MB-5284**	Batch ID: **5284**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **2/26/2004 9:38:17 AM**	Prep Date **2/25/2004**
Client ID:		Run ID: **PIDFID_040226A**		SeqNo: **254818**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	938.5	0	1000	0	93.9	74	118	0			

Sample ID **MB-5284**	Batch ID: **5284**	Test Code: **SW8021**	Units: **mg/Kg**	Analysis Date **2/26/2004 9:38:17 AM**	Prep Date **2/25/2004**
Client ID:		Run ID: **PIDFID_040226A**		SeqNo: **254784**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.025									
Toluene	ND	0.025									
Ethylbenzene	ND	0.025									
Xylenes, Total	ND	0.025									
Surr: 4-Bromofluorobenzene	0.956	0	1	0	95.6	74	118	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

J

Hall Environmental Analysis Laboratory

Date: *01-Mar-04*

CLIENT: Blagg Engineering
Work Order: 0402187
Project: Carson GC#1E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **LCS-5303**	Batch ID: **5303**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **2/28/2004 10:17:31 AM**	Prep Date **2/27/2004**
Client ID:		Run ID: **FID(17A) 2_040228A**		SeqNo: **255399**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50.07	5.0	50	0	100	67.4	117	0			

Sample ID **LCSD-5303**	Batch ID: **5303**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **2/28/2004 10:48:02 AM**	Prep Date **2/27/2004**
Client ID:		Run ID: **FID(17A) 2_040228A**		SeqNo: **255400**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41.88	5.0	50	0	83.8	67.4	117	50.07	17.8	17.4	R

Sample ID **GRO STD 2.5ug**	Batch ID: **5284**	Test Code: **SW8015**	Units: **mg/Kg**	Analysis Date **2/26/2004 2:39:31 PM**	Prep Date
Client ID:		Run ID: **PIDFID_040226A**		SeqNo: **254820**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23.6	5.0	25	0	94.4	85.8	111	0			

Sample ID **BTEX STD 100ng**	Batch ID: **5284**	Test Code: **SW8021**	Units: **mg/Kg**	Analysis Date **2/26/2004 3:09:48 PM**	Prep Date
Client ID:		Run ID: **PIDFID_040226A**		SeqNo: **254799**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.034	0.025	1	0	103	77	122	0			
Toluene	1.034	0.025	1	0	103	81	115	0			
Ethylbenzene	1.03	0.025	1	0	103	84	117	0			
Xylenes, Total	3.077	0.025	3	0	103	84	116	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received:

Work Order Number 0402187 | Received by AMG

Checklist completed by A Gonzales 02/24/04
Signature | Date

Matrix | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **2°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____