

3 RP-416

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Annual Groundwater
Remediation Reports
For Year 2008

April 2009



RECEIVED

2009 APR 15 AM 10 53

April 13, 2009

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) herein submits the Annual Groundwater Remediation Reports for year 2008, in accordance with the New Mexico Oil Conservation Division (NMOCD) approved Groundwater Management Plan (GMP). Enclosed are summary reports with analytical data, summary tables, site maps, topographic maps, potentiometric surface diagrams and recommendations/proposed actions for:

- Bruington Gas Com #1- 3RP106
- EJ Johnson C #1E- 3RP385
- Federal Gas Com #H1- 3RP110
- Frost, Jack B #2- 3RP416
- McCoy GC D #1E- 3RP414
- OH Randel #7- 3RP386
- PO Pipken #3E- 3RP409
- Rowland Gas Com #1- 3RP124
- Valdez A #1E- 3RP134

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

- Carson Gas Com #1E- 3RP315
- Snyder Gas Com #1A- 3RP126
- Sullivan Gas Com D #1- 3RP131

In previously submitted reports, fifteen sites met the closure requirements outlined in the GMP and XTO requested closure of those sites in 2006, 2007 and 2008. The reports for the below listed sites are being submitted again for your review.

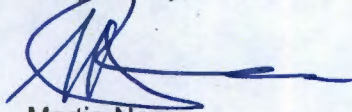
Mr. Glen VonGonten
XTO Annual Groundwater Reports

2

- Abrams J #1- 3RP100
- Armenta Gas Com C #1E- 3RP394
- Baca Gas Com A #1A- 3RP104
- Bergin Gas Com #1E- 3RP105
- Garcia Gas Com B #1- 3RP111
- Haney Gas Com B #1E- 3RP113
- Hare Gas Com B #1- 3RP413
- Hare Gas Com B #1E- 3RP384
- Hare Gas Com I #1- 3RP412
- Masden Gas Com #1E- 3RP120
- McDaniel Gas Com B #1E- 3RP121
- Romero Gas Com A #1- 3RP123
- State Gas Com BS #1- 3RP127
- Stedje Gas Com #1- 3RP128
- Sullivan Frame A #1E- 3RP130

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

Respectfully,



Martin Nee
EH & S Manager
San Juan Division

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

Frost, Jack B #2-
3RP416

XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2008

JACK FROST B #2

3RP-416

**(D) SECTION 27 – T27N – R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

PREPARED FOR:

MR. GLENN VON GONTEN

NEW MEXICO OIL CONSERVATION DIVISION

April 2009

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Attachment 2:	2008 Laboratory Reports

2008 XTO GROUNDWATER REPORT

FROST, JACK B #2 3RP-416

SITE DETAILS

LEGALS - TWN: 27N
OCD HAZARD RANKING: 30
LATITUDE: 36.55081

RNG: 10W

SEC: 27
LAND TYPE: FEDERAL
LONGITUDE: 107.88783

UNIT: D

INTRODUCTION

XTO Energy Inc. (XTO) acquired the Jack Frost B #2 well site from Amoco Production Company in January 1998. This is a gas producing well in the Basin Dakota and Angel Peak Gallup formations and is currently active. A site map and topographic map are presented as Figures 1 and 2.

HISTORY

XTO has learned that in August 1994 Amoco encountered groundwater during the closure excavation of an abandoned separator pit (Attachment 1). Approximately 400 cubic yards of impacted soil was removed and groundwater was encountered at a depth of 15 feet. The initial assessment of groundwater impact came from samples collected from groundwater pooling in the bottom of the excavated pit. The analytical results of the initial samples indicated elevated levels of benzene. A pit closure was submitted to the New Mexico Oil Conservation Division (OCD). OCD denied closure of the separator pit in December 1996 requesting further investigation. Three groundwater monitoring wells were installed in September 1999. Bore/Test Hole Reports are presented as Figures 3-5 representing drilling that occurred on site in September 1999. Groundwater samples were collected for laboratory analysis in September 1999 and again in February and June 2000. Groundwater collected for analysis from monitoring wells MW-1 and MW-3 exhibited elevated levels of benzene in 1999 while MW-2 exhibited benzene, toluene, ethyl benzene, and total xylenes (BTEX) concentrations that exceeded New Mexico Water Quality Control Commission (WQCC) standards. Up gradient monitoring well MW-1 and down gradient monitoring well MW-3 exhibited no detectable concentrations of BTEX constituents during the 2000 sampling events. Sampling was discontinued for an unknown reason in 2000. In May 2001 a request for closure was submitted to OCD. The request was denied pending submittal of four consecutive quarters of sample analyses and further down gradient delineation of groundwater quality.

XTO submitted the first annual groundwater report to the OCD in April 2006 for year 2005. In order to comply with the 2001 correspondence from OCD, installation of an additional groundwater monitoring well to further delineate groundwater conditions and placing the monitoring wells on a quarterly sampling schedule was recommended.

Monitoring well MW-2 was repaired (MW-2R) due to damage and MW-4 was installed down gradient of the estimated source area in August 2006. Figures 6-7 are presented for the monitoring wells installed during 2006. Monitoring well MW-4 has been sampled quarterly since installation. Groundwater analyses from MW-4 show a consistent decrease in BTEX constituents and currently exhibits benzene concentrations that no longer exceed WQCC standards.

2008 XTO GROUNDWATER REPORT

The 2006 annual groundwater report was submitted to the OCD in February 2007, proposing continued quarterly sampling of the groundwater monitoring wells, in accordance with the OCD approved Groundwater Management Plan.

The 2007 annual groundwater report was submitted to the OCD in February 2008, proposing terminating quarterly sampling of groundwater monitoring wells MW-1, MW-2R and MW-3 along with continued quarterly sampling of MW-4 until analytical results show hydrocarbon constituents are below WQCC groundwater standards for four (4) consecutive quarters.

A summary of laboratory results from historical and current groundwater monitoring is presented as Table 1. A summary of general water quality data from 1999 is presented as Table 2. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2008 are presented as Attachment 2.

METHODOLOGY

Quarterly groundwater samples were collected from monitoring well MW-4 during 2008.

Water Level Measurements

Static groundwater level monitoring includes recording depth to groundwater measurements with a Keck oil/water interface probe. The interface probe is decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. These data are recorded as Depth to Water (DTW) and Total Depth (TD) in feet on Table 1.

Groundwater Sampling

Prior to sampling at monitoring wells, depth to groundwater and total depth of wells is measured with a Keck oil/water interface probe. Presence of any free-phase crude oil is also investigated using the interface probe. The interface probe is decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. The volume of water in the wells is calculated, and a minimum of three casing volumes of water is purged from each well using a disposable bailer or a permanent decontaminated PVC bailer. As water is extracted, pH, electric conductivity and temperature are monitored. Wells are purged until these properties stabilize, indicating that the purge water is representative of aquifer conditions. Stabilization is defined as three consecutive stable readings for each water property (± 0.4 units for pH, ± 10 percent for electric conductivity and $\pm 2^\circ$ C for temperature). All purge water is disposed of into tanks on site.

Once each monitoring well is properly purged, groundwater samples are collected by filling at least two 40-milliliter (ml) glass vials. The pre-cleaned and pre-preserved (with hydrochloric acid or mercuric chloride) vials are filled and capped with no air inside to prevent degradation of the sample. Samples are labeled with the date and time of collection, well designation, project name, collector's name and parameters to be analyzed. They are immediately sealed and packed on ice. The samples are shipped to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico in a sealed cooler via bus before designated holding times expire. Proper chain-of-custody (COC) procedures are followed with logs documenting the date and time sampled, sample number, type of sample, sampler's name, preservative used, analyses required and sampler's signature.

2008 XTO GROUNDWATER REPORT

Groundwater Contour Maps

Top of casing well elevations are surveyed using a surveyor's level; and groundwater elevations obtained from monitoring wells during site visits are used to draft groundwater contour maps. Contours are inferred based on groundwater elevations obtained and observation of physical characteristics at the site (topography, proximity to irrigation ditches, etc.).

RESULTS

Laboratory analytical results from MW-4 have been below standards for BTEX for three consecutive quarters. All laboratory analytical results are presented in Table 1. Laboratory reports are presented as Attachment 2.

Field data collected during site monitoring activities indicate a groundwater gradient that trends towards the west with a slight southwest component, following surface contours and the general flow of the arroyo. In March the gradient shifted to the south so that groundwater was flowing towards the adjacent wash rather than the same direction as the wash. The gradient increased slightly at this time also. Figures 8-11 illustrate the estimated groundwater gradients for 2008.

CONCLUSIONS

Groundwater analysis from MW-4 shows a consistent decrease in BTEX constituents and currently exhibits benzene concentrations that no longer exceed WQCC standards.

RECOMMENDATIONS

Quarterly sampling will continue at MW-4 until four (4) consecutive quarters have been analyzed for BTEX constituents and indicate groundwater is below WQCC standards.

Following OCD approval for closure, all monitoring well locations will be abandoned in accordance with the monitoring well abandonment plan.

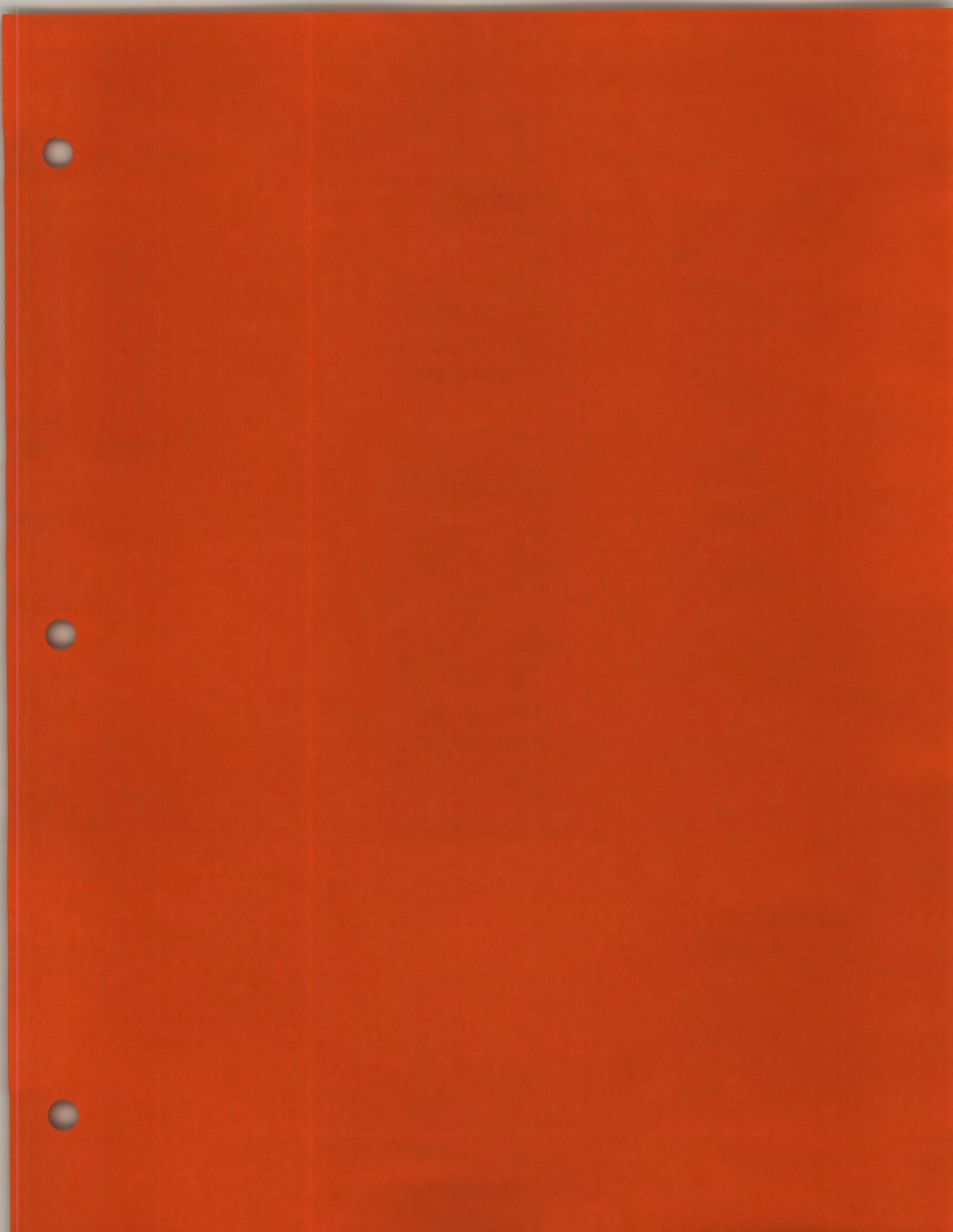


TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

**FROST, JACK B #2- SEPARATOR PIT
UNIT D, SEC. 27, T27N, R10W**

Sample Date	Monitor Well No.	DTW (ft)	TD (ft)	Product (ft)	BTEX EPA Method 801 (PPB)			
					Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
27-Sep-99	MW #1	8.73	20		24.9	4	ND	6.3
18-Feb-00		9.26			ND	ND	ND	ND
20-Jun-00		9.28			ND	ND	ND	ND
20-Jun-06		10.24	20.44		ND	ND	ND	ND
20-Sep-06		10.34	20.4		ND	ND	ND	ND
5-Dec-06		9.74	20.4		ND	ND	ND	ND
8-Mar-07		9.56	20.4		ND	ND	ND	ND
12-Jun-07		9.5	20.4		ND	ND	ND	ND
28-Sep-07		9.78	20.4		ND	ND	ND	ND
20-Dec-07		10.11	20.4		NS			
27-Sep-99	MW #2	11.71	20		350	60.1	90.5	253.9
18-Feb-00		11.87			0.9	ND	2.6	3.9
20-Jun-00		11.38			0.5	ND	1.6	3.5
20-Jun-06		MONITORING WELL NOT FOUND						
20-Sep-06	MW #2R	13.44	22.44		ND	ND	1	3.7
5-Dec-06		13.33	22.44		ND	ND	ND	ND
8-Mar-07		13.91	22.44		ND	ND	ND	ND
12-Jun-07		12.52	22.44		ND	ND	ND	2.4
28-Sep-07		12.78	22.44		ND	ND	ND	2.1
20-Dec-07		13.02	22.44		NS			
27-Sep-99	MW #3	13.76	20		21.2	3.1	3.1	15.1
18-Feb-00		12.87			ND	ND	ND	ND
20-Jun-00		12.42			ND	ND	ND	ND
20-Jun-06		13.29	20.41		ND	ND	ND	ND
20-Sep-06		13.34	20.4		ND	ND	ND	ND
5-Dec-06		13.4	20.4		ND	ND	ND	ND
8-Mar-07		12.63	20.4		ND	ND	ND	ND
12-Jun-07		12.41	20.4		ND	ND	ND	ND
28-Sep-07		12.54	20.4		ND	ND	ND	ND
20-Dec-07		12.7	20.4		NS			
20-Sep-06	MW #4	13.24	22.62		46	240	53	640
5-Dec-06		13.22	22.62		73	6.4	62	130
8-Mar-07		12.84	22.62		17	ND	18	14
12-Jun-07		12.43	22.62		16	ND	11	3
28-Sep-07		12.54	22.62		11	ND	5.9	ND
20-Dec-07		12.72	22.62		29	ND	4.4	ND
13-Mar-08		12.5	22.62		17	ND	ND	ND
3-Jun-08		12.4	22.62		9.7	ND	ND	2.4
22-Sep-08		12.64	22.62		3.1	ND	ND	ND
4-Dec-08		12.9	22.62		1.7	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

TABLE 2

XTO ENERGY INC. GROUNDWATER LAB RESULTS

**FROST, JACK B #2- SEPARATOR PIT
UNIT D, SEC. 27, T27N, R10W**

Sample Date: September 27, 1999

PARAMETERS	MW #1	MW #2	MW #3	UNITS
LAB Ph	7.85	7.98	7.8	s.u.
LAB CONDUCTIVITY @ 25 C	6,810	1,876	4,180	umhos/cm
TOTAL DISSOLVED SOLIDS @ 180 C	3,400	915	2,080	mg/L
TOTAL DISSOLVED SOLIDS (Calc)	3,370	710	1,980	mg/L
SODIUM ABSORPTION RATIO	48.9	10.5	39.2	ratio
TOTAL ALKALINITY AS CaCO3	638	316	524	mg/L
TOTAL HARDNESS AS CaCO3	94	78	52	mg/L
BICARBONATE AS HCO3	638	316	524	mg/L
CARBONATE AS CO3	< 1	< 1	< 1	mg/L
HYDROXIDE AS OH	< 1	< 1	< 1	mg/L
NITRATE NITROGEN	0.1	1	0.5	mg/L
NITRITE NITROGEN	0.004	0.300	0.021	mg/L
CHLORIDE	5	2	4.5	mg/L
FLUORIDE	1.96	1.21	4.4	mg/L
PHOSPHATE	0.9	6.5	1	mg/L
SULFATE	1,850	260	983	mg/L
IRON	0.007	0.288	0.042	mg/L
CALCIUM	28.8	25.6	18.4	mg/L
MAGNESIUM	5.4	3.4	1.5	mg/L
POTASSIUM	3.0	3.0	3.0	mg/L
SODIUM	1,090	214	650	mg/L
CATION/ANION DIFFERENCE	0.25	0.02	0.2	%

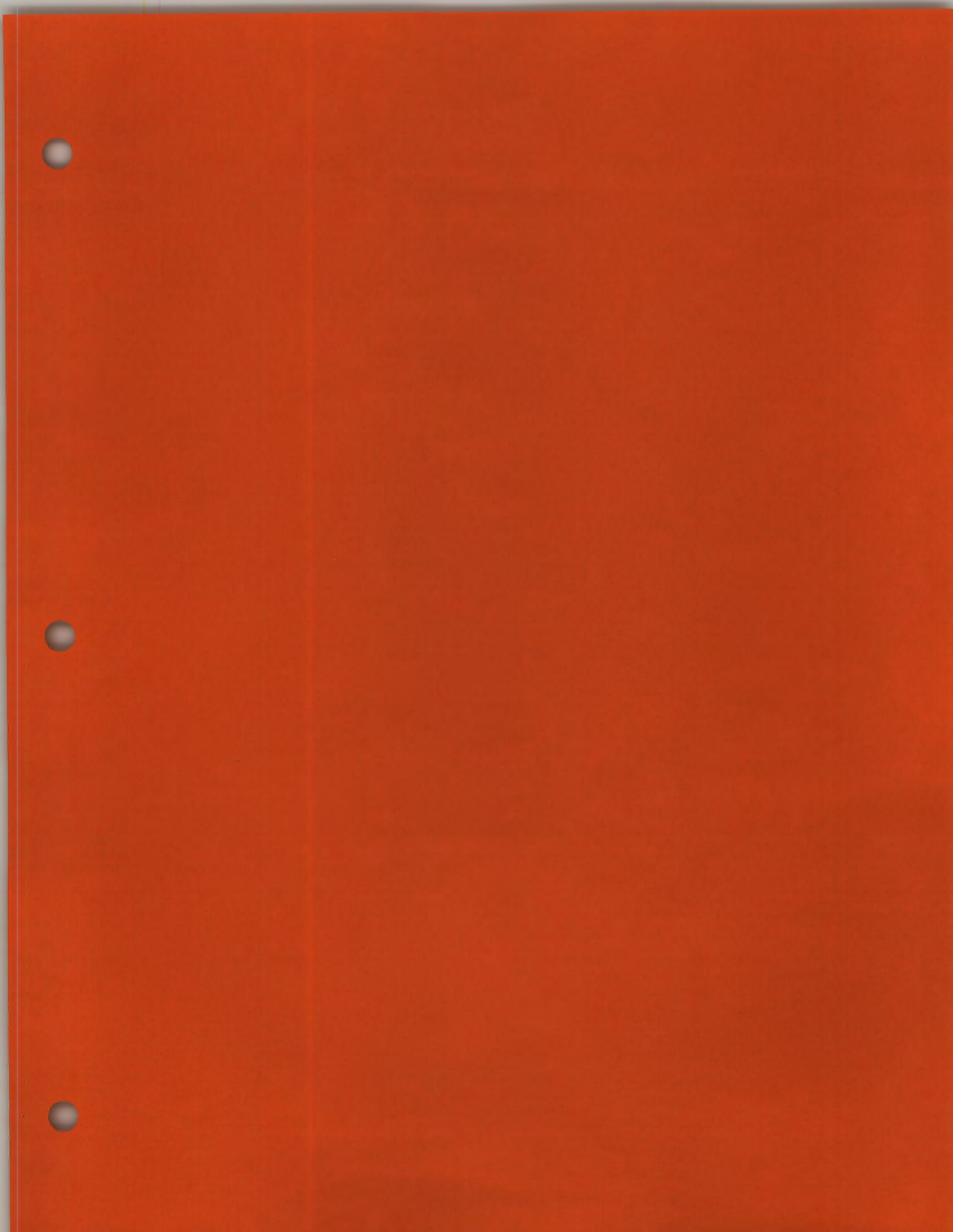
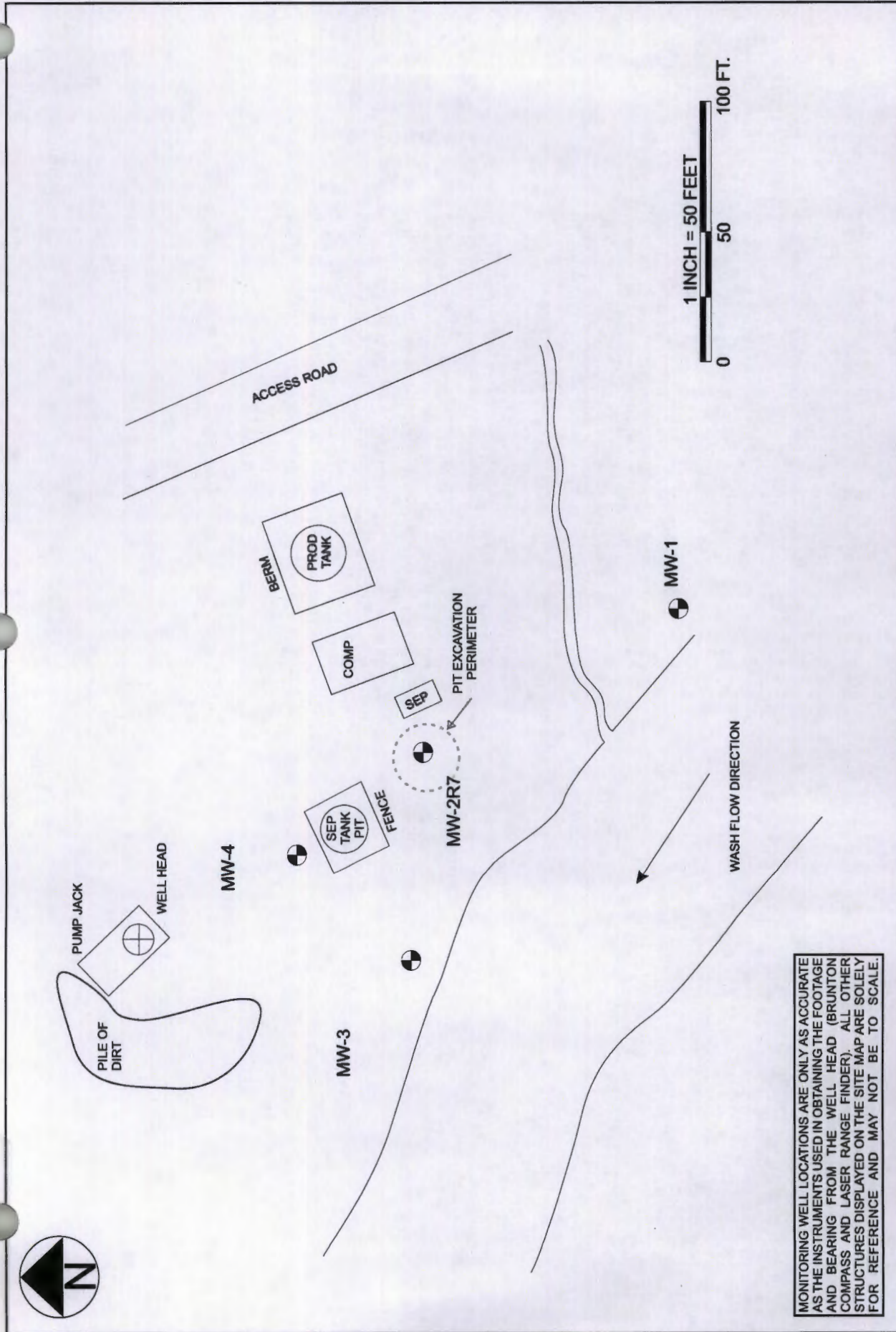


FIGURE 1



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.

<p>Lodestar Services, Inc PO Box 3861 Farmington, NM 87499</p>	<p>JACK FROST B #2 NW/4 NW/4 SEC. 27, T27N, R10W SAN JUAN COUNTY, NEW MEXICO</p>	<p>PROJECT: XTO GROUND WATER DRAWN BY: ALA REVISED: 01/24/2007</p>	<p>SITEMAP</p>
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FIGURE 2



TN MN
10%

0 1000 FEET 0 500 1000 METERS
MILE

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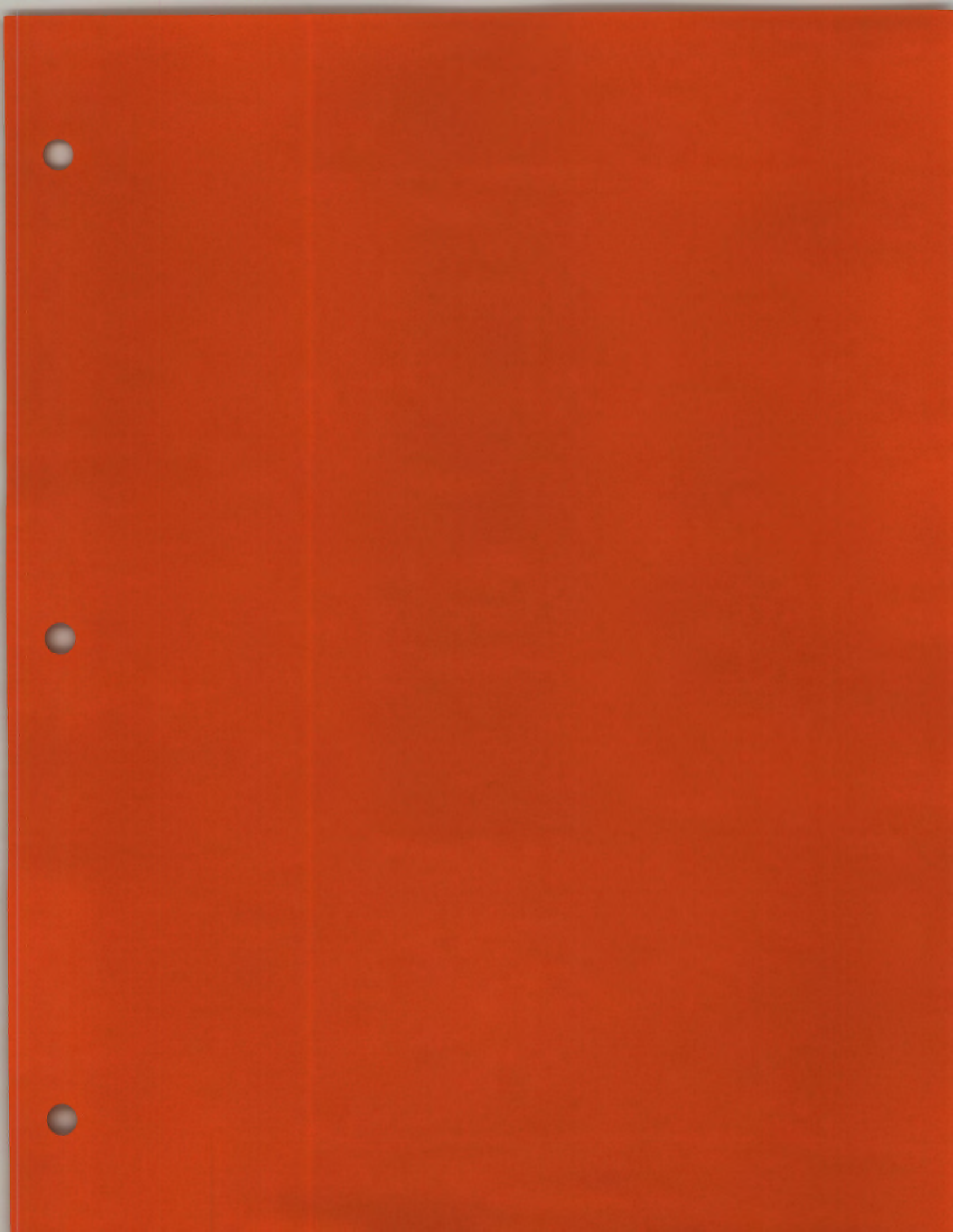


FIGURE 3

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 9/21/99
DATE FINISHED 9/21/99
OPERATOR..... REP
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: FROST, JACK B #2
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (EARTHPROBE)
BORING LOCATION: 273 FT., S33E FEET FROM WELL HEAD.

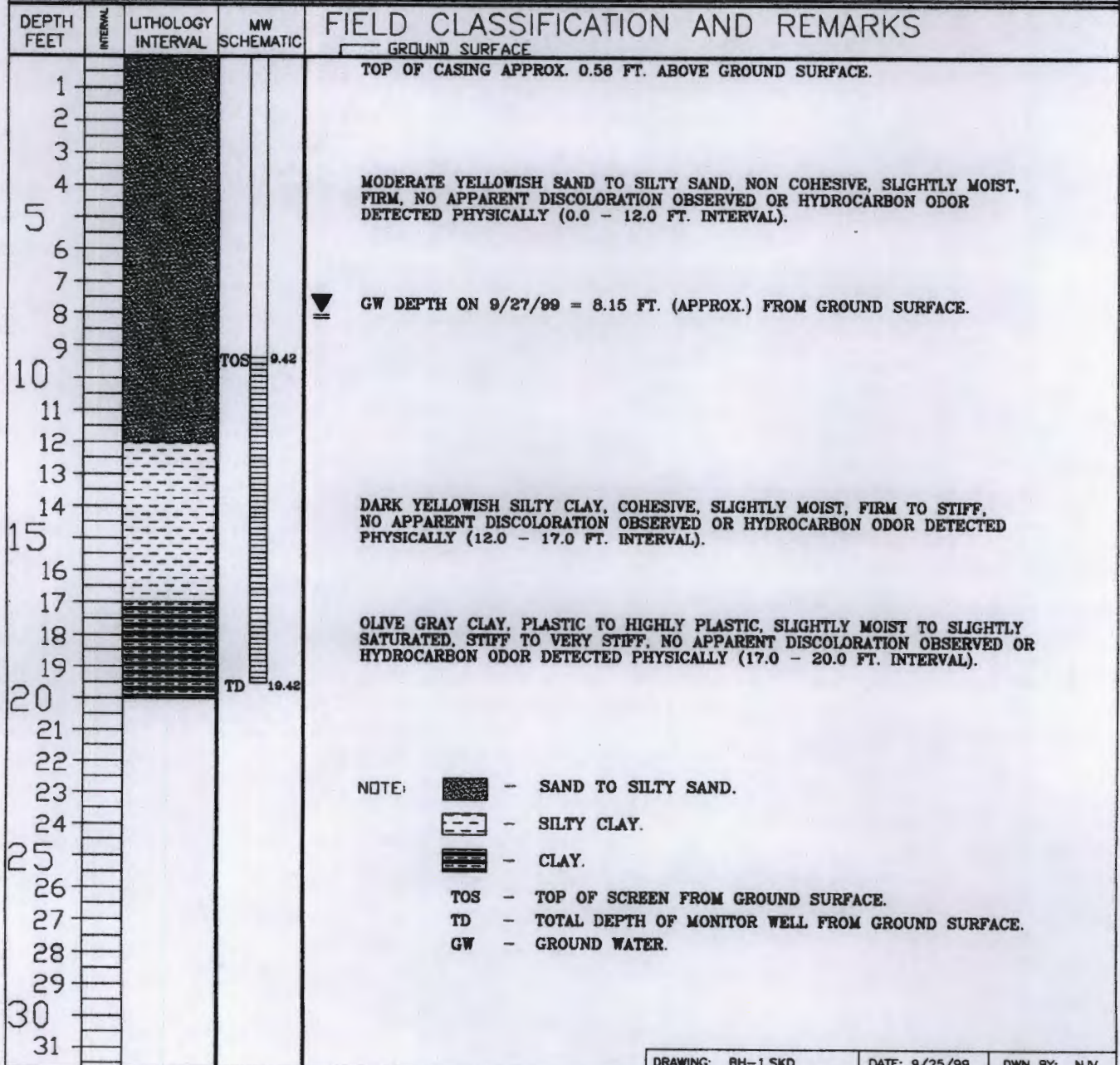


FIGURE 4

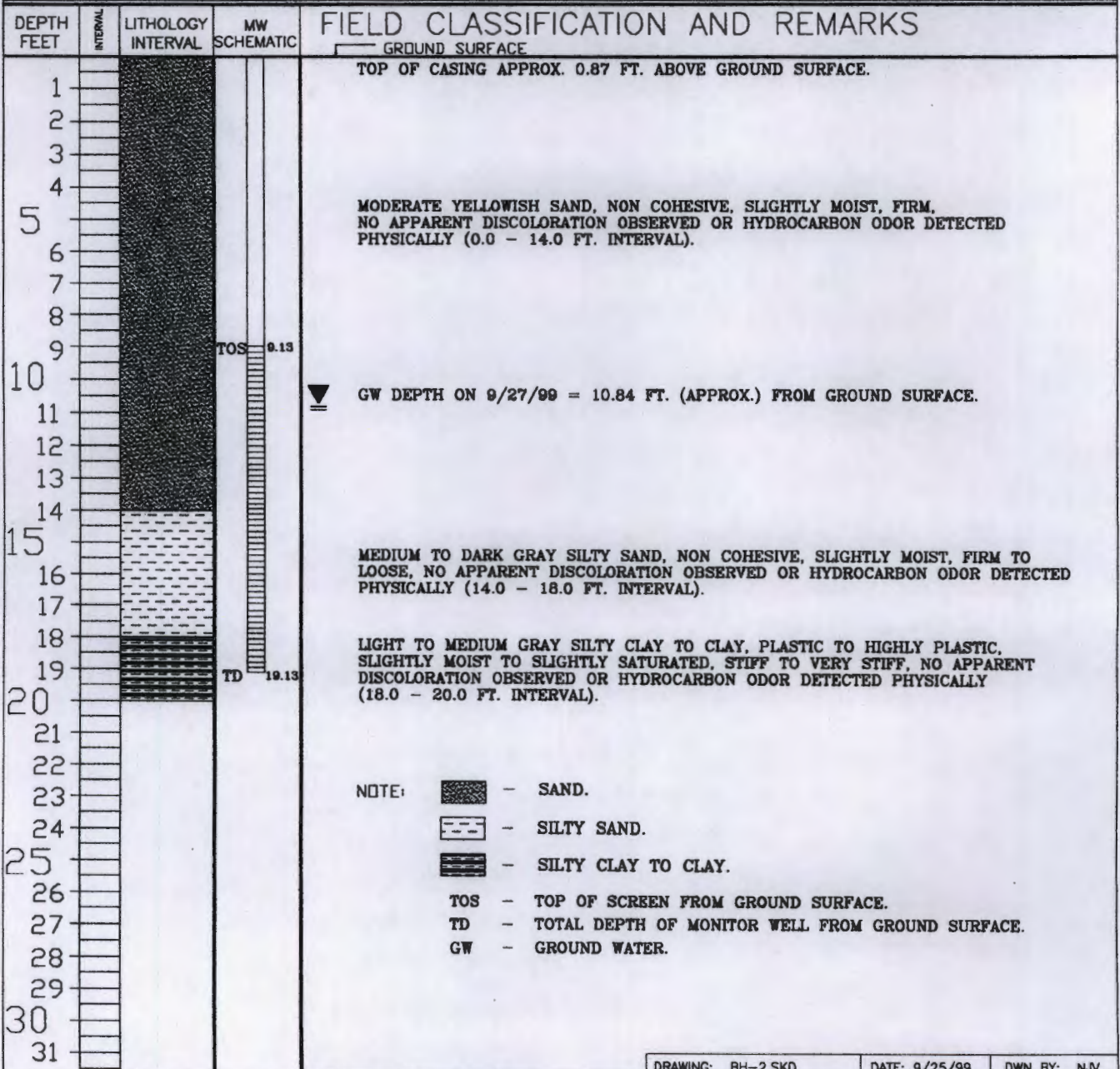
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING #..... BH - 2
MW #..... 2
PAGE #..... 2
DATE STARTED 9/21/99
DATE FINISHED 9/21/99
OPERATOR..... REP
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: FROST, JACK B #2
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (EARTHPROBE)
BORING LOCATION: 156 FT., S35E FEET FROM WELL HEAD.



- NOTE:
- SAND.
 - SILTY SAND.
 - SILTY CLAY TO CLAY.
 - TOS - TOP OF SCREEN FROM GROUND SURFACE.
 - TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.
 - GW - GROUND WATER.

FIGURE 5

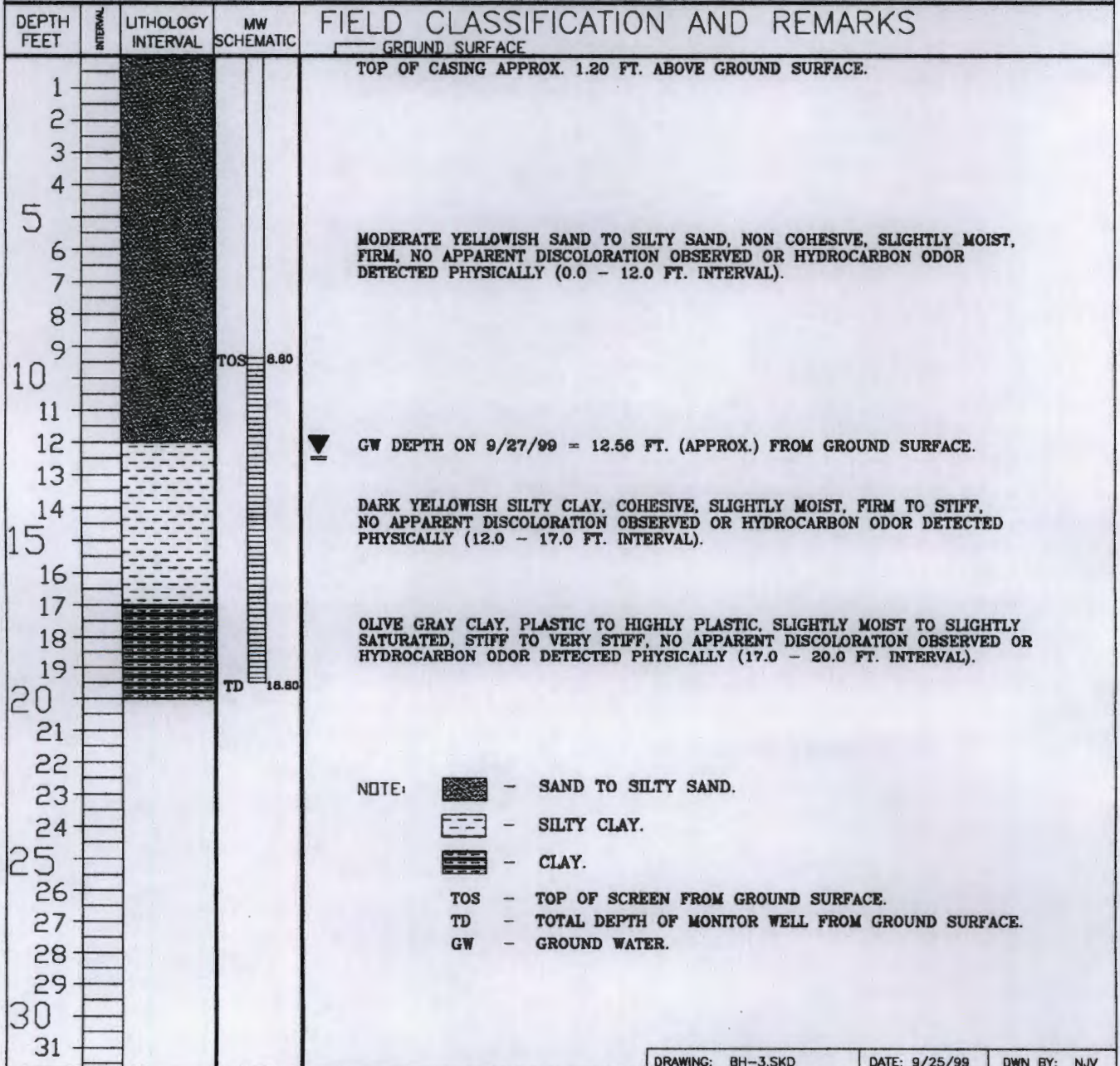
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING #..... BH - 3
MW #..... 3
PAGE #..... 3
DATE STARTED 9/21/99
DATE FINISHED 9/21/99
OPERATOR..... REP
PREPARED BY NJV

CLIENT: XTO ENERGY INC.
LOCATION NAME: FROST, JACK B #2
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: MOBILE DRILL RIG (EARTHPROBE)
BORING LOCATION: 120 FT., S1E FEET FROM WELL HEAD.



RECORD OF SUBSURFACE EXPLORATION

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

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

Project Number: _____
 Project Name: XTO Ground Water
 Project Location: Jack Frost B #2

Borehole Location: 36° 33.041' N, 107° 53.289' W
 GWL Depth: 13'
 Drilled By: Envirotech
 Well Logged By: Ashley Ager
 Date Started: 08/31/06
 Date Completed: 08/31/06

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
		0-1.5	cuttings	Tan, poorly sorted coarse sand and gravel (<10? Gravel), angular and dry (Fill)	0	Easy and fast
		1.5-15.5	cuttings	Brown, poorly sorted coarse sand, no gravel, angular, varying mineralogies, damp and unconsolidated	0	Easy and fast
		15.5-20	cuttings	Gray, poorly sorted coarse sand, angular, varying mineralogy, wet and unconsolidated	5.8	Easy and fast
				13' = wet sand		

Comments: Very easy well to install.

Geologist Signature: Ashley L. Ager

FIGURE 7

RECORD OF SUBSURFACE EXPLORATION

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

Borehole #: 1
Well #: MW-4
Page: 1 of 1

Project Number: _____
Project Name: XTO Ground Water
Project Location: Jack Frost B #2

Borehole Location: 36° 33.044' N, 107° 53.297' W
GWL Depth: 18'
Drilled By: Envirotech
Well Logged By: Ashley Ager
Date Started: 08/31/06
Date Completed: 08/31/06

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
		0-0.5	cuttings	Tan, poorly sorted coarse sand and gravel (<10%), angular and dry (Fill)	0	Easy
		0.5-13.5	cuttings	Brown, poorly sorted coarse sand, damp, subangular, <1% gravel content	0	Easy
		13.5-17	cuttings	Gray, silty sand, very coarse, angular, wet, poorly sorted	2.9	Easy
		17-19	cuttings	Brown, poorly sorted coarse sand, wet, subangular, no gravel	0	Easy
		19-22	cuttings	Brown, poorly sorted coarse sand with cobbles (<5%)	0	Hard and slow

Comments: _____

Geologist Signature: Ashley L. Ager

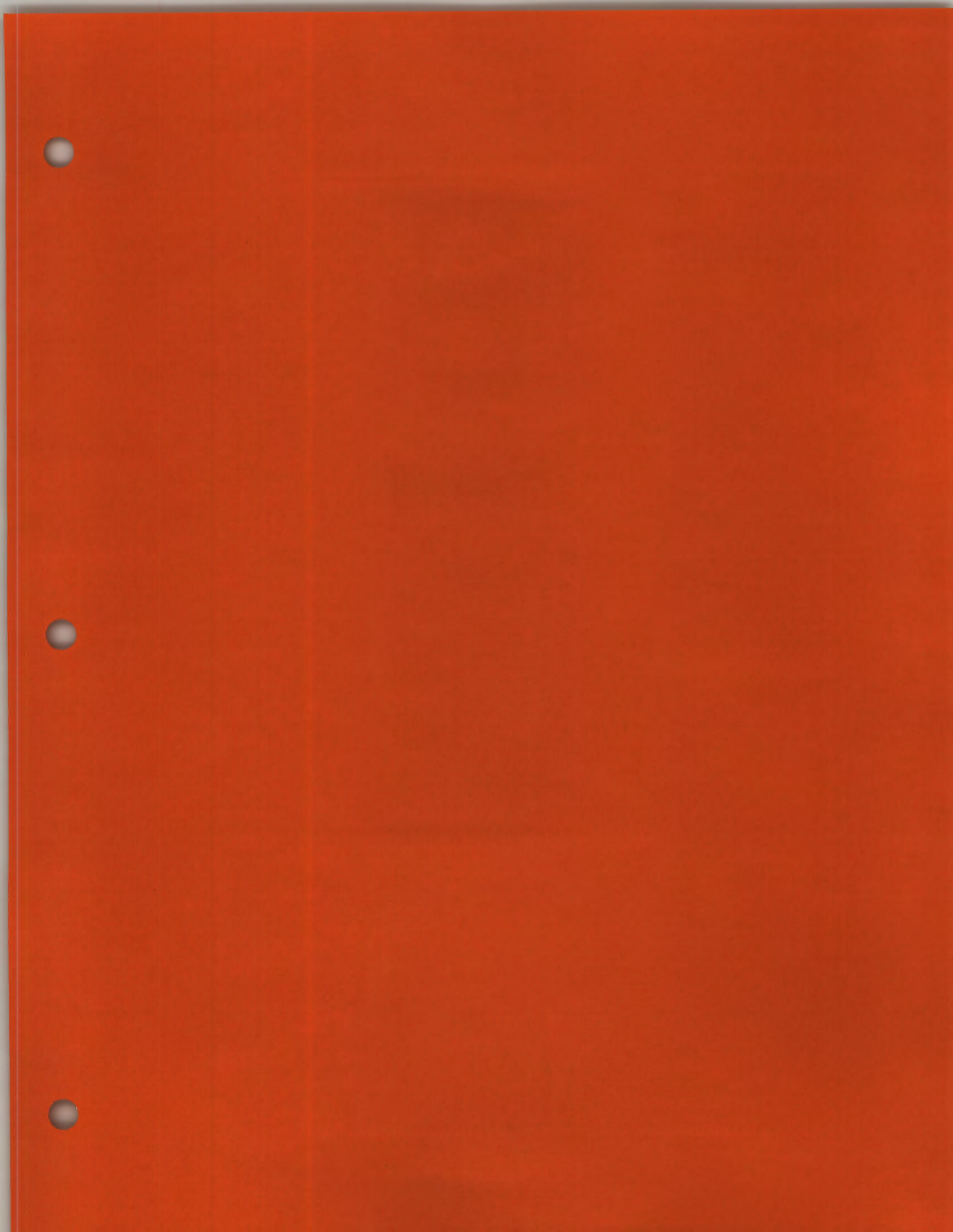
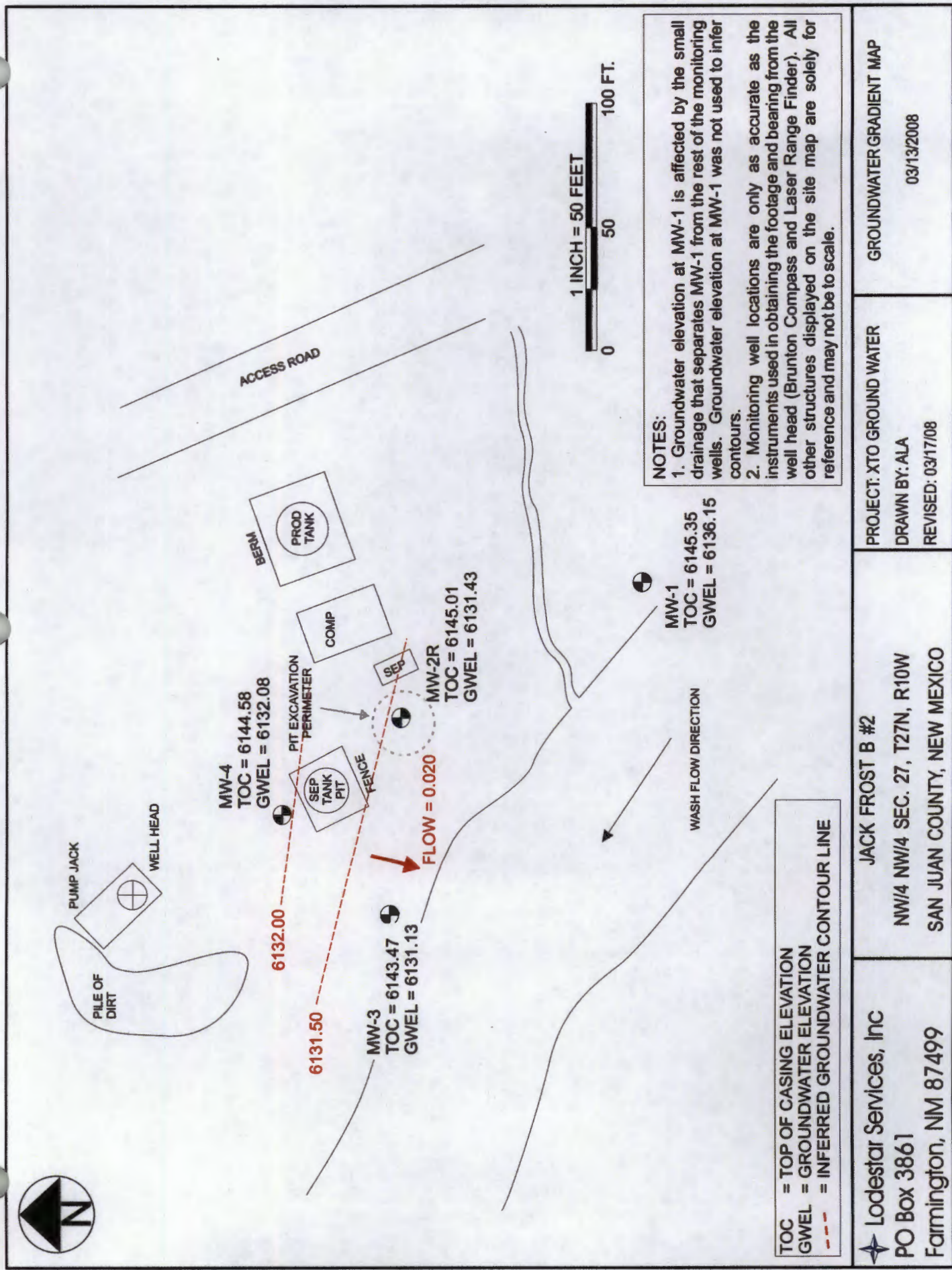


FIGURE 8



NOTES:
 1. Groundwater elevation at MW-1 is affected by the small drainage that separates MW-1 from the rest of the monitoring wells. Groundwater elevation at MW-1 was not used to infer contours.
 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

JACK FROST B #2
 NW/4 NW/4 SEC. 27, T27N, R10W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ALA
 REVISED: 03/17/08

GROUNDWATER GRADIENT MAP
 03/13/2008

FIGURE 9

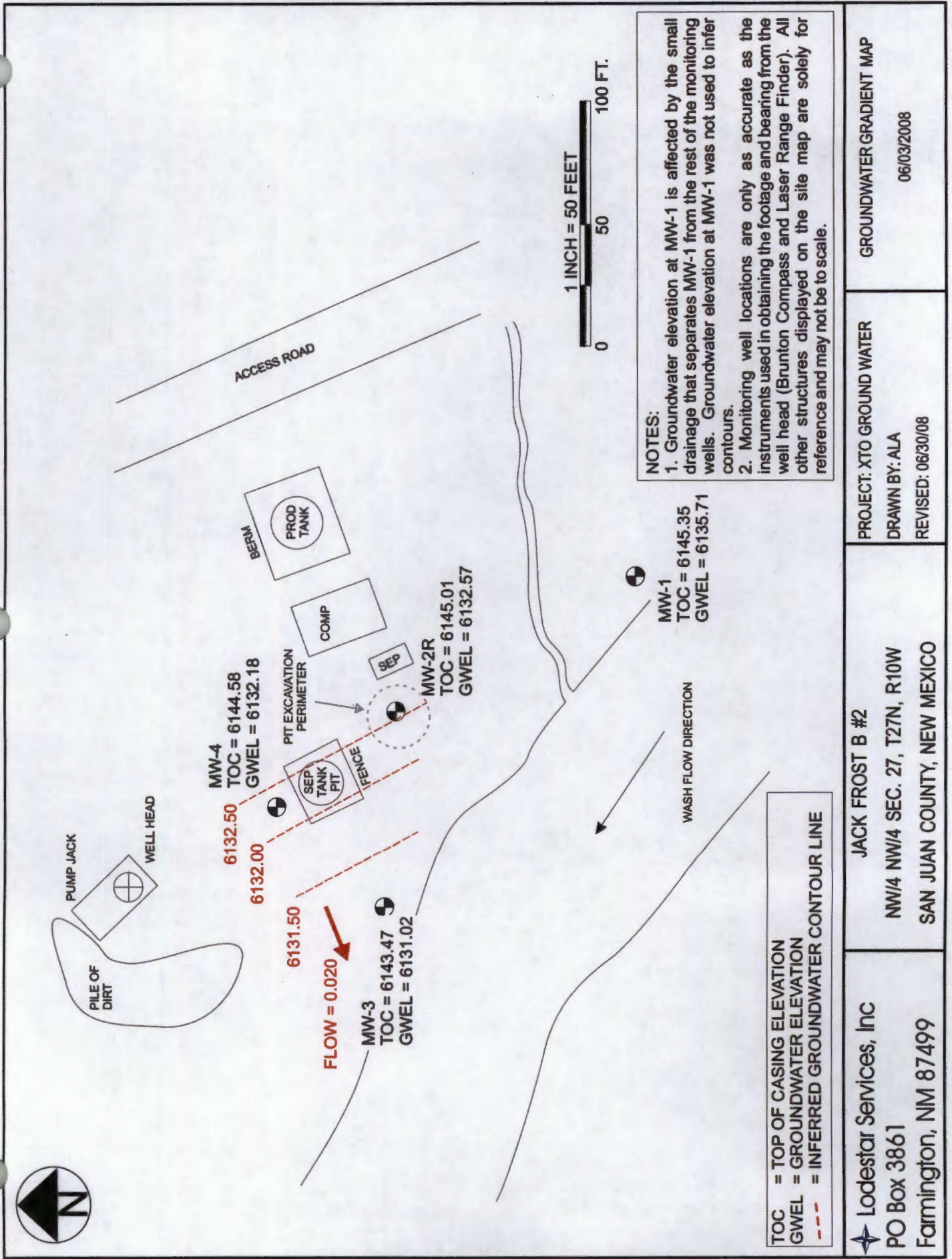
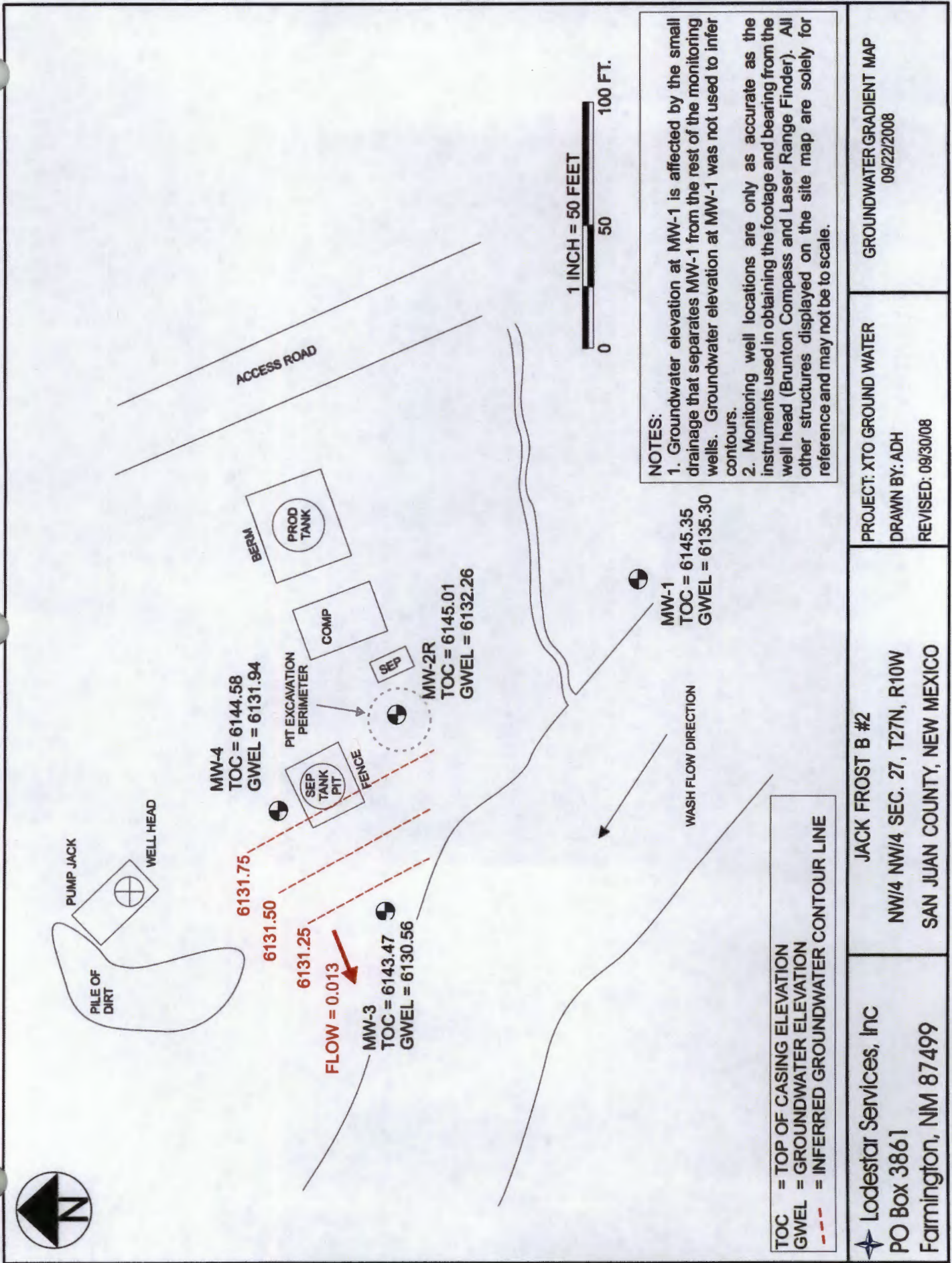


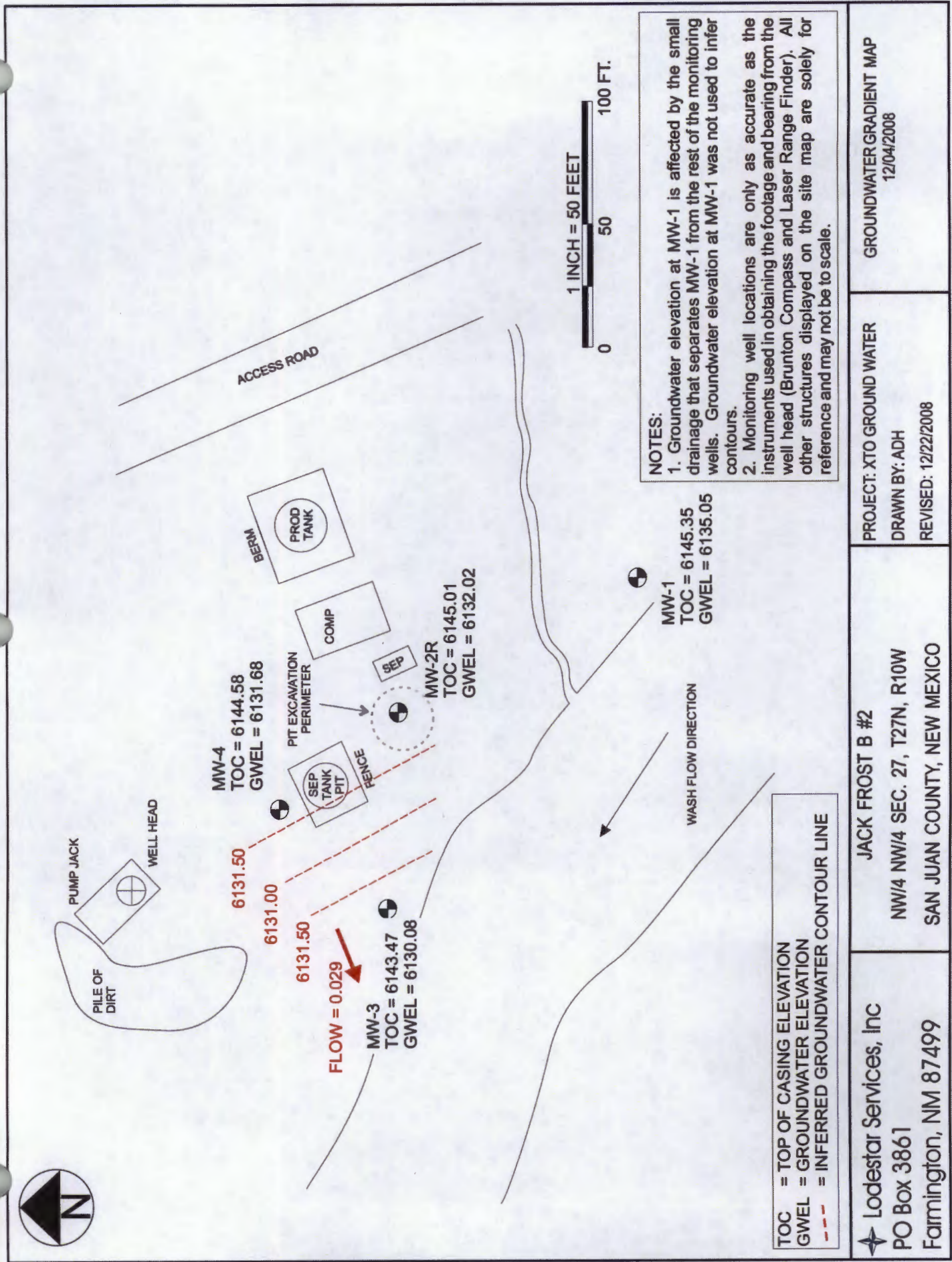
FIGURE 10



NOTES:
 1. Groundwater elevation at MW-1 is affected by the small drainage that separates MW-1 from the rest of the monitoring wells. Groundwater elevation at MW-1 was not used to infer contours.
 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.

<p>Lodestar Services, Inc PO Box 3861 Farmington, NM 87499</p>	<p>JACK FROST B #2 NW/4 NW/4 SEC. 27, T27N, R10W SAN JUAN COUNTY, NEW MEXICO</p>	<p>PROJECT: XTO GROUND WATER DRAWN BY: ADH REVISED: 09/30/08</p>	<p>GROUNDWATER GRADIENT MAP 09/22/2008</p>
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FIGURE 11

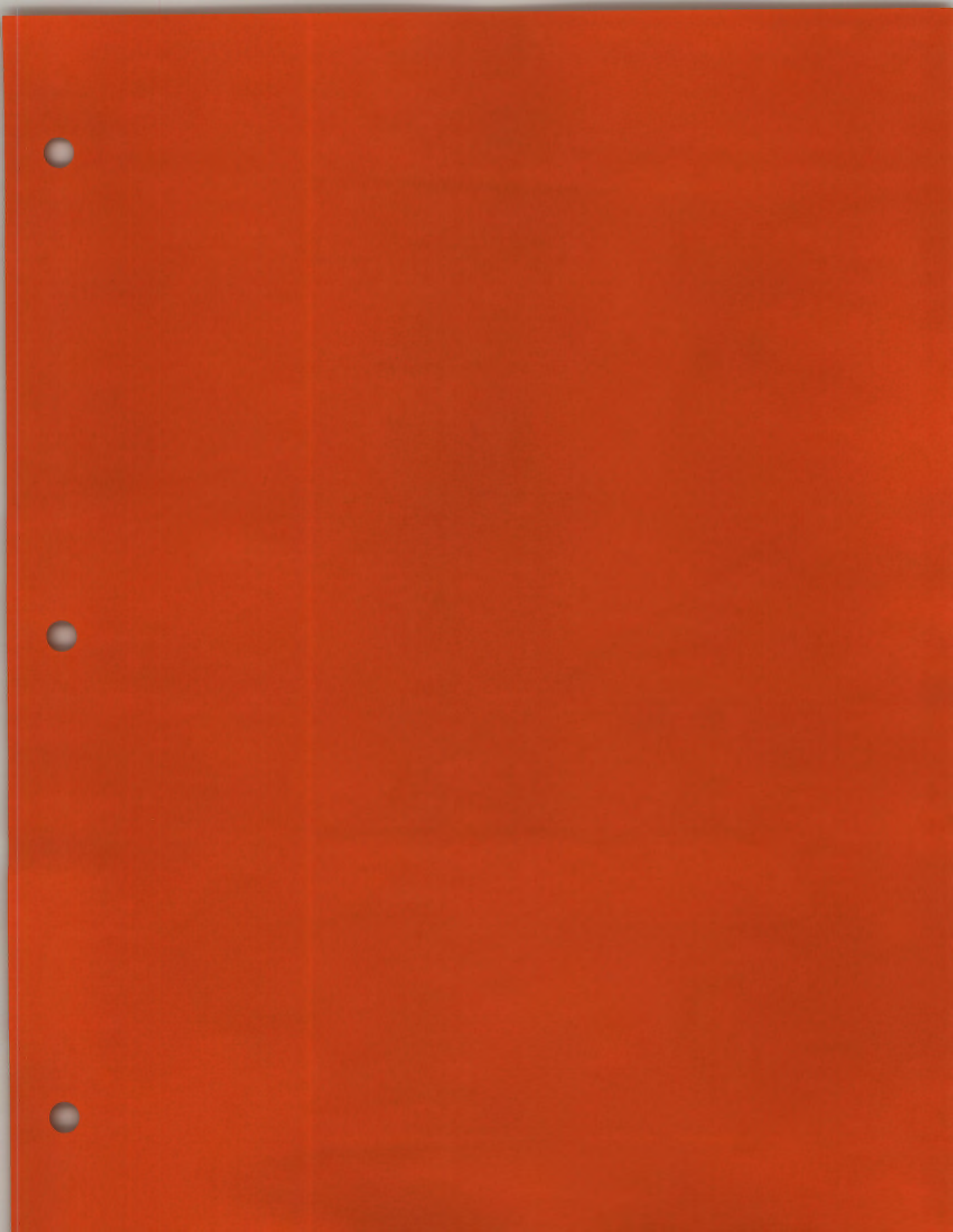


Lodestar Services, Inc
 PO Box 3861
 Farmington, NM 87499

JACK FROST B #2
 NW/4 NW/4 SEC. 27, T27N, R10W
 SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
 DRAWN BY: ADH
 REVISED: 12/22/2008

GROUNDWATER GRADIENT MAP
 12/04/2008



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

5. Lease Designation and Serial No.

SF-077951 A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

JACK FROST B # 2

9. API Well No.

3004506295

10. Field and Pool, or Exploratory Area

DAKOTA

11. County or Parish, State

SAN JUAN, N.M.

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Amoco Production Company

3. Address and Telephone No.

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

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

NW/NW SEC. 27, T27N, R10W NMAM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Pit closure</u>	<input type="checkbox"/> 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.

SEPARATOR PIT - ABANDONED

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

Signed

B. Shaw

Title

Enviro. Coordinator

Date

10/14/94

(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.

District I
P.O. Box 1980, Hobbs, NM
District II
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

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

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

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JACK FROST B # 2
Well Name

Location: Unit or Qtr/Qtr Sec D Sec 27 T27N R10W County SAN JUAN

Pit Type: Separator Dehydrator Other

Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 25', width 25', depth 15'
(Attach diagram)

Reference: wellhead , other

Footage from reference: 150

Direction from reference: 45 Degrees East North
of
 West South

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 Points)	<u>20</u>

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)	<u>0</u>

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)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 8-5-94 Date Completed: 8-25-94

Remediation Method: Excavation Approx. cubic yards 400
(Check all appropriate sections) Landfarmed Insitu Bioremediation

Other COMPOST

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

General Description Of Remedial Action:

Excavation . ON-SITE COMPOST PILE CLOSURE RECORD SUBMITTED

WITH BLOW PIT CLOSURE. BLOW PIT + COMPOST PILE CLOSURE APPROVED

BY NMDCD WITH LETTER DATED 12/12/96 (ATTACHED.)

SEPARATOR PIT CLOSURE DENIED BY NMDCD WITH LETTER DATED 12/5/96

(ATTACHED) - DUE TO GROUNDWATER CONTAMINATION EXCEEDING NMDCD STANDARDS.

Ground Water Encountered: No Yes Depth 15'

Final Pit: Sample location see Attached Documents

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

Sample depth 15'

Sample date 8-25-94 Sample time _____

Sample Results

Benzene (ppm) ND

Total BTEX (ppm) 0.018

Field headspace (ppm) _____

TPH _____

Ground Water Sample: Yes 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

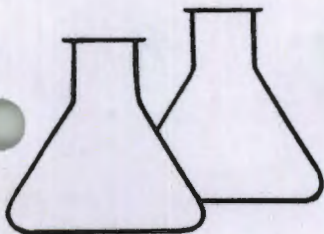
DATE 10/14/94

SIGNATURE

B. Shaw

PRINTED NAME AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	AMOCO	Project #:	92140
Sample ID:	ground water	Date Reported:	08-15-94
Laboratory Number:	7765	Date Sampled:	08-05-94
Sample Matrix:	Water	Date Received:	08-08-94
Preservative:	HgCl & Cool	Date Analyzed:	08-11-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
-----	-----	-----
Benzene	48	0.3
Toluene	411	0.3
Ethylbenzene	ND	0.2
p,m-Xylene	55.9	0.3
o-Xylene	35.2	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	74 %
	Bromofluorobenzene	97 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

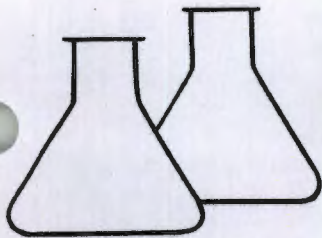
ND - Parameter not detected at the stated detection limit.

Comments: JACK FROST B # 2 A0079

SEPARATOR PIT

Rex D. Griffin
Analyst

Morris D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Groundwater	Date Reported:	09-01-94
Laboratory Number:	7847	Date Sampled:	08-25-94
Sample Matrix:	Water	Date Received:	08-25-94
Preservative:	HgCl & Cool	Date Analyzed:	08-29-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.3
Toluene	ND	0.3
Ethylbenzene	ND	0.2
m-Xylene	ND	0.3
o-Xylene	18.0	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	97 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jack Frost B #2 ground Water Pit A0079 separator PIT

Rex D. Haffis
Analyst

Marie D Young
Review

P.T # H0079

34
80114

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS										
Amoco 92140		Nack Frost B #2		Chain of Custody Tape No.										
Sampler: (Signature)		Lab Number		Sample Matrix		No. of Containers		BTEX (8020)		Remarks		Date	Time	
JMS [Signature]		7765		WATER		2		✓				8/8/94	8:00	
Sample No./ Identification		Sample Date		Sample Time										
Groundwater		8/5/94		6:43										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time				
JMS [Signature]		8/5/94		6:40		Roy [Signature]								
Relinquished by: (Signature)						Received by: (Signature)								
Relinquished by: (Signature)						Received by: (Signature)								

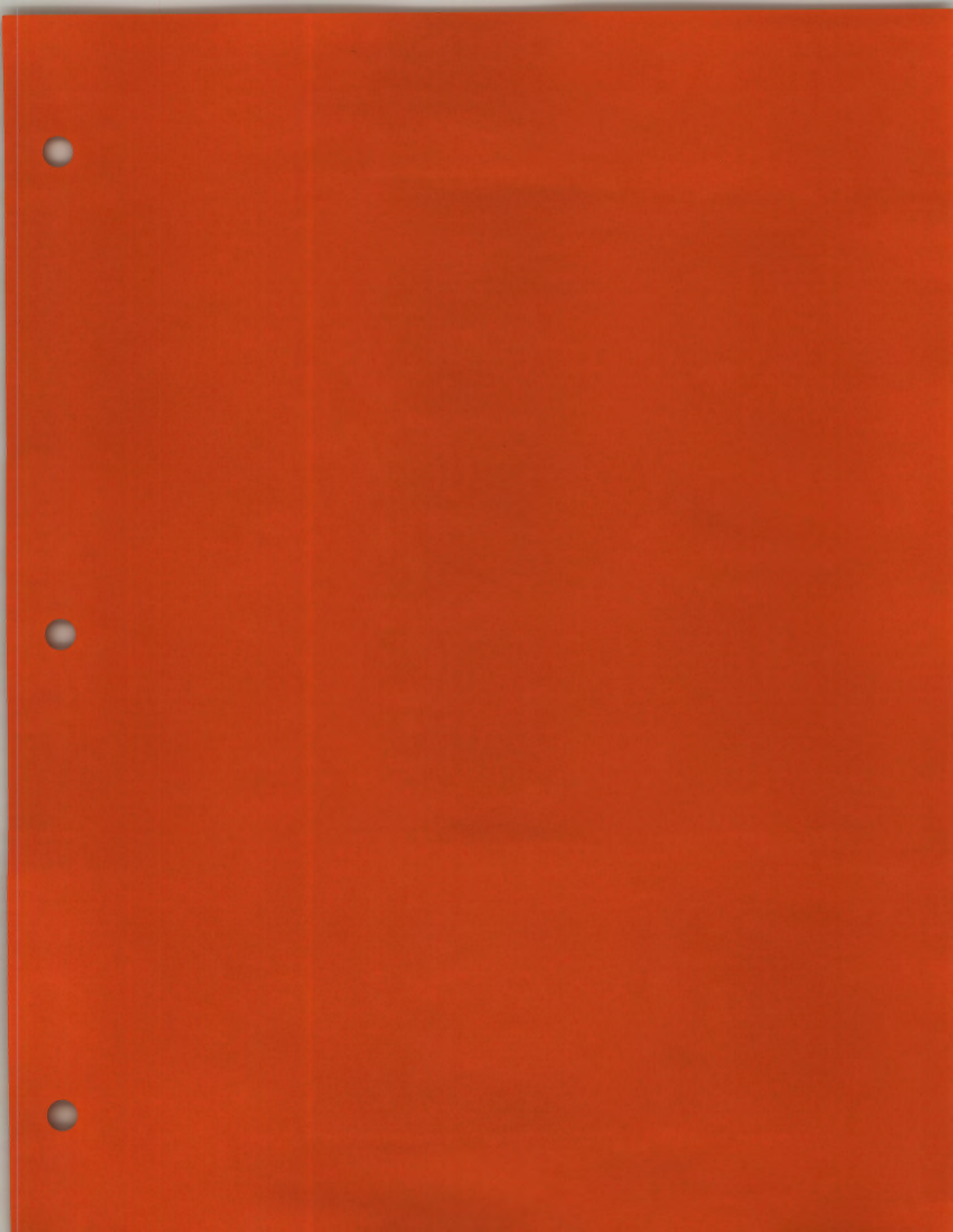
ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

Pit # A0079

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS							Remarks	
Amoco 92140		Jack Frost B #2										
Sampler: (Signature) <i>J. M. Dault</i>		Chain of Custody Tape No.										
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers							
Ground Water	8/25/04	1100	7847	Water	2	BTEX (8020) ✓					Sep Pit	
Relinquished by: (Signature) <i>J. M. Dault</i>		Date 8/25/04		Time 1333		Received by: (Signature) <i>Ray Hoffman</i>		Date 8/25/04		Time 1500		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615



Hall Environmental Analysis Laboratory, Inc.

Date: 27-Mar-08

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0803158

Lab ID: 0803158-01

Collection Date: 3/13/2008 12:30:00 PM

Client Sample ID: ~~PG Pipken-3E-MW-2~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: BDH
EPA METHOD 8021B: VOLATILES						
Benzene	9.7	1.0		µg/L	1	3/25/2008 11:31:05 AM
Toluene	ND	1.0		µg/L	1	3/25/2008 11:31:05 AM
Ethylbenzene	1.1	1.0		µg/L	1	3/25/2008 11:31:05 AM
Xylenes, Total	5.7	2.0		µg/L	1	3/25/2008 11:31:05 AM
Surr: 4-Bromofluorobenzene	98.9	68.9-122		%REC	1	3/25/2008 11:31:05 AM

Lab ID: 0803158-02

Collection Date: 3/13/2008 2:34:00 PM

Client Sample ID: ~~El Johnson-CIE-MW-5~~

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: BDH
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	3/25/2008 12:01:16 PM
Toluene	ND	1.0		µg/L	1	3/25/2008 12:01:16 PM
Ethylbenzene	ND	1.0		µg/L	1	3/25/2008 12:01:16 PM
Xylenes, Total	ND	2.0		µg/L	1	3/25/2008 12:01:16 PM
Surr: 4-Bromofluorobenzene	96.4	68.9-122		%REC	1	3/25/2008 12:01:16 PM

Lab ID: 0803158-03

Collection Date: 3/13/2008 3:11:00 PM

Client Sample ID: Jack Frost B2 MW-4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: BDH
EPA METHOD 8021B: VOLATILES						
Benzene	17	1.0		µg/L	1	3/25/2008 12:31:24 PM
Toluene	ND	1.0		µg/L	1	3/25/2008 12:31:24 PM
Ethylbenzene	ND	1.0		µg/L	1	3/25/2008 12:31:24 PM
Xylenes, Total	ND	2.0		µg/L	1	3/25/2008 12:31:24 PM
Surr: 4-Bromofluorobenzene	109	68.9-122		%REC	1	3/25/2008 12:31:24 PM

Lab ID: 0803158-04

Collection Date:

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: BDH
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	3/25/2008 1:01:32 PM
Toluene	ND	1.0		µg/L	1	3/25/2008 1:01:32 PM
Ethylbenzene	ND	1.0		µg/L	1	3/25/2008 1:01:32 PM
Xylenes, Total	ND	2.0		µg/L	1	3/25/2008 1:01:32 PM
Surr: 4-Bromofluorobenzene	98.8	68.9-122		%REC	1	3/25/2008 1:01:32 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: 0803158

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

Method: EPA Method 8021B: Volatiles

Sample ID: 0803158-01A MSD	MSD	Batch ID: R27861	Analysis Date: 3/25/2008 2:01:44 PM				
Benzene	28.56 µg/L	1.0	94.4	85.9	113	1.36	27
Toluene	19.46 µg/L	1.0	96.0	86.4	113	1.31	19
Ethylbenzene	20.31 µg/L	1.0	96.1	83.5	118	1.87	10
Xylenes, Total	62.71 µg/L	2.0	95.0	83.4	122	2.20	13

Sample ID: 5ML RB	MBLK	Batch ID: R27861	Analysis Date: 3/25/2008 9:00:00 AM				
Benzene	ND µg/L	1.0					
Toluene	ND µg/L	1.0					
Ethylbenzene	ND µg/L	1.0					
Xylenes, Total	ND µg/L	2.0					

Sample ID: 100NG BTEX LCS	LCS	Batch ID: R27861	Analysis Date: 3/25/2008 2:32:03 PM				
Benzene	20.48 µg/L	1.0	102	85.9	113		
Toluene	20.78 µg/L	1.0	104	86.4	113		
Ethylbenzene	20.85 µg/L	1.0	104	83.5	118		
Xylenes, Total	61.22 µg/L	2.0	102	83.4	122		

Sample ID: 0803158-01A MS	MS	Batch ID: R27861	Analysis Date: 3/25/2008 1:31:37 PM				
Benzene	28.95 µg/L	1.0	96.3	85.9	113		
Toluene	19.72 µg/L	1.0	97.3	86.4	113		
Ethylbenzene	20.69 µg/L	1.0	98.0	83.5	118		
Xylenes, Total	64.11 µg/L	2.0	97.3	83.4	122		

Notes:

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.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

3/18/2008

Work Order Number 0803158

Received by: ARS

Sample ID labels checked by:

Checklist completed by:

Signature

[Handwritten Signature]

3/18/08

Date

Initials

AS

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 - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action

Chain-of-Custody Record

Client: XTO Energy
Kim Champlin
 Address: 382 CR 3100
Aztec, NM 87410
 Phone #: 505 333 3207
 email or Fax#:

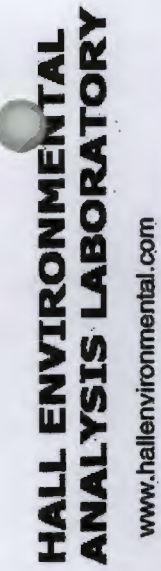
QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
03-13-08	12:30	PO Pipken 3E MW-2	20cc/3	HCl	0803158
03-13-08	14:34	EJ Johnson CIE MW-5	20cc/2	HCl	1
03-13-08	15:11	Jack Frost B2 MW-4	20cc/3	HCl	2
03-13-08	07:00	TRIP BLANK	20cc/2	HCl	3
					4

Date: 3-17-08 Time: 16:30
 Relinquished by: Ashley J. Ager
 Date: _____ Time: _____
 Relinquished by: _____

Turn-Around Time:
 Standard Rush
 Project Name:
Ground Water
 Project #:
 Project Manager:
Ashley Ager 970 946 1093
 Sampler: Ashley Ager

Sample Temperature: _____
 Sample Temperature: _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8260)	
8310 (PNA or PAH)	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	8021B BTEX
Air Bubbles (Y or N)	

Received by: [Signature] 8:25 8/18/08
 Received by: _____

Remarks:
Please copy results to ALA@lodestar.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Jun-08

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0806072

Lab ID: 0806072-01
Client Sample ID: Jack Prost B2 MW-4

Collection Date: 6/3/2008 9:37:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	9.7	1.0		µg/L	1	6/12/2008 12:16:47 AM
Toluene	ND	1.0		µg/L	1	6/12/2008 12:16:47 AM
Ethylbenzene	ND	1.0		µg/L	1	6/12/2008 12:16:47 AM
Xylenes, Total	2.4	2.0		µg/L	1	6/12/2008 12:16:47 AM
Surr: 4-Bromofluorobenzene	92.8	68.9-122		%REC	1	6/12/2008 12:16:47 AM

Lab ID: 0806072-02
Client Sample ID: ~~Valdez AE #1 MW-6~~

Collection Date: 6/3/2008 11:47:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	1.5	1.0		µg/L	1	6/12/2008 1:19:40 AM
Toluene	ND	1.0		µg/L	1	6/12/2008 1:19:40 AM
Ethylbenzene	88	1.0		µg/L	1	6/12/2008 1:19:40 AM
Xylenes, Total	680	20		µg/L	10	6/12/2008 12:49:32 AM
Surr: 4-Bromofluorobenzene	96.3	68.9-122		%REC	1	6/12/2008 1:19:40 AM

Lab ID: 0806072-03
Client Sample ID: ~~Valdez AE #1 MW-7~~

Collection Date: 6/3/2008 12:22:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	34	1.0		µg/L	1	6/12/2008 2:52:24 AM
Toluene	ND	1.0		µg/L	1	6/12/2008 2:52:24 AM
Ethylbenzene	63	1.0		µg/L	1	6/12/2008 2:52:24 AM
Xylenes, Total	490	20		µg/L	10	6/12/2008 2:22:23 AM
Surr: 4-Bromofluorobenzene	103	68.9-122		%REC	1	6/12/2008 2:52:24 AM

Lab ID: 0806072-04
Client Sample ID: Snyder GC #1A MW-3

Collection Date: 6/4/2008 10:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	6/12/2008 3:52:25 AM
Toluene	ND	1.0		µg/L	1	6/12/2008 3:52:25 AM
Ethylbenzene	ND	1.0		µg/L	1	6/12/2008 3:52:25 AM
Xylenes, Total	ND	2.0		µg/L	1	6/12/2008 3:52:25 AM
Surr: 4-Bromofluorobenzene	89.1	68.9-122		%REC	1	6/12/2008 3:52:25 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
B 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: 0806072

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

Method: EPA Method 8021B: Volatiles

Sample ID: 0806072-05A MSD

MSD

Batch ID: R28897

Analysis Date: 6/12/2008 5:52:50 AM

Benzene	22.88	µg/L	1.0	101	85.9	113	0.677	27
Toluene	20.86	µg/L	1.0	104	86.4	113	0.621	19
Ethylbenzene	21.25	µg/L	1.0	106	83.5	118	0.816	10
Xylenes, Total	63.51	µg/L	2.0	106	83.4	122	1.86	13

Sample ID: 5ML RB

MBLK

Batch ID: R28897

Analysis Date: 6/11/2008 9:05:26 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: R28897

Analysis Date: 6/12/2008 6:23:00 AM

Benzene	21.45	µg/L	1.0	107	85.9	113		
Toluene	21.73	µg/L	1.0	109	86.4	113		
Ethylbenzene	22.21	µg/L	1.0	111	83.5	118		
Xylenes, Total	66.49	µg/L	2.0	111	83.4	122		

Sample ID: 0806072-05A MS

MS

Batch ID: R28897

Analysis Date: 6/12/2008 5:22:41 AM

Benzene	22.84	µg/L	1.0	102	85.9	113		
Toluene	20.99	µg/L	1.0	106	86.4	113		
Ethylbenzene	21.42	µg/L	1.0	107	83.5	118		
Xylenes, Total	64.70	µg/L	2.0	108	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.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

6/5/2008

Work Order Number 0806072

Received by: TLS

Sample ID labels checked by:

AS
Initials

Checklist completed by: Jamye Shomin 6/5/08
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 - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature? 5° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: XTO Energy
 Kim Chapman
 Address: 382 CR 3100
 Artec NM 87410
 Phone #: 505-333-3207

Turn-Around Time: Standard Rush
 Project Name: Ground Water
 Project #: _____

Project Manager: Ashley Ager
 970-946-1093
 Sampler: Troy Urban

On Ice: Yes No
 Sample Temperature: _____

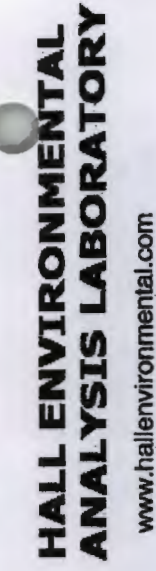
QA/QC Package: Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
060308	0937	Jack Frost 02 MW-4	20cc/3	HCl	0800070
060308	1147	Valdez AE #1 MW-6	20cc/3	HCl	1
060308	1222	Valdez AE #1 MW-7	20cc/3	HCl	3
060408	1040	SNYDER GC #1A MW-3	20cc/3	HCl	4
060408	1145	Sullivan GCD #1 MW-3	20cc/3	HCl	5

Date: 6/4/08 5:55
 Date: _____

Relinquished by: Troy Urban
 Relinquished by: _____

Received by: [Signature]
 Received by: _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8260)	
8310 (PNA or PAH)	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	8021 B BTEX
Air Bubbles (Y or N)	

Remarks: Please copy results to
 ALA@lodestar-services.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Oct-08

CLIENT: XTO Energy
Lab Order: 0809507
Project: Groundwater
Lab ID: 0809507-13

Client Sample ID: Jack Frost B #2 MW-4
Collection Date: 9/22/2008 9:30:00 AM
Date Received: 9/23/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/1/2008 4:29:50 AM
Benzene	3.1	1.0		µg/L	1	10/1/2008 4:29:50 AM
Toluene	ND	1.0		µg/L	1	10/1/2008 4:29:50 AM
Ethylbenzene	ND	1.0		µg/L	1	10/1/2008 4:29:50 AM
Xylenes, Total	ND	2.0		µg/L	1	10/1/2008 4:29:50 AM
1,2,4-Trimethylbenzene	3.5	1.0		µg/L	1	10/1/2008 4:29:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/1/2008 4:29:50 AM
Surr: 4-Bromofluorobenzene	93.4	65.9-130		%REC	1	10/1/2008 4:29:50 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: 06-Oct-08

CLIENT: XTO Energy
Lab Order: 0809507
Project: Groundwater
Lab ID: 0809507-19

Client Sample ID: Trip Blank
Collection Date:
Date Received: 9/23/2008
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	10/1/2008 5:00:15 AM
Benzene	ND	1.0		µg/L	1	10/1/2008 5:00:15 AM
Toluene	ND	1.0		µg/L	1	10/1/2008 5:00:15 AM
Ethylbenzene	ND	1.0		µg/L	1	10/1/2008 5:00:15 AM
Xylenes, Total	ND	2.0		µg/L	1	10/1/2008 5:00:15 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/1/2008 5:00:15 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/1/2008 5:00:15 AM
Surr: 4-Bromofluorobenzene	86.9	65.9-130		%REC	1	10/1/2008 5:00:15 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

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Groundwater

Work Order: 0809507

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 0809507-10A MSD

MSD

Batch ID: R30439

Analysis Date:

9/30/2008 4:07:13 AM

Methyl tert-butyl ether (MTBE)	16.33	µg/L	2.5	81.6	51.2	138	10.1	28	
Benzene	20.33	µg/L	1.0	101	85.9	113	0.393	27	
Toluene	20.11	µg/L	1.0	101	86.4	113	0.0697	19	
Ethylbenzene	20.50	µg/L	1.0	102	83.5	118	1.51	10	
Xylenes, Total	62.27	µg/L	2.0	104	83.4	122	1.06	13	
1,2,4-Trimethylbenzene	20.81	µg/L	1.0	103	83.5	115	1.64	21	
1,3,5-Trimethylbenzene	20.49	µg/L	1.0	102	85.2	113	0.865	10	

Sample ID: b 6

MBLK

Batch ID: R30439

Analysis Date:

9/29/2008 11:11:28 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						

Sample ID: 5ML RB

MBLK

Batch ID: R30439

Analysis Date:

9/30/2008 9:14:37 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: R30439

Analysis Date:

9/30/2008 4:37:39 AM

Methyl tert-butyl ether (MTBE)	15.54	µg/L	2.5	77.7	51.2	138			
Benzene	19.76	µg/L	1.0	98.8	85.9	113			
Toluene	19.47	µg/L	1.0	97.4	86.4	113			
Ethylbenzene	20.41	µg/L	1.0	102	83.5	118			
Xylenes, Total	61.43	µg/L	2.0	102	83.4	122			
1,2,4-Trimethylbenzene	21.15	µg/L	1.0	106	83.5	115			
1,3,5-Trimethylbenzene	20.95	µg/L	1.0	105	85.2	113			

Sample ID: 0809507-10A MS

MS

Batch ID: R30439

Analysis Date:

9/30/2008 3:36:51 AM

Methyl tert-butyl ether (MTBE)	14.75	µg/L	2.5	73.8	51.2	138			
Benzene	20.41	µg/L	1.0	101	85.9	113			
Toluene	20.09	µg/L	1.0	100	86.4	113			
Ethylbenzene	20.81	µg/L	1.0	104	83.5	118			
Xylenes, Total	62.94	µg/L	2.0	105	83.4	122			
1,2,4-Trimethylbenzene	20.95	µg/L	1.0	105	83.5	115			
1,3,5-Trimethylbenzene	20.87	µg/L	1.0	103	85.2	113			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Groundwater

Work Order: 0809507

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SM 2540C Total Dissolved Solids

Sample ID: MB-17178

MBLK

Batch ID: 17178 Analysis Date: 9/26/2008

Total Dissolved Solids

ND

mg/L

20

Sample ID: LCS-17178

LCS

Batch ID: 17178 Analysis Date: 9/26/2008

Total Dissolved Solids

1005

mg/L

20

101

80

120

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.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

9/23/2008

Work Order Number 0809507

Received by: ARS

Checklist completed by:

[Handwritten Signature]

9/23/08

Sample ID labels checked by:

[Handwritten Initials]

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 - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? **13°** <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: XTO Energy
Kim Champion
 Mailing Address: 382 CR 3100
Arbuckle, NM 87410
 Phone #: 505-333-3207

email or Fax#: _____
 QA/QC Package:
 Standard
 Other
 EDD (Type) _____
 Level 4 (Full Validation)

Turn-Around Time:

Standard Rush
 Project Name:
Groundwater

Project #:

Project Manager:

Ashley Ayer

Sampler: Troy Urban

Sample Temperature: _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Sample Temperature	Received by:	Date	Time
8-22-08	0930	GW	Jack Frost B#2 MW4	3	Hydric	-13	Ashley Ayer	9-22-08	1507
8-22-08	1043	GW	EJ Johnson CIE MW1	1	—	-14	Ashley Ayer	9-22-08	1507
8-22-08	1118	GW	EJ Johnson CIE MW2	1	—	-15	Ashley Ayer	9-22-08	1507
8-22-08	1145	GW	EJ Johnson CIE MW3	1	—	-16	Ashley Ayer	9-22-08	1507
8-22-08	1246	GW	EJ Johnson CIE MW5	1	—	-17	Ashley Ayer	9-22-08	1507
8-22-08	1340	GW	EJ Johnson CIE MW6	1	—	-18	Ashley Ayer	9-22-08	1507
8-22-08	0710	Water	TEIP BLANK	2	—	-19	Ashley Ayer	9-22-08	16:00

Date: 9/22/08 Time: 1507
 Relinquished by: Troy Urban
 Date: 9-23-08 Time: 0730
 Relinquished by: Ashley Ayer

Analysis Request	TPH Method 418.1	TPH Method 8015B (Gas/Diesel)	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TMBs (8021)
8270 (Semi-VOA)				
8260B (VOA)				
8081 Pesticides / 8082 PCB's				
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)				
RCRA 8 Metals				
8310 (PNA or PAH)				
EDB (Method 504.1)				
TPH (Method 418.1)				
TPH Method 8015B (Gas/Diesel)				
BTEX + MTBE + TPH (Gas only)				
BTEX + MTBE + TMBs (8021)				

Remarks:

Please copy results to
ALN@lodestarservices.com

Hall Environmental Analysis Laboratory, Inc.

Date: 11-Dec-08

CLIENT: XTO Energy
Project: XTO Water

Lab Order: 0812149

Lab ID: 0812149-01
Client Sample ID: Jack Frost-B2-MW-4

Collection Date: 12/4/2008 12:10:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2008 1:53:58 PM
Benzene	1.7	1.0		µg/L	1	12/9/2008 1:53:58 PM
Toluene	ND	1.0		µg/L	1	12/9/2008 1:53:58 PM
Ethylbenzene	ND	1.0		µg/L	1	12/9/2008 1:53:58 PM
Xylenes, Total	ND	2.0		µg/L	1	12/9/2008 1:53:58 PM
1,2,4-Trimethylbenzene	2.5	1.0		µg/L	1	12/9/2008 1:53:58 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2008 1:53:58 PM
Surr: 4-Bromofluorobenzene	83.5	65.9-130		%REC	1	12/9/2008 1:53:58 PM

Lab ID: 0812149-02
Client Sample ID: ~~EJ Johnson C1E-MW-5~~

Collection Date: 12/4/2008 11:05:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2008 2:24:19 PM
Benzene	ND	1.0		µg/L	1	12/9/2008 2:24:19 PM
Toluene	ND	1.0		µg/L	1	12/9/2008 2:24:19 PM
Ethylbenzene	4.8	1.0		µg/L	1	12/9/2008 2:24:19 PM
Xylenes, Total	2.8	2.0		µg/L	1	12/9/2008 2:24:19 PM
1,2,4-Trimethylbenzene	5.0	1.0		µg/L	1	12/9/2008 2:24:19 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2008 2:24:19 PM
Surr: 4-Bromofluorobenzene	97.9	65.9-130		%REC	1	12/9/2008 2:24:19 PM

Lab ID: 0812149-03
Client Sample ID: ~~Snyder Gas Com 1A-MW-3~~

Collection Date: 12/4/2008 1:37:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	12/9/2008 2:54:42 PM
Benzene	ND	1.0		µg/L	1	12/9/2008 2:54:42 PM
Toluene	ND	1.0		µg/L	1	12/9/2008 2:54:42 PM
Ethylbenzene	ND	1.0		µg/L	1	12/9/2008 2:54:42 PM
Xylenes, Total	ND	2.0		µg/L	1	12/9/2008 2:54:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2008 2:54:42 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/9/2008 2:54:42 PM
Surr: 4-Bromofluorobenzene	80.3	65.9-130		%REC	1	12/9/2008 2:54:42 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 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 Water

Work Order: 0812149

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 0812149-01A MSD MSD Batch ID: R31538 Analysis Date: 12/9/2008 7:00:43 PM

Methyl tert-butyl ether (MTBE)	20.44	µg/L	2.5	102	51.2	138	0.147	28	
Benzene	23.01	µg/L	1.0	106	85.9	113	0.555	27	
Toluene	21.33	µg/L	1.0	107	86.4	113	0.598	19	
Ethylbenzene	21.46	µg/L	1.0	108	83.5	118	1.07	10	
Xylenes, Total	64.88	µg/L	2.0	106	83.4	122	4.02	13	
1,2,4-Trimethylbenzene	23.71	µg/L	1.0	106	83.5	115	2.86	21	
1,3,5-Trimethylbenzene	20.76	µg/L	1.0	104	85.2	113	3.20	10	

Sample ID: 5ML RB MBLK Batch ID: R31538 Analysis Date: 12/9/2008 9:17:44 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: R31538 Analysis Date: 12/9/2008 7:31:17 PM

Methyl tert-butyl ether (MTBE)	24.73	µg/L	2.5	124	51.2	138			
Benzene	21.35	µg/L	1.0	107	85.9	113			
Toluene	21.20	µg/L	1.0	106	86.4	113			
Ethylbenzene	21.23	µg/L	1.0	106	83.5	118			
Xylenes, Total	63.87	µg/L	2.0	106	83.4	122			
1,2,4-Trimethylbenzene	20.67	µg/L	1.0	102	83.5	115			
1,3,5-Trimethylbenzene	19.98	µg/L	1.0	99.9	85.2	113			

Sample ID: 0812149-01A MS MS Batch ID: R31538 Analysis Date: 12/9/2008 6:30:15 PM

Methyl tert-butyl ether (MTBE)	20.47	µg/L	2.5	102	51.2	138			
Benzene	23.14	µg/L	1.0	107	85.9	113			
Toluene	21.46	µg/L	1.0	107	86.4	113			
Ethylbenzene	21.69	µg/L	1.0	107	83.5	118			
Xylenes, Total	67.54	µg/L	2.0	110	83.4	122			
1,2,4-Trimethylbenzene	24.40	µg/L	1.0	109	83.5	115			
1,3,5-Trimethylbenzene	21.44	µg/L	1.0	107	85.2	113			

Qualifiers:

- E Estimated value
- 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.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

12/5/2008

Work Order Number 0812149

Received by: ARS

Checklist completed by:

Signature

[Handwritten Signature]

12/5/08
Date

Sample ID labels checked by:

Initials

[Handwritten Initials]

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 - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Container/Temp Blank temperature?

5°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

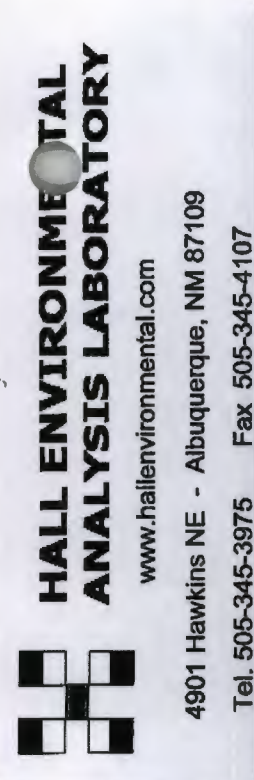
Corrective Action _____

Chain-of-Custody Record

Client: XTO Energy Standard Rush
 Project Name: Kim Chambliss
 Mailing Address: 302 CR 3100
Aztec, NM
 Phone #: 505-333-3207
 email or Fax#: _____

QA/QC Package: Level 4 (Full Validation)
 Standard
 Other _____
 EDD (Type) _____

Turn-Around Time: _____
 Standard Rush
 Project Name: XTO water
 Project #: _____
 Project Manager: Martin Nee
 Sampler: Alie Doylehoff



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX + MTBE + TMB's (8021)	BTX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	R CRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	1	2	3	4	5	6
4 Dec 08	12:10		Jack Foot B2-MW-4	glass / 3	HCl						
4 Dec 08	11:05		EJ Johnson UE-MW-5	glass / 3	HCl						
4 Dec 08	13:37		Snyder Gas Com 1A-MW-3	glass / 3	HCl						
4 Dec 08	14:32		Sullivan Gas Com DI-MW-1R	glass / 3	HCl						
4 Dec 08	15:40		Valdez AIE-MW-7	glass / 3	HCl						
4 Dec 08	16:05		Valdez AIE-MW-6	glass / 3	HCl						

Date: 5 Dec 08 Time: 07:30 Relinquished by: Alie Doyle
 Date: _____ Time: _____ Relinquished by: _____
 Received by: [Signature] Date: 12/5/08 Time: 15:00
 Received by: _____ Date: _____ Time: _____

Remarks: please email results to ada@wdestarserver.com adh@wdestarserver.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.