

3R - 100

2006 AGWMR

JAN 2007

XTO ENERGY INC.

ANNUAL GROUNDWATER REMEDIATION REPORT

2006

ABRAMS J #1

***(I) SECTION 29, T29N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO***

PREPARED FOR:

***MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION***

JANUARY 2007

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2006 XTO GROUNDWATER REPORT

ABRAMS J #1

SITE DETAILS

Legals - Twn: 29N

Rng: 10W

Sec: 29

Unit: A

NMOCD Hazard Ranking: 20

Land Type: FEE

PREVIOUS ACTIVITIES

Excavation: Aug-93 (1460 CY) and Sep-93 (1730 CY)

Monitor Wells: Sep-93

Additional Monitor Wells: Jun-Aug-96

Air Sparge Initiated: Apr-97

Quarterly Sampling Initiated: Apr-97

Air Sparge Terminated: Jan-98

Air Sparge Re-initiated: Jan-00

Air Sparge Terminated: Jun-02

Quarterly Sampling Re-initiated: Feb-06

SITE MAP

A site map is presented as Figure 1.

SUMMARY TABLES

Historical and current groundwater laboratory results are summarized in Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data for 2006 are presented as Attachment 1.

POTENTIOMETRIC SURFACE DIAGRAMS

Field data collected for site monitoring activities indicates a groundwater gradient that is consistently north with a minor west component. Figures 2 – 3 illustrate the estimated groundwater gradients for August 2006 and November 2006, respectively.

2006 ACTIVITIES

Annual Groundwater Remediation Report- The 2005 annual report was submitted to New Mexico Oil Conservation Division (NMOCD) in January 2006, proposing quarterly sampling of the groundwater monitoring wells, in accordance with the NMOCD approved Groundwater Management Plan.

Groundwater Monitoring – Following a review of field conditions at this site, monitor wells MW-4 and MW-9 were repaired and other monitor wells were restored. A new survey of the groundwater monitor wells was conducted. Quarterly groundwater samples were collected from MW-1R, MW-3, MW-4, MW-9, MW-10 and MW-11 in 2006. Analytical results demonstrate benzene, toluene, ethyl benzene, and total xylene (BTEX) constituents in groundwater is not detectable or below standards for four consecutive quarters at this site.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

Bore/Test Hole Reports are presented as Figures 4–11 representing drilling that occurred on site from 1997 through 2006.

DISPOSITION OF GENERATED WASTES

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

2006 XTO GROUNDWATER REPORT

CONCLUSIONS

January 1998 XTO Energy Inc. (XTO) acquired the Abrams J #1 from Amoco Production Company. XTO elected to discontinue operation of the air sparge system pending analysis of its effectiveness. Laboratory analysis of BTEX constituents exceed closure standards in wells MW-1 (redrilled as MW-1R) MW-3, MW-4, MW-5, MW-6, MW-9 and MW-10. XTO re-initiated the air sparge system in January 2000 to enhance site groundwater remediation. By February 2002 laboratory analysis shows groundwater from monitor wells MW-1R, MW-3, MW-6, MW-7, MW-8 and MW-10 meets New Mexico Water Quality Control Commission (NMWQCC) closure standards (Table 1) and operation of the air sparge system was terminated in June 2002.

Analytical data from groundwater samples collected from MW-1R, MW-3, MW-4, MW-9, MW-10 and MW-11 for four (4) consecutive quarters in 2006 have demonstrated no detectable levels of BTEX constituents. The quarterly sampling has confirmed no rebound of BTEX constituents has occurred since termination of air sparging activities and NMWQCC standards have been met. Therefore, XTO requests closure of this site.

RECOMMENDATIONS

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

TABLE 1
XTO ENERGY INC. GROUNDWATER LAB RESULTS

ABRAMS J #1
UNIT I, SEC. 29, T29N, R10W

Revised Date: January 26, 2007

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
11-Jun-96	MW #1	45.17	45.73	0.58	-	-	-	-
07-Apr-97		-		1.80	-	-	-	-
27-Jun-97		-		0.70	-	-	-	-
15-Sep-97		-		0.01	-	-	-	-
30-Dec-97		44.59			748	3,280	1,050	5,490
25-Jan-99		44.35			214	3,130	707	7,090
02-Jun-00		DRY			-	-	-	-
20-Mar-01		DRY			-	-	-	-
30-Aug-01	MW #1R	44.97	52.00		ND	14	16	309
19-Dec-01		44.18			0.8	ND	31	153.4
20-Feb-02		44.80			1.4	1.2	57	452
26-Jun-02		46.42			ND	ND	ND	ND
24-Feb-06		46.72	52.00		ND	ND	ND	ND
31-May-06		47.45			ND	ND	ND	103
28-Aug-06		47.17	53.83		ND	ND	ND	ND
28-Nov-06		46.24	53.83		ND	ND	ND	ND
11-Jun-96	MW #2	42.30	50.00		ND	ND	ND	ND
07-Apr-97		42.86			ND	ND	ND	ND
19-May-97		43.13			ND	ND	ND	0.7
15-Sep-97		42.45			ND	ND	0.0	0.6
25-Jan-99	MONITOR WELL NOT FOUND- PRESUMED DESTROYED							
11-Jun-96	MW #3	44.58	50.00	0.33	-	-	-	-
07-Apr-97		-		1.55	-	-	-	-
27-Jun-97		-		1.10	-	-	-	-
15-Sep-97		-		0.01	-	-	-	-
30-Dec-97		44.11			78.1	891	138	3,731
25-Jan-99		43.93			18.9	123	71	3,809
11-May-99		45.00			18.3	52	76.4	3,482
01-Feb-00		-		0.05	-	-	-	-
22-Feb-00		-		1.78	-	-	-	-
02-Jun-00		-		0.01	-	-	-	-
30-Nov-00		44.83			ND	ND	5.7	3,300
20-Mar-01		45.89			ND	ND	6.6	1,200
16-May-01		46.15			ND	ND	ND	283
30-Aug-01		44.43			ND	ND	6.2	195
19-Dec-01		43.70			ND	ND	1.2	134
20-Feb-02		44.33			0.5	ND	3.8	90
24-Feb-06		46.35	50.00		ND	ND	ND	ND
31-May-06		46.41			ND	ND	ND	ND
28-Aug-06		50.25	46.83		ND	ND	ND	ND
28-Nov-06		45.93	46.83		ND	ND	ND	ND
16-Aug-96	MW #4	43.75	50.00		ND	0.6	ND	ND
07-Apr-97		44.93			ND	ND	ND	ND

TABLE 1
XTO ENERGY INC. GROUNDWATER LAB RESULTS

ABRAMS J #1
UNIT I, SEC. 29, T29N, R10W

Revised Date: January 26, 2007

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
27-Jun-97	MW #4	45.90			139	1.6	1.6	9.4
15-Sep-97		44.38			ND	8.3	ND	11.1
30-Dec-97		44.35			0.6	1.5	0.4	2.6
25-Jan-99		44.11			324	ND	13.0	ND
11-May-99		45.18			0.9	4.4	4.0	37.3
25-Aug-99		44.80			1.5	2.1	0.2	3.5
30-Nov-99		44.97			8.7	7.6	ND	8.9
22-Feb-00		45.78			ND	ND	ND	ND
24-Feb-06		46.58	50.00		ND	ND	ND	ND
31-May-06	MONITORING WELL DESTROYED							
28-Aug-06		45.00	45.85		ND	ND	ND	ND
28-Nov-06		44.12	45.85		ND	ND	ND	ND
16-Aug-96	MW #5	45.28	50.00		553	1,300	74.3	1,077
07-Apr-97		46.44			161	394	25.6	313.6
27-Jun-97		46.18			286	474	238	492
15-Sep-97		45.95			5.9	5.8	1.1	42.5
30-Dec-97		45.86			1.3	1.7	0.2	4.3
25-Jan-99		45.63			10.9	3.5	96.6	39.7
11-May-99		46.71			10.1	3.3	54	84.3
25-Aug-99		46.41			11.9	3.9	0.2	40.5
01-Feb-00		47.02			10	2.8	65	128.1
02-Jun-00		47.86			ND	ND	ND	ND
30-Aug-00		46.95			ND	ND	ND	ND
30-Nov-00		46.52			ND	ND	ND	ND
28-Aug-06		3.01	9.30	Well broken and silted in				
30-Jun-96	MW #6	-	50.00	0.70	-	-	-	-
07-Apr-97		-		1.15	-	-	-	-
27-Jun-97		-		1.25	-	-	-	-
15-Sep-97		-		0.05	-	-	-	-
30-Dec-97		45.08			782	2,560	465	5,240
25-Jan-99		44.86			327	1,940	508	4,810
11-May-99		45.94			420	1,940	500	3,822
01-Feb-00		-		0.06	-	-	-	-
22-Feb-00		-		1.25	-	-	-	-
02-Jun-00		46.90			51	1,300	410	10,700
30-Aug-00		45.86			ND	12	130	4,800
30-Nov-00		45.67			6.7	ND	39	1,076
20-Mar-01		47.38			130	ND	180	1,680
16-May-01		46.96			1	ND	4.7	13.2
30-Aug-01		45.26			0.5	ND	1.6	3.1
19-Dec-01		44.65			1.2	ND	5.6	6.1
20-Feb-02		45.28			1.1	ND	15	7.1
28-Aug-06	MONITORING WELL MISSING							

TABLE 1
XTO ENERGY INC. GROUNDWATER LAB RESULTS

ABRAMS J #1
UNIT I, SEC. 29, T29N, R10W

Revised Date: January 26, 2007

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
16-Aug-96	MW #7	43.32	50.00		ND	ND	ND	ND
07-Apr-97		44.55			ND	0.73	ND	0.5
15-Sep-97		43.88			ND	ND	ND	0.5
30-Dec-97		43.91			1.1	3.7	0.2	18.3
25-Jan-99		43.69			1.6	ND	ND	ND
25-Aug-99		44.33			2.6	0.5	1.0	16.0
30-Nov-99		44.51			32.6	3.6	5.9	6.2
06-Dec-99		44.53			6.9	2.9	6.1	13.2
06-Dec-99	dup	"			7.3	3.9	12.3	13.1
22-Feb-00		45.32			ND	ND	ND	ND
02-Jun-00		45.77			ND	ND	ND	ND
20-Mar-01		45.64			ND	ND	ND	23.7
20-Feb-02		44.09			ND	ND	ND	ND
28-Aug-06	MONITORING WELL MISSING							
07-Apr-97	MW #8R	45.10	53.10		ND	1.06	ND	0.5
19-May-97		45.10			ND	0.3	0.3	1.6
27-Jun-97		45.09			ND	ND	0.2	0.7
15-Sep-97		44.32			ND	ND	ND	ND
30-Dec-97		44.49			ND	0.3	ND	0.1
25-Jan-99		44.25			2.2	ND	ND	ND
25-Aug-99		44.78			0.9	0.3	0.9	2.4
30-Nov-99		45.02			8.5	2.9	0.5	2.7
22-Feb-00		45.89			ND	ND	ND	ND
02-Jun-00		46.12			ND	ND	ND	ND
20-Feb-02		44.64			ND	ND	ND	ND
28-Aug-06	MONITORING WELL MISSING							
16-Aug-96	MW #9	44.59	50.00		74.8	ND	ND	ND
07-Apr-97		45.84			341	0.9	0.6	ND
27-Jun-97		45.86			48.6	0.2	0.2	1.0
15-Sep-97		45.09			113	0.8	1.4	20.3
30-Dec-97		45.24			0.9	0.4	0.3	2.4
25-Jan-99		44.98			13.9	ND	ND	2.6
11-May-99		46.01			0.9	1.0	1.6	5.2
25-Aug-99		45.54			5.3	2.3	ND	1.8
30-Nov-99		45.75			3.6	2.0	2.3	3.7
22-Feb-00		46.62			ND	ND	ND	ND
30-Aug-06		46.49	49.00		ND	ND	ND	ND
28-Nov-06		47.53	49.00		ND	ND	ND	ND
16-Aug-96	MW #10	44.71	50.00		1,600	6,280	511	6,190
07-Apr-97		45.88			1,010	1,940	66.8	514
19-May-97		46.20			0.5	23.8	152	752
27-Jun-97		46.65			5	0.5	7.1	56.6
15-Sep-97		45.39			492	329	426	1,038

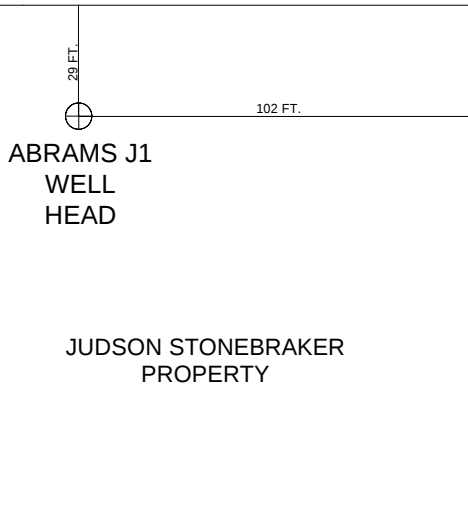
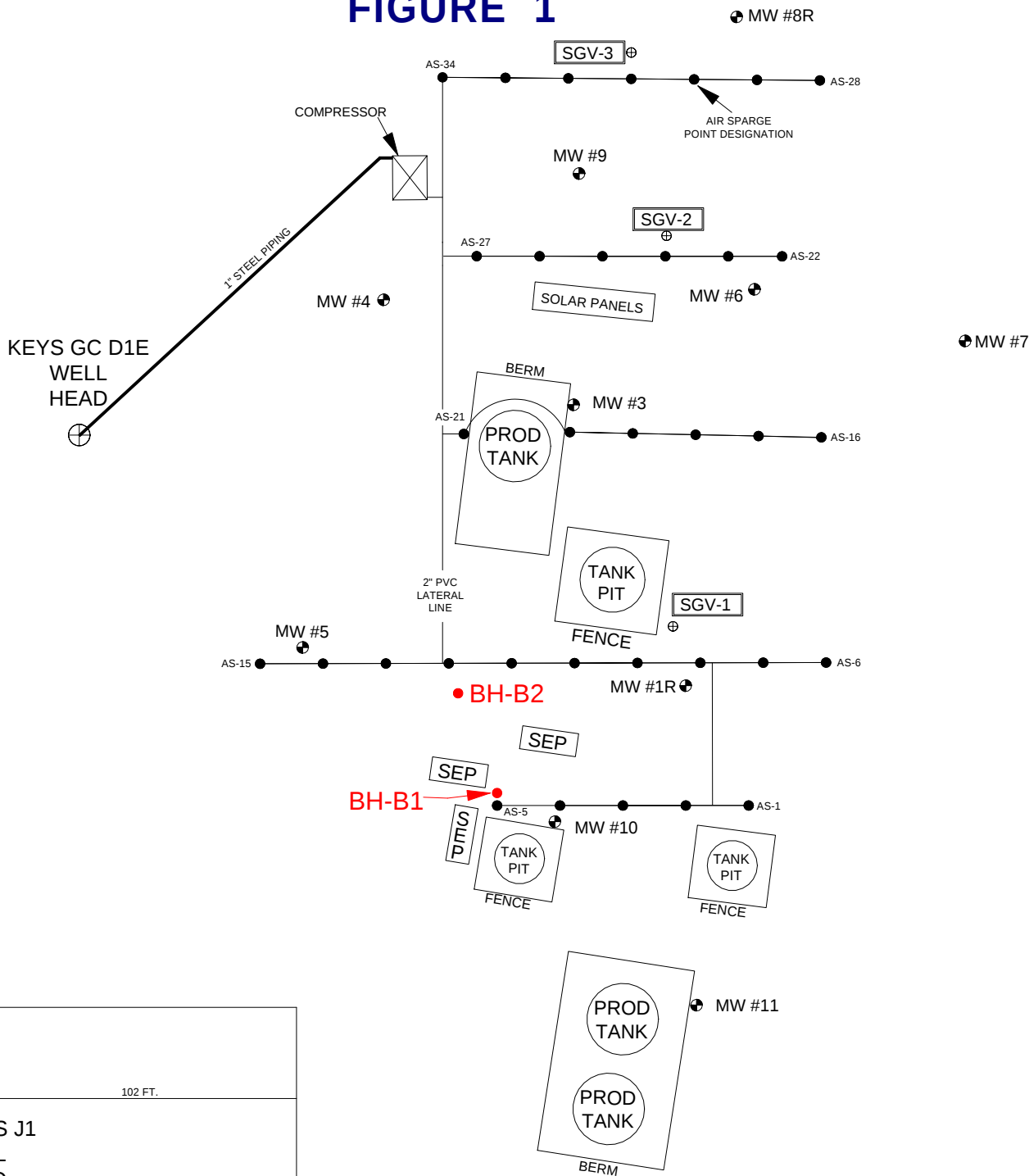
TABLE 1
XTO ENERGY INC. GROUNDWATER LAB RESULTS

ABRAMS J #1
UNIT I, SEC. 29, T29N, R10W

Revised Date: January 26, 2007

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
30-Dec-97	MW #10	45.30			96.8	6.6	60.9	660
25-Jan-99		45.06			43.6	53	253	1,397
11-May-99		46.16			27	65.1	162	723
01-Feb-00		46.46			31	120	300	3,500
02-Jun-00		47.29			13	8	10	415
16-May-01		47.26			ND	ND	0.7	ND
30-Aug-01		45.73			ND	ND	ND	ND
19-Dec-01		44.86			ND	ND	20	4.5
20-Feb-02		45.47			ND	ND	18	18.6
24-Feb-06		47.31	50.00		ND	ND	ND	ND
31-May-06		48.00			ND	ND	ND	ND
28-Aug-06		47.86	50.20		ND	ND	ND	ND
28-Nov-06		46.92	50.20		ND	ND	ND	ND
16-Aug-96	MW #11	45.76	50.00		ND	ND	ND	ND
07-Apr-97		47.02			ND	ND	ND	ND
25-Jan-99		46.16			ND	ND	ND	0.7
24-Feb-06		48.55	50.00		ND	ND	ND	ND
31-May-06		49.33			ND	ND	ND	ND
28-Aug-06		49.01	50.16		ND	ND	ND	ND
28-Nov-06		48.22	50.16		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS					10	750	750	620

FIGURE 1



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

1 INCH = 50 FEET
0 50 100 FT.

XTO ENERGY, INC.

ABRAMS J #1

NE/4 SE/4 SEC. 29, T29N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: SOIL VERIFICATION

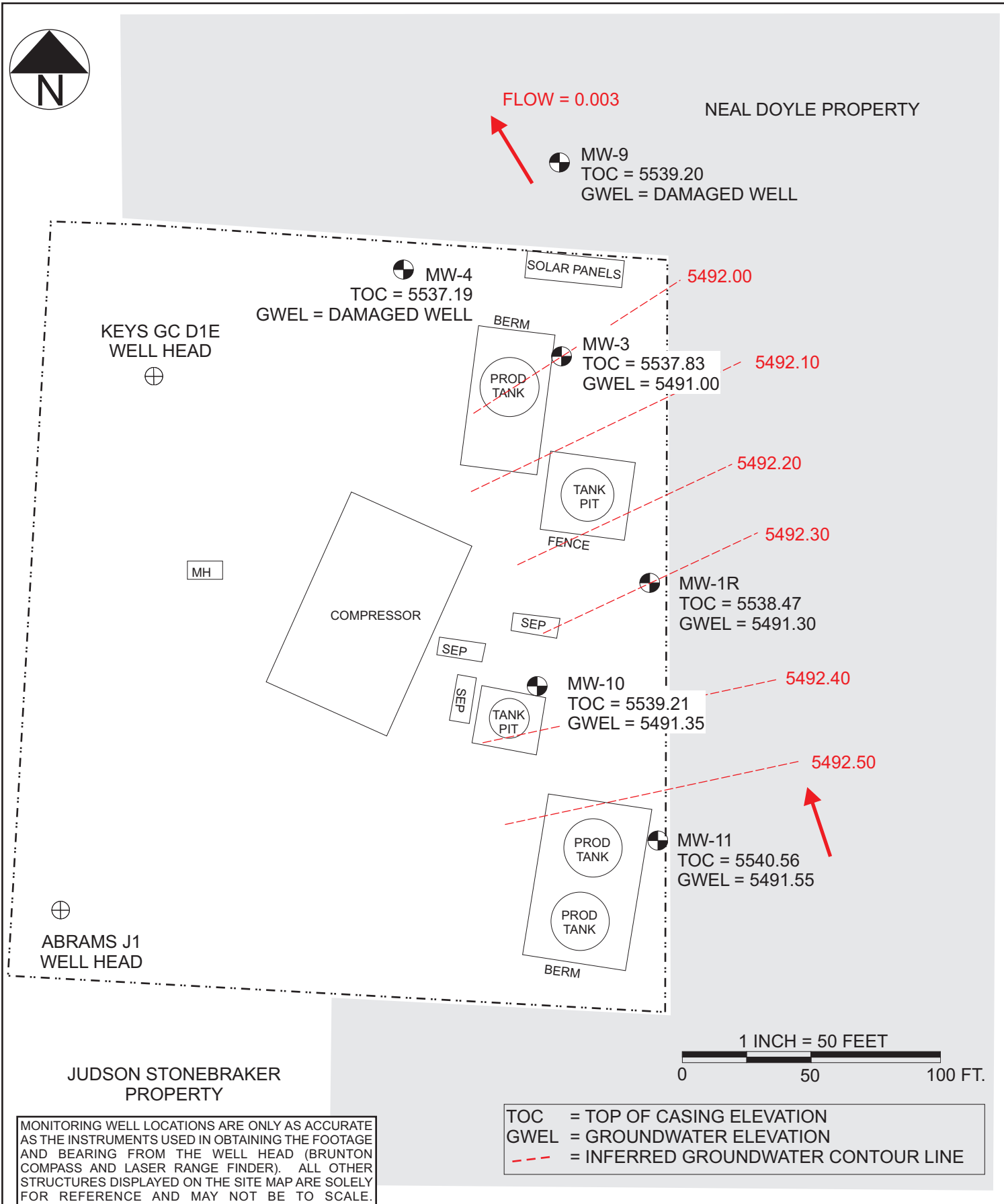
DRAWN BY: NJV

FILENAME: 08-02-99-SM

REVISED: 11/14/05 NJV

**SITE
MAP**

08/02



Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

ABRAMS J #1
NE/4 SE/4 SEC. 29, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 01/04/2007

FIGURE 2
GROUNDWATER GRADIENT
MAP
08/28/2006



FLOW = 0.011

NEAL DOYLE
PROPERTY

MW-9
TOC = 5539.20
GWEL = 5491.67

5491.70

5491.80

5491.90

5492.00

5492.10

5492.20

5492.30

KEYS GC D1E
WELL HEAD

MW-4
TOC = 5537.19
GWEL = DAMAGED WELL

SOLAR PANELS

BERM

MW-3
TOC = 5537.83
GWEL = 5491.90

PROD
TANK

TANK
PIT

FENCE

MH

COMPRESSOR

SEP

SEP

MW-10
TOC = 5539.21
GWEL = 5492.29

TANK
PIT

MW-1R
TOC = 5538.47
GWEL = 5492.23

MW-11
TOC = 5540.56
GWEL = 5492.34

BERM

ABRAMS J1
WELL HEAD

JUDSON STONEBRAKER
PROPERTY

1 INCH = 50 FEET

0 50 100 FT.

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

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

Lodestar Services, Inc
PO Box 3861
Farmington, NM 87499

ABRAMS J #1
NE/4 SE/4 SEC. 29, T29N, R10W
SAN JUAN COUNTY, NEW MEXICO

PROJECT: XTO GROUND WATER
DRAWN BY: ALA
REVISED: 01/04/2007

FIGURE 3
GROUNDWATER GRADIENT
MAP
11/28/2006

FIGURE 4

BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

LOCATION NAME: **ABRAMS J # 1**
CLIENT: **AMOCO PRODUCTION COMPANY**
CONTRACTOR: **BLAGG ENGINEERING, INC. / ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG - CME 75**
BORING LOCATION: **N35E, 420 FEET FROM WELL HEAD.**

BORING #..... **BH-35**
MW #..... **8R**
PAGE #..... **1**
DATE STARTED **3/31/97**
DATE FINISHED **3/31/97**
OPERATOR..... **BB**
PREPARED BY **NJV**

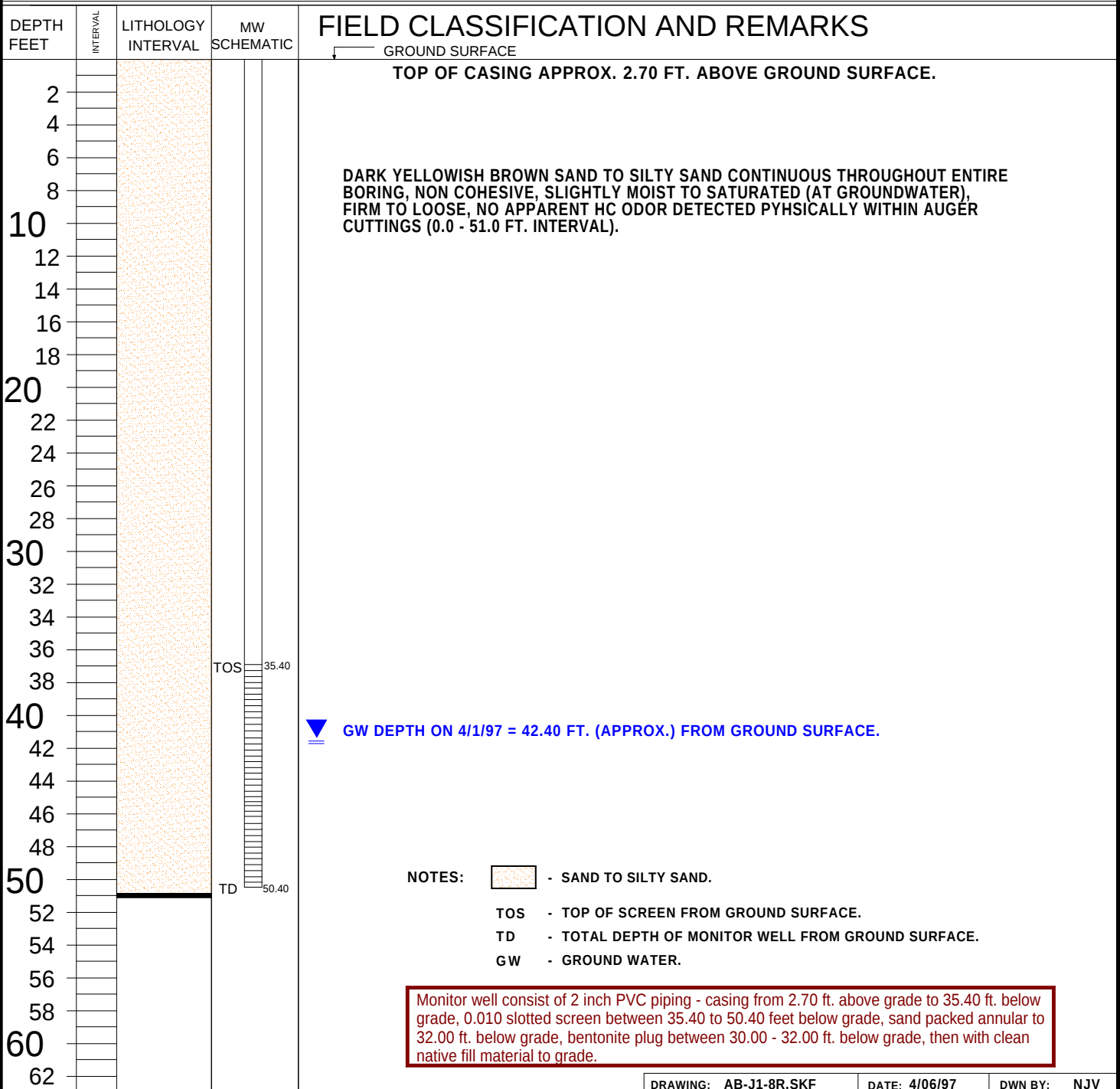


FIGURE 5
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

LOCATION NAME: **ABRAMS J # 1**
CLIENT: **CROSS TIMBERS OIL COMPANY**
CONTRACTOR: **BLAGG ENGINEERING, INC. / ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG - CME 75**
BORING LOCATION: **N59.5E, 261 FEET FROM WELL HEAD.**

BORING #..... **BH-36**
MW #..... **1R**
PAGE #..... **2**
DATE STARTED **8/23/01**
DATE FINISHED **8/23/01**
OPERATOR..... **KP**
PREPARED BY **NJV**

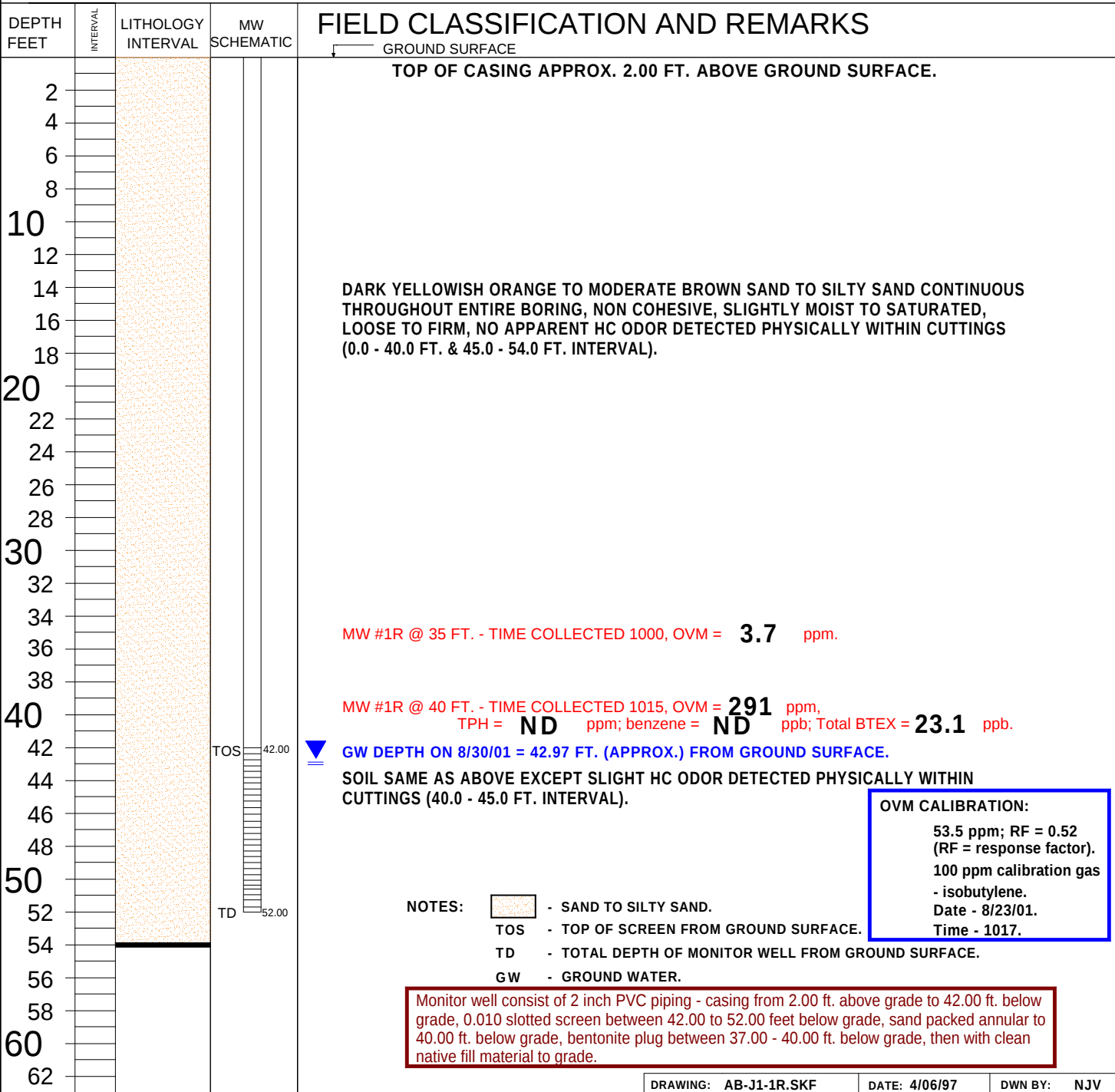


FIGURE 6

BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY, INC.**
LOCATION NAME: **ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **EARTHPROBE 200**
BORING LOCATION: **4 FEET, NORTH FROM AS-5 (SEE SITE MAP).**

BORING #..... **BH - B1**
MW #..... **-**
PAGE #..... **3**
DATE STARTED **8/22/02**
DATE FINISHED **8/22/02**
OPERATOR..... **JCB**
PREPARED BY **NJV**

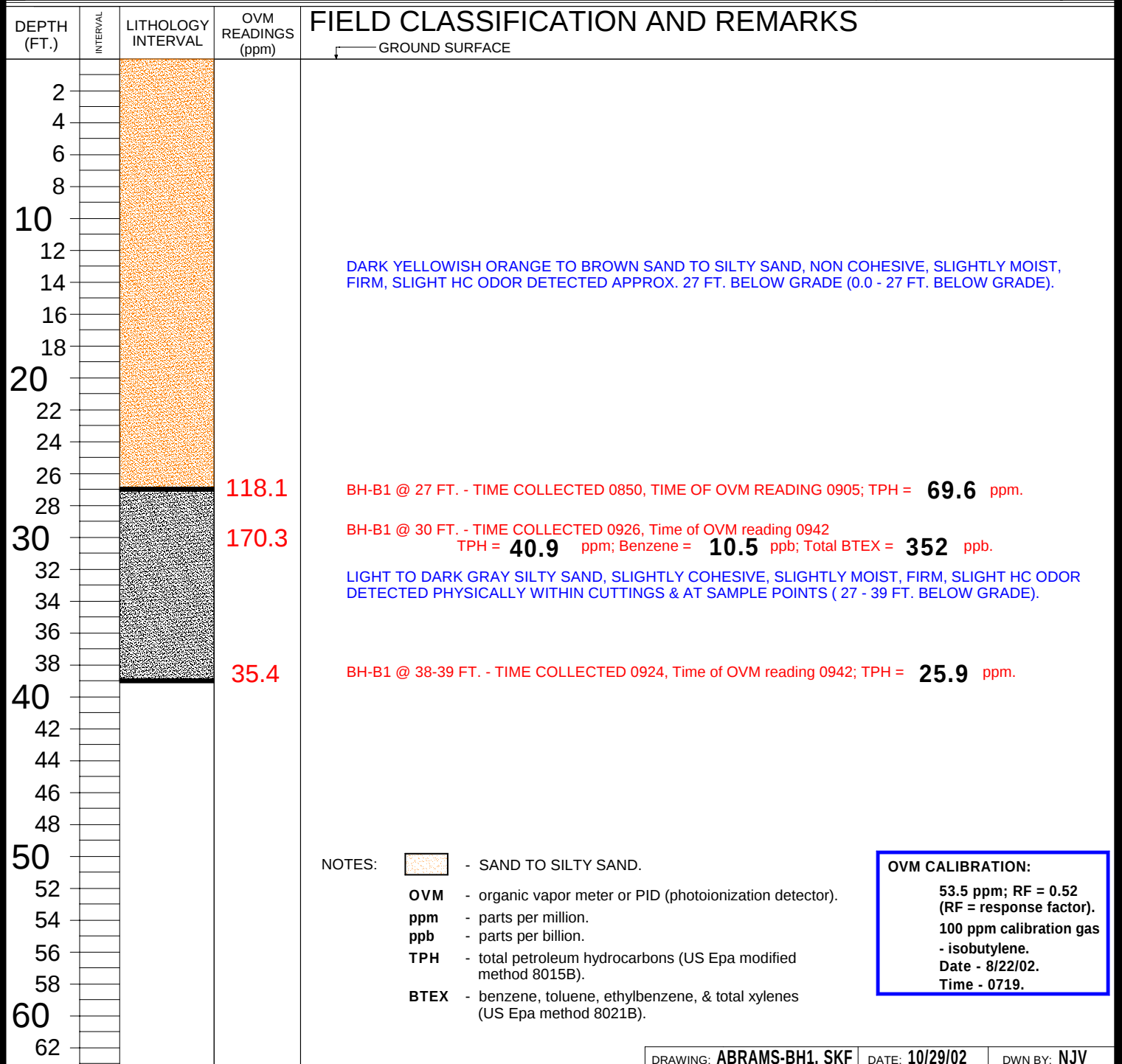


FIGURE 7
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY, INC.**
LOCATION NAME: **ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **EARTHPROBE 200**
BORING LOCATION: **10 FEET, SSE FROM AS-12 (SEE SITE MAP).**

BORING #..... **BH - B2**
MW #..... **-**
PAGE #..... **4**
DATE STARTED **8/22/02**
DATE FINISHED **8/22/02**
OPERATOR..... **JCB**
PREPARED BY **NJV**

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	OVM READINGS (ppm)	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				DARK YELLOWISH ORANGE SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY THROUGHOUT ENTIRE BORING (0.0 - 39 FT. BELOW GRADE).
22				
24				
26				
28				
30				
32				
34				
36				
38				
40			8.5	BH-B2 @ 35 FT. - TIME COLLECTED 1030, Time of OVM reading 1038; TPH = 42.2 ppm.
42				
44				
46				
48				
50				
52				
54				
56				
58				
60				
62				

NOTES:

-  - SAND TO SILTY SAND.
- OVM - organic vapor meter or PID (photoionization detector).
- ppm - parts per million.
- TPH - total petroleum hydrocarbons (US Epa modified method 8015B).

OVM CALIBRATION:

53.5 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 8/22/02.
Time - 0719.

FIGURE 8

BLAGG ENGINEERING, INC.

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

XTO ENERGY, INC.

LOCATION NAME:

ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W

CONTRACTOR:

ENVIROTECH, INC.

EQUIPMENT USED:

MOBILE DRILL RIG - CME 75

BORING LOCATION:

10.33 FEET, S81W FROM MW #10.

BORING #..... BH - B3

MW #..... -

PAGE #..... 3

DATE STARTED 12/21/05

DATE FINISHED 12/21/05

OPERATOR..... KP

PREPARED BY NJV

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	OVM READINGS (ppm)	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
2				DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED (0.0 - 5.0 FT. BELOW GRADE).
4				
6				
8				
10				DARK GRAY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST, FIRM, STRONG HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (5.0-15.0 FT. BELOW GRADE).
12				
14				DARK YELLOWISH BROWN PHASING INTO OLIVE GRAY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST, FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN SPLIT SPOON SAMPLE (15.0-17.0 FT. BELOW GRADE).
16			9.2	BH-B3 @ 16 FT. - TIME COLLECTED 0933, TIME OF OVM READING 1004.
18				
20			253	BH-B3 @ 21 FT. - TIME COLLECTED 0943, TIME OF OVM READING 1004.
22				DARK GRAY TO BLACK SAND, NON COHESIVE, MOIST TO WET, FIRM, STRONG HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS & FROM SPLIT SPOON SAMPLE POINT (17.0 - 27.0 FT. BELOW GRADE).
24				
26			585	BH-B3 @ 26 FT. - TIME COLLECTED 0950, TIME OF OVM READING 1004.
28				LIGHT TO DARK GRAY SAND TO SILTY SAND, NON TO SLIGHTLY COHESIVE, MOIST, FIRM TO STIFF, STRONG HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS & FROM SPLIT SPOON SAMPLE POINT (27.0 - 35.0 FT. BELOW GRADE).
30			981	BH-B3 @ 31 FT. - TIME COLLECTED 0959, TIME OF OVM READING 1004.
32				DARK GRAY SILTY CLAY TO CLAY, COHESIVE TO MEDIUM PLASTIC, MOIST, STIFF, STRONG HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS & FROM SPLIT SPOON SAMPLE POINT (35.0 - 37.0 FT. BELOW GRADE).
34				
36			1,114	BH-B3 @ 36 FT. - TIME COLLECTED 1024, Time of OVM reading 1044
38				TPH = ppm; Benzene = ppb; Total BTEX = ppb.
40			75.4	BH-B3 @ 41 FT. - TIME COLLECTED 1032, Time of OVM reading 1044; TPH = ppm.
42				LIGHT TO DARK GRAY SAND PHASING INTO OLIVE GRAY, NON COHESIVE, MOIST, FIRM, STRONG HC ODOR PHASING TO SLIGHT DETECTED PHYSICALLY WITHIN CUTTINGS & FROM SPLIT SPOON SAMPLE POINT (37.0 - 46.0 FT. BELOW GRADE).
44				
46			1.4	BH-B3 @ 46 FT. - TIME COLLECTED 1042, Time of OVM reading 1053; TPH = ppm.
48				DARK YELLOWISH BROWN SILTY CLAY, SLIGHTLY PLASTIC, WET, NO APPARENT HC ODOR DETECTED PHYSICALLY FROM SPLIT SPOON SAMPLE POINT (46.0 - 47.0 FT. BELOW GRADE).
50				
52				
54				
56				
58				
60				
62				

NOTES:



- SAND.



- SILTY SAND.



- SILTY CLAY TO CLAY.

OVM

- organic vapor meter or PID (photoionization detector).

ppm

- parts per million.

ppb

- parts per billion.

TPH

- total petroleum hydrocarbons (US Epa modified method 8015B).

BTEX

- benzene, toluene, ethylbenzene, & total xylenes (US Epa method 8021B).

Blow count for all split spoon samples ranged between 14-16.

OVM CALIBRATION:

54.5 ppm; RF = 0.52
(RF = response factor).

100 ppm calibration gas
- isobutylene.

Date - 12/21/05.

Time - 1003.

DRAWING: ABRAMS-BH3. SKF

DATE: 12/21/05

DWN BY: NJV

FIGURE 9

BLAGG ENGINEERING, INC.

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

XTO ENERGY, INC.

LOCATION NAME:

ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W

CONTRACTOR:

ENVIROTECH, INC.

EQUIPMENT USED:

MOBILE DRILL RIG - CME 75

BORING LOCATION:

5.5 FEET, **N73W** FROM MW #10.

BORING #..... BH - B4

MW #..... -

PAGE #..... 4

DATE STARTED 01/30/06

DATE FINISHED 01/30/06

OPERATOR..... KP

PREPARED BY NJV

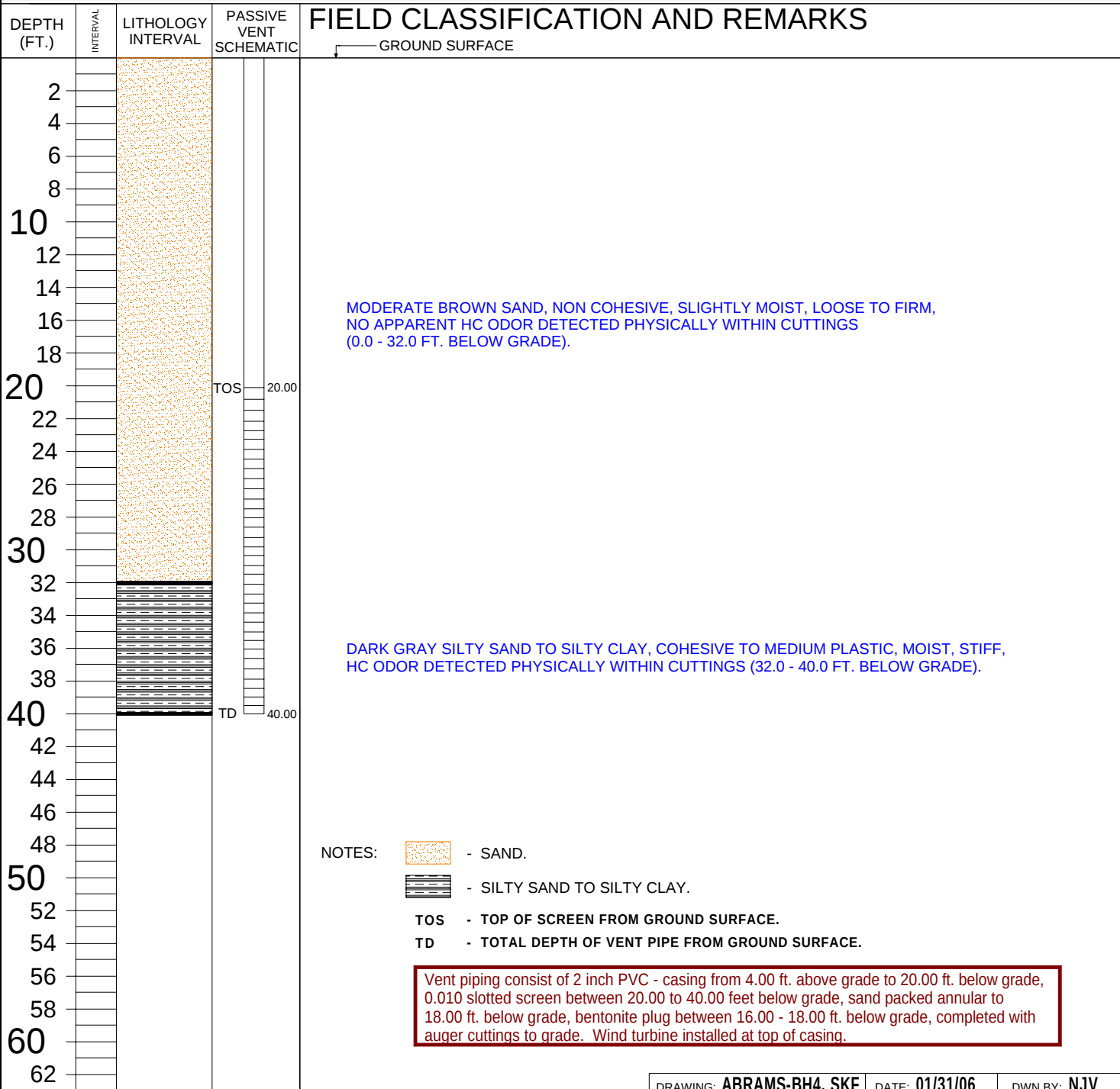


FIGURE 10

BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY, INC.**
LOCATION NAME: **ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W**
CONTRACTOR: **ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG - CME 75**
BORING LOCATION: **20.0 FEET, S25E FROM MW #10.**

BORING #..... **BH - B5**
MW #..... **-**
PAGE #..... **5**
DATE STARTED **01/30/06**
DATE FINISHED **01/30/06**
OPERATOR..... **KP**
PREPARED BY **NJV**

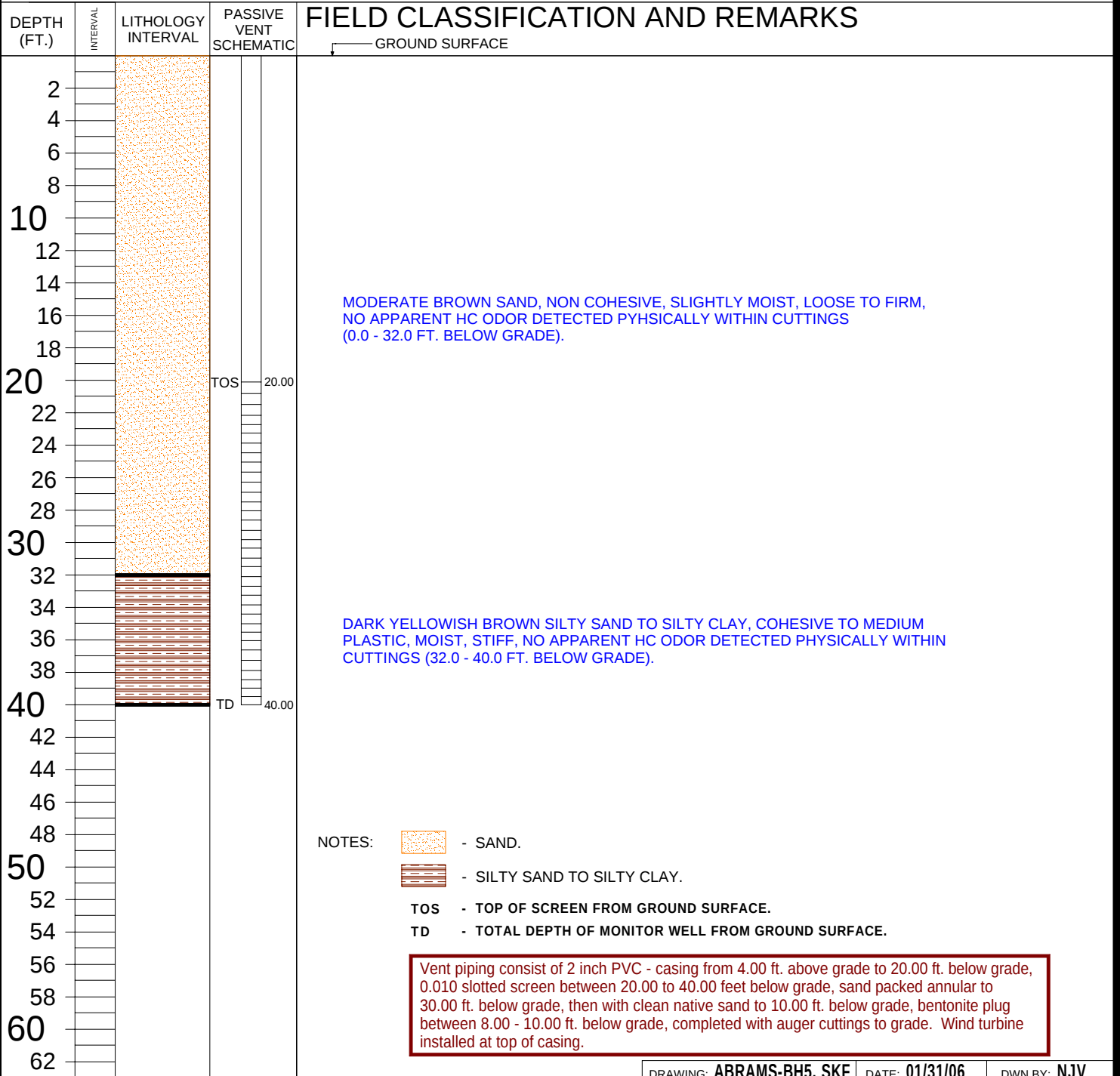


FIGURE 11

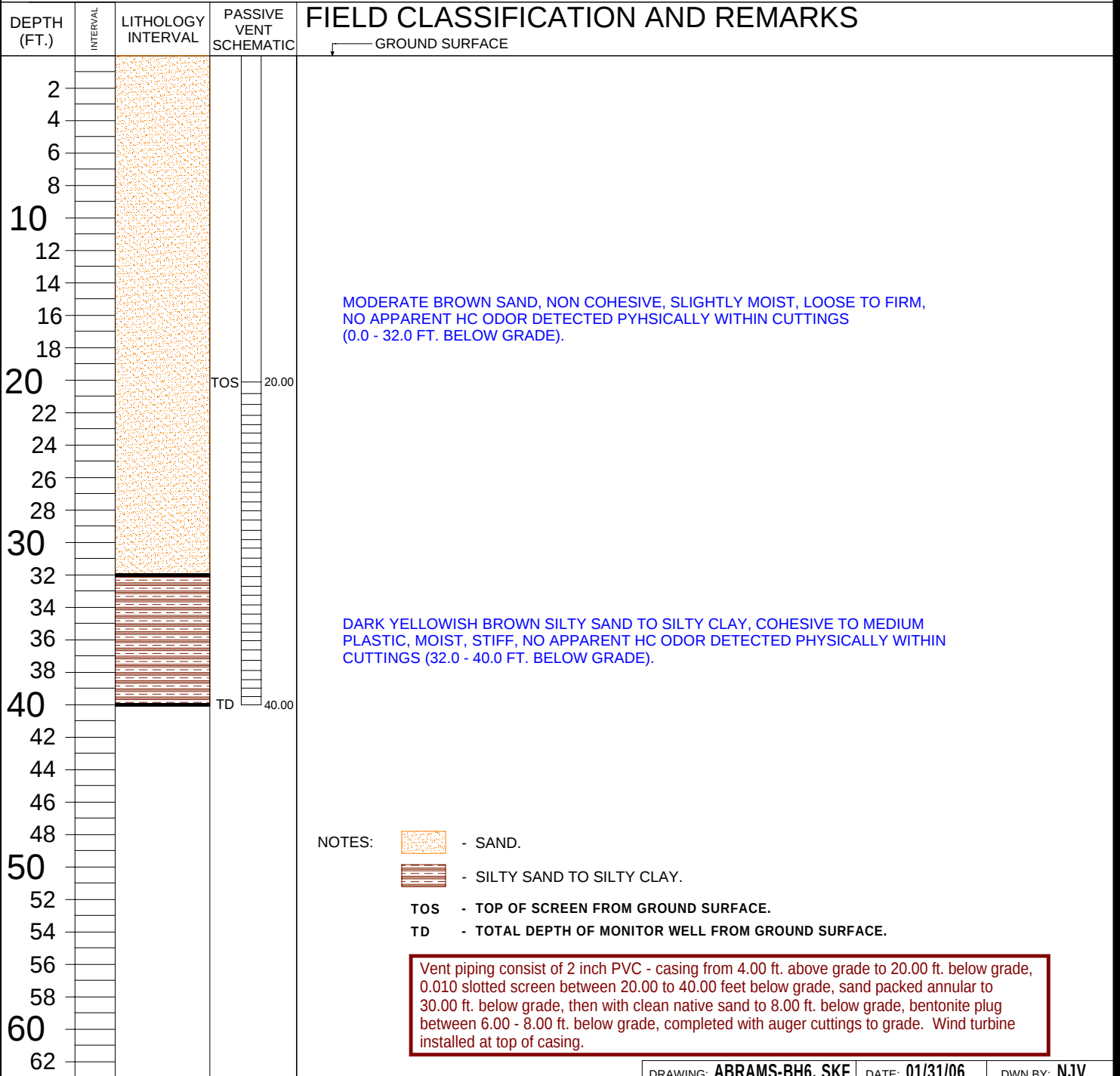
BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT: **XTO ENERGY, INC.**
LOCATION NAME: **ABRAMS J #1 UNIT I, SEC. 29, T29N, R10W**
CONTRACTOR: **ENVIROTECH, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG - CME 75**
BORING LOCATION: **32.0 FEET, S26.5W FROM MW #10.**

BORING #..... **BH - B6**
MW #..... **-**
PAGE #..... **6**
DATE STARTED **01/30/06**
DATE FINISHED **01/30/06**
OPERATOR..... **KP**
PREPARED BY **NJV**



Hall Environmental Analysis Laboratory

Date: 07-Mar-06

CLIENT: Blagg Engineering
Project: Abrams J # 1

Lab Order: 0602253

Lab ID:	0602253-01	Collection Date:	2/24/2006 3:50:00 PM
Client Sample ID:	MW #1R	Matrix:	AQUEOUS
Analyses	Result	PQL Qual Units	DF Date Analyzed
EPA METHOD 8021B: VOLATILES			
			Analyst: NSB
Benzene	ND	1.0 µg/L	1 3/4/2006 4:26:46 AM
Toluene	ND	1.0 µg/L	1 3/4/2006 4:26:46 AM
Ethylbenzene	ND	1.0 µg/L	1 3/4/2006 4:26:46 AM
Xylenes, Total	ND	3.0 µg/L	1 3/4/2006 4:26:46 AM
Surr: 4-Bromofluorobenzene	101	82.2-119 %REC	1 3/4/2006 4:26:46 AM

Lab ID:	0602253-02	Collection Date:	2/24/2006 3:30:00 PM
Client Sample ID:	MW #3	Matrix:	AQUEOUS
Analyses	Result	PQL Qual Units	DF Date Analyzed
EPA METHOD 8021B: VOLATILES			
			Analyst: NSB
Benzene	ND	1.0 µg/L	1 3/4/2006 4:54:41 AM
Toluene	ND	1.0 µg/L	1 3/4/2006 4:54:41 AM
Ethylbenzene	ND	1.0 µg/L	1 3/4/2006 4:54:41 AM
Xylenes, Total	ND	3.0 µg/L	1 3/4/2006 4:54:41 AM
Surr: 4-Bromofluorobenzene	109	82.2-119 %REC	1 3/4/2006 4:54:41 AM

Lab ID:	0602253-03	Collection Date:	2/24/2006 3:40:00 PM
Client Sample ID:	MW #4	Matrix:	AQUEOUS
Analyses	Result	PQL Qual Units	DF Date Analyzed
EPA METHOD 8021B: VOLATILES			
			Analyst: NSB
Benzene	ND	1.0 µg/L	1 3/4/2006 5:22:34 AM
Toluene	ND	1.0 µg/L	1 3/4/2006 5:22:34 AM
Ethylbenzene	ND	1.0 µg/L	1 3/4/2006 5:22:34 AM
Xylenes, Total	ND	3.0 µg/L	1 3/4/2006 5:22:34 AM
Surr: 4-Bromofluorobenzene	102	82.2-119 %REC	1 3/4/2006 5:22:34 AM

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

Hall Environmental Analysis Laboratory

Date: 07-Mar-06

CLIENT: Blagg Engineering
Project: Abrams J # 1

Lab Order: 0602253

Lab ID: 0602253-04

Collection Date: 2/24/2006 4:50:00 PM

Client Sample ID: MW #10

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	3/4/2006 5:50:22 AM
Toluene	ND	1.0		µg/L	1	3/4/2006 5:50:22 AM
Ethylbenzene	ND	1.0		µg/L	1	3/4/2006 5:50:22 AM
Xylenes, Total	ND	3.0		µg/L	1	3/4/2006 5:50:22 AM
Surr: 4-Bromofluorobenzene	102	82.2-119		%REC	1	3/4/2006 5:50:22 AM

Lab ID: 0602253-05

Collection Date: 2/24/2006 4:55:00 PM

Client Sample ID: MW #11

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	3/4/2006 6:18:19 AM
Toluene	ND	1.0		µg/L	1	3/4/2006 6:18:19 AM
Ethylbenzene	ND	1.0		µg/L	1	3/4/2006 6:18:19 AM
Xylenes, Total	ND	3.0		µg/L	1	3/4/2006 6:18:19 AM
Surr: 4-Bromofluorobenzene	101	82.2-119		%REC	1	3/4/2006 6:18:19 AM

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

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

CLIENT: Blagg Engineering

Work Order: 0602253

Project: Abrams J # 1

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021BTEX_W

Sample ID: 5ML RB	SampleType: MBLK	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18480						
Client ID: ZZZZZ	Batch ID: R18480	TestNo: SW8021		Analysis Date: 3/3/2006	SeqNo: 456368						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene ND 1.0

Toluene ND 1.0

Ethylbenzene ND 1.0

Xylenes, Total ND 3.0

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: 8021BTEX_W	Units: µg/L	Prep Date:	RunNo: 18480						
Client ID: ZZZZZ	Batch ID: R18480	TestNo: SW8021		Analysis Date: 3/4/2006	SeqNo: 456369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 20.14

Toluene 20.49

Ethylbenzene 20.28

Xylenes, Total 41.45

1.0 101 88.5 114

1.0 102 87.2 114

1.0 101 88.6 113

3.0 104 83.3 114

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting LimitH Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limitsJ Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

2/27/2006

Work Order Number **0602253**

Received by **LMM**

Checklist completed by

Lise Hedrick
Signature

2/27/06
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?

4°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

Hall Environmental Analysis Laboratory

Date: 06-Jun-06

CLIENT: Blagg Engineering
Project: Abrams J # 1

Lab Order: 0605331

Lab ID: 0605331-01

Collection Date: 5/31/2006 6:20:00 AM

Client Sample ID: MW #1R

Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	6/6/2006 1:18:15 AM
Toluene	ND	1.0		µg/L	1	6/6/2006 1:18:15 AM
Ethylbenzene	ND	1.0		µg/L	1	6/6/2006 1:18:15 AM
Xylenes, Total	ND	3.0		µg/L	1	6/6/2006 1:18:15 AM
Surr: 4-Bromofluorobenzene	103	85-115		%REC	1	6/6/2006 1:18:15 AM

Lab ID: 0605331-02

Collection Date: 5/30/2006 3:08:00 PM

Client Sample ID: MW #3

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	6/6/2006 1:47:24 AM
Toluene	ND	1.0		µg/L	1	6/6/2006 1:47:24 AM
Ethylbenzene	ND	1.0		µg/L	1	6/6/2006 1:47:24 AM
Xylenes, Total	ND	3.0		µg/L	1	6/6/2006 1:47:24 AM
Surr: 4-Bromofluorobenzene	97.0	85-115		%REC	1	6/6/2006 1:47:24 AM

Lab ID: 0605331-03

Collection Date: 5/31/2006 6:30:00 AM

Client Sample ID: MW #10

Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	6/6/2006 2:16:33 AM
Toluene	ND	1.0		µg/L	1	6/6/2006 2:16:33 AM
Ethylbenzene	ND	1.0		µg/L	1	6/6/2006 2:16:33 AM
Xylenes, Total	ND	3.0		µg/L	1	6/6/2006 2:16:33 AM
Surr: 4-Bromofluorobenzene	94.3	85-115		%REC	1	6/6/2006 2:16:33 AM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory

Date: 06-Jun-06

CLIENT: Blagg Engineering
Project: Abrams J # 1

Lab Order: 0605331

Lab ID: 0605331-04

Collection Date: 5/31/2006 6:50:00 AM

Client Sample ID: MW #11

Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	6/6/2006 2:45:42 AM
Toluene	ND	1.0		µg/L	1	6/6/2006 2:45:42 AM
Ethylbenzene	ND	1.0		µg/L	1	6/6/2006 2:45:42 AM
Xylenes, Total	ND	3.0		µg/L	1	6/6/2006 2:45:42 AM
Surr: 4-Bromofluorobenzene	91.7	85-115		%REC	1	6/6/2006 2:45:42 AM

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

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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Abrams J # 1

Work Order: 0605331

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

Method: SW8021

Batch ID: R19502

Sample ID: 5ML RB

MBLK

Analysis Date: 6/5/2006

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

Sample ID: 100NG BTEX LCS

LCS

Analysis Date: 6/5/2006

Benzene	21.77	µg/L	1.0	109	85	115
Toluene	20.17	µg/L	1.0	101	85	118
Ethylbenzene	21.08	µg/L	1.0	105	85	116
Xylenes, Total	64.31	µg/L	3.0	107	85	119

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

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

5/31/2006

Work Order Number **0605331**

Received by **LMM**

Checklist completed by

Lisa Hederhous
Signature

5/31/06
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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4901
www.hallenvironmental.com

Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Project #:

No

Project Manager:

Sampler: *NV*

Sample Temperature: 3°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					HgCl ₂	HNO ₃	
5/31/06	0620	WATER	MW #1R	2-40 ml	✓		06-5331 -1
5/31/06	1508	WATER	MW #3	2-40 ml	✓		-2
7/31/06	0630	WATER	MW #10	2-40 ml	✓		-3
5/31/06	0650	WATER	MW #11	2-40 ml	✓		-4

Date: 5/31/06	Time: 0715	Relinquished By: (Signature) <i>John M</i>	Received By: (Signature) <i>John M</i> 1600
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

ANALYSIS REQUEST

[illegible]

Remarks:

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-06

CLIENT: XTO Energy
 Project: Groundwater
 Lab Order: 0609027

Lab ID: 0609027-01
 Client Sample ID: Abrams J#1 MW-11
 Collection Date: 8/28/2006 11:50:00 AM
 Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/7/2006 7:34:09 PM
Toluene	ND	1.0		µg/L	1	9/7/2006 7:34:09 PM
Ethylbenzene	ND	1.0		µg/L	1	9/7/2006 7:34:09 PM
Xylenes, Total	ND	3.0		µg/L	1	9/7/2006 7:34:09 PM
Surr: 4-Bromofluorobenzene	99.0	72.2-125		%REC	1	9/7/2006 7:34:09 PM

Lab ID: 0609027-02
 Client Sample ID: Abrams J#1 MW-10
 Collection Date: 8/28/2006 11:55:00 AM
 Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/7/2006 8:03:08 PM
Toluene	ND	1.0		µg/L	1	9/7/2006 8:03:08 PM
Ethylbenzene	ND	1.0		µg/L	1	9/7/2006 8:03:08 PM
Xylenes, Total	ND	3.0		µg/L	1	9/7/2006 8:03:08 PM
Surr: 4-Bromofluorobenzene	96.8	72.2-125		%REC	1	9/7/2006 8:03:08 PM

Lab ID: 0609027-03
 Client Sample ID: Abrams J#1 MW-1R
 Collection Date: 8/28/2006 9:46:00 AM
 Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	9/7/2006 8:32:10 PM
Toluene	ND	1.0		µg/L	1	9/7/2006 8:32:10 PM
Ethylbenzene	ND	1.0		µg/L	1	9/7/2006 8:32:10 PM
Xylenes, Total	ND	3.0		µg/L	1	9/7/2006 8:32:10 PM
Surr: 4-Bromofluorobenzene	98.6	72.2-125		%REC	1	9/7/2006 8:32:10 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-06

CLIENT: XTO Energy
Project: Groundwater
Lab Order: 0609027

Lab ID: 0609027-04
Client Sample ID: Abrams J#1 MW-3
Collection Date: 8/28/2006 10:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/7/2006 9:01:00 PM
Toluene	ND	1.0		µg/L	1	9/7/2006 9:01:00 PM
Ethylbenzene	ND	1.0		µg/L	1	9/7/2006 9:01:00 PM
Xylenes, Total	ND	3.0		µg/L	1	9/7/2006 9:01:00 PM
Surr: 4-Bromofluorobenzene	100	72.2-125		%REC	1	9/7/2006 9:01:00 PM

Lab ID: 0609027-05
Client Sample ID: Abrams J#1 MW-4
Collection Date: 8/28/2006 11:20:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	10		µg/L	10	9/7/2006 11:28:29 PM
Toluene	ND	10		µg/L	10	9/7/2006 11:28:29 PM
Ethylbenzene	ND	10		µg/L	10	9/7/2006 11:28:29 PM
Xylenes, Total	ND	30		µg/L	10	9/7/2006 11:28:29 PM
Surr: 4-Bromofluorobenzene	91.0	72.2-125		%REC	10	9/7/2006 11:28:29 PM

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

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Groundwater

Work Order: 0609027

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

Sample ID: 5ML REAGENT BLA

MBLK

Batch ID: R20595 Analysis Date: 9/7/2006 8:27:12 AM

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

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R20595 Analysis Date: 9/7/2006 9:30:01 PM

Benzene	20.90	µg/L	1.0	105	85	115
Toluene	21.21	µg/L	1.0	106	85	118
Ethylbenzene	22.41	µg/L	1.0	112	85	116
Xylenes, Total	66.15	µg/L	3.0	110	85	119

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R20595 Analysis Date: 9/7/2006 9:58:56 PM

Benzene	20.99	µg/L	1.0	105	85	115	0.430	27
Toluene	21.54	µg/L	1.0	108	85	118	1.54	19
Ethylbenzene	22.89	µg/L	1.0	114	85	116	2.11	10
Xylenes, Total	67.08	µg/L	3.0	112	85	119	1.39	13

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	Spiked Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date and Time Received:

9/1/2006

Work Order Number 0609027

Received by AMF

Checklist completed by

Signature

Date

9/1/06

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

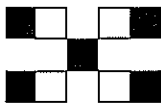
Regarding

Comments:

Corrective Action

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenviromental.com



ANALYSIS REQUEST

[illegible]

Remarks:

CHAIN-OF-CUSTODY RECORD									
Client: <u>XTO Energy</u> <u>Kim Champlin</u>					QA/QC Package: Std ☒ Level 4 ☐				
Address: <u>2700 Farmington Ave</u> <u>Bldg K, Ste 1</u> <u>Farmington, NM</u>					Other: _____ Project Name: <u>Ground Water</u>				
					Project #: _____				
					Project Manager: <u>Lisa Winn</u>				
Phone #: <u>505-566-7754</u>					Sampler: <u>MJN</u>				
Fax #: _____					Sample Temperature: _____				
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.	
					HgCl ₂	HNO ₃	HCl		
<u>08-28-06</u>	<u>11:50</u>	<u>GW</u>	<u>Abrams J #1 MW-11</u>				☒	<u>0609027-1</u>	
<u>08-28-06</u>	<u>11:55</u>	<u>GW</u>	<u>Abrams J #1 MW-10</u>				☒	<u>-2</u>	
<u>08-28-06</u>	<u>09:46</u>	<u>GW</u>	<u>Abrams J #1 MW-1R</u>				☒	<u>-3</u>	
<u>08-28-06</u>	<u>10:30</u>	<u>GW</u>	<u>Abrams J #1 MW-3</u>				☒	<u>-4</u>	
<u>08-28-06</u>	<u>11:20</u>	<u>GW</u>	<u>Abrams J #1 MW-24</u>				☒	<u>-5</u>	
Date:	Time:	Relinquished By: (Signature)			Received By: (Signature)				
<u>08-28-06</u>	<u>11:00</u>	<u>[Signature]</u>			<u>[Signature]</u>			<u>9/1/06</u>	
Date:	Time:	Relinquished By: (Signature)			Received By: (Signature)				
<u>09-01-06</u>	<u>0900</u>	<u>[Signature]</u>			<u>[Signature]</u>			<u>9/1/06</u> <u>14:35</u>	

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Sep-06

CLIENT:	XTO Energy	Client Sample ID:	Abrams J1 MW-9
Lab Order:	0609026	Collection Date:	8/31/2006 9:05:00 AM
Project:	Groundwater	Date Received:	9/1/2006
Lab ID:	0609026-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	ND	1.0		µg/L	1	9/12/2006 4:28:38 AM
Toluene	ND	1.0		µg/L	1	9/12/2006 4:28:38 AM
Ethylbenzene	ND	1.0		µg/L	1	9/12/2006 4:28:38 AM
Xylenes, Total	ND	3.0		µg/L	1	9/12/2006 4:28:38 AM
Surr: 4-Bromofluorobenzene	103	72.2-125		%REC	1	9/12/2006 4:28:38 AM

Analyst: NSB

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	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: 0609026

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB-II		MBLK							
			Batch ID: R20623				Analysis Date:		9/9/2006 11:16:28 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: B		MBLK							
			Batch ID: R20635				Analysis Date:		9/11/2006 9:42:11 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS-II		LCS							
			Batch ID: R20623				Analysis Date:		9/9/2006 11:45:28 AM
Benzene	21.27	µg/L	1.0	106	85	115			
Toluene	19.28	µg/L	1.0	96.4	85	118			
Ethylbenzene	20.93	µg/L	1.0	105	85	116			
Xylenes, Total	56.71	µg/L	3.0	94.5	85	119			
Sample ID: 100NG BTEX LCS		LCS							
			Batch ID: R20635				Analysis Date:		9/12/2006 2:32:50 AM
Benzene	20.75	µg/L	1.0	104	85	115			
Toluene	21.08	µg/L	1.0	105	85	118			
Ethylbenzene	23.36	µg/L	1.0	117	85	116			S
Xylenes, Total	67.72	µg/L	3.0	110	85	119			
Sample ID: 100NG BTEX LCSD-I		LCSD							
			Batch ID: R20623				Analysis Date:		9/9/2006 12:14:18 PM
Benzene	21.25	µg/L	1.0	106	85	115	0.0847	27	
Toluene	19.44	µg/L	1.0	97.2	85	118	0.827	19	
Ethylbenzene	19.92	µg/L	1.0	99.6	85	116	4.95	10	
Xylenes, Total	58.07	µg/L	3.0	96.8	85	119	2.38	13	

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 and Time Received:

9/1/2006

Work Order Number 0609026

Received by AMF

Checklist completed by

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?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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www.hallenvironmental.com

[illegible]

Hall Environmental Analysis Laboratory, Inc.

Date: 11-Dec-06

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0611366

Lab ID: 0611366-01
Client Sample ID: Abrams J1 MW-11

Collection Date: 11/28/2006 1:38:00 PM
Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/4/2006 3:10:32 PM
Toluene	ND	1.0		µg/L	1	12/4/2006 3:10:32 PM
Ethylbenzene	ND	1.0		µg/L	1	12/4/2006 3:10:32 PM
Xylenes, Total	ND	3.0		µg/L	1	12/4/2006 3:10:32 PM
Surr: 4-Bromofluorobenzene	82.3	70.2-105		%REC	1	12/4/2006 3:10:32 PM

Lab ID: 0611366-02
Client Sample ID: Abrams J1 MW-10

Collection Date: 11/28/2006 1:42:00 PM
Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 8:28:25 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 8:28:25 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 8:28:25 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 8:28:25 PM
Surr: 4-Bromofluorobenzene	81.8	70.2-105		%REC	1	12/1/2006 8:28:25 PM

Lab ID: 0611366-03
Client Sample ID: Abrams J1 MW-1R

Collection Date: 11/28/2006 1:45:00 PM
Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 8:58:27 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 8:58:27 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 8:58:27 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 8:58:27 PM
Surr: 4-Bromofluorobenzene	84.5	70.2-105		%REC	1	12/1/2006 8:58:27 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

Date: 11-Dec-06

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0611366

Lab ID: 0611366-04
Client Sample ID: Abrams J1 MW-3

Collection Date: 11/28/2006 1:50:00 PM

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 9:28:25 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 9:28:25 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 9:28:25 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 9:28:25 PM
Surr: 4-Bromofluorobenzene	83.2	70.2-105		%REC	1	12/1/2006 9:28:25 PM

Lab ID: 0611366-05
Client Sample ID: Abrams J1 MW-4

Collection Date: 11/28/2006 1:56:00 PM

Matrix: AQUEOUS

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 9:58:25 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 9:58:25 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 9:58:25 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 9:58:25 PM
Surr: 4-Bromofluorobenzene	82.8	70.2-105		%REC	1	12/1/2006 9:58:25 PM

Lab ID: 0611366-06
Client Sample ID: Abrams J1 MW-9

Collection Date: 11/28/2006 2:02:00 PM

Matrix: AQUEOUS

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

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 10:28:23 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 10:28:23 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 10:28:23 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 10:28:23 PM
Surr: 4-Bromofluorobenzene	82.2	70.2-105		%REC	1	12/1/2006 10:28:23 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

Date: 11-Dec-06

CLIENT: XTO Energy
Project: Ground Water

Lab Order: 0611366

Lab ID: 0611366-07

Collection Date:

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

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

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	12/1/2006 10:58:27 PM
Toluene	ND	1.0		µg/L	1	12/1/2006 10:58:27 PM
Ethylbenzene	ND	1.0		µg/L	1	12/1/2006 10:58:27 PM
Xylenes, Total	ND	3.0		µg/L	1	12/1/2006 10:58:27 PM
Surr: 4-Bromofluorobenzene	82.9	70.2-105		%REC	1	12/1/2006 10:58:27 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: 0611366

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0611366-06A MSD		MSD			Batch ID: R21634	Analysis Date: 12/1/2006 11:58:37 PM			
Benzene	18.62	µg/L	1.0	93.1	85.9	113	2.41	27	
Toluene	18.36	µg/L	1.0	91.8	86.4	113	2.60	19	
Ethylbenzene	17.62	µg/L	1.0	88.1	83.5	118	2.16	10	
Xylenes, Total	53.39	µg/L	3.0	89.0	83.4	122	2.42	13	
Sample ID: 5ML RB-II		MBLK			Batch ID: R21634	Analysis Date: 12/1/2006 6:28:13 PM			
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: B		MBLK			Batch ID: R21651	Analysis Date: 12/4/2006 10:18:30 AM			
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS-II		LCS			Batch ID: R21634	Analysis Date: 12/1/2006 6:58:17 PM			
Benzene	20.09	µg/L	1.0	100	85.9	113			
Toluene	20.06	µg/L	1.0	100	86.4	113			
Ethylbenzene	18.80	µg/L	1.0	94.0	83.5	118			
Xylenes, Total	57.06	µg/L	3.0	95.1	83.4	122			
Sample ID: 100NG BTEX LCS		LCS			Batch ID: R21651	Analysis Date: 12/4/2006 10:24:45 PM			
Benzene	18.14	µg/L	1.0	90.7	85.9	113			
Toluene	17.86	µg/L	1.0	89.3	86.4	113			
Ethylbenzene	17.30	µg/L	1.0	86.5	83.5	118			
Xylenes, Total	52.11	µg/L	3.0	86.8	83.4	122			
Sample ID: 100NG BTEX LCSD		LCSD			Batch ID: R21651	Analysis Date: 12/4/2006 10:54:40 PM			
Benzene	18.02	µg/L	1.0	90.1	85.9	113	0.686	27	
Toluene	17.73	µg/L	1.0	88.7	86.4	113	0.719	19	
Ethylbenzene	17.17	µg/L	1.0	85.9	83.5	118	0.766	10	
Xylenes, Total	51.71	µg/L	3.0	86.2	83.4	122	0.774	13	
Sample ID: 0611366-06A MS		MS			Batch ID: R21634	Analysis Date: 12/1/2006 11:28:33 PM			
Benzene	19.07	µg/L	1.0	95.4	85.9	113			
Toluene	18.85	µg/L	1.0	94.2	86.4	113			
Ethylbenzene	18.00	µg/L	1.0	90.0	83.5	118			
Xylenes, Total	54.69	µg/L	3.0	91.2	83.4	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date and Time Received:

11/30/2006

Work Order Number 0611366

Received by GLS

Checklist completed by

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

Std ☒ Level 4 ☐

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4109
www.hallenvironmental.com

Abstract

al@lodestarservices.com

ANALYSIS REQUEST

[illegible]