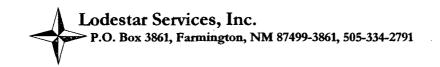
3R - 394

ANNUAL MONITORING REPORT

8/15/2006



August 15, 2006

Mr. Steve Austin Navajo Nation EPA PO Box 1999 Shiprock, NM 87420

CERTIFIED MAIL: 7004 1160 0007 4952 1517

RE: OH Randel #7

Dear Mr. Austin,

3R394

XTO Energy Inc. (XTO) has contracted Lodestar Services, Incorporated (Lodestar) to oversee groundwater monitoring and remedial activities at the OH Randel #7 natural gas production well. It has come to our attention that the well is located on land regulated by the Navajo Nation Environmental Protection Agency (NNEPA). Previous regulatory correspondence has been with the New Mexico Oil Conservation Division (NMOCD). An annual comprehensive report was submitted to the NMOCD in January 2006 and is included for your review.

The OH Randel #7 is located in Unit D of Section 16 of Township 26N, Range 11W, and includes a former oil-water-separator pit that may have affected shallow groundwater. Six groundwater monitoring wells were previously installed on the site to investigate groundwater quality. One of the wells, MW-6, contains free-phase hydrocarbons. Previously MW-1 and MW-2 contained free-phase hydrocarbons. MW-1 is located in the center of the former pit. MW-2 is directly adjacent to the pit, and MW-6 is located down gradient of the pit. The annual report included herein has several groundwater contour maps provided by Blagg Engineering that indicate varying groundwater flow directions. Navajo Agricultural Products Incorporated (NAPI) conducts irrigation adjacent to the site and may influence groundwater flow direction.

The following steps are proposed remove impacted soil and free-phase hydrocarbons:

- 1. Excavate affected soil associated with historical operations from the former pit. Impacted soil will be disposed at a local land farm permitted by the NMOCD. Soil headspace gas will be monitored with a photo-ionization detector (PID) to determine extent of impacted soil during excavation according to the NMOCD Guidelines for headspace analysis. Soil above 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons will be removed. Laboratory analyses of composite samples collected from the sidewalls of the excavation will be used to document that impacted soil has been removed.
- 2. Erect temporary fencing around the excavated site and remove impacted water and free-phase hydrocarbons from the pit.

Mr. Steve Austin August 15, 2006 Page 2 of 2

- 3. Once the free-phase hydrocarbons have been removed, backfill the excavation site with clean soil.
- 4. Replace groundwater-monitoring wells as necessary.
- 5. Install additional down gradient monitoring wells as necessary to characterize impacted groundwater.
- 6. Remove free phase hydrocarbons from groundwater, then sample groundwater-monitoring wells for benzene, toluene, ethylbenzene and total xylenes (BTEX) on a quarterly basis to monitor progress at the site.

Following completion of the above tasks, XTO will provide a letter report describing onsite activities and analytical results. XTO wishes to complete this work as soon as practical and will contact you to schedule activities. Should you have any questions or require additional information, please do not hesitate to contact Lisa Winn of XTO at (505) 324-1090 or you can call me at (505) 334 2791.

Sincerely,

LODESTAR SERVICES, INC

Martin Nee

Cc: Lisa Winn, XTO, w/o enclosures

Kim Champlin, XTO, w/o enclosures Ashley Ager, LSI, w/o enclosures

Glenn Von Gonten, NMOCD

File

Attachments: Annual Report

3R394

XTO ENERGY INC.

ANNUAL GROUNDWATER REMEDIATION REPORT

2005

O.H. RANDEL #7 (D) SECTION 15, T26N, R11W, NMPM SAN JUAN COUNTY, NEW MEXICO

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

JANUARY 2006

PREPARED BY: BLAGG ENGINEERING, INC.

Consulting Petroleum / Reclamation Services P.O. Box 87 Bloomfield, New Mexico 87413

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Field Sampling Data Summaries
Laboratory Reports
Pit Closure Documentation & NMOCD Correspondence Letter

XTO Energy Inc. O.H. Randel # 7 - Abandoned Separator Pit NW/4 NW/4 Sec. 15, T26N, R11W

Pit Closure Date:

3/12/02

Monitor Well Installation Dates:

3/22/02 (MW 1) 4/9/02 (MW 2, 3 & 4) 4/19/02 (MW 5 &6)

Monitor Well Sampling Dates:

4/24/02, 8/27/02, 10/8/02, 3/3/03, 6/18/03, 8/29/03,

6/21/04, 6/28/05

Historical Information:

- January 1998 XTO Energy Inc. (XTO) acquires the O. H. Randel #7 from Amoco Production Company.
- March 2002 Hydrocarbon impact to soil associated with an historical earthen separator pit was discovered.
- March & April 2002 Groundwater monitoring wells were installed (Figure 2).
 Groundwater was encountered at a depth of approximately 16 feet below ground surface.
 Phase separated hydrocarbons (PSH) were observed in monitoring wells MW 1 (source area), MW 2 and MW 6.
- April 2002 to Present Continued quarterly/annual monitor well sampling. Periodic removal of PSH included with sample events.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (MW) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed in laboratory supplied containers and stored in a cooler on ice. The samples were delivered to an accredited environmental laboratory according to chain-of-custody procedures. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8021B and general water chemistry per US EPA Method 600/4-79-020. Analytical results are summarized in Table 1. Waste generated (groundwater) during monitor well sampling and development was placed in the produced water separator tank located on the well site.

Water Quality and Gradient Information:

Groundwater elevation data indicates the groundwater surface is relatively flat with a variable gradient, but trending primarily to the southwest (Figures 4-7). In June 2003 the groundwater elevation data indicate a southeast direction. Groundwater may be influenced by irrigation of a field adjacent to the location. Additionally, it is possible the groundwater at this site is a perched water table due to the percolation of irrigation water from this field.

PSH was bailed off the water table from monitor wells MW1, MW2 and MW6. A total of approximately 22 gallons of product has been recovered to date, with some reduction in the thickness of product over time. Installation of groundwater monitoring wells and sampling was conducted to determine the extent of impact. It appears that monitor wells MW3 and MW4 adequately delineate the western and southern limits of groundwater impact. However the northern and eastern limits may not be fully defined.

Summary:

The O.H. Randel #7 is in a remote area (Figure 1) with no residences, water supply wells, surface water, utilities or known receptors within several miles. The presence of PSH indicates a need to address the source area(s) at the site. XTO proposes to excavate soil impacted by the former separator pit. Additional groundwater monitoring wells will be installed to further delineate hydrocarbon impact to groundwater.

TABLE 1

XTO ENERGY INC. GROUNDWATER LAB RESULTS

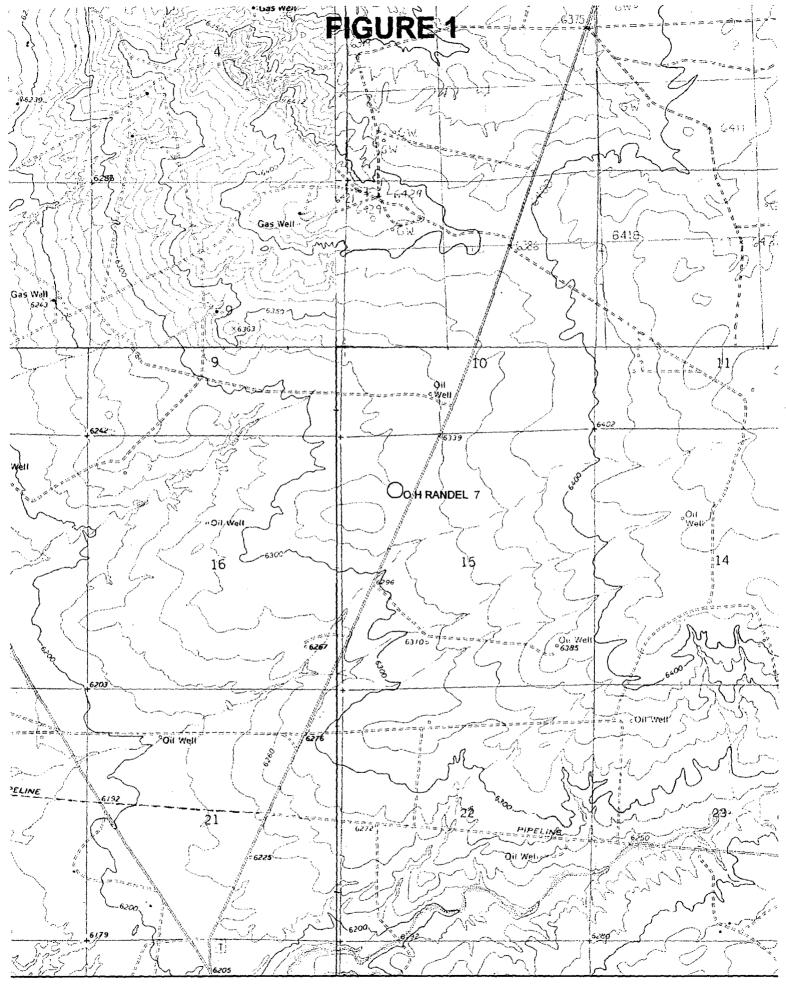
SUBMITTED BY BLAGG ENGINEERING, INC.

O. H. RANDEL #7 - SEP. PIT UNIT D, SEC. 15, T26N, R11W

REVISED DATE: JANUARY 18, 2006

FILENAME: (R7-2Q-05.WK4) NJV

SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	рН	PRODUCT	Benzene	Toluene	IOD 8021B (Ethyl	Total
DATE	WELL No:	(ft)	(ft)	(mg/L)	umhos	P. .	(ft)	201120110	70140110	Benzene	Xylene
			1			т	TT				
22-Apr-02	MW #1	16.63	22.22				0.33	NA	NA	NA	NA
24-Apr-02							0.58	NA	NA NA	NA	NA
27-Aug-02		16.49					0.30	NA	NA	NA	NA
08-Oct-02		16.16					0.37	NA	NA	NA	NA
23-May-03		16.04					0.31	NA	NA	NA	NA
28-May-03		15.99					0.18	NA	. NA	NA	NA
06-Jun-03		16.04					0.11	NA	NA	NA	NA
18-Jun-03		16.04					0.07	NA	NA	NA	NA
26-Jun-03		17.93					80.0	NA	NA	NA	NA
31-Jul-03		16.19					0.01	NA	NA	NA	NA
29-Aug-03		16.29					-	NA	NA	NA	NA
21-Jun-04		17.09					0.81	NA	NA	NA	NA
22-Apr-02	MW #2	18.32	24.60					NA	NA	NA	NA
24-Apr-02		18.38					0.03	NA	NA	NA	NA
27-Aug-02		19.86					0.94	NA	NA	NA	NA
08-Oct-02		18.02					0.52	NA	NA	NA	NA
23-May-03		17.83					0.53	NA	NA	NA	NA
28-May-03		17.78					0.16	NA	NA	NA	NA
06-Jun-03		17.83					0.12	NA	NA	NA	NA
18-Jun-03		17.88					0.09	NA	NA	NA	NA
26-Jun-03		16.09					0.04	NA	NA	NA	NA
31-Jul-03		15.86					-	NA	NA	NA	NA
29-Aug-03		15.99					-	NA	NA	NA	NA
21-Jun-04		16.83					0.73	NA	NA	NA	NA
22-Apr-02	MW #3	16.26	22.50					NA	NA	NA	NA
24-Apr-02		16.25			1,400	7.82		24	2.4	0.58	200
27-Aug-02		15.28			1,300	7.83		9.4	ND	ND	150
08-Oct-02		14.74						NA	NA	NA	NA
03-Mar-03		15.17			1,100	8.42		5.5	ND	ND	43
18-Jun-03		15.16			900	7.72		6.1	0.97	ND	43
29-Aug-03		15.39			1,400	7.58		3.2	0.53	ND	24
······			OCC GE	SOLINDA	VATER S		ARDS	10	750	750	620



Name: HUERFANO TRADING POST NW

Date: 1/18/2006

Cooler 4 inch agreela 2000 foot

Location: 036.4919018° N 107.9965265° W Caption: O.H. RANDEL #7



TO WELL HEAD

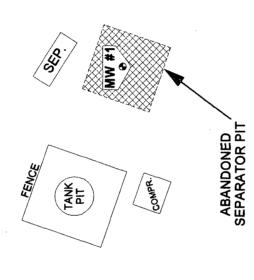
FIGURE 2

METER RUN

• MW #5

MW #3 @

MW #2



MW #4 @ PROD TANK TANK

9# MM •

1 INCH = 30 FT.

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
MAR ARE SOLELY FOR REFERENCE AND MAY NOT BE
TO SCALE.

XTO ENERGY INC.

O.H. RANDEL #7

NW/4 NW/4 SEC. 15, T26N, R11W, NMPM

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

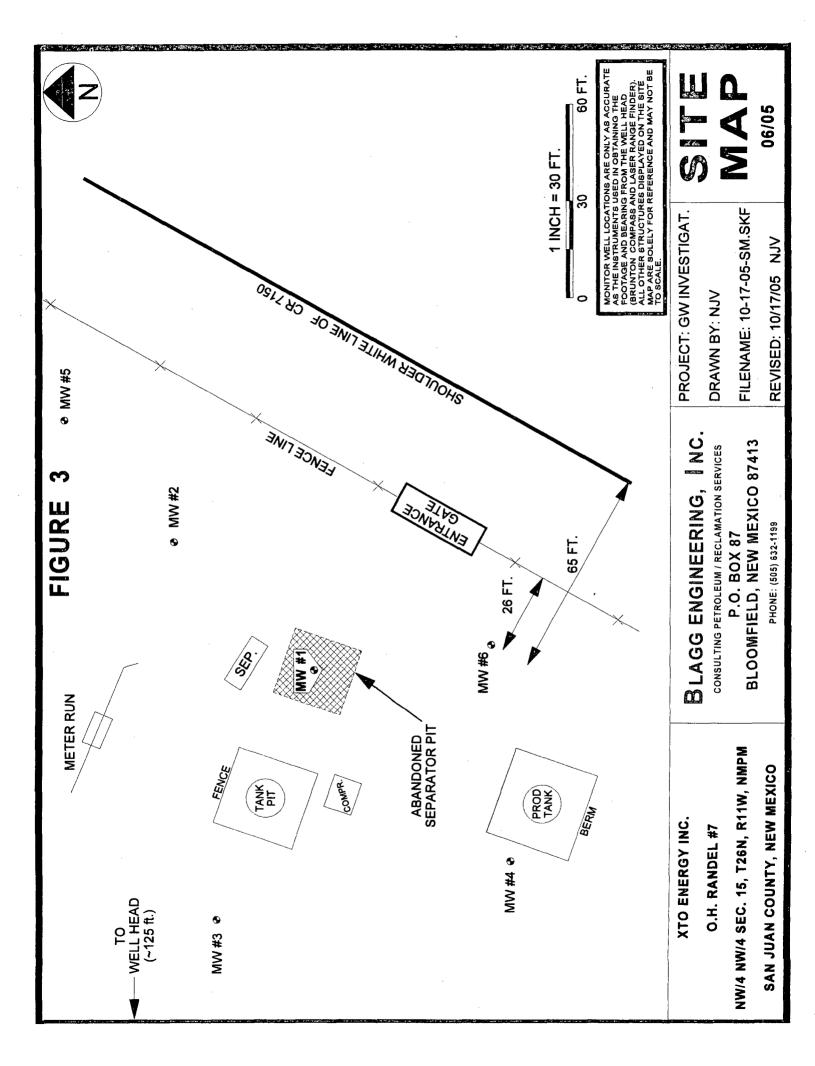
PROJECT: GW INVESTIGAT.

DRAWN BY: NJV

FILENAME: 06-18-03-SM.SKF

REVISED: 10/16/05 NJV

06/03

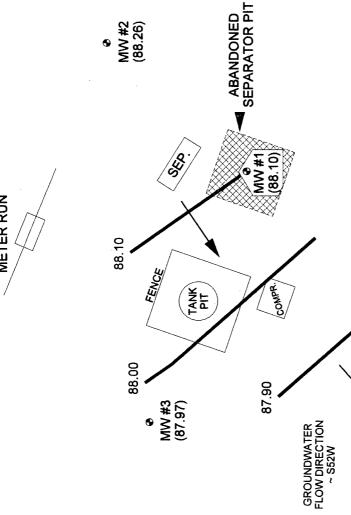


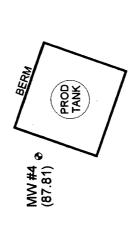


WELL HEAD

FIGURE







10	Top of Well Elevation	ation
MW #1		(104.74)
MW #2		(106.90)
MW #3		(105.56)
MW #4		(105.86)
MW#1 (88.10)	Groundwai as of 0	Groundwater Elevation as of 04/11/02.

XTO ENERGY INC.

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

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE

60 FT.

1 INCH = 30 FT.

O.H. RANDEL #7

NW/4 NW/4 SEC. 15, T26N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 CONSULTING PETROLEUM / RECLAMATION SERVICES

PHONE: (505) 632-1199

PROJECT: GW INVESTIGAT. GROUNDWATER

DRAWN BY: NJV

FILENAME: 041102-GW1.SKF

REVISED: 10/17/05 NJV

04/11/02 MAP

CONTOUR

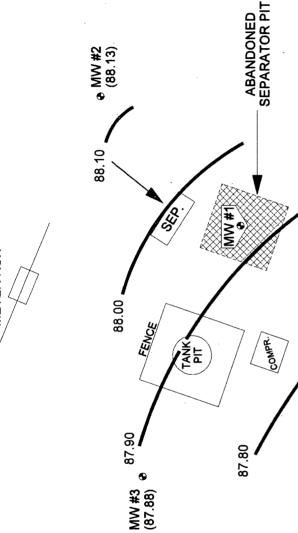


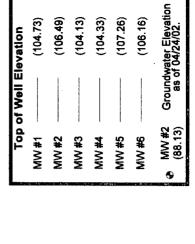


MW #5 (88.12)



WELL HEAD





MW #6 (87.84)

GROUNDWATER FLOW DIRECTION ~ S39W APPARENT

INCH = 30 FT.

PROD

MW #4 (87.67)

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE ructage 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. XTO ENERGY INC.

O.H. RANDEL #7

NW/4 NW/4 SEC. 15, T26N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES

BLOOMFIELD, NEW MEXICO 87413 P.O. BOX 87

PHONE: (505) 632-1199

PROJECT: GW INVESTIGAT.

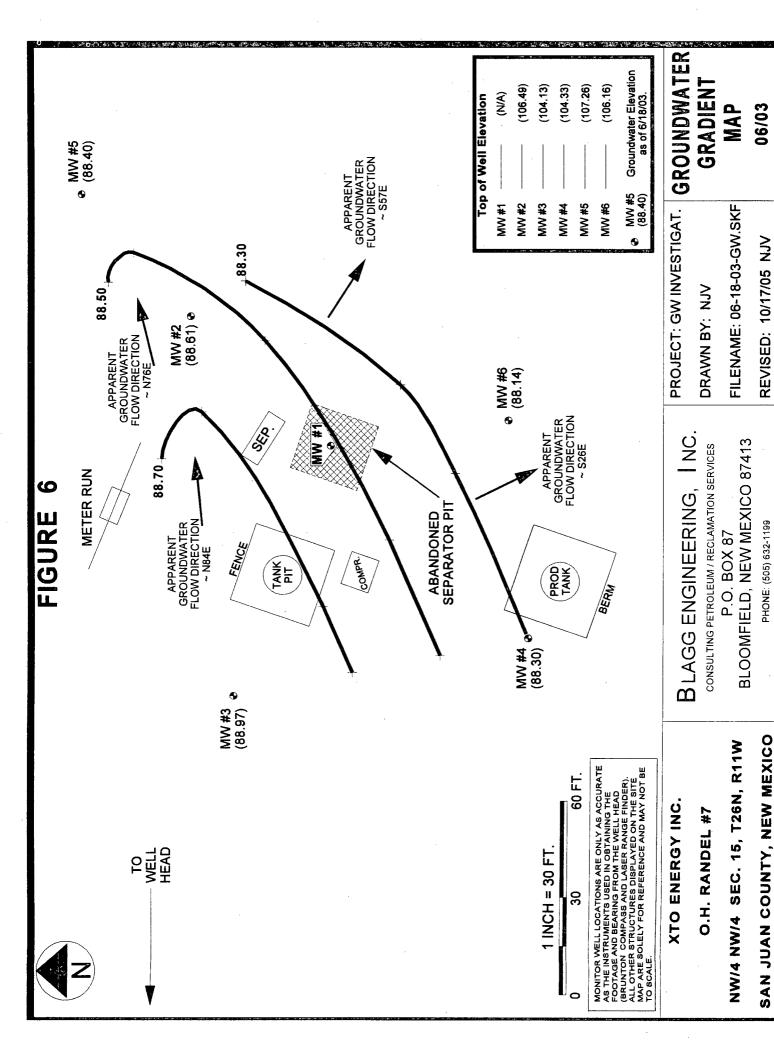
GROUNDWATER

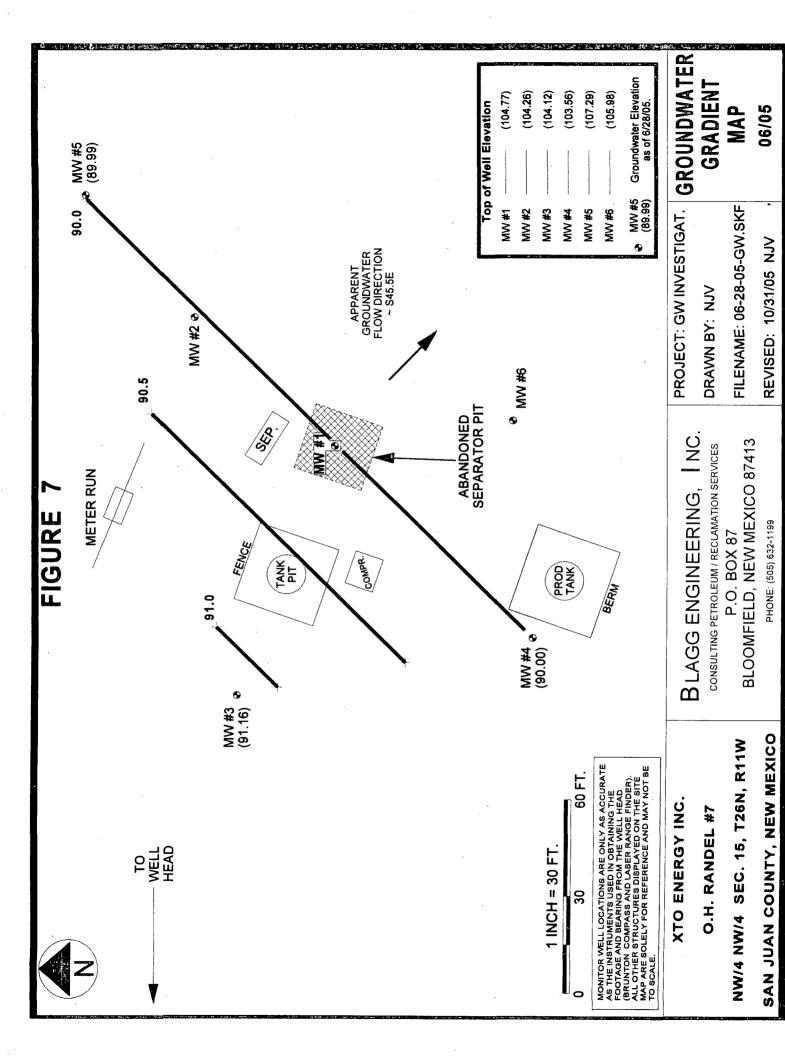
DRAWN BY: NJV

FILENAME: 042402-GW.SKF REVISED: 10/17/05 NJV

CONTOUR

04/24/02





BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED: BORING LOCATION: XTO ENERGY INC.

RANDEL, O.H. #7 - SEP. PIT, UNIT D, SEC. 15, T26N, R11W

BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

240 FT S76 5F FFFT FROM WELL HEAD

BH - 1 BORING #..... 1 MW #..... 1 PAGE #..... 3/22/02 DATE STARTED DATE FINISHED 3/22/02 **JCB** OPERATOR..... PREPARED BY N.IV

DRAWING: RANDEL-7-MW1.SKF DATE: 10/19/05 DWN BY: NJV

8	BOR	ING LOCA	TION	1 :	240 FT., S76.5E FEET FROM WELL HEAD.	PREPARED BY	NJV_
DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL		IW MATIC	FIELD CLASSIFICATION AND REMAR GROUND SURFACE	KS	
					TOP OF CASING APPROX. 0.15 FT. ABOVE GROUND SURFACE.		
2			TOS	2.22	MODERATE TO DARK YELLOWISH BROWN SAND & ROCK AGGREGATE, NON COHESIVE, SLIGHTL	Y MOIST, LOOSE TO	
_			103	2.22	FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN AUGER CUTTINGS (0.0 - 5.0 FT. B		
4 -			. F	=			
6 -			1				
0 -			F		LIGHT TO MEDIUM GRAY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST, FIRM, STRONG HC	ODOR DETECTED	
8 -		ļ ·) F	=	PHYSICALLY WITHIN AUGER CUTTING (5.0 - 10.0 FT. BELOW GRADE).		
4.0		1		3			
10 -					LIGHT MEDIUM GRAY SILTY CLAY TO CLAY, MEDIUM PLASTIC, STIFF, SLIGHTLY MOIST, APPARENT HC ODOR DET	ECTED PHYSICALLY	
			1		WITHIN CUTTINGS (10.0-11.0 FT. BELOW GRADE).		
12 -					SAME AS 5.0 - 10.0 FT. INTERVAL (11.0 - 13.0 FT. BELOW GRADE).		
14 -		The state of a fabrical state of the state o	1	=	SAME AS 10.0 - 11.0 FT. INTERVAL (13.0 - 14.0 FT. BELOW GRADE).		
		1			SAME AS 5.0 - 10.0 FT. INTERVAL EXCEPT MOIST TO WET (14.0 - 17.0 FT. BELOW GRADE).		
16-		· · · · · · · · · · · · · · · · · · ·]		W GW DEPTH ON 3/25/02 = 16.68 FT. (APPROX.) FROM GROUND SURFACE.		
18 -					Ė		
10		MARINE LANGE TO THE PARTY OF TH			LIGHT BURGARBAIREAN WAY ALLIE TO ALLIE LIPBERS AND LATER ATTEMPT LIPT TO A STREET, ADDITION AND ALLIE AND		
20 -					LIGHT DUSKY BROWN SILTY CLAY TO CLAY, MEDIUM PLASTIC, STIFF, WET TO SATURATED, APPARENT STRONG PHYSICALLY WITHIN CUTTINGS (17.0–24.0 FT. BELOW GRADE).	AC ODOR DETECTED	
		The second secon	 	=	THE GLARET RETAINS OF THOSE (17.0-22.01), DELOTE GLADE.		
22 -			TD =	22.22			
24 -							÷
27							
26 -		1			[TENTE CAND		
					NOTE: - SAND.		
28 -					- SILTY CLAY TO CLAY.		
30 -					TOS - TOP OF SCREEN FROM GROUND SURFACE.		
i					TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND	SURFACE.	
32 -		1			GW - GROUND WATER.		
24		1			·		
34				:	Monitor well consist of 2 inch PVC piping - casing from 0.15 ft. at	pove grade to 2.22 ft. below g	ırade.
36 -		<u>,</u>			0.010 slotted screen between 2.22 to 22.22 feet below grade, sai	nd packed annular to grade.	
		1					
38 -		1			•		
4.0		†					

BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: **EQUIPMENT USED:** XTO ENERGY INC

RANDEL, O.H. #7 - SEP, PIT, UNIT D, SEC. 15, T26N, R11W

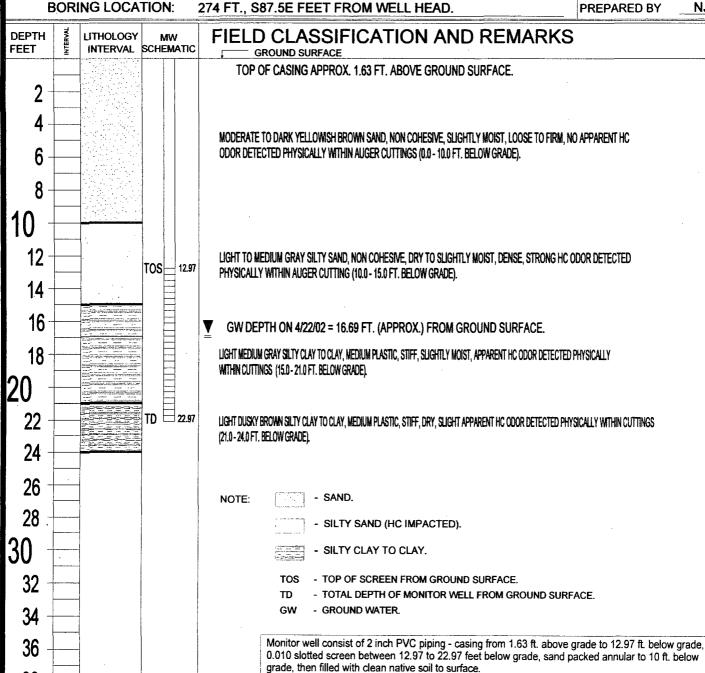
BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

274 FT., S87.5E FEET FROM WELL HEAD.

BH - 2 BORING #..... 2 MW #..... 2 PAGE #..... DATE STARTED 4/09/02 DATE FINISHED 4/09/02 OPERATOR..... **JCB** NJV

DRAWING: RANDEL-7-MW2.SKF DATE: 10/19/05 DWN BY: NJV



BLAGG ENGINEERING. INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED:

XTO ENERGY INC

RANDEL, O.H. #7 - SEP. PIT, UNIT D, SEC. 15, T26N, R11W

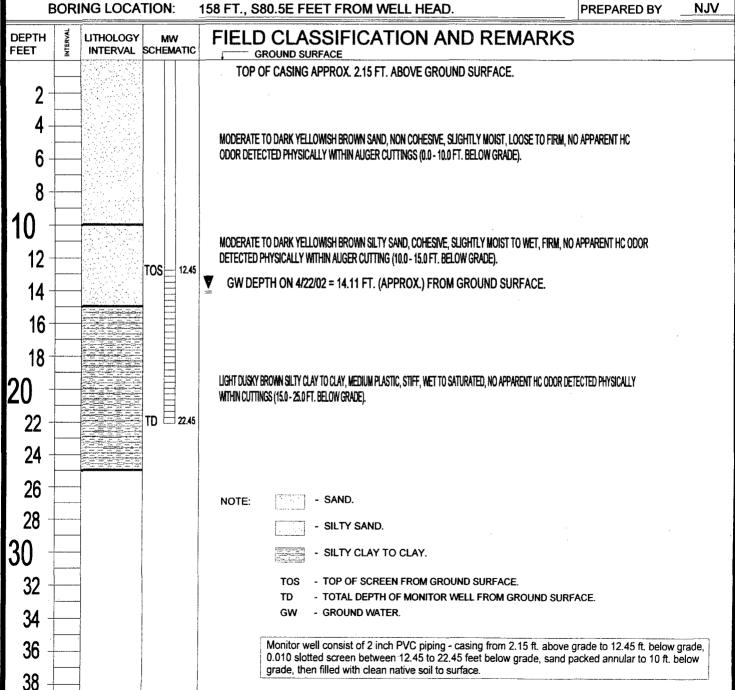
BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

158 FT., S80.5E FEET FROM WELL HEAD.

BH - 3 BORING #..... 3 MW #..... 3 PAGE #..... 4/09/02 DATE STARTED DATE FINISHED 4/09/02 **JCB** OPERATOR.....

DRAWING: RANDEL-7-MW3.SKF DATE: 10/19/05 DWN BY: NJV



BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME: CONTRACTOR:

EQUIPMENT USED: BORING LOCATION: XTO ENERGY INC.

RANDEL, O.H. #7 - SEP. PIT, UNIT D, SEC. 15, T26N, R11W

BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

210 FT., S56E FEET FROM WELL HEAD.

BORING #..... BH - 4

MW #..... 4

PAGE #.... 4

DATE STARTED 4/09/02

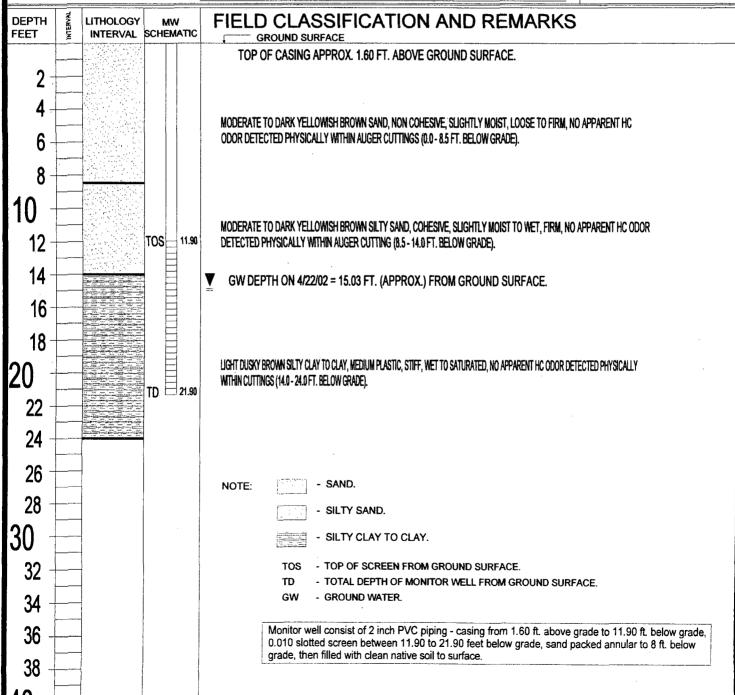
DATE FINISHED 4/09/02

OPERATOR.... JCB

PREPARED BY

DRAWING: RANDEL-7-MW4.SKF DATE: 10/19/05 DWN BY: NJV

NJV



BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: EQUIPMENT USED:

BORING LOCATION:

XTO ENERGY INC.

RANDEL, O.H. #7 - SEP. PIT, UNIT D, SEC. 15, T26N, R11W

BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

312 FT., N86E FEET FROM WELL HEAD.

BORING #...... BH - 5

MW #...... 5

PAGE #..... 5

DATE STARTED 4/19/02

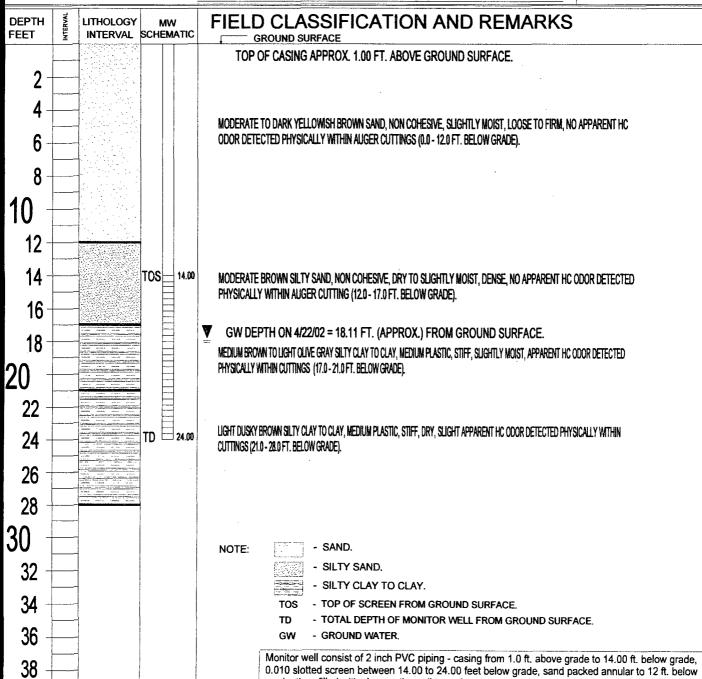
DATE FINISHED 4/19/02

OPERATOR..... JCB

PREPARED BY

DRAWING: RANDEL-7-MW5.SKF DATE: 10/19/05 DWIN BY: NJV

NJV



grade, then filled with clean native soil to surface.

BLAGG ENGINEERING, INC.

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

38

LOCATION NAME:

CONTRACTOR: **EQUIPMENT USED:** XTO ENERGY INC.

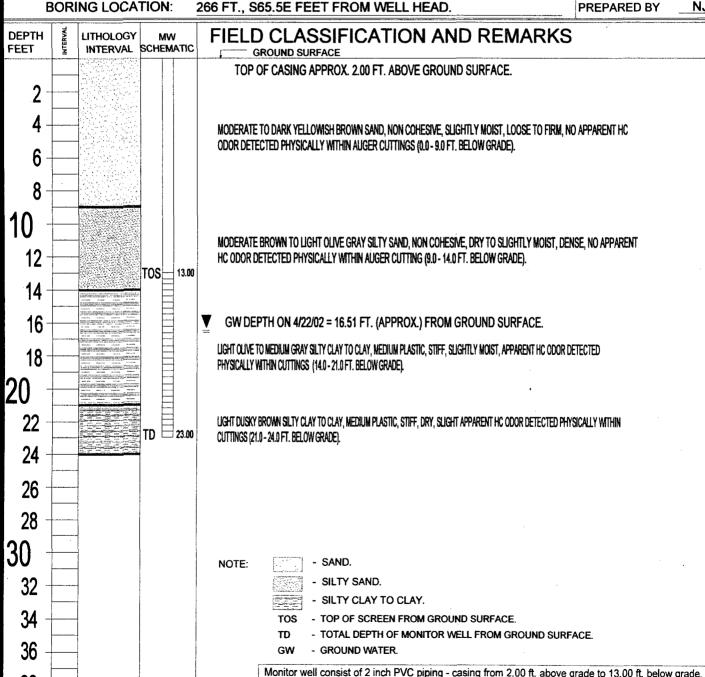
RANDEL, O.H. #7 - SEP, PIT, UNIT D. SEC, 15, T26N, R11W

BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE)

BORING LOCATION: 266 FT., S65.5E FEET FROM WELL HEAD. BORING #..... **BH-6** 6 MW #..... 6 PAGE #..... DATE STARTED 4/19/02 DATE FINISHED 4/19/02 **JCB** OPERATOR.....

NJV



grade, then filled with clean native soil to surface.

0.010 slotted screen between 13.00 to 23.00 feet below grade, sand packed annular to 10 ft. below

DRAWING: RANDEL-7-MW6.SKF DATE: 10/19/05 DWN BY: NJV

MONITOR WELL DEVELOPMENT / SAMPLING DATA

CLIENT: XTO ENERGY, INC.

CHAIN-OF-CUSTODY #:

NA

O. H. RANDEL #7

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT D, SEC. 15, T26N, R11W

Date: April 24, 2002

SAMPLER:

NJV

Filename: 04-24-02.WK4

PROJECT MANAGER:

J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	104.73		-	22.22	-	-	_	-	1.75
DEPTH	TO PRODU	CT (FT.) =	_			PRODU	CT THICKNES	SS (FT.) =	
2	106.49	88.13 *	18.38	24.60	-	-	-	-	1.25
DEPTH	TO PRODU	CT (FT.) =	18.35			PRODU	CT THICKNES	SS (FT.) =	0.03
3	104.13	87.88	16.25	22.50	0830	7.82	1,400	13.8	2.00
4	104.33	87.67	16.66	23.50	0845	7.87	1,400	15.1	2.00
5	107.26	88.12	19.14	25.00	0905	7.45	1,900	17.2	1.50
6	106.16	87.84	18.32	25.00	0935	7.40	2,300	17.2	1.65

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65

Poor recovery in MW #6, poor/fair in #5, fair in #3 & #4. Collected BTEX & major anion / cation samples from all MW's except #1 & #2, with additional analyzes (pH, hardness, dissolved iron, SAR, anion / cation difference [%]). Bailed free phase product from MW #1 & #2 (approx. 3 gallons of fluid removed between the two).

MW #	DTW
1	-
- 2	-
3	16.25
4	16.66
5	19.14
6	18.32

(prior to purging in ft.)

MW #	DTW
1	-
2	_
3	16.62
4	16.68
5	19.15
6	19.95

(@ time of sampling in ft.)

MONITOR WELL DEVELOPMENT / SAMPLING DATA

CLIENT: XTO ENERGY, INC.

CHAIN-OF-CUSTODY #:

O. H. RANDEL #7

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT D, SEC. 15, T26N, R11W

Date: August 27, 2002

SAMPLER:

NJV

Filename: 08-27-02.WK4

PROJECT MANAGER:

J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	104.73	88.14 *	16.60	22.22	_		_	-	-
DEPTH	TO PRODU	CT (FT.) =	16.49			PRODU	CT THICKNES	SS (FT.) =	0.30
2	106.49	87.87 *	18.64	24.60	-	-	-	-	-
DEPTH	TO PRODU	CT (FT.) =	18.31			PRODU	CT THICKNES	SS (FT.) =	0.94
3	104.13	88.85	15.28	22.50	0730	7.83	1,300	16.4	3.50
4	104.33	87.86	16.47	23.50	0720	7.93	1,300	16.3	3.50
5	107.26	87.65	19.61	25.00	-	-	-	-	_
6	106.16		_	25.00	-	-	_	-	-
DEPTH	I TO PRODU	CT (FT.) =	18.18	·		PRODU	CT THICKNES	SS (FT.) =	0.47 1

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

- INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.
- 1 INDICATES MEASURED WITH DISPOSABLE BAILER.

Fair recovery in MW #3 & #4. Collected BTEX samples from MW #3 & #4 only.

MW # DTW 1 2 3 15.28

16.47

4

5 6

(prior to purging in ft.)

MW #	DTW
1	-
2	-
3	15.31
4	16.53
5	-
6	-

(@ time of sampling in ft.)

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT:	XTO EN	ERGY,	INC.		СНА	IN-OF-C	USTODY#:		
O. H. RAN	DEL #7				LABOI	RATORY	(S) USED:		
JNIT D, SI	EC. 15, T20	6N, R11W							
Date :	October 8	3, 2002					SAMPLER:	N .	JV
Filename :	10-08-02.W	VK4			PR	OJECT	MANAGER:	J(СВ
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1		*	16.16	22.22	-	-	_	-	
DEPTH	TO PRODUC	CT (FT.) =	16.03			PRODUC	CT THICKNES	SS (FT.) =	0.37
2	106.49	88.29 *	18.20	24.60	-	-	-	-	•
DEPTH	TO PRODUC	CT (FT.) =	18.02			PRODUC	THICKNES	SS (FT.) =	0.52
3	104.13	89.39	14.74	22.50	-	-	-	-	-
. 4	104.33	88.30	16.03	23.50	-	_	-		•
5	107.26	88.16	19.10	25.00	-	-	-	_	-
6	106.16	88.03 *	18.13	25.00	-	_	-	_	-
DEPTH	TO PRODUC	CT (FT.) =	17.68		•	PRODUC	THICKNES	SS (FT.) =	1.29
	(i.e. 2" MW	r = (1/12) finimum of	t. h = 1 ft.) three (3) we	(i.e. 4" MW ilbore volu	ampling: V = r = (2/12) ft mes: ns per foot o	. h = 1 ft		al./ft3) X 3 (w	ellbores).
	Comments	or note we	ll diameter i	f not stand	lard 2".				
	* INDICA	TES PRODU	ICT SPECIFIC	C GRAVITY	ASSUMED	TO = 0.6	5		
						VIV.			
								J.,	
		<u></u>	1				3		
	MW #	DTW	(prior to put	rging -	MW #	DTW	(@ time of		

DIW	
-	
-	
-	
-	
-	
-	

(pri	ior	to	purging	-
	in	ft.)		

MW #	DTW
1	_
2	-
3	-
4	-
5	-
6	-

sampling in ft.)

LIENT:	XIO EN	EKGY,	INC.	CHAIN-OF-CUSTODY #: N / A						
D. H. RAN		D44144			LABO	RATORY	(S) USED :	HALL ENVI	RONMENTAL	
NIT D, SI	EC. 15, T26	5N, R11W								
Date :	March 3,	2003					SAMPLER:	N	JV	
ilename :	03-03-03.W	/K4		PROJECT MANAGER: JC				СВ		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME	
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED	
	(ft)	(ft)	(ft)	(ft)					(gal.)	
1	-	_ *	-	22.22	-	_	-	-	_	
DEPTH TO PRODUCT (FT.) =			-		•	PRODUC	CT THICKNES	SS (FT.) =	-	
2	106.49	*	-	24.6	-	-	-	-		
DEPTH	TO PRODUC	CT (FT.) =	-			PRODUC	CT THICKNES	SS (FT.) =	_	
3	104.13	-	15.17	22.50	0945	8.42	1,100	-	3.50	
4	104.33	-	15.94	23.50	0935	8.37	1,100	-	3.75	
5	107.26	-		25.00	-	-		-	<u> </u>	
6	106.16	_ *	-	25.00	_	-	-	-	-	
DEPTH	TO PRODUC	CT (FT.) =	-		ı	PRODUC	CT THICKNES	SS (FT.) =	-	
			INSTRUM	ENT CALIB	RATIONS =	7.00	2,800			
		:		DATI	E & TIME =	03/03/03	09:25			
	(i.e. 2" MW Ideally a m	r = (1/12) fi inimum of	:. h = 1 ft.) three (3) we	(i.e. 4" MW Ilbore volu	r = (2/12) ft	h = 1 ft	•	al./ft3) X 3 (w	<u>relibores).</u>	
			l diameter i		lard 2". ' ASSUMED	TO = 0.6	5 .			
						VIII. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.				

CLIENT:	XTO EN	ERGY,	INC. CHAIN-OF-CUSTODY #:						,,- <u>,</u>
O. H. RAN	IDEL #7				LABO	RATORY	(S) USED:	···	
UNIT D, S	EC. 15, T2	6N, R11W	The control of the co	,					
Date .	May 23,	2003					SAMPLER:	N	JV
Filename .	05-23-03.V	/K4			PR	OJECT	MANAGER :	J (СВ
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	-	_ *	16.04	22.22	-	-	-	-	-
DEPTH	DEPTH TO PRODUCT (FT.) = 15.93					PRODU	CT THICKNES	SS (FT.) =	0.31
2	106.49	88.66 *	17.83	24.60	-	-	-	-	-
DEPTH	TO PRODUC	CT (FT.) =	17.64			PRODU	CT THICKNES	SS (FT.) =	0.53
3	104.13	88.95	15.18	22.50	-	_	-	-	_
4	104.33	88.37	15.96	23.50			-		-
5	107.26	88.65	18.61	25.00	-	-		-	-
6	106.16	88.21 *	17.95	25.00	-	-	-	-	-
DEPTH	TO PRODUC	CT (FT.) =	17.48			PRODU	CT THICKNES	SS (FT.) =	1.33
			INSTRUM	ENT CALIB	RATIONS =	_	-		
				DATI	E & TIME =		_		
NOTES:							(<u>h_X 7.48 ga</u>	l./ft3) X 3 (w	ellbores).
	•	, ,	•	-	r = (2/12) ft	. n = 1 π	.)		
	ideally a m		three (3) we			af water			
		2.00 well	ulameter -	u.49 yanor	ns per foot o	or water.			
	Comments	or note we	l diameter it	not stand	lard 2".				
	* INDICA	TES PRODU	ICT SPECIFIC	GRAVITY	' ASSUMED	TO = 0.6	5.		
					····		AILED MW #	6 TO TOT.	DEPTH .
									
							·		

CLIENT:	XTO EN	ERGY,	INC.	CHAIN-OF-CUSTODY #:					
O. H. RAN	DEL #7			LABORATORY (S) USED :					
UNIT D, S	EC. 15, T2	6N, R11W							
Date :	May 28,	2003					SAMPLER:	N	JV
Filename :	05-28-03.V	VK4			PR	OJECT	MANAGER:	J(СВ
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP (celcius)	VOLUME PURGED (gal.)
1	-	- *	15.99	22.22	-	_	-	<u>-</u>	-
DEPTH	TO PRODUC	CT (FT.) =	15.93			PRODU	CT THICKNES	SS (FT.) =	0.18
2	106.49	*	17.78	24.60	_	_	-	-	-
DEPTH	TO PRODU	CT (FT.) =	17.72	PRODUCT THICKNESS (FT.) =					0.16
3	104.13			22.50	-	-	-	-	
4	104.33			23.50	-	-	-	_	-
5	107.26			25.00		_	-	-	-
6	106.16	*	17.90	25.00	-	-	-	-	_
DEPTH	TO PRODU	CT (FT.) =	17.47		ſ	PRODU	CT THICKNES	SS (FT.) =	1.22
			INSTRUM	ENT CALIE	RATIONS =	-	-		
				DATI	E & TIME =	_			
NOTES:	(i.e. 2" MW Ideally a m	r = (1/12) f ninimum of 2.00 " well	t. h = 1 ft.) three (3) we diameter =	(i.e. 4" MW libore volu 0.49 gallor	ns per foot o	. h = 1 ft	.)	al./ft3) X 3 (w	ellbores).
	Comments	or note we	II diameter i	t not stand	lard 2".				
					ASSUMED			C TO TOT	DEDTIL
	RAILED AF	PROX. 2.00	- 2.50 GAL.	FROM MW	#1, #2, &	#6. B/	VILED NIW #	6 ТО ТОТ.	DEPIH.

CLIENT:	T: XTO ENERGY, INC. CHAIN-OF-CUSTODY#:								
O. H. RAN	IDEL #7				LABOI	RATORY	(S) USED:		
UNIT D, S	EC. 15, T2	6N, R11W							
Date :	June 6,	2003					SAMPLER:	N	JV
Filename :	06-06-03.W	/K4			PROJECT MANAGER: J (
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	_	_ *	16.04	22.22	_	-	-	_	-
DEPTH	TO PRODUC	CT (FT.) =	16.00			PRODUC	CT THICKNES	SS (FT.) =	0.11
2	106.49	*	17.83	24.60	-	-	-	_	-
DEPTH	TO PRODUC	CT (FT.) =	17.79			PRODUC	CT THICKNES	SS (FT.) =	0.12
3	104.13			22.50	-	-	-	-	-
4	104.33			23.50	-	-	_	-	-
5	107.26			25.00	-	-	-	-	-
6	106.16	*	18.00	25.00	-	-	-	-	-
DEPTH	TO PRODUC	CT (FT.) =	17.58	*	·	PRODUC	THICKNES	SS (FT.) =	1.20
			INSTRUMI	ENT CALIB	RATIONS =	-	_		
•				DATI	E & TIME =		•	•	
NOTES:					ampling; V = V r = (2/12) ft			ıl./ft3) X 3 (w	ellbores).
	Ideally a m	ninimum of	three (3) we	llbore volu	mes:				
•		2.00 " well	diameter =	0.49 gallor	ns per foot o	of water.			
	Comments	or note we	ll diameter if	f not stand	dard 2".				
·					ASSUMED		·		
•	BAILED AP	PROX. 2.00	- 2.50 GAL. I	FROM MW	#1, #2, &	#6. BA	ILED MW #	6 ТО ТОТ.	DEPTH .
									

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: XTO ENERGY, INC.

CHAIN-OF-CUSTODY #:

O. H. RANDEL #7

UNIT D, SEC. 15, T26N, R11W

SAMPLER:

LABORATORY (S) USED: HALL ENVIRONMENTAL

NJV

1.24

Date: June 18, 2003

DEPTH TO PRODUCT (FT.) =

Filename .	06-18-03.W	/K4		PROJECT MANAGER :				J(СВ
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	_	_ *	16.04	22.22	-	-	-	-	
DEPTH	TO PRODUC	CT (FT.) =	16.02		0.07				
2	106.49	88.61 *	17.88	24.60	-	_	-	-	-
DEPTH	TO PRODUC	CT (FT.) =	17.85	PRODUCT THICKNESS (FT.) =					0.09
3	104.13	88.97	15.16	22.50	1000	7.72	900	17.5	2.50
4	104.33	88.30	16.03	23.50	0920	7.75	1,000	17.4	2.50
5	107.26	88.40	18.86	25.00	1030	7.30	1,300	17.3	1.25
6	106.16	88.14 *	18.02	25.00	-		-	-	-

INSTRUMENT CALIBRATIONS =

7.00 2,800 06/18/03 09:15

PRODUCT THICKNESS (FT.) =

DATE & TIME =

NOTES: Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

17.59

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

BAILED APPROX. 2.00 - 2.50 GAL. FROM MW #1, #2, & #6. BAILED MW #6 TO TOT. DEPTH. Fair recovery in MW #3 & #4, poor recovery in #5. Collected BTEX samples from MW #3 #4, & #5 only.

MW #	DTW	
3	15.16	
4	16.03	
5	18.86	

(prior to purging in ft.)

MW #	DTW	(@ time of
3	15.16	sampling -
4	16.04	in ft.)
5	18.86	

CLIENT:	XTO EN	ERGY IN	INC. CHAIN-OF-CUSTODY #:							
O. H. RAN	DEL #7				LAE	BORATORY	(S) USED:			
UNIT D, S	EC. 15, T20	6N, R11W								
Date :	June 26,	2003					SAMPLER:	N	J V	
Filename :	06-26-03.W	/K4			ï	PROJECT	MANAGER:	J (СВ	
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME	
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED	
	(ft)	· (ft)	(ft)	(ft)					(gal.)	
1	_	_ *	17.93	22.22		-	-	-	_	
DEPTH	TO PRODUC	T (FT.) =	17.90			PRODU	CT THICKNES	SS (FT.) =	0.08	
2	106.49	*	16.09	24.60	_	-	_	-	-	
DEPTH	TO PRODUC	CT (FT.) =	16.08			PRODU	CT THICKNES	SS (FT.) =	0.04	
3	104.13		15.16	22.50	-	-	-	-	-	
4	104.33		16.03	23.50	-	-	-	-	-	
5	107.26		18.86	25.00	. =	, -	-	-	-	
6	106.16	*	18.10	25.00	-	-	<u> </u>	-	_	
DEPTH	TO PRODUC	CT (FT.) =	17.67			PRODU	CT THICKNE	SS (FT.) =	1.22	
			INSTRUM	ENT CALIB	RATIONS =	-	-			
				DATE	E & TIME =	<u>-</u>	-			
	(i.e. 2" MW Ideally a m	r = (1/12) finimum of	ed from well t. h = 1 ft.) three (3) we diameter =	(i.e. 4" MW Ilbore volu	r = (2/12) ft mes:	h = 1 ft.)	X 7.48 gal./i	13) X 3 (well	bores).	
	Comments	or note we	II diameter it	f not stand	lard 2".	÷				
	* INDICA	TES PRODU	ICT SPECIFIC	GRAVITY	ASSUMED	TO = 0.65.				
							D MW #6 1	O TOT. DE	РТН.	
					———— am					
	MW #	DTW	(prior to pu	raina -	MW #	DTW	(@ time of	samolino -		
	3	<u>-</u>	in ft.)	J	3	-	in ft.)			
	4	_			4	-				

CLIENT:	XTO EN	ERGY,	INC. CHAIN-OF-CUSTODY #:						
O. H. RAN	IDEL #7				LAE	BORATORY	(S) USED:		
UNIT D, S	EC. 15, T26	6N, R11W							
Date :	July 3, 2	2003					SAMPLER:	N	JV
Filename :	07-03-03.W	VK4			ı	PROJECT I	MANAGER :	. J(СВ
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	(19	*	17.98	22.22					(94)
	TO PRODUC	L	17.96	24.22	<u> </u>	PRODUC	T THICKNES	SS (FT.) =	0.05
2	106.49	*	16.09	24.60	_	_	_	_	_
	TO PRODUC		16.09	24.00		L	T THICKNES		0.02
3	Ι			22.50				(,	3.32
4	104.13 104.33		15.16 16.03	22.50 23.50	_	<u>-</u>	<u>-</u>		
5	107.26		18.86	25.00	_		-	_	:
6	106.16	*	18.12	25.00	-	_	_	_	-
DEPTH	TO PRODUC	CT (FT.) =	17.71			PRODUC	T THICKNES	SS (FT.) =	1.18
			INSTRUM	ENT CALIB	RATIONS =	-	-	•	
				DATE	E & TIME =	*	-		
	(i.e. 2" MW Ideally a m	r = (1/12) finimum of	t. h = 1 ft.) three (3) we	(i.e. 4" MW illbore volu	ampling; V = r = (2/12) ft mes: ns per foot o	. h = 1 ft.)	X 7.48 gal./f	13) X 3 (well	bores).
	Comments	or note we	II diameter i	f not stand	dard 2".				
				•	ASSUMED #1, #2, &		D MW #6 1	O TOT. DE	PTH.
		•							
	MW #	DTW	(prior to pu	rging -	MW #	DTW	(@ time of	sampling -	
	3	-	in ft.)		3	-	in ft.)		
	4	-			4	-			
	5	-			5	-			

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT:	XTO EN	ERGY,	INC.	CHAIN-OF-CUSTODY #:					
O. H. RAN	IDEL #7	,			LAE	BORATOR	Y (S) USED :		
UNIT D, S	EC. 15, T26	N, R11W							
Date .	July 31,	2003					SAMPLER:	N	JV
Filename .	07-31-03.W	/K4			Ī	PROJECT	MANAGER:	J (СВ
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	-	_ *	16.18	22.22	-	-	-	_	-
DEPTH	TO PRODUC	CT (FT.) =	16.18			PRODU	ICT THICKNES	SS (FT.) =	0.01
2	106.49	90.63	15.86	24.60	_	-	-	-	_
DEPTH	TO PRODUC	CT (FT.) =		٠		PRODU	ICT THICKNES	SS (FT.) =	0.00
3	104.13		-	22.50	-	• -	-	_	-
4	104.33		-	23.50	-	-		-	-
5	107.26		-	25.00	-	_	· <u>-</u>	-	-
6	106.16	87.91 *	18.25	25.00	-	_	-	<u>-</u>	-
DEPTH	I TO PRODUC	CT (FT.) =	17.77			PRODU	ICT THICKNES	SS (FT.) =	1.36
			INSTRUM	ENT CALIE	BRATIONS =	-	-		
				DAT	E & TIME =	-			
NOTES:	Volume of	water purge	ed from well	prior to s	ampling; V = / r = (2/12) fl	pi X r2 X l	n_X 7.48 gal./f	<u>t3) X 3 (well</u>	bores).
	-		rı – r ıı. <i>)</i> three (3) we	-		L. 11 – 11L.)	,		
	lucally a III		` '		ns per foot (of water			
		2.00 WCII	didifficion	o.40 galloi	10 por 100t	or water.			
	Comments	or note we	II diameter i	f not stand	dard 2 ",			•	
	* INDICA	TES PRODU	ICT SPECIFIC	GRAVITY	ASSUMED	TO = 0.65.			
							6 TO TOT. DE		
							salvage well b		
	off damage	d casing (a	pprox. 3 ft.)	. Top of	casing now	approx. 1	ft. below grad	de with slip	cap.
	•	1-1-9						~ · · · · · · · · · · · · · · · · · · ·	

MW #	DTW
3	-
4	-
5	-

(prior to purging - in ft.)

MW #	DTW
3	-
4	-
5	-

(@ time of sampling - in ft.)

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: XTO ENERGY INC.

CHAIN-OF-CUSTODY #:

N/A

O. H. RANDEL #7

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT D, SEC. 15, T26N, R11W

Date: August 29, 2003

SAMPLER:

NJV

Filename: 08-29-03.WK4

PROJECT MANAGER:

J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	16.29	22.22	-	-	-	-	-
2	-		15.99	22.59	-	-			<u>-</u>
3	104.13	88.74	15.39	22.50	0805	7.58	1,400	16.7	2.50
4	104.33	88.04	16.29	23.50	0735	7.69	1,400	16.0	2.25
5	107.26	87.96	19.30	25.00	_		-		-
6	106.16	87.82 *	18.34	25.00	-				_
DEPTH	I TO PRODU	CT (FT.) =	17.83			PRODU	JCT THICKNES	SS (FT.) =	1.46

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

08/29/03 0730

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

BAILED APPROX. 1.50 GAL. FROM MW #6. BAILED MW #6 TO TOT. DEPTH.

Fair recovery in MW #3 & #4. Collected BTEX samples from MW #3 & #4 only.

MW #2 top of casing found damaged on 7/31/03. Cut off ~ 2 ft. Top of casing

Top of casing currently ~ 1 ft. below grade.

MW #	DTW	(prior to purging
3	15.39	in ft.)
4	16.29	
5	-	

MW #	DTW
3	15.88
4	16.33
5	_

(@ time of sampling in ft.)

District I 1625 N. French Dr., Hobbs, NM 88240 Districte II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

Form C-144 June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Feoffice.

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No

lype of action: Registration of a pit or below-grade tank 📋 Closure of a pit or below-grade tank 🗵						
Operator: XTO ENERGY INC. Telephone: (505)-324-1090 e-mail address: Address: 2700 FARMINGTON AVE., BLDG. K. SUITE 1, FARMINGTON, NM 87401						
Facility or well name: O. H. RANDEL #7	_API #: 30-045- 24749U/L or Qtr	r/Qtr_D_Sec_15_T_26N_R_11W				
County: SAN JUAN Latitude 36.49193 Longitude 10	17.99632 NAD: 1927 ☐ 1983 🏻 Surface	Owner Federal ☑ State ☐ Private ☐ Indian ☐				
Pit	Below-grade tank					
Type: Drilling ☐ Production ☒ Disposal ☐ SEPARATOR	Volume:bblType of fluid: Construction material:	White a second s				
Workover	Construction material:	-				
Lined 🗌 Unlined 🛛	Double-walled, with leak catection? Yes [] If	at, explain why not				
Liner type: Synthetic Thicknessmil Clay _						
Pit Volumebbl						
	Less than 50 feet	(20 points)				
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points) 20				
high water elevation of ground water.)	100 feet or more	(0 points)				
Wellhead protection area: (1.ess than 200 feet from a private domestic	Yes	(20 points)				
water source, or less than 1000 feet from all other water sources.)	No	(0 points)				
	Less than 200 feet	(20 points)				
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)				
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)				
	Ranking Score (Total Points)	20				
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks (2) India	cate disposal location: Taked; the onsite how if				
your are burying in place) onsite 🖾 offsite 🔲 If offsite, name of facility_						
remediation start date and end date. (4) Groundwater encountered: No 🔯		it, and attach sample results. (5)				
Attach soil sample results and a diagram of sample locations and excavation						
Additional Comments PIT LOCATED APPROXIMATEL		FLL HEAD.				
PIT ENCAVATION: WIDTH N/Aft., LENGTH						
PIT REMEDIATION: CLOSE AS IS: ☑, LANDFARM: □, C	OMPOST: □, STOCKPILE: □, OTHER □ (e	xplain)				
Cubic yards: N/A						
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline						
Date: 11/18/05						
PrintedName/Title Jeff Blagg - P.E. # 11607 Signature						
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Anarousi						
Approval:						
Printed Name/TitleSig	gnature	Date:				

revised: 02/27/02

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

April 17, 2002

Mr. Roger Anderson Chief of Environmental Bureau State of New Mexico Oil Conservation Division (NMOCD) 1220 St. Francis Drive Santa Fe, New Mexico 87505

RE: Gro

Groundwater Impact

XTO Energy, Inc.

O.H. Randel #7 Well site

Legal Description: Unit D, Sec. 15, T26N, R11W

San Juan County, New Mexico

Dear Mr. Anderson:

Physical observation of groundwater after monitor well construction was completed on March 22, 2002 at the above referenced well site indicates approximately 0.32 ft. or 3.84 inches of free phase product. The monitor well is located within an abandoned separator pit area. XTO Energy will adhere to its NMOCD approved groundwater management plan during further assessment of the apparent hydrocarbon contamination encountered. Depth to free phase product in the monitor well was approximately 16.36 ft. below the ground surface.

If you have any questions concerning this information, please do not hesitate to contact Nelson Velez or myself at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted, Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.

President

cc: Denny Foust, Environmental Geologist, NMOCD, Aztec, NM

Terry Matthews, Production Superintendent, XTO Energy, Inc., Farmington, NM Nina Hutton, Environmental & Safety Manager, XTO Energy, Inc., Ft. Worth, TX

NJV/njv

RANDEL-7.LTR