



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program

WELL LOCATION PLAT

PAGE 1 SURFACE LOCATION

DEP USE ONLY	Auth ID #	G: <i>MA</i>
	Permit # <i>019-22053</i>	<i>3/27/13</i>
	Project #	C:

Well is located on topo map 12.405 feet south of latitude 40° 55' 00"

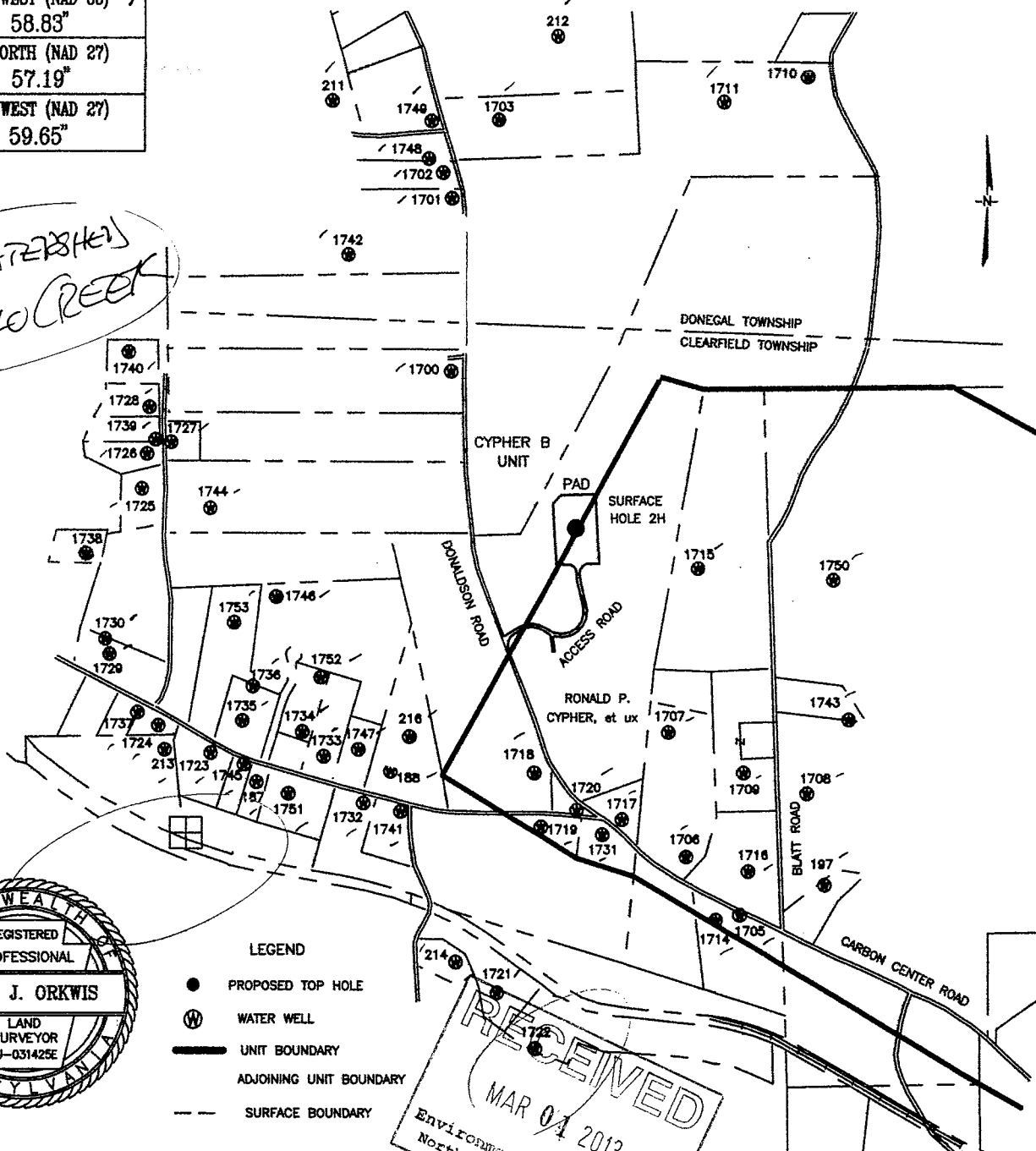
☐	Denotes location of well on topo map.
True Latitude: NORTH (NAD 83)	
40° 52' 57.42"	
True Longitude: WEST (NAD 83)	
79° 44' 58.83"	
True Latitude: NORTH (NAD 27)	
40° 52' 57.19"	
True Longitude: WEST (NAD 27)	
79° 44' 59.65"	

CYPHER A UNIT
567 ACRES

NOTE:

THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. OWNERS AND SOME PROPERTY LINES ARE SHOWN AS PER TAX ASSESSMENT RECORDS

Well is located on topo map 11.430 feet west of longitude 79° 42' 30"



Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER A UNIT		Well # 2H	Serial # N/A
Address 502 KEYSTONE DRIVE, WARRENDALE, PA. 15086		County BUTLER	Municipality CLEARFIELD		Well Type GAS	
911 address of well site 150 DONALDSON ROAD FENNELTON, PA 16034		USGS 7 1/2 Quadrangle Map Name CHICORA		Map Section 7	Surface Elevation 1230 ft	
Surveyor MARK J. ORKWIS	PHONE # 724-354-2030	DWG # 2H	Date 02/01/2013	Scale 1=1000 FT	Tract Acreage 567 ACRES +-	
Lat & Long Metadata Method DIRECT GPS		Accuracy +/- 3 feet	Datum NAD 83	Elevation Metadata Method DIRECT GPS	Accuracy +/- 3 ft.	Datum NAVD 88
				Survey Date 08-23-12		

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER A UNIT	Well # 2H	Serial # N/A
Surface Landowner / Lessor: Ronald P. Cypher, et ux			Angle & Course of Deviation (drilling) S 63° 13' 36" E	Anticipated True Vertical Depth Feet (TVD): 5935'	Anticipated Total Measured Depth Feet (TMD): 13,164'
Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 13,164'
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000' Point# NAME Distance (ft)			Latitude Longitude of Water Supply		
1744	Thomas E. Livermore, et ux	2,255	N40°52'58.17"	W79°45'28.18"	
1716	Loretta J. Karenbauer, et vir	2,356	N40°52'36.81"	W79°44'44.55"	
1751	James R. Fischer, et ux	2,416	N40°52'40.92"	W79°45'21.56"	
1748	Kenneth A. Schnur	2,441	N40°53'19.64"	W79°45'11.21"	
1745	Mark W. McCue	2,516	N40°52'42.61"	W79°45'25.16"	
187	Basil R. Stewart, et ux	2,518	N40°52'41.57"	W79°45'24.11"	
1727	Joseph C. Bzorek	2,554	N40°53'02.07"	W79°45'31.52"	
1703	William P. Andrews	2,554	N40°53'22.12"	W79°45'05.65"	
1739	Thomas J. Kopnick	2,648	N40°53'02.20"	W79°45'32.73"	
1723	Edwin R. Somerville	2,654	N40°52'43.21"	W79°45'27.87"	
1749	Russel J. Dunn, et ux	2,655	N40°53'21.95"	W79°45'11.12"	
197	Wayne A. Presseau	2,665	N40°52'36.13"	W79°44'38.40"	
1726	Michael D. Graham	2,689	N40°53'01.38"	W79°45'33.45"	
1725	Paul F. Smith	2,694	N40°52'59.22"	W79°45'33.83"	
1728	Kelly A. Macdonald, et al	2,735	N40°53'04.17"	W79°45'33.31"	
214	William Hogan	2,769	N40°52'30.95"	W79°45'07.97"	
1711	Gary A. Walker, et ux	2,784	N40°53'23.55"	W79°44'47.46"	
1724	Richard Barkley, et al c/o Joshua Rodgers	2,858	N40°52'44.85"	W79°45'32.16"	
213	Brenda L. Shaffer, et al	2,887	N40°52'43.40"	W79°45'31.56"	
1721	Paul J. Wilson	2,894	N40°52'29.16"	W79°45'04.57"	
1737	Donald J. McCorrey, et ux	2,943	N40°52'45.56"	W79°45'33.82"	
1740	David Miller	2,966	N40°53'07.47"	W79°45'35.10"	
1729	Gerald L. Garing, et ux	2,989	N40°52'49.16"	W79°45'36.20"	
1730	Gerald L. Garing, et ux	2,997	N40°52'50.07"	W79°45'36.64"	
211	James W. Fennell	3,000	N40°53'23.08"	W79°45'19.07"	
212	Jack L. Kaltenbaugh	3,000	N40°53'27.31"	W79°45'01.13"	

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Surface Owner/Water Purveyor w/Water Supply within 1000'/3000' Point# NAME Distance (ft)			Latitude Longitude of Water Supply		
✓ 1715	Evelyn M. Denny	790	N40°52'55.21"	W79°44'48.96"	
✓ 1714	Evelyn M. Denny	2,547	N40°52'33.88"	W79°44'47.08"	
✓ 1705	Evelyn M. Denny	2,565	N40°52'34.29"	W79°44'45.14"	
✓ 1700	Phillip J. Biedenbaugh	1,232	N40°53'06.79"	W79°45'09.09"	
✓ 1707	Raymond W. Denny Jr.	1,368	N40°52'45.26"	W79°44'51.03"	
✓ 1706	Raymond W. Denny Jr.	2,120	N40°52'37.67"	W79°44'49.63"	
✓ 1718	Ronald P. Cypher, et ux	1,525	N40°52'42.52"	W79°45'01.89"	
✓ 1720	Ronald P. Cypher, et ux	1,727	N40°52'40.36"	W79°44'58.38"	
✓ 1719	Ronald P. Cypher, et ux	1,843	N40°52'39.30"	W79°45'01.32"	
✓ 1750	Judith R. McCrea Trust	1,615	N40°52'54.71"	W79°44'38.11"	
✓ 1708	Judith R. McCrea Trust	2,158	N40°52'41.67"	W79°44'39.87"	
✓ 216	David G. Fischer SR et ux	1,642	N40°52'44.60"	W79°45'11.93"	
✓ 188	David G. Fischer SR et ux	1,888	N40°52'42.39"	W79°45'13.40"	
✓ 1717	Bruce McGregor	1,805	N40°52'39.86"	W79°44'54.72"	
✓ 1709	Stephen L. Blatt, et ux	1,812	N40°52'42.87"	W79°44'45.07"	
✓ 1752	Kenneth A. Miller, et ux	1,831	N40°52'48.01"	W79°45'19.19"	
✓ 1731	Timothy S. McGregor, et ux	1,881	N40°52'38.92"	W79°44'56.31"	
✓ 1746	Jeffrey A. Fowler, et ux	1,902	N40°52'52.83"	W79°45'22.85"	
✓ 1747	William D. Bowser, et ux	1,917	N40°52'43.69"	W79°45'16.04"	
✓ 1743	Troy M. Somple	2,039	N40°52'46.29"	W79°44'36.70"	
✓ 1741	Charles Green	2,055	N40°52'39.98"	W79°45'12.54"	
✓ 1733	Bryce A. Anthony, et ux	2,107	N40°52'43.24"	W79°45'18.92"	
✓ 1734	John Miller, et ux	2,110	N40°52'44.65"	W79°45'20.55"	
✓ 1732	John E. Kudamnik, et ux	2,146	N40°52'40.44"	W79°45'15.58"	
✓ 1701	Misty L. Booher, et vir	2,168	N40°53'17.32"	W79°45'09.29"	
✓ 1702	Misty L. Booher, et vir	2,331	N40°53'18.83"	W79°45'10.06"	
✓ 1742	James W. Plunkard, et ux	2,185	N40°53'13.71"	W79°45'17.51"	
✓ 1753	Cheryl A. Stull	2,194	N40°52'51.26"	W79°45'26.22"	
✓ 1736	Irvin P. Summerville, et ux	2,221	N40°52'47.34"	W79°45'24.52"	
✓ 1735	Irvin P. Summerville, et ux	2,379	N40°52'45.30"	W79°45'25.39"	

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER A UNIT		Well # 2H	Serial # N/A
Surface Landowner / Lessor: Ronald P. Cypher, et ux			Angle & Course of Deviation (drilling) S 63° 13' 36" E	Anticipated True Vertical Depth Feet (TVD): 5935'		Anticipated Total Measured Depth Feet (TMD): 13,164'
Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 13,164'	
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			
Clearfield Township //						
Donegal Township //						
Winfield Township //						
Jefferson Township //						
Summit Township //			Coal related parties			
Oakland Township //			Ronald P. Cypher, et ux – (owners) all seams			
West Franklin Township, Armstrong County //						

WELL LOCATION PLAT**Page 3 Plan View of Deviated Well Bore**

If well has a lateral other than vertical show the bottom hole location on the plat drawing ⊗ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.

Applicant / Well Operator Name:
XTO ENERGY, INC.

DEP ID#
265476

Well (Farm) Name:
CYPHER A UNIT

Well #
2H

NAD 83 Coordinates	
Surface Hole	
Lat	40° 52' 57.42"
Long	79° 44' 58.83"
Landing Point	
Lat	40° 52' 48.23"
Long	79° 44' 58.25"
Bottom Hole	
Lat	40° 52' 19.64"
Long	79° 43' 39.23"

NAD 27 Coordinates	
Surface Hole	
Lat	40° 52' 57.19"
Long	79° 44' 59.65"
Landing Point	
Lat	40° 52' 48.00"
Long	79° 44' 59.07"
Bottom Hole	
Lat	40° 52' 19.41"
Long	79° 43' 40.05"

SURFACE HOLE - A: S 82° 01' 48" E 5354.8'

SURFACE HOLE - B: S 60° 39' 37" E 6801.9'

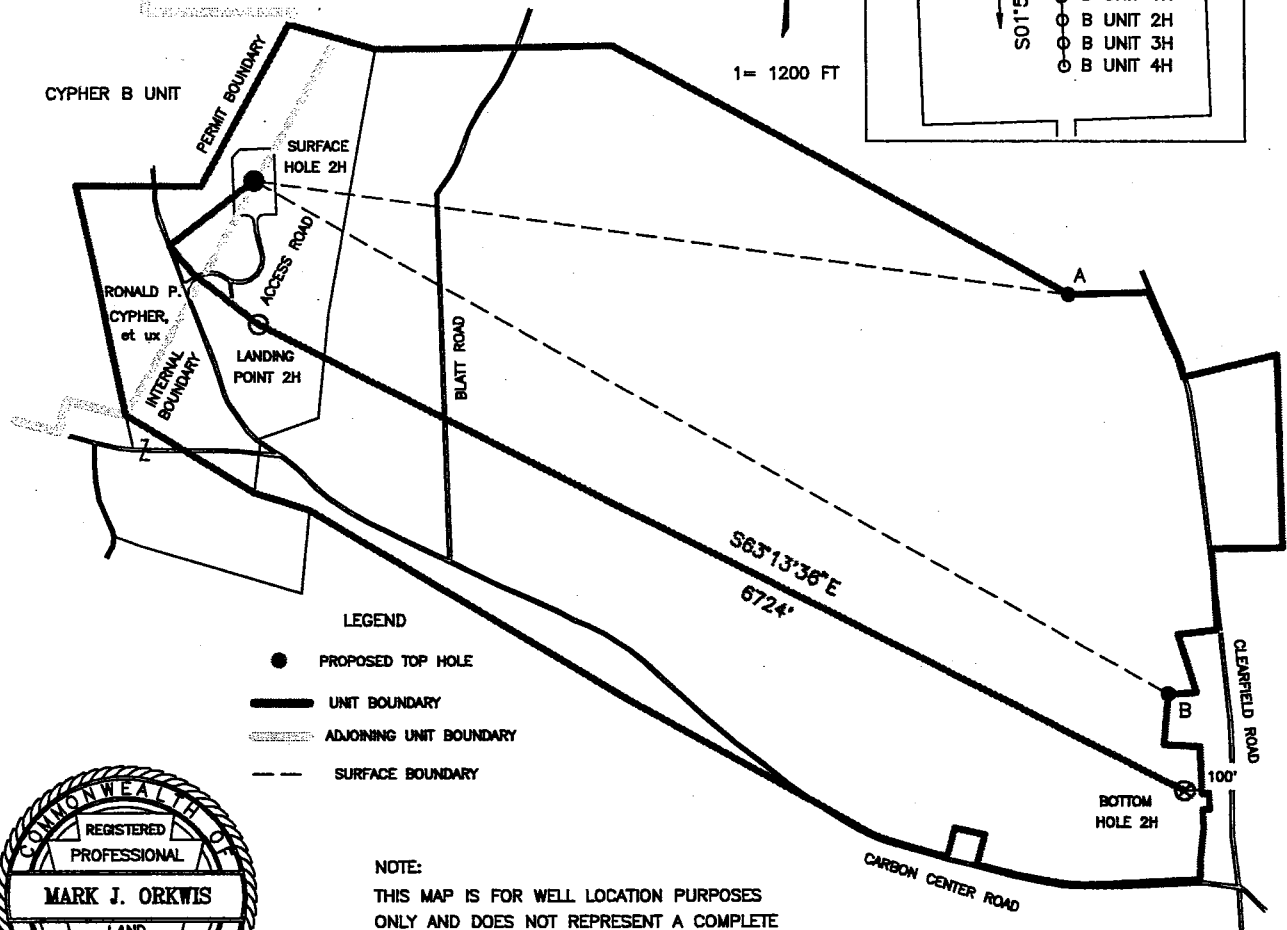
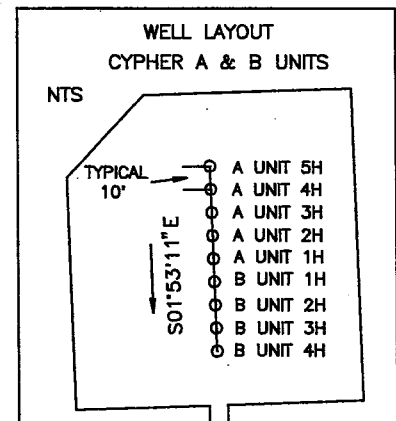
A - B: - S 13° 35' 34" E 2665.0'

A: PROPERTY CORNER

B: PROPERTY CORNER

CYPHER A UNIT

567 ACRES



LEGEND

- PROPOSED TOP HOLE
- UNIT BOUNDARY
- - - ADJOINING UNIT BOUNDARY
- - - SURFACE BOUNDARY



NOTE:

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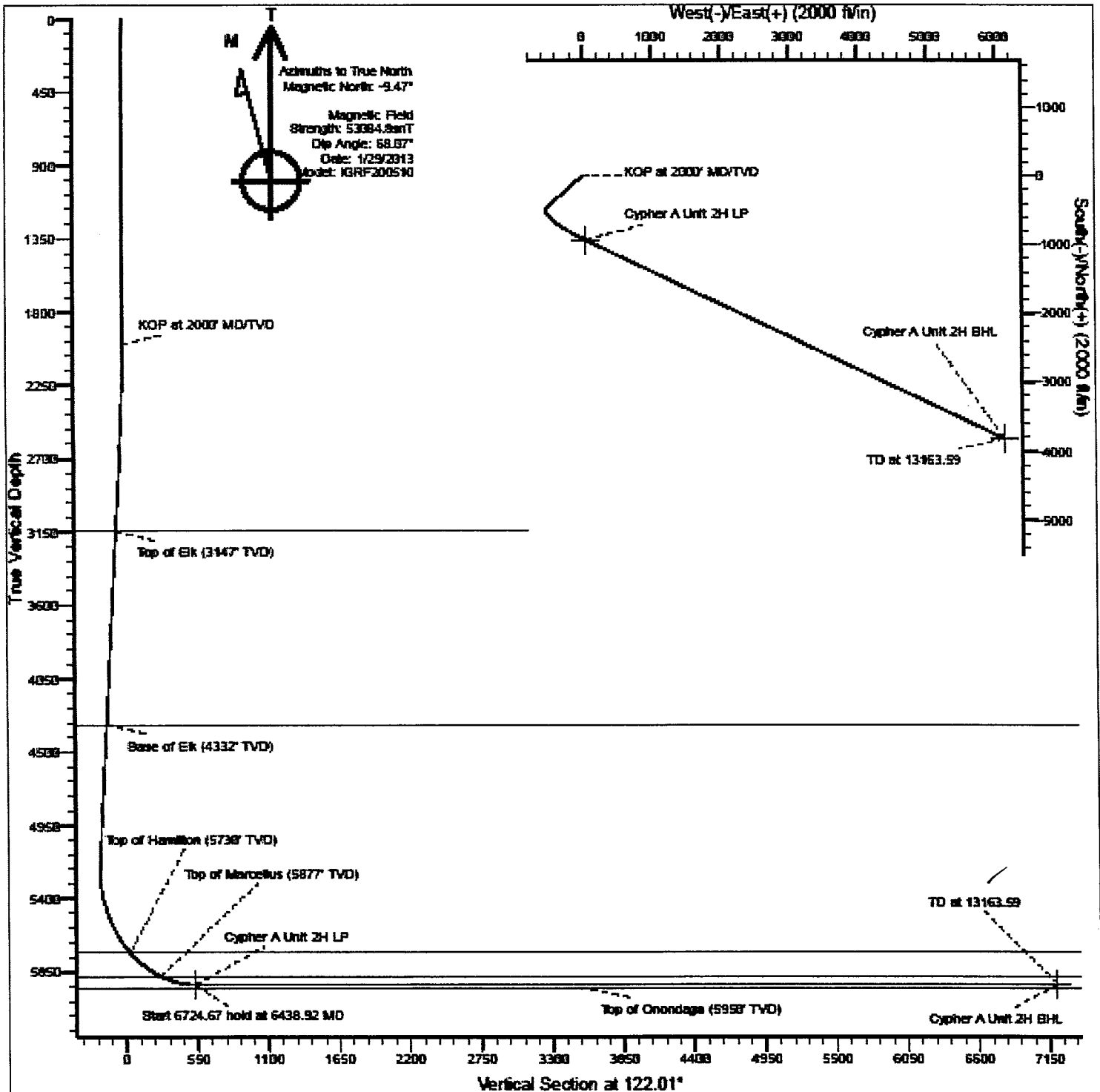
WELL LOCATION PLAT

Page 4 Cross Section

Applicant/Well Operator Name XTO ENERGY, INC.	DEP ID# 265476	Well (Farm) Name CYPHER A UNIT	Well # 2H
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KOP:	TVD:	2000'	TMD:	2000'	Latitude	Longitude
Landing Point	TVD:	5935'	TMD:	6438'	40 52 57.42	79 44 58.83
					40 52 48.23	79 44 58.25

DEP	Permit #
Use	
Only	





pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program

WELL LOCATION PLAT

PAGE 1 SURFACE LOCATION

DEP USE ONLY	Auth ID #	G: <i>MA 3/27/13</i>
	Permit # <i>019-22054</i>	C:
	Project #	

Well is located on topo map 12,395 feet south of latitude 40° 55' 00"

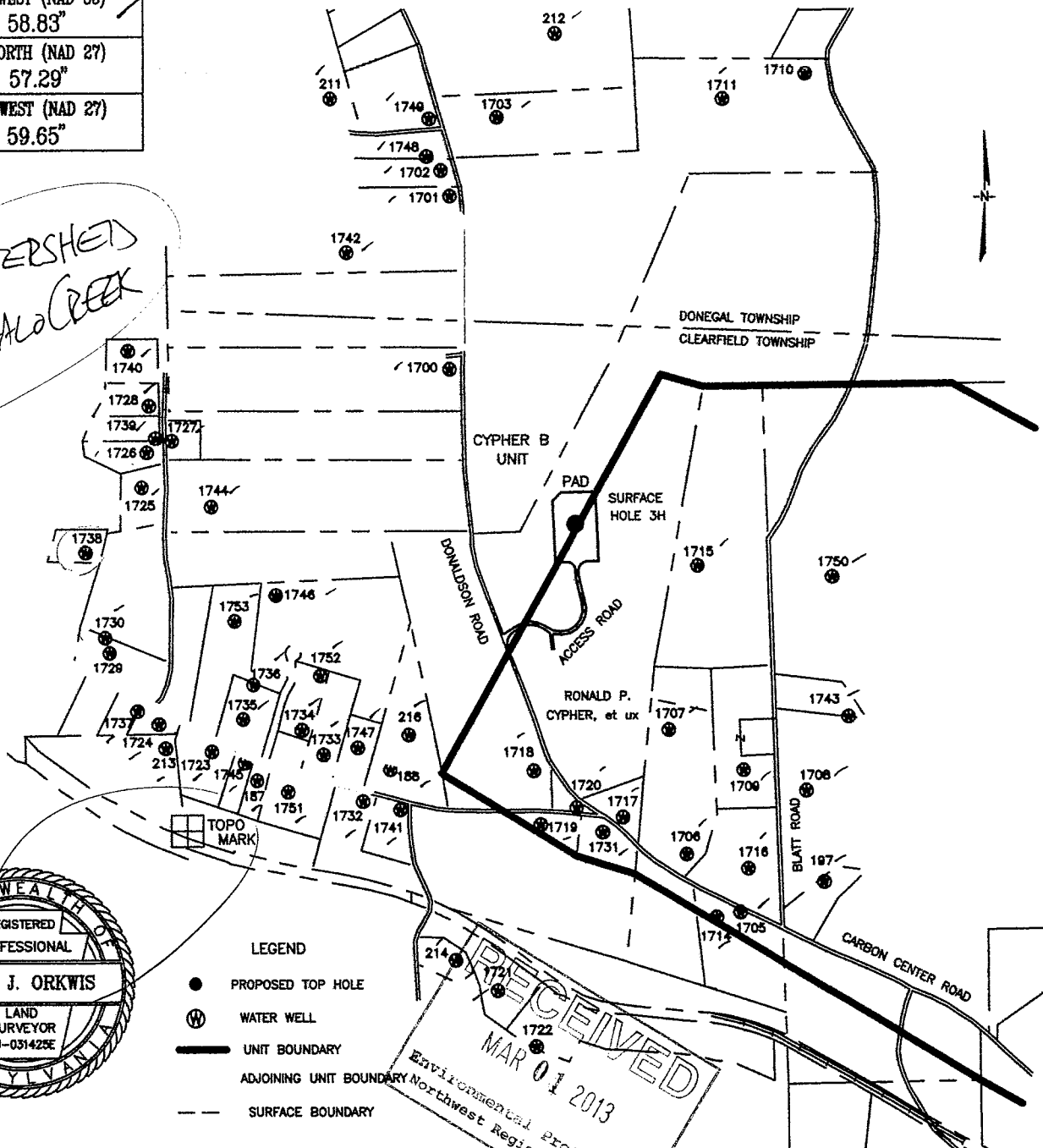
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	Denotes location of well on topo map.
True Latitude: NORTH (NAD 83)	<u>40° 52' 57.52"</u>
True Longitude: WEST (NAD 83)	<u>79° 44' 58.83"</u>
True Latitude: NORTH (NAD 27)	<u>40° 52' 57.29"</u>
True Longitude: WEST (NAD 27)	<u>79° 44' 59.65"</u>

CYPHER A UNIT
567 ACRES

Well is located on topo map 11,430 feet west of longitude 79° 42' 30"



LEGEND

- PROPOSED TOP HOLE
- ⊙ WATER WELL
- UNIT BOUNDARY
- - - ADJOINING UNIT BOUNDARY
- - - SURFACE BOUNDARY

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well(Farm) Name CYPHER A UNIT		Well # 3H	Serial # N/A
Address 502 KEYSTONE DRIVE, WARRENDALE, PA. 15086		County BUTLER	Municipality CLEARFIELD		Well Type GAS	
911 address of well site 150 DONALDSON ROAD FENNELTON, PA 16034		USGS 7 1/2 Quadrangle Map Name CHICORA		Map Section 7	Surface Elevation 1230 ft	
Surveyor MARK J. ORKWIS	PHONE # 724-354-2030	DWG # 3H	Date 02/01/2013	Scale 1=1000 FT	Tract Acreage 567 ACRES +-	
Lat & Long Metadata Method DIRECT GPS	Accuracy +3 feet	Datum NAD 83	Elevation Metadata Method DIRECT GPS	Accuracy +3 ft.	Datum NAVD 88	Survey Date 08-23-12

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Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 12588'	
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude Longitude of Water Supply			
Point#	NAME	Distance (ft)				
✓ 1715	Evelyn M. Denny	793	N40°52'55.21"		W79°44'48.96"	
✓ 1714	Evelyn M. Denny	2,556	N40°52'33.88"		W79°44'47.08"	
✓ 1705	Evelyn M. Denny	2,575	N40°52'34.29"		W79°44'45.14"	
✓ 1700	Phillip J. Biedenbaugh	1,225	N40°53'06.79"		W79°45'09.09"	
✓ 1707	Raymond W. Denny Jr.	1,377	N40°52'45.26"		W79°44'51.03"	
✓ 1706	Raymond W. Denny Jr.	2,129	N40°52'37.67"		W79°44'49.63"	
✓ 1718	Ronald P. Cypher, et ux	1,535	N40°52'42.52"		W79°45'01.89"	
✓ 1720	Ronald P. Cypher, et ux	1,737	N40°52'40.36"		W79°44'58.38"	
✓ 1719	Ronald P. Cypher, et ux	1,853	N40°52'39.30"		W79°45'01.32"	
✓ 1750	Judith R. McCrea Trust	1,617	N40°52'54.71"		W79°44'38.11"	
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✓ 1709	Stephen L. Blatt, et ux	1,821	N40°52'42.87"		W79°44'45.07"	
✓ 1752	Kenneth A, Miller, et ux	1,836	N40°52'48.01"		W79°45'19.19"	
✓ 1731	Timothy S. McGregor, et ux	1,891	N40°52'38.92"		W79°44'56.31"	
✓ 1746	Jeffrey A. Fowler, et ux	1,905	N40°52'52.83"		W79°45'22.85"	
✓ 1747	William D. Bowser, et ux	1,925	N40°52'43.69"		W79°45'16.04"	
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✓ 1734	John Miller, et ux	2,116	N40°52'44.65"		W79°45'20.55"	
✓ 1732	John E. Kudamik, et ux	2,154	N40°52'40.44"		W79°45'15.58"	
✓ 1701	Misty L. Booher, et vir	2,158	N40°53'17.32"		W79°45'09.29"	
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✓ 1742	James W. Plunkard, et ux	2,177	N40°53'13.71"		W79°45'17.51"	
✓ 1753	Cheryl A. Stull	2,197	N40°52'51.26"		W79°45'26.22"	
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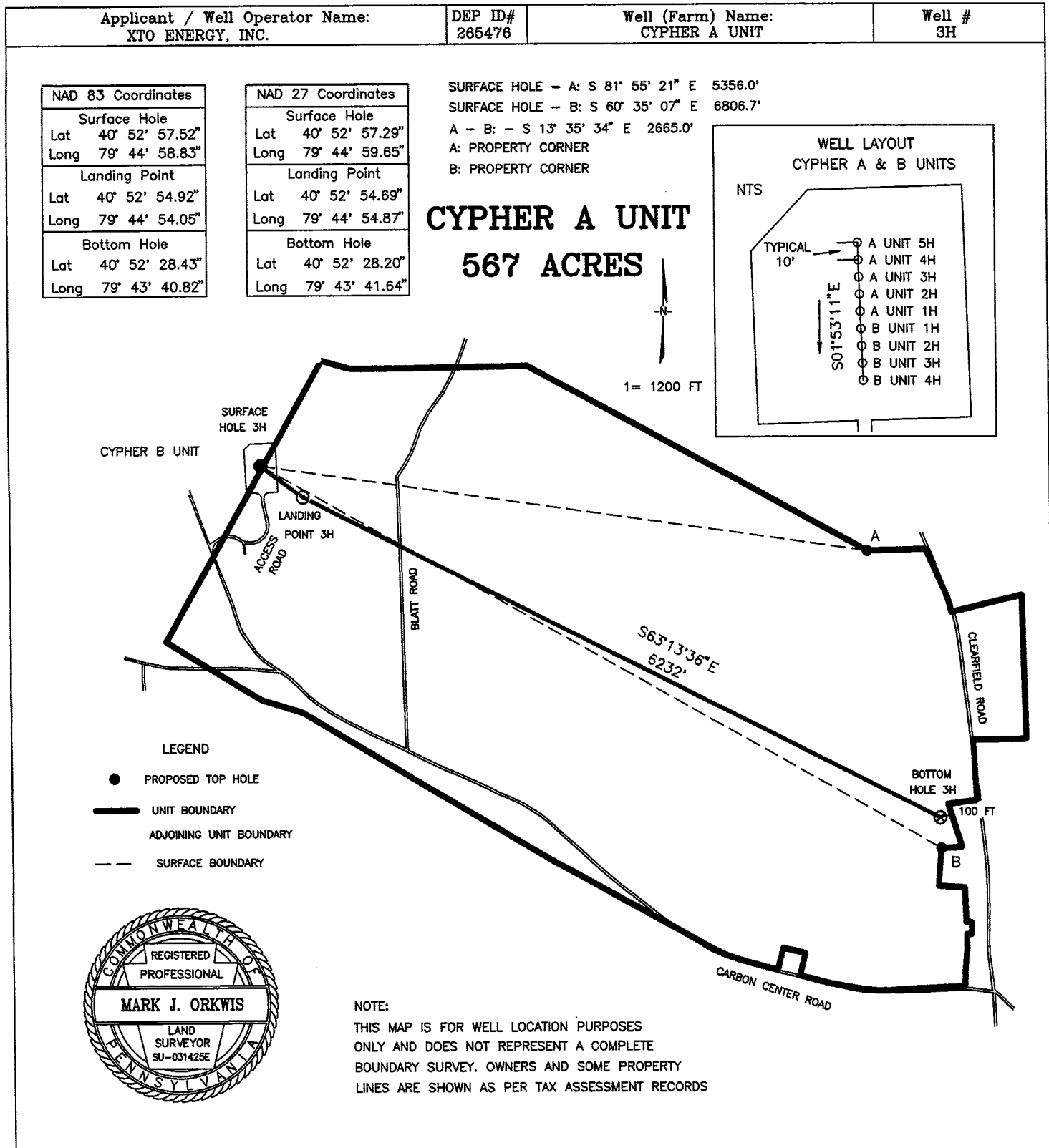
Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER A UNIT		Well # 3H	Serial # N/A
Surface Landowner / Lessor: Ronald P. Cypher, et ux			Angle & Course of Deviation (drilling) S 63° 13' 36" E		Anticipated True Vertical Depth Feet (TVD): 5935'	Anticipated Total Measured Depth Feet (TMD): 12588'
Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus		Number of laterals: 1	Total footage to be drilled all laterals: 12588'
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			
Clearfield Township //						
Donegal Township //						
Winfield Township //						
Jefferson Township //						
Summit Township //			Coal related parties			
Oakland Township //			Ronald P. Cypher, et ux (OWNERS)– all seams			
West Franklin Township, Armstrong County //						

WELL LOCATION PLAT**Page 3 Plan View of Deviated Well Bore**

If well has a lateral other than vertical show the bottom hole location on the plat drawing ⊗ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.



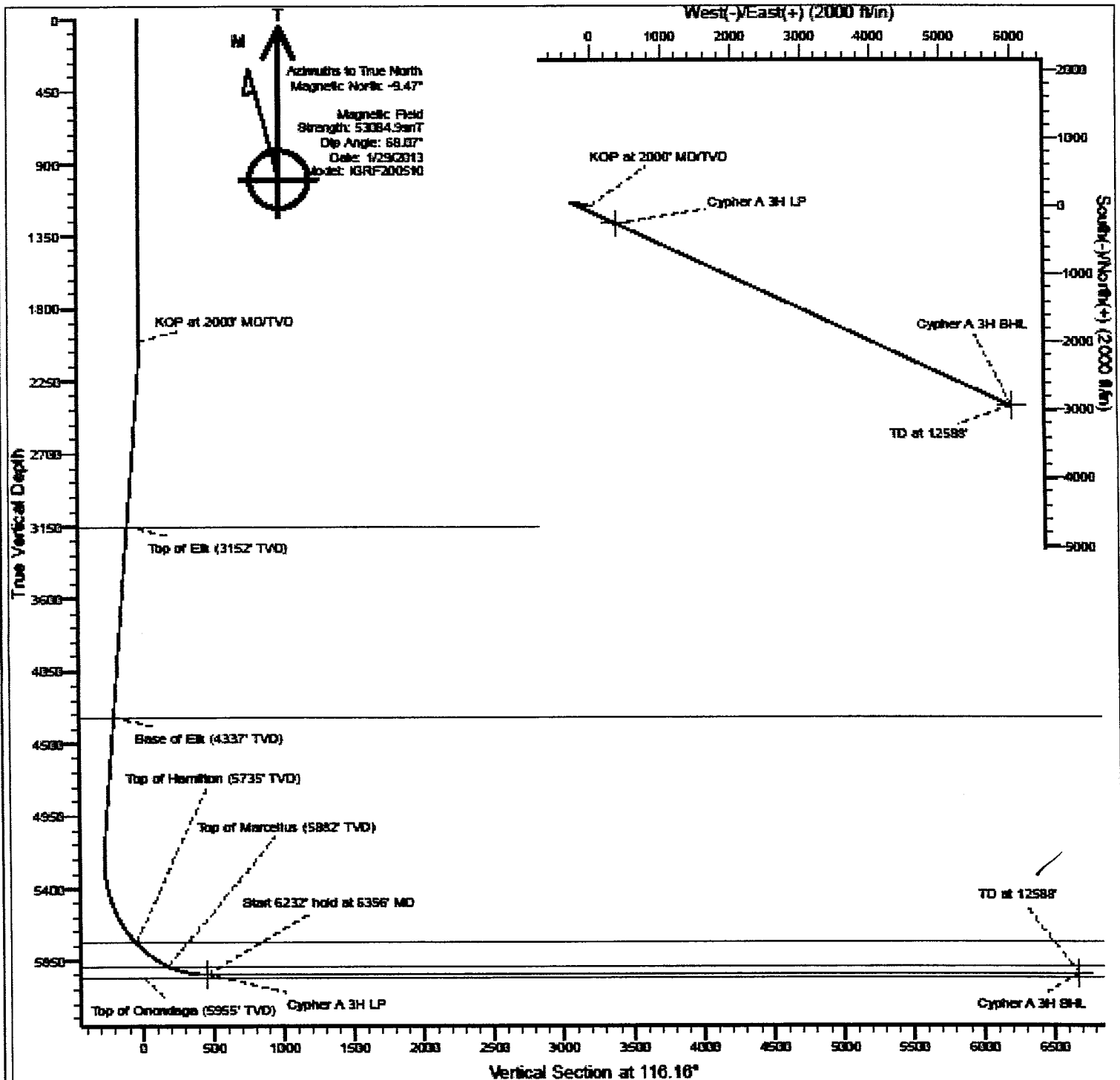
WELL LOCATION PLAT

Page 4 Cross Section

Applicant/Well Operator Name XTO ENERGY, INC.	DEP ID# 265476	Well (Farm) Name CYPHER A UNIT	Well # 3H
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KOP:	TVD: 2000'	TMD: 2000'	Latitude 40 52 57.52	Longitude 79 44 58.83
Landing Point	TVD: 5935'	TMD: 6356'	40 52 54.92	79 44 54.05

DEP	Permit #
Use	
Only	





pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program

WELL LOCATION PLAT

PAGE 1 SURFACE LOCATION

DEP USE ONLY	Auth ID #	1-29-13
	Permit #	019-22019
	Project #	

Well is located on topo map 12,414 feet south of latitude 40 ° 55 ' 00 "

NOTE:

THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. OWNERS AND SOME PROPERTY LINES ARE SHOWN AS PER TAX ASSESSMENT RECORDS

☐	Denotes location of well on topo map.
True Latitude: NORTH (NAD 83) 40° 52' 57.33"	
True Longitude: WEST (NAD 83) 79° 44' 58.82"	
True Latitude: NORTH (NAD 27) 40° 52' 57.10"	
True Longitude: WEST (NAD 27) 79° 44' 59.64"	

CYPHER A UNIT
567 ACRES

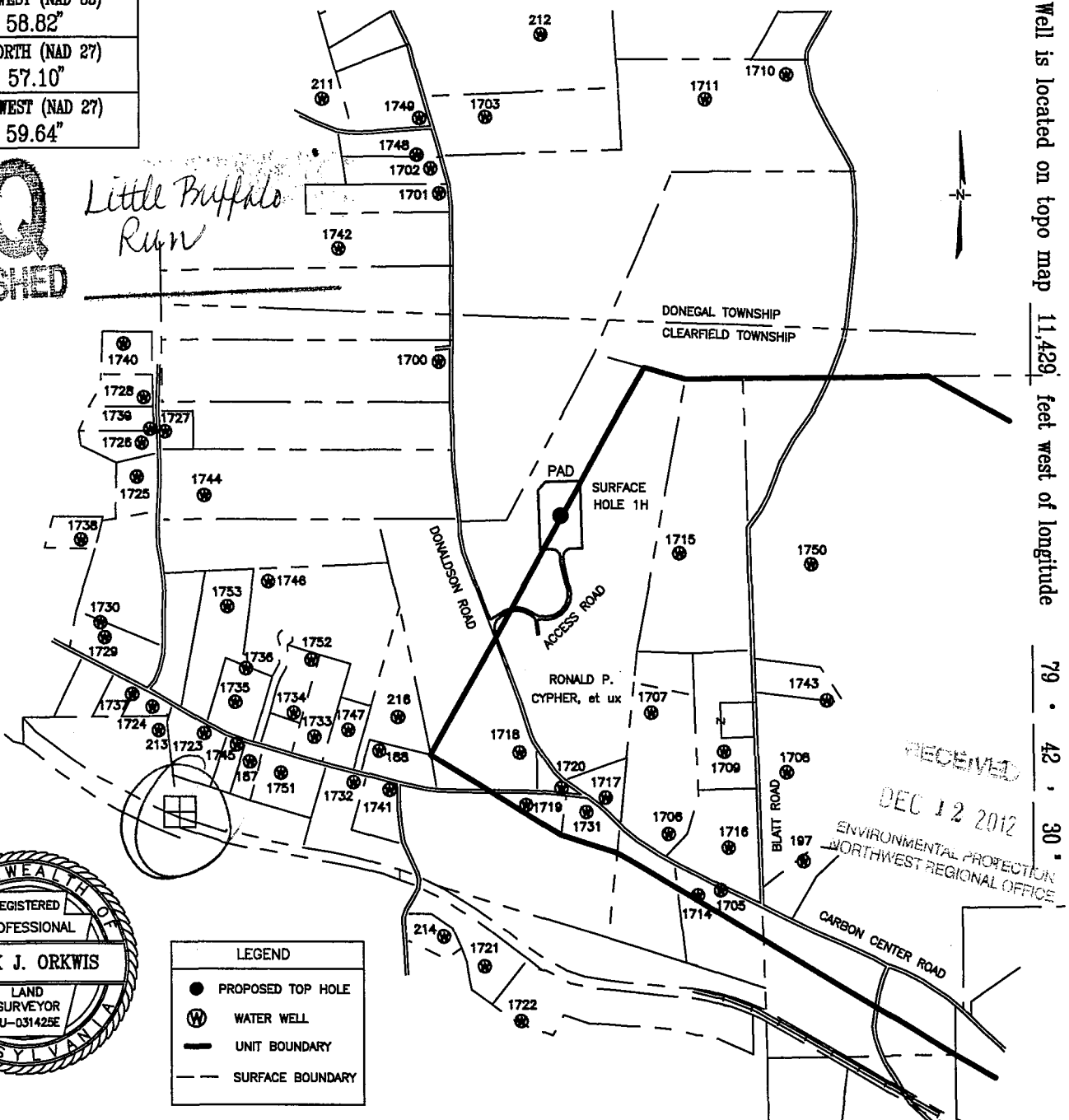
HQ
WATERSHED

Little Buffalo Run

Well is located on topo map 11,429 feet west of longitude 79 ° 42 ' 30 "



LEGEND	
●	PROPOSED TOP HOLE
⊙	WATER WELL
—	UNIT BOUNDARY
- - -	SURFACE BOUNDARY



Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well(Farm) Name CYPHER A UNIT		Well # 1H	Serial # N/A
Address 502 KEYSTONE DRIVE, WARRENDALE, PA. 15086			County BUTLER	Municipality CLEARFIELD	Well Type GAS	
911 address of well site			USGS 7 1/2 Quadrangle Map Name CHICORA		Map Section 7	Surface Elevation 1235 ft
Surveyor MARK J. ORKWIS	PHONE # 724-354-2030	DWG # A1H	Date 11/19/2012	Scale 1=1000 FT	Tract Acreage 567 ACRES +-	
Lat & Long Metadata Method DIRECT GPS	Accuracy +3 feet	Datum NAD 83	Elevation Metadata Method DIRECT GPS	Accuracy +3 ft.	Datum NAVD 88	Survey Date 08-23-12

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER A UNIT	Well # 1H	Serial # N/A
Surface Landowner / Lessor: Ronald P. Cypher, et ux			Angle & Course of Deviation (drilling) S 63° 13' 36"E	Anticipated True Vertical Depth Feet (TVD): 5935'	Anticipated Total Measured Depth Feet (TMD): 13027'
Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 13027'
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude Longitude of Water Supply		
Point#	NAME	Distance (ft)			
1715	Evelyn M. Denny	787	N40°52'55.21"		
1714	Evelyn M. Denny	2,538	N40°52'33.88"		
1705	Evelyn M. Denny	2,557	N40°52'34.29"		
1700	Phillip J. Biedenbaugh	1,240	N40°53'06.79"		
1707	Raymond W. Denny Jr.	1,359	N40°52'45.26"		
1706	Raymond W. Denny Jr.	2,111	N40°52'37.67"		
1718	Ronald P. Cypher, et ux	1,517	N40°52'42.52"		
1720	Ronald P. Cypher, et ux	1,717	N40°52'40.36"		
1719	Ronald P. Cypher, et ux	1,834	N40°52'39.30"		
1750	Judith R. McCrea Trust	1,612	N40°52'54.71"		
1708	Judith R. McCrea Trust	2,151	N40°52'41.67"		
216	David G. Fischer SR et ux	1,635	N40°52'44.60"		
188	David G. Fischer SR et ux	1,881	N40°52'42.39"		
1717	Bruce McGregor	1,795	N40°52'39.86"		
1709	Stephen L. Blatt, et ux	1,805	N40°52'42.87"		
1752	Kenneth A. Miller, et ux	1,827	N40°52'48.01"		
1731	Timothy S. McGregor, et ux	1,872	N40°52'38.92"		
1746	Jeffrey A. Fowler, et ux	1,901	N40°52'52.83"		
1747	William D. Bowser, et ux	1,911	N40°52'43.69"		
1743	Troy M. Somple	2,033	N40°52'46.29"		
1741	Charles Green	2,047	N40°52'39.98"		
1733	Bryce A. Anthony, et ux	2,102	N40°52'43.24"		
1734	John Miller, et ux	2,105	N40°52'44.65"		
1732	John E. Kudamik, et ux	2,139	N40°52'40.44"		
1701	Misty L. Booher, et vir	2,177	N40°53'17.32"		
1702	Misty L. Booher, et vir	2,340	N40°53'18.83"		
1742	James W. Plunkard, et ux	2,192	N40°53'13.71"		
1753	Cheryl A. Stull	2,192	N40°52'51.26"		
1736	Irvin P. Summerville, et ux	2,217	N40°52'47.34"		
1735	Irvin P. Summerville, et ux	2,375	N40°52'45.30"		

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Surface Point#	Owner/Water Purveyor w/ NAME	Water Supply within 1000'/3000' Distance (ft)	Latitude Longitude of Water Supply	
1744	Thomas E. Livermore, et ux	2,256	N40°52'58.17"	W79°45'28.18"
1716	Loretta J. Karenbauer, et vir	2,348	N40°52'36.81"	W79°44'44.55"
1751	James R. Fischer, et ux	2,410	N40°52'40.92"	W79°45'21.56"
1748	Kenneth A. Schnur	2,450	N40°53'19.64"	W79°45'11.21"
1745	Mark W. McCue	2,512	N40°52'42.61"	W79°45'25.16"
187	Basil R. Stewart, et ux	2,513	N40°52'41.57"	W79°45'24.11"
1727	Joseph C. Bzorek	2,557	N40°53'02.07"	W79°45'31.52"
1703	William P. Andrews	2,563	N40°53'22.12"	W79°45'05.65"
1723	Edwin R. Somerville	2,650	N40°52'43.21"	W79°45'27.87"
1739	Thomas J. Kopnick	2,651	N40°53'02.20"	W79°45'32.73"
197	Wayne A. Presseau	2,658	N40°52'36.13"	W79°44'38.40"
1749	Russel J. Dunn, et ux	2,664	N40°53'21.95"	W79°45'11.12"
1726	Michael D. Graham	2,691	N40°53'01.38"	W79°45'33.45"
1725	Paul F. Smith	2,696	N40°52'59.22"	W79°45'33.83"
1728	Kelly A. Macdonald, et al	2,738	N40°53'04.17"	W79°45'33.31"
214	William Hogan	2,760	N40°52'30.95"	W79°45'07.97"
1711	Gary A. Walker, et ux	2,792	N40°53'23.55"	W79°44'47.46"
1724	Richard Barkley, et al c/o Joshua Rodgers	2,855	N40°52'44.85"	W79°45'32.16"
213	Brenda L. Shaffer, et al	2,883	N40°52'43.40"	W79°45'31.56"
1721	Paul J. Wilson	2,885	N40°52'29.16"	W79°45'04.57"
1737	Donald J. McCorrey, et ux	2,940	N40°52'45.56"	W79°45'33.82"
1740	David Miller	2,969	N40°53'07.47"	W79°45'35.10"
1729	Gerald L. Garing, et ux	2,988	N40°52'49.16"	W79°45'36.20"
1730	Gerald L. Garing, et ux	2,996	N40°52'50.07"	W79°45'36.64"
211	James W. Fennell	3,034	N40°53'23.08"	W79°45'19.07"
1738	Nathan Rodgers	3,036	N40°52'55.20"	W79°45'38.25"
212	Jack L. Kaltenbaugh	3,039	N40°53'27.31"	W79°45'01.13"

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet	Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet
Clearfield Township	
Donegal Township	
Winfield Township	
Jefferson Township	
Summit Township	Coal related parties
Oakland Township	Ronald P. Cypher, et ux – all seams
West Franklin Township, Armstrong County	

WELL LOCATION PLAT**Page 3 Plan View of Deviated Well Bore**

If well has a lateral other than vertical show the bottom hole location on the plat drawing  and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.

Applicant / Well Operator Name: XTO ENERGY, INC.	DEP ID# 265476	Well (Farm) Name: CYPHER A UNIT	Well # 1H
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">NAD 83 Coordinates</th></tr> <tr><td colspan="2">Surface Hole</td></tr> <tr><td>Lat</td><td>40° 52' 57.33"</td></tr> <tr><td>Long</td><td>79° 44' 58.82"</td></tr> <tr><td colspan="2">Landing Point</td></tr> <tr><td>Lat</td><td>40° 52' 41.54"</td></tr> <tr><td>Long</td><td>79° 45' 02.45"</td></tr> <tr><td colspan="2">Bottom Hole</td></tr> <tr><td>Lat</td><td>40° 52' 14.19"</td></tr> <tr><td>Long</td><td>79° 43' 46.85"</td></tr> </table>	NAD 83 Coordinates		Surface Hole		Lat	40° 52' 57.33"	Long	79° 44' 58.82"	Landing Point		Lat	40° 52' 41.54"	Long	79° 45' 02.45"	Bottom Hole		Lat	40° 52' 14.19"	Long	79° 43' 46.85"	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">NAD 27 Coordinates</th></tr> <tr><td colspan="2">Surface Hole</td></tr> <tr><td>Lat</td><td>40° 52' 57.10"</td></tr> <tr><td>Long</td><td>79° 44' 59.64"</td></tr> <tr><td colspan="2">Landing Point</td></tr> <tr><td>Lat</td><td>40° 52' 41.31"</td></tr> <tr><td>Long</td><td>79° 45' 03.27"</td></tr> <tr><td colspan="2">Bottom Hole</td></tr> <tr><td>Lat</td><td>40° 52' 13.96"</td></tr> <tr><td>Long</td><td>79° 43' 47.67"</td></tr> </table>	NAD 27 Coordinates		Surface Hole		Lat	40° 52' 57.10"	Long	79° 44' 59.64"	Landing Point		Lat	40° 52' 41.31"	Long	79° 45' 03.27"	Bottom Hole		Lat	40° 52' 13.96"	Long	79° 43' 47.67"
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Bottom Hole																																									
Lat	40° 52' 13.96"																																								
Long	79° 43' 47.67"																																								

✓ SURFACE HOLE - A: S 82° 07' 33" E 5353.02'

✓ SURFACE HOLE - B: S 60° 43' 30" E 6796.96'

A - B: - S 13° 35' 34" E 2865.01'

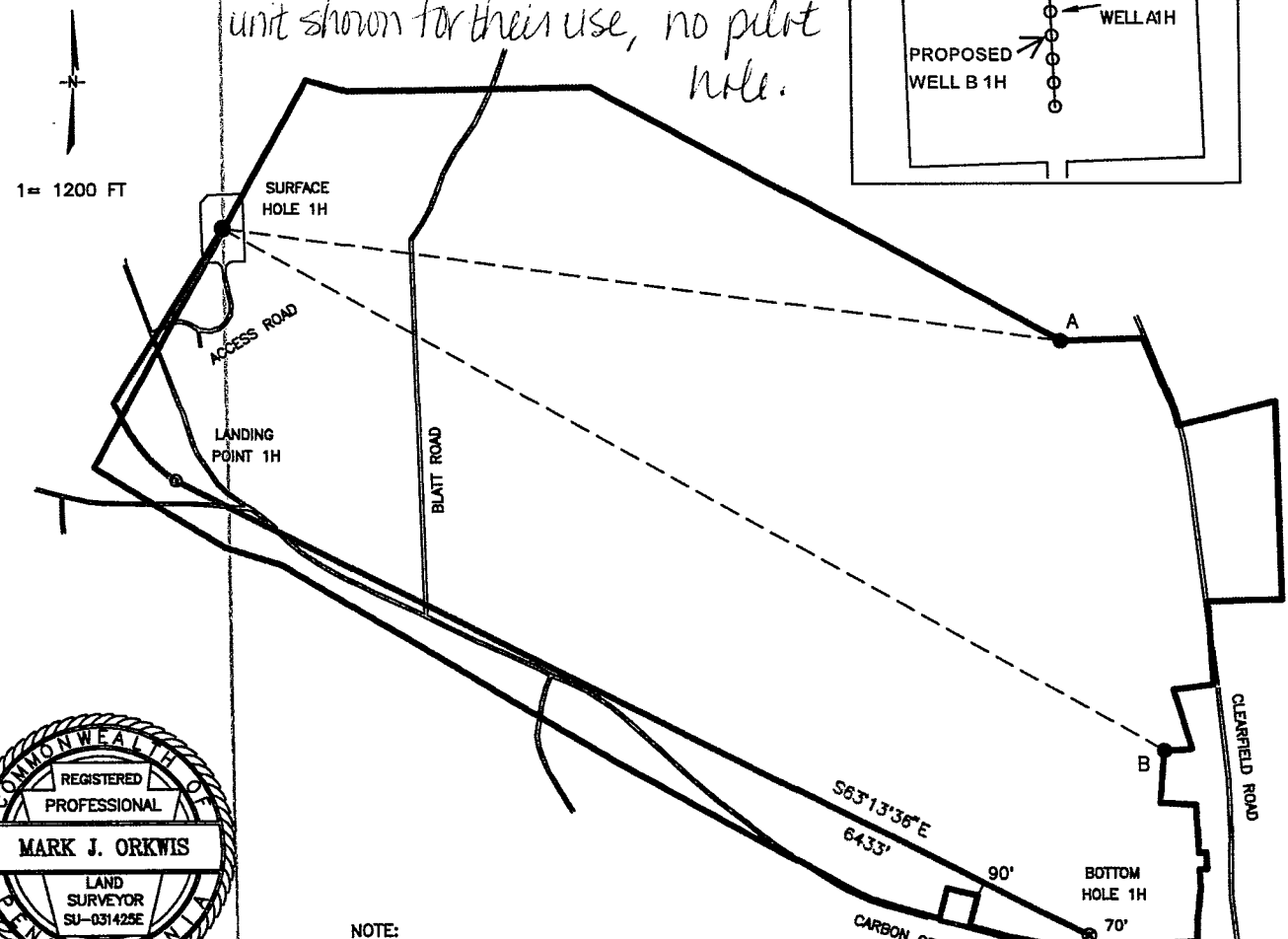
A: PROPERTY CORNER

B: PROPERTY CORNER

CYPHER A UNIT

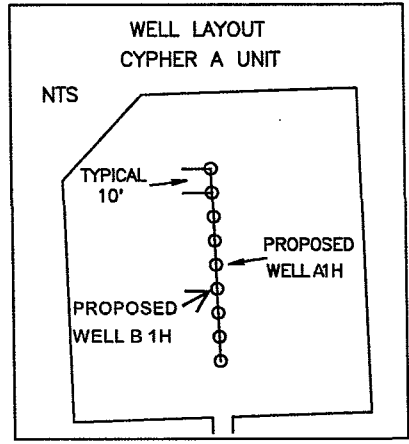
567 ACRES

unit shown for their use, no pilot hole.



WELL LAYOUT CYPHER A UNIT

NTS





NOTE:

THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. OWNERS AND SOME PROPERTY LINES ARE SHOWN AS PER TAX ASSESSMENT RECORDS

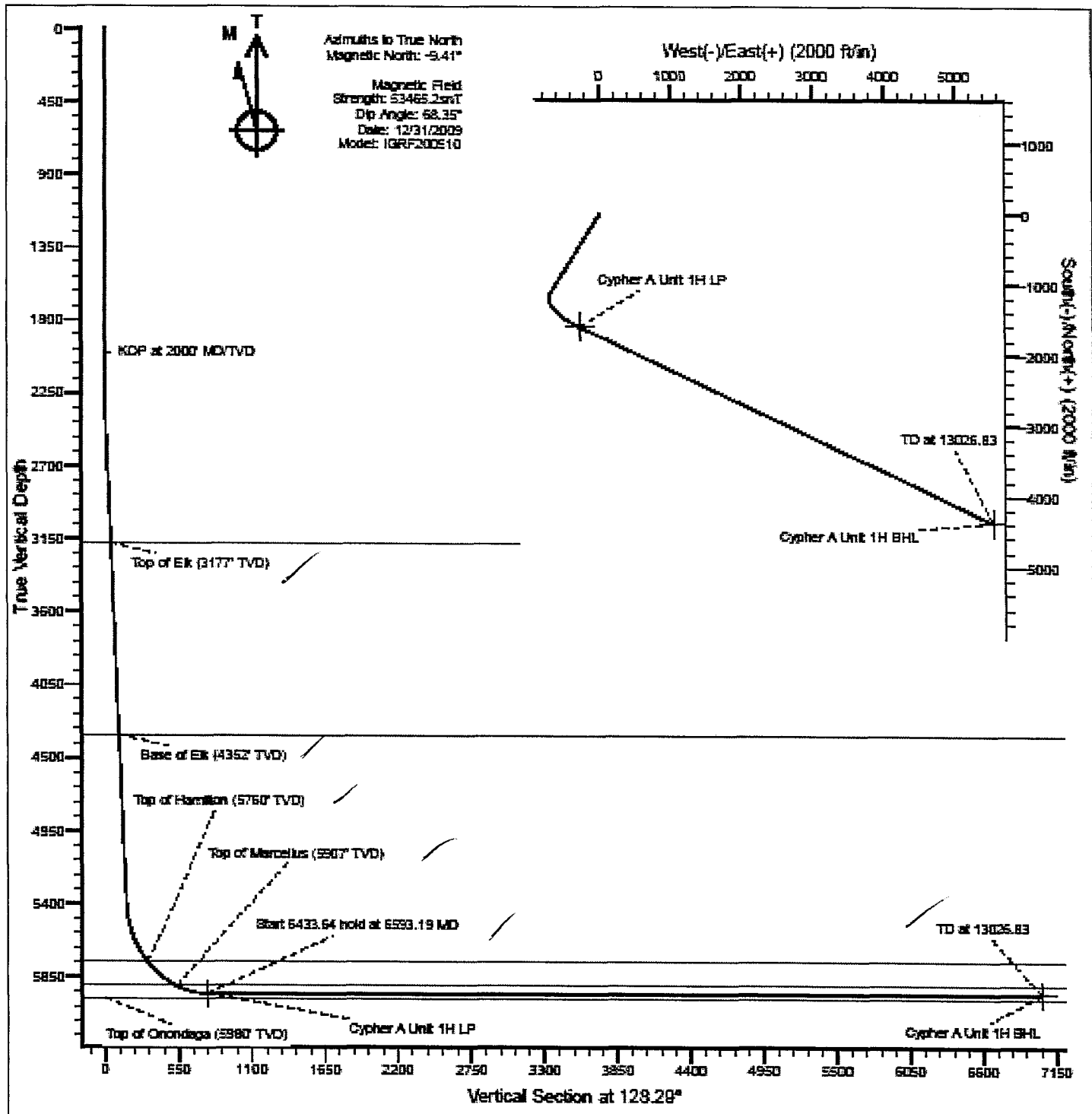
WELL LOCATION PLAT

Page 4 Cross Section

Applicant/Well Operator Name XTO ENERGY, INC.	DEP ID# 265476	Well (Farm) Name CYPHER A UNIT	Well # 1H
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KOP: TVD: 2000'	TMD: 2000'	Latitude 40 52 57.33	Longitude 79 44 58.82
Landing Point TVD: 5935'	TMD: 6593.19'	40 52 41.54	79 45 02.45

DEP Use Only	Permit #
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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program

WELL LOCATION PLAT

PAGE 1 SURFACE LOCATION

DEP USE ONLY	Auth ID #	1-29-13
	Permit #	019-22020
	Project #	C:

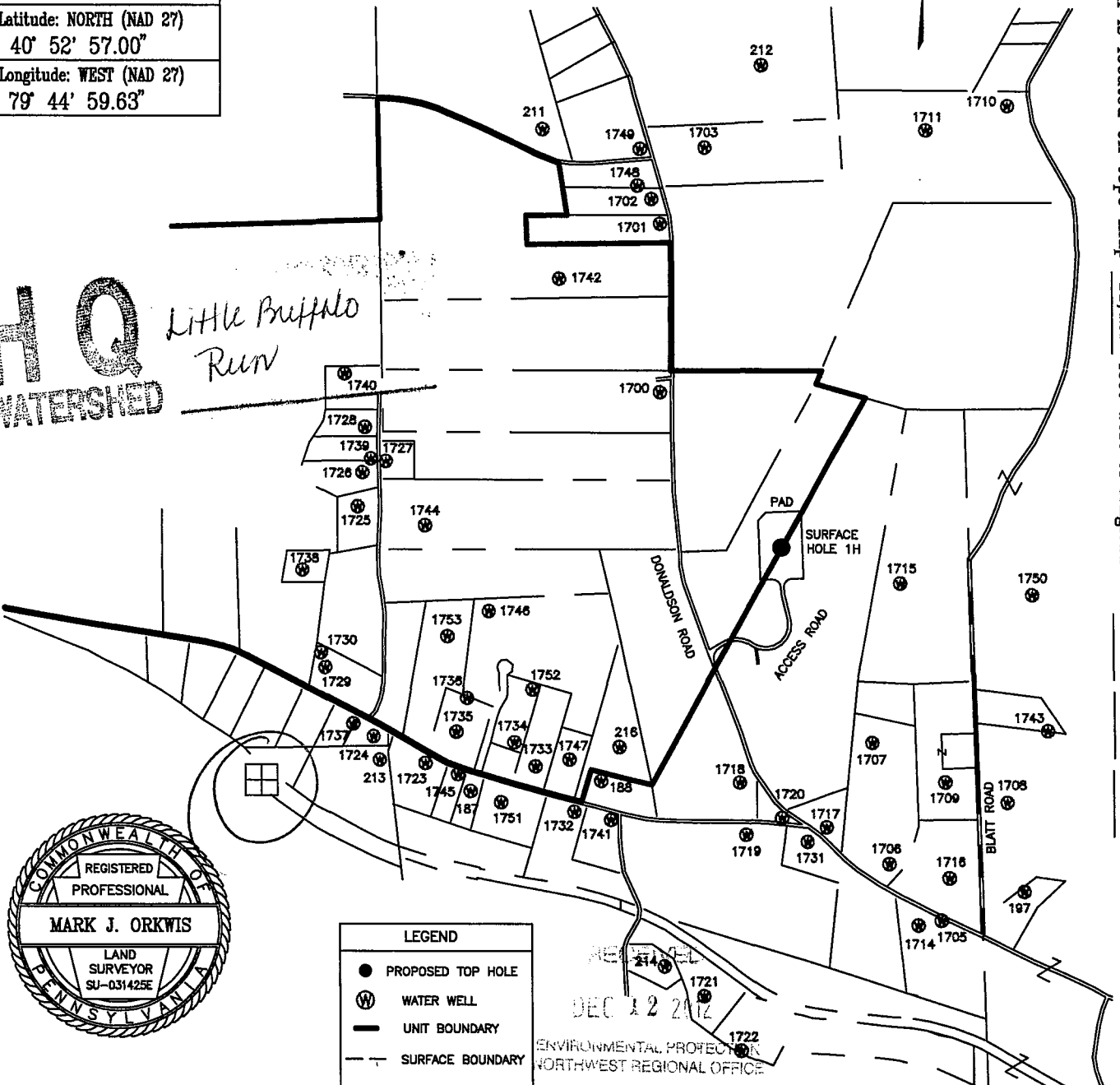
Well is located on topo map 12.424 feet south of latitude 40° 55' 00"

	Denotes location of well on topo map.
True Latitude: NORTH (NAD 83) 40° 52' 57.23"	
True Longitude: WEST (NAD 83) 79° 44' 58.81"	
True Latitude: NORTH (NAD 27) 40° 52' 57.00"	
True Longitude: WEST (NAD 27) 79° 44' 59.63"	

CYPHER B UNIT
365 ACRES

HQ
WATERSHED

Little Buffalo Run



Well is located on topo map 11.429 feet west of longitude 79° 42' 30"



LEGEND	
	PROPOSED TOP HOLE
	WATER WELL
	UNIT BOUNDARY
	SURFACE BOUNDARY

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476		Well(Farm) Name CYPHER B UNIT		Well # 1H		Serial # N/A	
Address 502 KEYSTONE DRIVE, WARRENDALE, PA. 15086				County BUTLER		Municipality CLEARFIELD		Well Type GAS	
911 address of well site				USGS 7 1/2 Quadrangle Map Name CHICORA		Map Section 7		Surface Elevation 1235 ft	
Surveyor MARK J. ORKWIS		PHONE # 724-354-2030		DWG # B1H		Date 11-19-12		Scale 1=1000 FT	
Lat & Long Metadata Method DIRECT GPS		Accuracy +3 feet		Datum NAD 83		Elevation Metadata Method DIRECT GPS		Accuracy +10 ft.	
						Datum NAVD 88		Survey Date 08-23-12	

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Applicant / Well Operator Name XTO ENERGY, INC.		DEP ID# 265476	Well (Farm) Name CYPHER B UNIT	Well # 1H	Serial #
Surface Landowner / Lessor: Ronald P. Cypher, et ux			Angle & Course of Deviation (Drilling): N 73° 08' 48" W	Anticipated True Vertical Depth Feet (TVD): 5935'	Anticipated Total Measured Depth Feet (TMD): 10,421'
Target Formation(s): Marcellus			Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 10,421'
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000' Point# NAME Distance (ft)			Latitude Longitude of Water Supply		
1715	Evelyn M. Denny	783	N40°52'55.21"	W79°44'48.96"	/
1714	Evelyn M. Denny	2,528	N40°52'33.88"	W79°44'47.08"	/
1705	Evelyn M. Denny	2,547	N40°52'34.29"	W79°44'45.14"	/
1700	Phillip J. Biedenbaugh	1,248	N40°53'06.79"	W79°45'09.09"	/
1707	Raymond W. Denny Jr.	1,350	N40°52'45.26"	W79°44'51.03"	/
1706	Raymond W. Denny Jr.	2,101	N40°52'37.67"	W79°44'49.63"	/
1718	Ronald P. Cypher, et ux	1,507	N40°52'42.52"	W79°45'01.89"	/
1720	Ronald P. Cypher, et ux	1,707	N40°52'40.36"	W79°44'58.38"	/
1719	Ronald P. Cypher, et ux	1,824	N40°52'39.30"	W79°45'01.32"	/
1750	Judith R. McCrea Trust	1,610	N40°52'54.71"	W79°44'38.11"	/
1708	Judith R. McCrea Trust	2,143	N40°52'41.67"	W79°44'39.87"	/
216	David G. Fischer SR et ux	1,627	N40°52'44.60"	W79°45'11.93"	/
188	David G. Fischer SR et ux	1,873	N40°52'42.39"	W79°45'13.40"	/
1717	Bruce McGregor	1,785	N40°52'39.86"	W79°44'54.72"	/
1709	Stephen L. Blatt, et ux	1,796	N40°52'42.87"	W79°44'45.07"	/
1752	Kenneth A. Miller, et ux	1,822	N40°52'48.01"	W79°45'19.19"	/
1731	Timothy S. McGregor, et ux	1,862	N40°52'38.92"	W79°44'56.31"	/
1746	Jeffrey A. Fowler, et ux	1,899	N40°52'52.83"	W79°45'22.85"	/
1747	William D. Bowser, et ux	1,905	N40°52'43.69"	W79°45'16.04"	/
1743	Troy M. Somple	2,027	N40°52'46.29"	W79°44'36.70"	20
1741	Charles Green	2,039	N40°52'39.98"	W79°45'12.54"	/
1733	Bryce A. Anthony, et ux	2,095	N40°52'43.24"	W79°45'18.92"	/
1734	John Miller, et ux	2,099	N40°52'44.65"	W79°45'20.55"	/
1732	John E. Kudamik, et ux	2,132	N40°52'40.44"	W79°45'15.58"	/
1701	Misty L. Booher, et vir	2,186	N40°53'17.32"	W79°45'09.29"	/
1702	Misty L. Booher, et vir	2,350	N40°53'18.83"	W79°45'10.06"	/
1753	Cheryl A. Stull	2,190	N40°52'51.26"	W79°45'26.22"	/
1742	James W. Plunkard, et ux	2,200	N40°53'13.71"	W79°45'17.51"	/
1736	Irvin P. Summerville, et ux	2,213	N40°52'47.34"	W79°45'24.52"	/
1735	Irvin P. Summerville, et ux	2,371	N40°52'45.30"	W79°45'25.39"	/

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Surface Point#	Owner/Water Purveyor w/ NAME	Water Supply within 1000'/3000' Distance (ft)	Latitude Longitude of Water Supply	
1744	Thomas E. Livermore, et ux	2,257	N40°52'58.17"	W79°45'28.18" ✓
1716	Loretta J. Karenbauer, et vir	2,338	N40°52'36.81"	W79°44'44.55" ✓
1751	James R. Fischer, et ux	2,403	N40°52'40.92"	W79°45'21.56" ✓
1748	Kenneth A. Schnur	2,460	N40°53'19.64"	W79°45'11.21" ✓
1745	Mark W. McCue	2,506	N40°52'42.61"	W79°45'25.16" ✓
187	Basil R. Stewart, et ux	2,507	N40°52'41.57"	W79°45'24.11" ✓
1727	Joseph C. Bzorek	2,559	N40°53'02.07"	W79°45'31.52" ✓
1703	William P. Andrews	2,573	N40°53'22.12"	W79°45'05.65" ✓
1723	Edwin R. Somerville	2,645	N40°52'43.21"	W79°45'27.87" ✓
197	Wayne A. Presseau	2,649	N40°52'36.13"	W79°44'38.40" ✓ 10
1739	Thomas J. Kopnick	2,654	N40°53'02.20"	W79°45'32.73" ✓
1749	Russel J. Dunn, et ux	2,674	N40°53'21.95"	W79°45'11.12" ✓
1726	Michael D. Graham	2,694	N40°53'01.38"	W79°45'33.45" ✓
1725	Paul F. Smith	2,697	N40°52'59.22"	W79°45'33.83" ✓
1728	Kelly A. Macdonald, et al	2,741	N40°53'04.17"	W79°45'33.31" ✓
214	William Hogan	2,751	N40°52'30.95"	W79°45'07.97" ✓
1711	Gary A. Walker, et ux	2,802	N40°53'23.55"	W79°44'47.46" ✓
1724	Richard Barkley, et al c/o Joshua Rodgers	2,851	N40°52'44.85"	W79°45'32.16" ✓
1721	Paul J. Wilson	2,875	N40°52'29.16"	W79°45'04.57" ✓
213	Brenda L. Shaffer, et al	2,879	N40°52'43.40"	W79°45'31.56" ✓ 20
1737	Donald J. McCorrey, et ux	2,937	N40°52'45.56"	W79°45'33.82" ✓
1740	David Miller	2,974	N40°53'07.47"	W79°45'35.10" ✓
1729	Gerald L. Garing, et ux	2,986	N40°52'49.16"	W79°45'36.20" ✓
1730	Gerald L. Garing, et ux	2,994	N40°52'50.07"	W79°45'36.64" ✓
1738	Nathan Rodgers	3,036	N40°52'55.20"	W79°45'38.25" ✓
211	James W. Fennell	3,043	N40°53'23.08"	W79°45'19.07" ✓
212	Jack L. Kaltenbaugh	3,049	N40°53'27.31"	W79°45'01.13" ✓

27
30
57

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**

Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet	Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet
Clearfield Township	
Donegal Township	
Winfield Township	
Jefferson Township	
Summit Township	Coal related parties
Oakland Township	Ronald P. Cypher, et ux – all seams
West Franklin Township, Armstrong County	

WELL LOCATION PLAT**Page 3 Plan View of Deviated Well Bore**

If well has a lateral other than vertical show the bottom hole location on the plat drawing ⊗ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.

Applicant / Well Operator Name: XTO ENERGY, INC.	DEP ID# 285478	Well (Farm) Name: CYPHER B UNIT	Well # 1H
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NAD 83 Coordinates	NAD 27 Coordinates
Surface Hole Lat 40° 52' 57.23" Long 79° 44' 58.81"	Surface Hole Lat 40° 52' 57.00" Long 79° 44' 59.63"
Landing Point Lat 40° 53' 04.99" Long 79° 44' 58.01"	Landing Point Lat 40° 53' 04.76" Long 79° 44' 58.83"
Bottom Hole Lat 40° 53' 15.73" Long 79° 45' 48.87"	Bottom Hole Lat 40° 53' 15.50" Long 79° 45' 49.69"

✓ SURFACE HOLE - A: N 69° 51' 00" W 5740.6'
 ✓ SURFACE HOLE - B: N 50° 34' 06" W 3261.3'
 A - B: - N 88° 07' 32" E 2871.8'
 A: PROPERTY CORNER - REBAR
 B: PROPERTY CORNER - REBAR

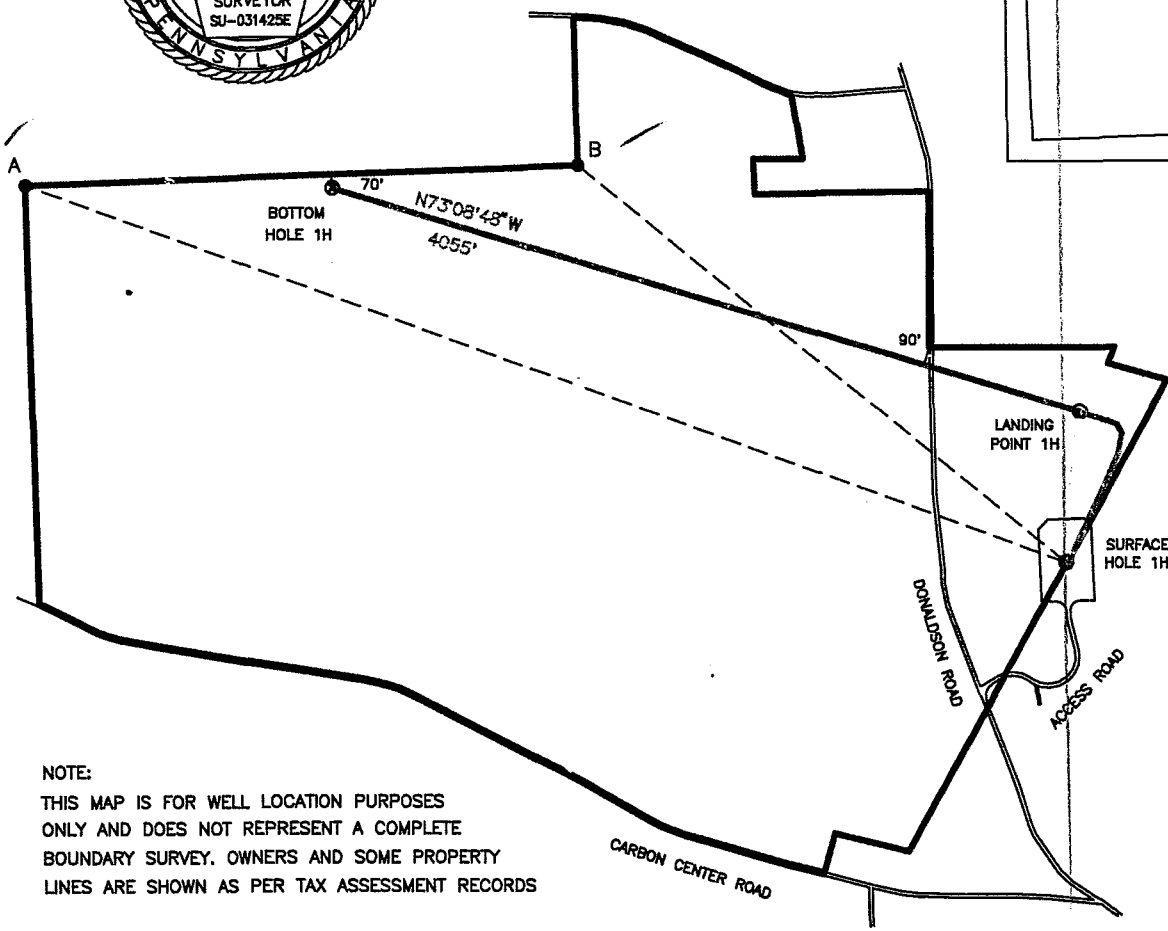
CYPHER B UNIT

365 ACRES

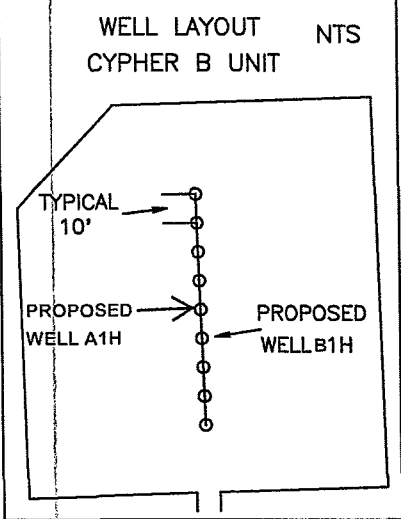


Unit shown for their use, no pilot hole

1=1000 FT



WELL LAYOUT NTS
CYPHER B UNIT



NOTE:
THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. OWNERS AND SOME PROPERTY LINES ARE SHOWN AS PER TAX ASSESSMENT RECORDS

WELL LOCATION PLAT

Page 4 Cross Section

Applicant/Well Operator Name XTO ENERGY, INC.	DEP ID# 265476	Well (Farm) Name CYPHER B UNIT	Well # 1H
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KOP: TVD: 2000'	TMD: 2000'	Latitude 40 52 57.23	Longitude 79 44 58.81
Landing Point TVD: 5935'	TMD: 6365.62'	40 53 04.99	79 44 58.01

DEP	Permit #
Use	
Only	

