

WORTHINGTON A 3H

Office of Oil and Gas

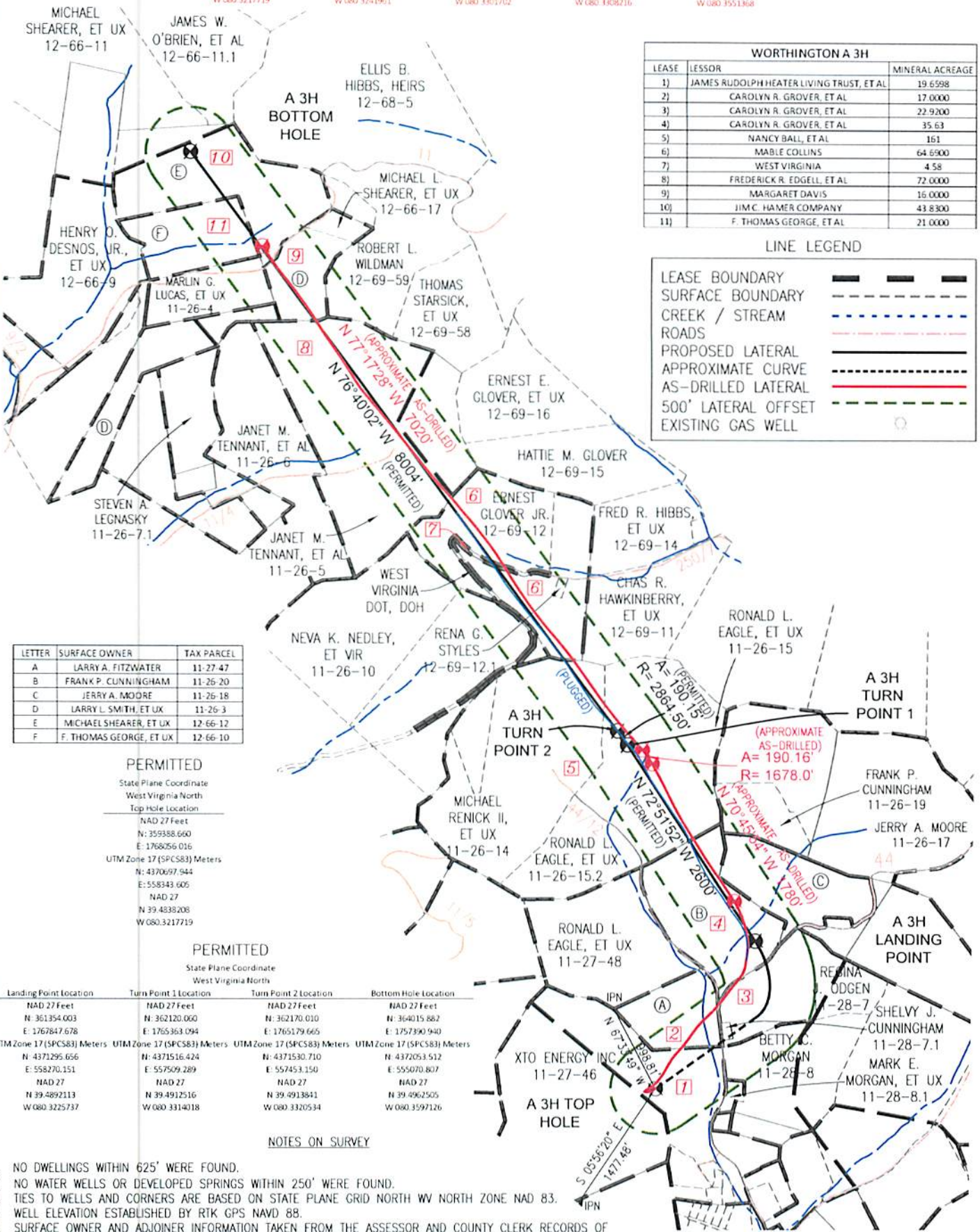
SEP 24 2018

WV Department of Environmental Protection

AS-DRILLED

State Plane Coordinate
West Virginia North

Top Hole Location	Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 359388.660 E: 1768056.016	NAD 27 Feet N: 361547.243 E: 1767391.559	NAD 27 Feet N: 362133.081 E: 1765710.832	NAD 27 Feet N: 362184.171 E: 1765527.443	NAD 27 Feet N: 363728.496 E: 1758679.566
UTM Zone 17 (SPCS83) Meters N: 4370697.944 E: 558343.605	UTM Zone 17 (SPCS83) Meters N: 4371352.232 E: 558130.205	UTM Zone 17 (SPCS83) Meters N: 4371522.341 E: 557615.164	UTM Zone 17 (SPCS83) Meters N: 4371536.791 E: 557599.035	UTM Zone 17 (SPCS83) Meters N: 4371972.503 E: 555404.868
NAD 27 N 39 4838208 W 080 3217719	NAD 27 N 39 4897303 W 080 3241961	NAD 27 N 39 4912979 W 080 3301702	NAD 27 N 39 4914318 W 080 3308216	NAD 27 N 39 4954952 W 080 3551368



WORTHINGTON A 3H		
LEASE	LESSOR	MINERAL ACREAGE
1)	JAMES RUDOLPH HEATER LIVING TRUST, ET AL	19.6598
2)	CAROLYN R. GROVER, ET AL	17.0000
3)	CAROLYN R. GROVER, ET AL	22.9200
4)	CAROLYN R. GROVER, ET AL	35.63
5)	NANCY BALL, ET AL	161
6)	MABLE COLLINS	64.6500
7)	WEST VIRGINIA	4.58
8)	FREDERICK R. EDGELL, ET AL	72.0000
9)	MARGARET DAVIS	16.0000
10)	JIM C. HAMER COMPANY	43.8300
11)	F. THOMAS GEORGE, ET AL	21.0000

LINE LEGEND	
LEASE BOUNDARY	— — — — —
SURFACE BOUNDARY	- - - - -
CREEK / STREAM	— · — · — ·
ROADS	— — — — —
PROPOSED LATERAL	— — — — —
APPROXIMATE CURVE	— · — · — ·
AS-DRILLED LATERAL	— — — — —
500' LATERAL OFFSET	— · — · — ·
EXISTING GAS WELL	⊙

LETTER	SURFACE OWNER	TAX PARCEL
A	LARRY A. FITZWATER	11-27-47
B	FRANK P. CUNNINGHAM	11-26-20
C	JERRY A. MOORE	11-26-18
D	LARRY L. SMITH, ET UX	11-26-3
E	MICHAEL SHEARER, ET UX	12-66-12
F	F. THOMAS GEORGE, ET UX	12-66-10

PERMITTED

State Plane Coordinate
West Virginia North

Top Hole Location

NAD 27 Feet
N: 359388.660
E: 1768056.016

UTM Zone 17 (SPCS83) Meters
N: 4370697.944
E: 558343.605

NAD 27
N 39 4838208
W 080 3217719

PERMITTED

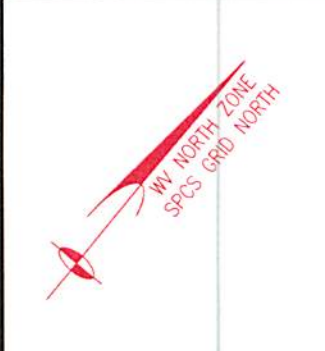
State Plane Coordinate
West Virginia North

Landing Point Location	Turn Point 1 Location	Turn Point 2 Location	Bottom Hole Location
NAD 27 Feet N: 361354.003 E: 1767847.678	NAD 27 Feet N: 362120.060 E: 1765363.094	NAD 27 Feet N: 362170.010 E: 1765179.665	NAD 27 Feet N: 364015.882 E: 1757390.940
UTM Zone 17 (SPCS83) Meters N: 4371295.656 E: 558270.151	UTM Zone 17 (SPCS83) Meters N: 4371516.424 E: 557509.289	UTM Zone 17 (SPCS83) Meters N: 4371530.710 E: 557453.150	UTM Zone 17 (SPCS83) Meters N: 4372053.512 E: 555070.807
NAD 27 N 39 4892113 W 080 3225737	NAD 27 N 39 4912516 W 080 3314018	NAD 27 N 39 4913841 W 080 3320534	NAD 27 N 39 4962505 W 080 3597126

NOTES ON SURVEY

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 83.
- WELL ELEVATION ESTABLISHED BY RTK GPS NAVD 88.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN MAY 2016 AND FILES PROVIDED BY XTO ENERGY, INC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.

JONES CONSULTANTS, LLC



SURVEYING • MAPPING • LAND • GAS WELL • PIPELINE
2402 PENNSYLVANIA 66 DELMONT, PA 15626
(724) 757 - 2417 www.jonesconsultant.com

SUPPLEMENTAL SURFACE AND LESSOR EXHIBIT		
WORTHINGTON A 3H		
Drawn By: JRV	Date: 08/20/18	LINCOLN DISTRICT MARION COUNTY, WEST VIRGINIA
Scale: SCALE 1" = 1500'	Sheet: AFE # 1305457	File No.: SHEET 2 OF 2 JC2016-36



XTO ENERGY INC
 Location: Marion County, WV
 Field: Marion
 Facility: Worthington Unit
 Well: Worthington A Unit 3H ST01
 Slot: Slot #03
 Wellbore: Worthington A Unit 3H ST01 PWB

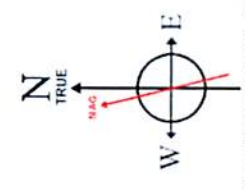
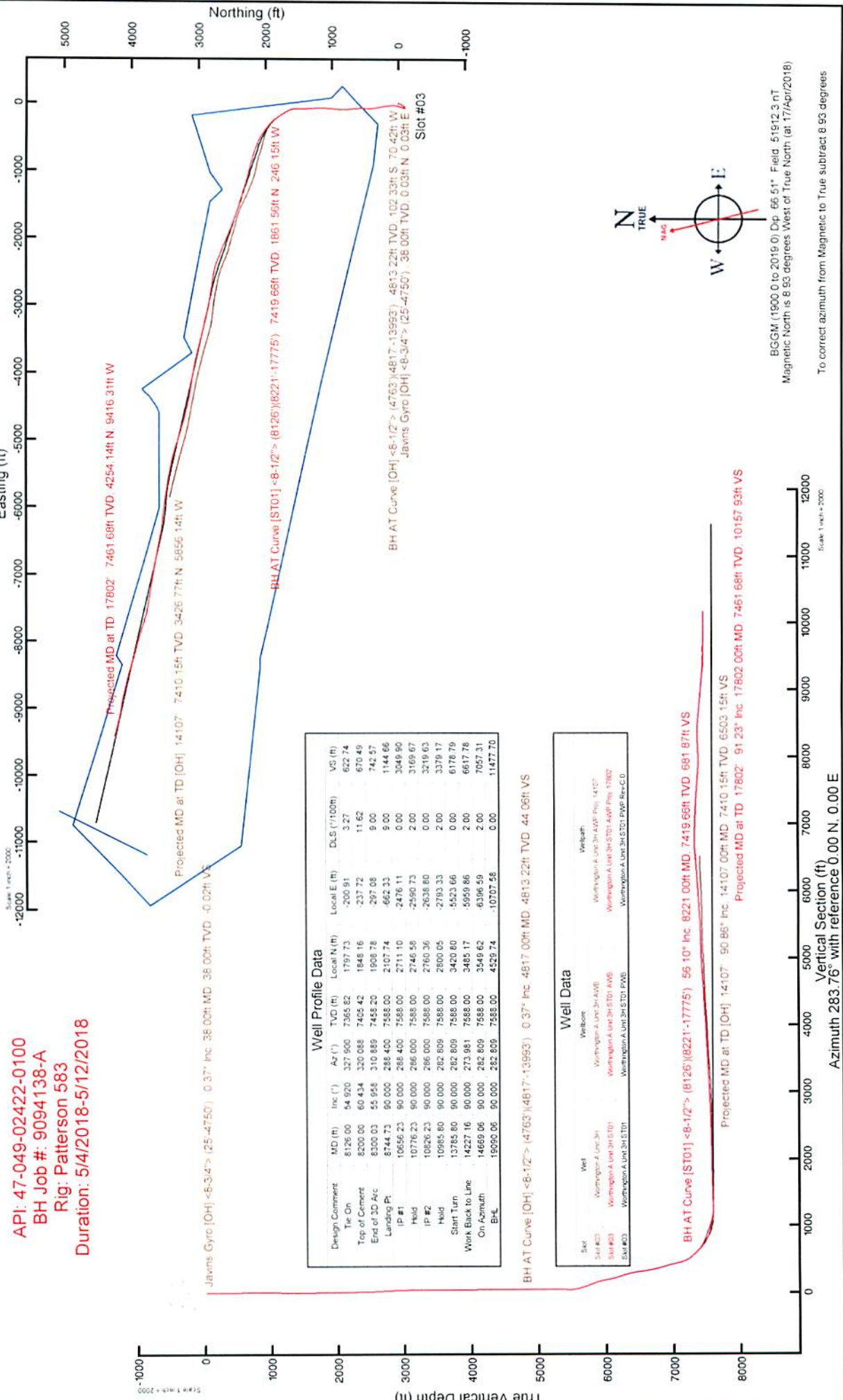


Location Information

Facility Name	Worthington Unit	Grid East (US ft)	1768056 016	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W
Local N (ft)	0 00	Local E (ft)	0 00	Local N (ft)	0 00	Local E (ft)	0 00	Local N (ft)	0 00
Slot	Slot #03	Grid East (US ft)	1768056 020	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W
Slot #03		Grid East (US ft)	1768056 020	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W
Patterson 583 (RKB) to Ground level (At Slot #03)		Grid East (US ft)	1768056 020	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W
Mean Sea Level to Ground level (At Slot #03)		Grid East (US ft)	1768056 020	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W
Patterson 583 (RKB) to Mean Sea Level		Grid East (US ft)	1768056 020	Grid North (US ft)	359388 660	Latitude	39° 29'01.755" N	Longitude	80° 19'18.379" W

WELL INFORMATION SYSTEM (WIS) REPORT
 This report was generated by the WIS software.
 All vertical depths are referenced to Patterson 583 (RKB).
 Horizontal depths are referenced to Patterson 583 (RKB).
 Patterson 583 (RKB) to Mean Sea Level: 1220 feet
 Mean Sea Level to Ground level (At Slot #03): 1164 feet
 Coordinates are as best understood to date.
 Created by: JHARRIS on 2/19/2018
 Database: WVA_MPL_LAN_TUMBLE_LAN

API: 47-049-02422-0100
 BH Job #: 9094138-A
 Rig: Patterson 583
 Duration: 5/4/2018-5/12/2018



BGGM (1900 0 to 2019 0) Dp: 66.51° Field: 51912.3 nT
 Magnetic North is 8.93 degrees West of True North (at 17/Apr/2018)
 To correct azimuth from Magnetic to True subtract 8.93 degrees

Vertical Section (ft)
 Azimuth 283.76° with reference 0.00 N, 0.00 E
 Scale: 1 inch = 2000'



Actual Wellpath Report
 Worthington A Unit 3H ST01 AWP Proj: 17802'
 Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

REPORT SETUP INFORMATION	
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
Software System	WellArchitect® 5.1
North Reference	True
User	Delaset
Scale	0.999944
Report Generated	01/Aug/2018 at 08:35
Convergence at slot	0.52° West
Database/Source file	WA_MPL_EasternUS_Defn\Worthington_A_Unit_3H_ST01_AWP_Proj_17802_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1768056.02	359388.66	39°29'01.755"N	80°19'18.379"W
Facility Reference Pt			1768056.02	359388.66	39°29'01.755"N	80°19'18.379"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Patterson 583 (RKB)
MD Reference Pt	Patterson 583 (RKB)
Field Vertical Reference	Mean Sea Level
	Patterson 583 (RKB) to Facility Vertical Datum
	Patterson 583 (RKB) to Mean Sea Level
	Patterson 583 (RKB) to Ground Level at Slot (Slot #03)
	Section Origin
	Section Azimuth
	26.00ft
	1220.00ft
	26.00ft
	N 0.00, E 0.00 ft
	283.76°

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
XTO ENERGY INC	Well	Worthington A Unit 3H ST01
Area	Wellbore	Worthington A Unit 3H ST01 AWB
Field	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD
Facility		

WELLPATH DATA (254 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert.Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
0.00†	0.000	42.400	0.00	0.00	0.00	0.00	1768056.02	359388.66	39°29'01.755"N	80°19'18.379"W	0.00	0.000	0.00	0.00	0.00	
26.00	0.000	42.400	26.00	0.00	0.00	0.00	1768056.02	359388.66	39°29'01.755"N	80°19'18.379"W	0.00	0.000	0.00	0.00	0.00	
38.00	0.370	42.400	38.00	-0.02	0.03	0.00	1768056.05	359388.69	39°29'01.755"N	80°19'18.378"W	0.04	42.400	3.08	3.08	353.33	Javins Gyro [OH] <8-3/4"> (25--4750')
63.00	0.510	302.300	63.00	0.05	0.15	-0.01	1768056.01	359388.81	39°29'01.756"N	80°19'18.379"W	0.15	354.781	2.72	0.56	-400.40	
88.00	0.500	251.600	88.00	0.25	0.17	-0.21	1768055.81	359388.83	39°29'01.757"N	80°19'18.381"W	0.27	309.294	1.73	-0.04	-202.80	
113.00	0.300	227.700	113.00	0.37	0.09	-0.36	1768055.66	359388.76	39°29'01.756"N	80°19'18.383"W	0.37	284.552	1.03	-0.80	-95.60	
138.00	0.220	206.900	138.00	0.42	0.01	-0.43	1768055.59	359388.67	39°29'01.755"N	80°19'18.384"W	0.43	270.975	0.49	-0.32	-83.20	
163.00	0.240	298.900	163.00	0.48	-0.01	-0.50	1768055.52	359388.65	39°29'01.755"N	80°19'18.385"W	0.50	268.841	1.32	0.08	368.00	
188.00	0.400	309.300	188.00	0.61	0.07	-0.61	1768055.41	359388.74	39°29'01.756"N	80°19'18.387"W	0.62	276.545	0.68	0.64	41.60	
213.00	0.270	308.000	213.00	0.75	0.16	-0.73	1768055.29	359388.83	39°29'01.756"N	80°19'18.388"W	0.75	282.545	0.52	-0.52	-5.20	
238.00	0.120	305.600	238.00	0.82	0.21	-0.80	1768055.23	359388.88	39°29'01.757"N	80°19'18.389"W	0.82	285.020	0.60	-0.60	-9.60	
263.00	0.210	246.500	263.00	0.88	0.21	-0.86	1768055.16	359388.88	39°29'01.757"N	80°19'18.390"W	0.88	283.767	0.72	0.36	-236.40	
288.00	0.510	260.900	288.00	1.02	0.17	-1.01	1768055.01	359388.84	39°29'01.757"N	80°19'18.392"W	1.03	279.800	1.24	1.20	57.60	
313.00	0.450	264.000	313.00	1.22	0.15	-1.22	1768054.80	359388.92	39°29'01.756"N	80°19'18.394"W	1.23	276.868	0.26	-0.24	12.40	
338.00	0.460	260.000	337.99	1.40	0.12	-1.41	1768054.61	359388.79	39°29'01.756"N	80°19'18.397"W	1.42	274.810	0.13	0.04	-15.00	
363.00	0.470	236.800	362.99	1.56	0.05	-1.60	1768054.42	359388.72	39°29'01.755"N	80°19'18.399"W	1.50	271.629	0.75	0.04	-92.80	
388.00	0.780	262.300	387.99	1.79	-0.03	-1.85	1768054.17	359388.64	39°29'01.755"N	80°19'18.402"W	1.85	268.956	1.64	1.24	102.00	
413.00	0.660	264.500	412.99	2.09	-0.07	-2.17	1768053.85	359388.61	39°29'01.754"N	80°19'18.406"W	2.17	268.147	0.49	-0.48	8.80	
438.00	0.590	269.900	437.99	2.35	-0.08	-2.44	1768053.58	359388.60	39°29'01.754"N	80°19'18.410"W	2.44	268.024	0.37	-0.28	21.60	
463.00	0.670	298.300	462.99	2.61	-0.02	-2.70	1768053.32	359388.67	39°29'01.755"N	80°19'18.413"W	2.70	269.681	1.27	0.32	113.60	
488.00	0.550	323.800	487.99	2.85	0.15	-2.89	1768053.13	359388.84	39°29'01.756"N	80°19'18.416"W	2.90	272.988	1.17	-0.48	102.00	
513.00	0.650	309.700	512.98	3.07	0.34	-3.07	1768052.95	359389.03	39°29'01.758"N	80°19'18.418"W	3.09	276.282	0.71	0.40	-56.40	
538.00	0.550	320.100	537.98	3.29	0.52	-3.26	1768052.76	359389.21	39°29'01.760"N	80°19'18.420"W	3.30	279.080	0.59	-0.40	41.60	
563.00	0.480	324.100	562.98	3.47	0.70	-3.40	1768052.63	359389.39	39°29'01.762"N	80°19'18.422"W	3.47	281.604	0.31	-0.28	16.00	
588.00	0.390	333.500	587.98	3.60	0.86	-3.50	1768052.53	359389.55	39°29'01.763"N	80°19'18.423"W	3.60	283.795	0.46	-0.36	37.60	
613.00	0.400	333.500	612.98	3.71	1.01	-3.58	1768052.45	359389.71	39°29'01.765"N	80°19'18.424"W	3.72	285.822	0.04	0.04	0.00	
638.00	0.410	334.000	637.98	3.83	1.17	-3.65	1768052.38	359389.87	39°29'01.766"N	80°19'18.425"W	3.84	287.781	0.04	0.04	2.00	
663.00	0.390	305.900	662.98	3.96	1.30	-3.76	1768052.27	359390.00	39°29'01.768"N	80°19'18.427"W	3.98	289.091	0.78	-0.08	-112.40	
688.00	0.110	308.300	687.98	4.06	1.37	-3.85	1768052.18	359390.06	39°29'01.768"N	80°19'18.428"W	4.08	289.547	1.12	-1.12	9.60	
713.00	0.180	216.100	712.98	4.10	1.35	-3.99	1768052.14	359390.05	39°29'01.768"N	80°19'18.428"W	4.12	289.131	0.86	0.28	-368.80	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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Operator	Slot	Slot #03
XTO ENERGY INC	Well	Worthington A Unit 3H ST01
Area	Wellbore	Worthington A Unit 3H ST01 AWB
Field	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD
Facility		

WELLPATH DATA (254 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
738.00	0.410	184.200	737.98	4.10	1.23	-3.92	1768052.11	359389.92	39°29'01.767"N	80°19'18.429"W	4.11	287.402	1.10	0.92	-127.60	
763.00	0.490	181.000	762.98	4.06	1.03	-3.93	1768052.10	359389.73	39°29'01.765"N	80°19'18.429"W	4.06	284.727	0.34	0.32	-12.80	
788.00	0.560	184.400	787.98	4.02	0.80	-3.94	1768052.09	359389.50	39°29'01.763"N	80°19'18.429"W	4.02	281.534	0.31	0.28	13.60	
813.00	0.720	186.700	812.98	3.98	0.53	-3.97	1768052.06	359389.22	39°29'01.760"N	80°19'18.429"W	4.00	277.555	0.65	0.64	9.20	
838.00	0.890	189.000	837.97	3.94	0.18	-4.02	1768052.00	359388.88	39°29'01.757"N	80°19'18.430"W	4.02	272.546	0.69	0.68	9.20	
863.00	1.120	191.000	862.97	3.92	-0.25	-4.09	1768051.92	359388.44	39°29'01.752"N	80°19'18.431"W	4.10	266.464	0.93	0.92	8.00	
878.00	1.180	198.400	877.97	3.92	-0.54	-4.17	1768051.84	359388.15	39°29'01.750"N	80°19'18.432"W	4.21	262.576	1.07	0.40	49.33	
913.00	1.510	191.500	912.96	3.93	-1.34	-4.38	1768051.63	359387.36	39°29'01.742"N	80°19'18.434"W	4.58	253.009	1.05	0.94	-19.71	
963.00	2.600	200.200	962.92	4.03	-3.05	-4.90	1768051.09	359385.66	39°29'01.725"N	80°19'18.441"W	5.77	238.121	2.26	2.18	17.40	
1013.00	2.720	194.200	1012.87	4.17	-5.26	-5.58	1768050.39	359383.45	39°29'01.703"N	80°19'18.450"W	7.67	226.693	0.61	0.24	-12.00	
1063.00	2.760	190.300	1062.81	4.11	-7.60	-6.09	1768049.86	359381.12	39°29'01.680"N	80°19'18.456"W	9.74	218.713	0.38	0.08	-7.80	
1113.00	3.230	182.000	1112.74	3.75	-10.19	-6.35	1768049.57	359378.53	39°29'01.654"N	80°19'18.460"W	12.01	211.945	1.28	0.94	-16.60	
1163.00	3.490	181.000	1162.66	3.12	-13.12	-6.43	1768049.47	359375.60	39°29'01.625"N	80°19'18.461"W	14.61	206.108	0.53	0.52	-2.00	
1213.00	4.210	182.300	1212.55	2.42	-16.47	-6.53	1768049.34	359372.25	39°29'01.592"N	80°19'18.462"W	17.72	201.620	1.45	1.44	2.60	
1263.00	3.930	180.200	1262.42	1.66	-20.02	-6.61	1768049.23	359368.70	39°29'01.557"N	80°19'18.463"W	21.08	198.267	0.63	-0.56	-4.20	
1313.00	4.070	186.400	1312.30	1.03	-23.50	-6.81	1768048.99	359365.23	39°29'01.523"N	80°19'18.466"W	24.46	196.168	0.91	0.28	12.40	
1363.00	3.950	190.900	1362.18	0.71	-26.95	-7.34	1768048.44	359361.78	39°29'01.489"N	80°19'18.472"W	27.93	195.226	0.67	-0.24	9.00	
1413.00	3.850	194.700	1412.06	0.66	-30.27	-8.09	1768047.66	359358.47	39°29'01.456"N	80°19'18.482"W	31.33	194.960	0.55	-0.20	7.60	
1463.00	3.410	201.300	1461.96	0.88	-33.28	-9.05	1768046.66	359355.47	39°29'01.426"N	80°19'18.494"W	34.49	195.220	1.21	-0.88	13.20	
1513.00	2.910	209.800	1511.88	1.42	-35.76	-10.22	1768045.47	359352.99	39°29'01.401"N	80°19'18.509"W	37.20	195.955	1.37	-1.00	17.00	
1563.00	2.900	211.300	1561.82	2.16	-37.94	-11.51	1768044.16	359350.82	39°29'01.380"N	80°19'18.525"W	39.65	196.878	0.15	-0.02	3.00	
1613.00	1.360	212.700	1611.78	2.73	-39.52	-12.49	1768043.17	359349.25	39°29'01.364"N	80°19'18.538"W	41.45	197.537	3.08	-3.08	2.80	
1663.00	1.500	225.100	1661.77	3.26	-40.49	-13.27	1768042.38	359348.30	39°29'01.355"N	80°19'18.548"W	42.61	198.153	0.68	0.28	24.80	
1713.00	1.400	214.300	1711.75	3.82	-41.45	-14.08	1768041.56	359347.34	39°29'01.345"N	80°19'18.558"W	43.78	198.763	0.58	-0.20	-21.60	
1763.00	1.100	227.700	1761.74	4.30	-42.28	-14.78	1768040.85	359346.52	39°29'01.337"N	80°19'18.567"W	44.79	199.269	0.83	-0.60	26.80	
1813.00	1.590	217.400	1811.73	4.85	-43.15	-15.56	1768040.07	359345.65	39°29'01.328"N	80°19'18.577"W	45.87	199.825	1.09	0.98	-20.60	
1863.00	1.600	207.700	1861.71	5.29	-44.32	-16.30	1768039.31	359344.49	39°29'01.317"N	80°19'18.587"W	47.23	200.195	0.54	0.02	-19.40	
1913.00	2.000	213.100	1911.68	5.75	-45.67	-17.10	1768038.50	359343.15	39°29'01.303"N	80°19'18.597"W	48.77	200.531	0.87	0.80	10.80	
1963.00	1.480	201.300	1961.66	6.12	-47.00	-17.82	1768037.78	359341.82	39°29'01.290"N	80°19'18.606"W	50.27	200.757	1.26	-1.04	-23.60	
2013.00	1.540	223.200	2011.64	6.54	-48.10	-18.51	1768037.07	359340.74	39°29'01.280"N	80°19'18.615"W	51.63	201.049	1.15	0.12	43.80	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

WELLPATH DATA (254 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)	
2063.00	1.760	209.400	2051.62	7.08	-49.25	-19.35	1768036.22	359339.59	39°29'01.268"N	80°19'18.625"W	52.92	201.444	0.91	0.44	-27.60	
2113.00	1.840	211.100	2111.60	7.52	-50.61	-20.14	1768035.42	359338.24	39°29'01.255"N	80°19'18.638"W	54.47	201.697	0.19	0.16	3.40	
2163.00	2.490	209.300	2161.56	8.05	-52.25	-21.08	1768034.46	359336.61	39°29'01.239"N	80°19'18.648"W	56.34	201.977	1.51	1.30	-3.60	
2213.00	2.840	210.600	2211.51	8.70	-54.26	-22.25	1768033.28	359334.61	39°29'01.219"N	80°19'18.662"W	58.64	202.294	0.71	0.70	2.60	
2263.00	3.500	207.700	2261.43	9.43	-56.68	-23.59	1768031.92	359332.20	39°29'01.195"N	80°19'18.679"W	61.39	202.595	1.36	1.32	-5.80	
2313.00	3.980	208.600	2311.32	10.24	-59.55	-25.13	1768030.35	359328.34	39°29'01.166"N	80°19'18.699"W	64.64	202.876	0.97	0.96	1.80	
2363.00	4.320	209.000	2361.19	11.18	-62.72	-26.87	1768028.58	359326.19	39°29'01.135"N	80°19'18.721"W	68.24	203.190	0.68	0.68	0.80	
2413.00	5.080	209.500	2411.02	12.28	-66.30	-28.87	1768026.54	359322.64	39°29'01.100"N	80°19'18.747"W	72.31	203.534	1.52	1.52	1.00	
2463.00	4.480	210.200	2460.85	13.43	-69.91	-30.95	1768024.44	359319.04	39°29'01.064"N	80°19'18.773"W	76.45	203.876	1.21	-1.20	1.40	
2513.00	4.830	219.900	2510.69	14.87	-73.15	-33.22	1768022.13	359315.83	39°29'01.032"N	80°19'18.802"W	80.34	204.427	1.57	0.30	19.40	
2563.00	4.880	222.700	2560.52	16.79	-76.26	-35.96	1768019.37	359312.74	39°29'01.001"N	80°19'18.837"W	84.31	205.246	0.68	0.50	5.60	
2613.00	5.820	223.000	2610.30	19.06	-79.67	-39.13	1768016.17	359309.35	39°29'00.967"N	80°19'18.878"W	88.76	206.157	1.88	1.88	0.60	
2663.00	5.720	222.500	2660.05	21.49	-83.37	-42.54	1768012.72	359305.69	39°29'00.931"N	80°19'18.921"W	93.59	207.036	0.22	-0.20	-1.00	
2713.00	4.480	230.700	2709.85	23.86	-86.44	-45.74	1768009.50	359302.65	39°29'00.901"N	80°19'18.962"W	97.79	207.894	2.87	-2.48	16.40	
2763.00	4.520	227.100	2759.70	26.12	-89.02	-48.69	1768006.52	359299.10	39°29'00.875"N	80°19'19.000"W	101.46	208.678	0.57	0.08	-7.20	
2813.00	3.940	232.300	2809.56	28.27	-91.41	-51.49	1768003.70	359297.73	39°29'00.851"N	80°19'19.035"W	104.92	209.394	1.39	-1.16	10.40	
2863.00	3.100	247.400	2859.47	30.43	-92.98	-54.10	1768001.07	359296.18	39°29'00.836"N	80°19'19.069"W	107.57	210.194	2.49	-1.68	30.20	
2913.00	2.880	252.900	2909.40	32.60	-93.87	-56.55	1767998.62	359295.32	39°29'00.827"N	80°19'19.100"W	109.59	211.067	0.72	-0.44	11.00	
2963.00	3.030	253.200	2959.33	34.82	-94.62	-59.02	1767996.14	359294.59	39°29'00.820"N	80°19'19.131"W	111.52	211.952	0.30	0.30	0.60	
3013.00	1.310	227.100	3009.30	36.27	-95.39	-60.70	1767994.45	359293.83	39°29'00.812"N	80°19'19.153"W	113.07	212.470	3.88	-3.44	-52.20	
3063.00	1.200	223.000	3059.28	36.84	-96.16	-61.48	1767993.67	359293.07	39°29'00.804"N	80°19'19.163"W	114.13	212.590	0.28	-0.22	-8.20	
3113.00	0.780	226.900	3109.28	37.28	-96.78	-62.08	1767993.06	359292.46	39°29'00.798"N	80°19'19.170"W	114.98	212.679	0.65	-0.84	7.80	
3163.00	0.580	209.900	3159.27	37.54	-97.23	-62.46	1767992.68	359292.01	39°29'00.794"N	80°19'19.175"W	115.56	212.715	0.56	-0.40	-34.00	
3213.00	0.510	230.400	3209.27	37.74	-97.59	-62.75	1767992.38	359291.65	39°29'00.790"N	80°19'19.179"W	116.03	212.742	0.41	-0.14	41.00	
3263.00	0.390	242.200	3259.27	38.00	-97.81	-63.08	1767992.06	359291.43	39°29'00.788"N	80°19'19.183"W	116.39	212.816	0.30	-0.24	23.60	
3313.00	0.480	240.700	3309.27	38.28	-97.99	-63.41	1767991.72	359291.26	39°29'00.786"N	80°19'19.187"W	116.72	212.905	0.18	0.18	-3.00	
3363.00	0.260	281.400	3359.27	38.55	-98.07	-63.70	1767991.43	359291.18	39°29'00.786"N	80°19'19.191"W	116.95	213.005	0.66	-0.44	81.40	
3413.00	0.420	261.900	3409.27	38.83	-98.08	-63.99	1767991.13	359291.18	39°29'00.786"N	80°19'19.195"W	117.11	213.124	0.39	0.32	-39.00	
3463.00	0.400	250.800	3459.26	39.15	-98.16	-64.34	1767990.79	359291.10	39°29'00.785"N	80°19'19.199"W	117.37	213.243	0.16	-0.04	-22.20	
3513.00	0.400	251.900	3509.26	39.44	-98.27	-64.67	1767990.46	359290.99	39°29'00.784"N	80°19'19.203"W	117.64	213.348	0.02	0.00	2.20	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

WELLPATH DATA (254 stations)																
MD ft	Inclination °	Azimuth °	TVD ft	Vert Sect ft	North ft	East ft	Grid East [US-ft]	Grid North [US-ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
3563.00	0.590	218.400	3559.26	39.70	-98.53	-65.00	1767990.13	359290.74	39°29'00.781"N	80°19'19.208"W	118.04	213.412	0.68	0.38	-67.00	
3613.00	0.210	201.300	3609.26	39.82	-98.82	-65.19	1767989.93	359290.45	39°29'00.778"N	80°19'19.210"W	118.38	213.414	0.79	-0.76	-34.20	
3663.00	0.500	247.100	3659.26	40.00	-98.99	-65.43	1767989.70	359290.28	39°29'00.777"N	80°19'19.213"W	118.65	213.463	0.77	0.58	91.60	
3713.00	0.550	228.500	3709.26	40.31	-99.23	-65.81	1767989.31	359290.04	39°29'00.774"N	80°19'19.218"W	119.07	213.551	0.35	0.10	-37.20	
3763.00	0.570	247.200	3759.25	40.65	-99.49	-66.21	1767988.90	359289.79	39°29'00.772"N	80°19'19.223"W	119.51	213.647	0.37	0.04	37.40	
3813.00	0.620	247.500	3809.25	41.07	-99.68	-66.69	1767988.42	359289.60	39°29'00.770"N	80°19'19.229"W	119.94	213.784	0.10	0.10	0.60	
3863.00	0.590	245.300	3859.25	41.49	-99.90	-67.18	1767987.94	359289.39	39°29'00.768"N	80°19'19.235"W	120.38	213.920	0.08	-0.06	-4.40	
3913.00	0.760	233.000	3909.25	41.90	-100.20	-67.68	1767987.43	359289.09	39°29'00.765"N	80°19'19.242"W	120.92	214.035	0.44	0.34	-24.60	
3963.00	0.630	232.000	3959.24	42.28	-100.57	-68.16	1767986.95	359288.72	39°29'00.761"N	80°19'19.248"W	121.49	214.126	0.26	-0.26	-2.00	
4013.00	0.870	244.000	4009.24	42.74	-100.91	-68.72	1767986.39	359288.39	39°29'00.758"N	80°19'19.255"W	122.08	214.254	0.57	0.48	24.00	
4063.00	0.540	243.500	4059.23	43.21	-101.18	-69.27	1767985.83	359288.12	39°29'00.755"N	80°19'19.262"W	122.62	214.396	0.66	-0.66	-1.00	
4113.00	0.620	234.300	4109.23	43.57	-101.44	-69.70	1767985.40	359287.87	39°29'00.752"N	80°19'19.268"W	123.08	214.492	0.25	0.16	-18.40	
4163.00	0.450	235.500	4159.23	43.88	-101.71	-70.08	1767985.02	359287.60	39°29'00.750"N	80°19'19.272"W	123.52	214.567	0.34	-0.34	2.40	
4213.00	0.330	213.500	4209.23	44.06	-101.94	-70.32	1767984.77	359287.37	39°29'00.747"N	80°19'19.276"W	123.84	214.598	0.38	-0.24	-44.00	
4263.00	0.330	256.600	4259.23	44.23	-102.10	-70.54	1767984.55	359287.22	39°29'00.746"N	80°19'19.278"W	124.09	214.642	0.48	0.00	86.20	
4313.00	0.250	257.000	4309.23	44.46	-102.15	-70.79	1767984.31	359287.16	39°29'00.745"N	80°19'19.281"W	124.28	214.720	0.16	-0.16	0.80	
4363.00	0.360	237.000	4359.23	44.66	-102.26	-71.02	1767984.07	359287.06	39°29'00.744"N	80°19'19.285"W	124.51	214.781	0.30	0.22	-40.00	
4413.00	0.220	6.600	4409.23	44.78	-102.25	-71.15	1767983.95	359287.07	39°29'00.744"N	80°19'19.286"W	124.57	214.829	1.06	-0.28	259.20	
4463.00	0.170	343.100	4459.22	44.83	-102.09	-71.16	1767983.94	359287.23	39°29'00.746"N	80°19'19.286"W	124.44	214.877	0.19	-0.10	-47.00	
4513.00	0.080	238.400	4509.22	44.89	-102.04	-71.21	1767983.89	359287.29	39°29'00.746"N	80°19'19.287"W	124.43	214.910	0.41	-0.18	-209.40	
4563.00	0.150	325.300	4559.22	44.97	-102.00	-71.27	1767983.82	359287.32	39°29'00.747"N	80°19'19.288"W	124.43	214.945	0.33	0.14	173.80	
4613.00	0.010	125.400	4609.22	45.01	-101.95	-71.31	1767983.79	359287.37	39°29'00.747"N	80°19'19.288"W	124.41	214.971	0.32	-0.28	320.20	
4663.00	0.370	125.700	4659.22	44.86	-102.05	-71.17	1767983.92	359287.28	39°29'00.746"N	80°19'19.286"W	124.41	214.895	0.72	0.72	0.60	
4713.00	0.420	109.800	4709.22	44.53	-102.20	-70.87	1767984.22	359287.12	39°29'00.745"N	80°19'19.283"W	124.37	214.739	0.24	0.10	-31.80	
4763.00	0.130	89.400	4759.22	44.29	-102.26	-70.64	1767984.45	359287.05	39°29'00.744"N	80°19'19.280"W	124.29	214.636	0.60	-0.58	-40.80	
4817.00	0.370	114.040	4813.22	44.06	-102.33	-70.42	1767984.57	359286.98	39°29'00.743"N	80°19'19.277"W	124.22	214.534	0.48	0.44	45.63BH AT Curve [OH] <-8-112"> (4763'@4817'-13993')	
4912.00	0.400	164.760	4908.22	43.60	-102.78	-70.05	1767985.03	359286.53	39°29'00.739"N	80°19'19.272"W	124.38	214.278	0.35	0.03	53.41	
5007.00	1.780	331.240	5003.21	44.43	-101.80	-70.68	1767984.42	359287.51	39°29'00.749"N	80°19'19.280"W	123.93	214.770	2.29	1.45	175.22	
5101.00	1.980	12.970	5097.16	45.44	-98.94	-71.01	1767984.11	359290.38	39°29'00.777"N	80°19'19.264"W	121.79	215.668	1.44	0.21	44.39	
5196.00	10.610	6.820	5191.50	46.52	-88.64	-69.60	1767985.61	359300.67	39°29'00.879"N	80°19'19.266"W	112.70	218.141	9.10	9.08	-6.47	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

WELLPATH DATA (254 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
5290.00	16.590	15.630	5282.83	47.13	-67.10	-64.96	1767990.46	359322.16	39°29'01.092"N	80°19'19.207"W	93.39	224.069	6.71	6.36	9.37	
5385.00	25.640	19.450	5371.37	44.65	-34.59	-54.44	1768001.27	359334.57	39°29'01.413"N	80°19'19.073"W	64.50	237.566	9.63	9.53	4.02	
5480.00	31.370	14.900	5454.82	42.11	8.73	-41.22	1768014.88	359339.76	39°29'01.841"N	80°19'18.904"W	42.13	281.953	6.45	6.03	-4.79	
5574.00	36.670	2.490	5532.80	47.12	60.51	-33.70	1768022.98	359449.47	39°29'02.353"N	80°19'18.808"W	69.26	330.889	9.27	5.64	-13.20	
5669.00	41.440	355.720	5606.59	62.42	120.26	-34.81	1768022.31	359509.23	39°29'02.944"N	80°19'18.823"W	125.20	343.857	6.73	5.02	-7.13	
5763.00	42.840	352.000	5676.30	83.90	182.94	-41.58	1768006.12	359571.97	39°29'03.563"N	80°19'18.909"W	187.61	347.195	3.04	1.49	-3.96	
5857.00	42.750	349.730	5745.28	108.74	245.99	-51.72	1768006.56	359635.10	39°29'04.186"N	80°19'19.038"W	251.36	348.127	1.64	-0.10	-2.41	
5952.00	42.800	347.890	5815.01	135.96	309.27	-64.24	1767994.52	359698.48	39°29'04.812"N	80°19'19.198"W	315.87	348.266	1.32	0.05	-1.94	
6047.00	41.730	354.220	5885.35	160.62	372.31	-74.20	1767985.24	359761.61	39°29'05.435"N	80°19'19.325"W	379.63	348.729	4.62	-1.13	6.66	
6142.00	41.650	0.590	5956.32	178.40	435.36	-77.06	1767982.95	359824.69	39°29'06.058"N	80°19'19.361"W	442.13	349.963	4.46	-0.08	6.71	
6236.00	41.650	2.170	6026.56	191.79	497.81	-75.55	1767985.03	359887.11	39°29'06.675"N	80°19'19.342"W	503.51	351.370	1.12	0.00	1.68	
6330.00	43.700	359.890	6095.67	205.85	561.51	-74.43	1767986.73	359950.79	39°29'07.304"N	80°19'19.328"W	565.42	352.449	2.73	2.18	-2.43	
6424.00	43.910	355.150	6163.53	224.05	626.48	-77.25	1767984.51	360015.78	39°29'07.947"N	80°19'19.364"W	631.22	352.970	3.50	0.22	-5.04	
6518.00	43.810	353.250	6231.31	245.85	691.27	-83.83	1767978.52	360080.63	39°29'08.587"N	80°19'19.448"W	696.33	353.085	1.40	-0.11	-2.02	
6612.00	44.120	355.490	6298.97	267.51	756.20	-90.23	1767972.72	360145.61	39°29'09.229"N	80°19'19.529"W	761.57	353.196	1.69	0.33	2.38	
6707.00	43.550	359.280	6367.51	286.06	821.90	-93.24	1767970.31	360211.33	39°29'09.878"N	80°19'19.568"W	827.18	353.528	2.83	-0.60	3.99	
6800.00	44.100	4.990	6434.63	299.01	886.20	-90.83	1767973.31	360275.60	39°29'10.514"N	80°19'19.537"W	890.85	354.148	4.29	0.59	6.14	
6895.00	44.050	6.310	6502.89	308.33	951.96	-84.32	1767980.41	360341.30	39°29'11.163"N	80°19'19.454"W	955.69	354.938	0.97	-0.05	1.39	
6990.00	44.220	3.910	6571.07	318.28	1017.84	-78.43	1767986.90	360407.12	39°29'11.815"N	80°19'19.379"W	1020.86	355.594	1.77	0.18	-2.53	
7084.00	44.030	2.550	6638.55	330.24	1083.18	-74.75	1767991.19	360472.41	39°29'12.460"N	80°19'19.332"W	1085.76	356.053	1.03	-0.20	-1.45	
7178.00	44.020	0.670	6706.14	343.99	1148.48	-72.91	1767993.82	360537.69	39°29'13.106"N	80°19'19.309"W	1150.79	356.367	1.39	-0.01	-2.00	
7273.00	44.050	358.220	6774.44	360.31	1214.50	-73.55	1767993.59	360603.71	39°29'13.758"N	80°19'19.317"W	1216.72	356.534	1.79	0.03	-2.58	
7368.00	44.130	356.540	6842.68	378.95	1280.52	-76.57	1767991.17	360669.75	39°29'14.411"N	80°19'19.355"W	1282.81	356.578	1.23	0.08	-1.77	
7463.00	43.830	356.480	6911.04	398.52	1346.37	-80.59	1767987.76	360735.63	39°29'15.062"N	80°19'19.407"W	1348.78	356.575	0.32	-0.32	-0.06	
7558.00	43.820	358.650	6979.58	416.86	1412.08	-83.38	1767985.56	360801.37	39°29'15.711"N	80°19'19.442"W	1414.54	356.621	1.58	-0.01	2.28	
7653.00	43.830	359.660	7048.12	433.45	1477.86	-84.35	1767985.19	360867.14	39°29'16.361"N	80°19'19.455"W	1480.26	356.733	0.74	0.01	1.06	
7748.00	43.850	359.240	7116.64	449.71	1543.66	-84.98	1767985.16	360932.94	39°29'17.011"N	80°19'19.453"W	1545.99	356.849	0.31	0.02	-0.44	
7843.00	45.050	343.060	7184.68	475.21	1608.93	-95.25	1767975.50	360998.30	39°29'17.567"N	80°19'19.594"W	1611.75	356.612	11.97	1.26	-17.03	
7937.00	48.720	329.810	7249.07	516.82	1671.45	-122.78	1767948.64	361061.07	39°29'18.274"N	80°19'19.945"W	1675.96	355.799	10.99	3.90	-14.10	
8032.00	51.850	327.680	7309.77	568.51	1733.90	-160.71	1767911.19	361123.85	39°29'18.892"N	80°19'20.428"W	1741.33	354.705	3.71	3.29	-2.23	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

WELLPATH DATA (254 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments	
8126.00	54.920	327.900	3365.82	622.74	1797.73	-200.91	1767871.57	361188.05	39°29'19.523"N	80°19'20.941"W	1808.92	353.623	3.27	3.27	0.22	
8221.00	56.100	321.490	7419.66	681.87	1861.56	-246.15	1767826.92	361252.28	39°29'20.153"N	80°19'21.518"W	1877.76	352.468	5.70	1.24	-6.75	BH AT Curve [ST01] <8-1/2"> (8126') (8221'-17775')
8315.00	60.440	312.790	7469.15	748.59	1919.97	-300.54	1767773.07	361311.18	39°29'20.731"N	80°19'22.212"W	1943.35	351.103	9.12	4.62	-9.26	
8409.00	69.180	308.740	7509.13	824.33	1975.36	-364.95	1767709.17	361357.16	39°29'21.278"N	80°19'23.034"W	2008.79	349.532	10.08	9.30	-4.31	
8502.00	75.870	305.490	7537.05	905.73	2028.81	-435.67	1767638.95	361421.25	39°29'21.805"N	80°19'23.936"W	2075.06	347.880	7.93	7.19	-3.49	
8596.00	76.920	299.280	7559.18	992.26	2077.71	-512.79	1767562.29	361470.85	39°29'22.290"N	80°19'24.919"W	2140.05	346.136	6.52	1.12	-6.61	
8691.00	79.020	293.160	7579.00	1082.94	2118.72	-596.10	1767479.36	361512.62	39°29'22.695"N	80°19'25.982"W	2200.97	344.286	6.68	2.21	-6.44	
8786.00	89.720	288.880	7588.31	1176.57	2152.54	-684.21	1767391.56	361547.24	39°29'23.029"N	80°19'27.106"W	2258.67	342.366	12.12	11.26	-4.51	
8881.00	89.910	286.020	7588.62	1271.36	2181.02	-774.83	1767301.22	361576.55	39°29'23.311"N	80°19'28.262"W	2314.57	340.442	3.02	0.20	-3.01	
8977.00	91.110	286.610	7587.76	1367.26	2207.99	-866.96	1767209.34	361604.36	39°29'23.577"N	80°19'29.437"W	2372.10	338.563	1.39	1.25	0.61	
9072.00	92.060	285.700	7585.13	1462.14	2234.41	-958.17	1767118.38	361631.61	39°29'23.838"N	80°19'30.600"W	2431.19	336.789	1.38	1.00	-0.96	
9166.00	91.850	282.410	7581.93	1556.07	2257.22	-1049.29	1767027.48	361655.26	39°29'24.064"N	80°19'31.762"W	2489.19	335.068	3.51	-0.22	-3.50	
9260.00	91.720	286.790	7579.00	1649.99	2280.90	-1140.19	1766936.81	361679.76	39°29'24.298"N	80°19'32.922"W	2550.01	333.440	4.66	-0.14	4.66	
9355.00	91.790	286.380	7576.09	1744.83	2308.01	-1231.19	1766846.06	361707.70	39°29'24.565"N	80°19'34.082"W	2615.86	331.923	0.44	0.07	-0.43	
9450.00	91.480	288.040	7573.38	1839.62	2336.10	-1321.90	1766755.62	361736.62	39°29'24.843"N	80°19'35.239"W	2684.17	330.496	1.78	-0.33	1.75	
9545.00	91.050	286.490	7571.28	1934.41	2364.29	-1412.59	1766665.19	361765.63	39°29'25.122"N	80°19'36.396"W	2754.14	329.143	1.69	-0.45	-1.63	
9640.00	91.110	287.200	7569.49	2029.26	2391.81	-1503.50	1766574.55	361793.99	39°29'25.394"N	80°19'37.556"W	2825.12	327.846	0.75	0.06	0.75	
9735.00	90.430	287.860	7568.21	2124.04	2420.42	-1594.08	1766484.24	361823.42	39°29'25.676"N	80°19'38.711"W	2898.20	326.631	1.00	-0.72	0.69	
9831.00	90.430	288.230	7567.49	2219.77	2450.16	-1685.36	1766393.24	361853.99	39°29'25.970"N	80°19'39.875"W	2973.84	325.478	0.39	0.00	0.39	
9926.00	91.750	291.420	7565.68	2314.21	2482.37	-1774.70	1766304.21	361887.01	39°29'26.286"N	80°19'41.015"W	3051.51	324.438	3.63	1.39	3.36	
10021.00	91.910	292.140	7562.65	2408.23	2517.60	-1862.87	1766216.36	361923.05	39°29'26.637"N	80°19'42.140"W	3131.87	323.501	0.78	0.17	0.76	
10115.00	91.630	293.010	7559.75	2501.07	2553.67	-1949.62	1766129.95	361959.91	39°29'26.993"N	80°19'43.246"W	3212.83	322.640	0.97	-0.30	0.93	
10210.00	91.940	293.850	7556.79	2594.68	2591.42	-2036.75	1766043.18	361998.45	39°29'27.366"N	80°19'44.356"W	3296.03	321.834	0.94	0.33	0.88	
10305.00	92.490	292.200	7553.12	2688.37	2628.55	-2124.11	1765956.16	362036.38	39°29'27.733"N	80°19'45.472"W	3379.52	321.059	1.83	0.58	-1.74	
10399.00	92.460	290.570	7549.06	2781.44	2662.79	-2211.55	1765869.04	362071.42	39°29'28.071"N	80°19'46.587"W	3451.42	320.289	1.73	-0.03	-1.73	
10494.00	92.520	291.420	7544.93	2875.60	2696.80	-2300.16	1765780.75	362106.23	39°29'28.407"N	80°19'47.718"W	3544.50	319.538	0.90	0.06	0.89	
10589.00	92.680	290.410	7540.62	2969.76	2730.68	-2388.81	1765692.42	362140.91	39°29'28.742"N	80°19'48.848"W	3628.09	318.820	1.08	0.17	-1.06	
10683.00	93.110	283.630	7535.87	3063.43	2758.14	-2478.53	1765602.97	362169.20	39°29'29.013"N	80°19'49.993"W	3708.16	318.056	7.22	0.46	-7.21	
10778.00	92.990	277.760	7530.81	3158.12	2775.74	-2571.70	1765509.96	362187.64	39°29'29.187"N	80°19'51.181"W	3783.96	317.185	6.17	-0.13	-6.18	
10872.00	92.740	278.760	7526.11	3251.57	2789.23	-2664.61	1765417.19	362201.98	39°29'29.320"N	80°19'52.366"W	3857.45	316.309	1.10	-0.27	1.06	

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Actual Wellpath Report

Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

WELLPATH DATA (254 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
10966.00	92.580	279.510	7521.75	3345.16	2804.13	-2757.32	1765324.63	362217.73	39°29'29.468"N	80°19'53.549"W	3932.68	315.482	0.81	-0.17	0.80	
11061.00	92.280	279.380	7517.72	3439.81	2819.71	-2850.14	1765231.15	362234.16	39°29'29.622"N	80°19'54.743"W	4009.82	314.684	0.34	-0.32	-0.14	
11156.00	92.370	279.770	7513.86	3534.48	2835.50	-2944.54	1765137.71	362250.81	39°29'29.778"N	80°19'55.937"W	4087.83	313.919	0.42	0.09	0.41	
11250.00	93.420	282.350	7509.12	3628.24	2853.51	-3036.67	1765045.75	362269.66	39°29'29.955"N	80°19'57.112"W	4167.00	313.219	2.96	1.12	2.74	
11344.00	92.920	282.400	7503.92	3722.07	2873.62	-3128.35	1764954.27	362290.61	39°29'30.154"N	80°19'58.281"W	4247.85	312.570	0.53	-0.53	0.05	
11439.00	92.890	282.920	7499.10	3816.93	2894.41	-3220.92	1764861.90	362312.24	39°29'30.359"N	80°19'59.462"W	4330.35	311.944	0.55	-0.03	0.55	
11533.00	92.860	284.120	7494.39	3910.81	2916.36	-3312.20	1764770.63	362335.03	39°29'30.576"N	80°20'00.627"W	4413.14	311.364	1.28	-0.03	1.28	
11628.00	93.420	284.710	7489.19	4005.66	2936.97	-3404.07	1764679.18	362359.48	39°29'30.810"N	80°20'01.798"W	4497.90	310.816	0.86	0.59	0.62	
11723.00	93.480	284.430	7483.47	4100.48	2963.83	-3495.84	1764587.63	362384.17	39°29'31.045"N	80°20'02.969"W	4583.15	310.292	0.30	0.06	-0.29	
11817.00	93.480	284.560	7477.76	4194.30	2987.31	-3586.68	1764497.02	362408.48	39°29'31.277"N	80°20'04.128"W	4667.80	309.791	0.14	0.00	0.14	
11912.00	93.450	284.260	7472.02	4289.12	3010.91	-3678.53	1764405.40	362432.92	39°29'31.510"N	80°20'05.299"W	4753.65	309.301	0.32	-0.03	-0.32	
12006.00	93.910	283.250	7465.99	4382.92	3033.22	-3769.64	1764314.50	362456.05	39°29'31.731"N	80°20'06.462"W	4838.45	308.822	1.18	0.49	-1.07	
12101.00	94.010	281.810	7459.43	4477.67	3053.78	-3862.16	1764222.18	362477.46	39°29'31.934"N	80°20'07.642"W	4923.60	308.333	1.52	0.11	-1.52	
12195.00	93.790	279.790	7453.03	4571.32	3071.35	-3954.27	1764130.24	362495.87	39°29'32.107"N	80°20'08.817"W	5006.94	307.837	2.16	-0.23	-2.15	
12290.00	93.910	279.090	7446.65	4665.84	3086.90	-4047.77	1764038.89	362512.27	39°29'32.261"N	80°20'10.009"W	5090.52	307.330	0.75	0.13	-0.74	
12385.00	94.440	277.850	7439.74	4760.18	3100.85	-4141.49	1763943.31	362527.08	39°29'32.398"N	80°20'11.205"W	5173.70	306.823	1.42	0.56	-1.31	
12479.00	92.960	278.990	7433.67	4853.57	3114.59	-4234.27	1763850.66	362541.67	39°29'32.534"N	80°20'12.388"W	5256.40	306.337	1.99	-1.57	1.21	
12574.00	92.180	279.670	7429.41	4948.19	3129.97	-4327.92	1763757.16	362555.91	39°29'32.686"N	80°20'13.583"W	5341.13	305.875	1.09	-0.82	0.72	
12668.00	92.220	282.080	7425.80	5042.00	3147.69	-4420.16	1763665.09	362576.47	39°29'32.861"N	80°20'14.759"W	5426.40	305.456	2.56	0.04	2.56	
12763.00	91.600	282.720	7422.64	5136.92	3168.08	-4512.89	1763572.56	362597.70	39°29'33.062"N	80°20'15.942"W	5513.88	305.069	0.94	-0.65	0.67	
12858.00	91.510	283.440	7420.06	5231.88	3189.57	-4605.39	1763480.26	362620.04	39°29'33.275"N	80°20'17.122"W	5602.05	304.705	0.76	-0.09	0.76	
12952.00	91.600	284.990	7417.51	5325.84	3212.65	-4696.48	1763389.40	362643.94	39°29'33.502"N	80°20'18.284"W	5690.17	304.374	1.65	0.10	1.65	
13047.00	92.460	286.630	7414.14	5420.71	3238.51	-4787.82	1763298.30	362667.64	39°29'33.758"N	80°20'19.449"W	5780.24	304.075	1.95	0.91	1.73	
13142.00	92.400	286.620	7410.11	5515.51	3255.67	-4878.77	1763207.61	362698.63	39°29'34.026"N	80°20'20.609"W	5870.86	303.797	0.06	-0.06	-0.01	
13236.00	93.170	287.080	7405.55	5609.26	3282.88	-4968.63	1763118.01	362726.66	39°29'34.295"N	80°20'21.756"W	5960.73	303.534	0.95	0.82	0.49	
13331.00	93.080	287.380	7400.37	5703.94	3320.98	-5059.23	1763027.67	362755.58	39°29'34.572"N	80°20'22.911"W	6051.83	303.282	0.33	-0.09	0.32	
13426.00	93.360	286.890	7395.03	5798.63	3348.93	-5149.87	1762937.30	362784.35	39°29'34.848"N	80°20'24.068"W	6143.00	303.036	0.59	0.29	-0.52	
13521.00	93.700	285.460	7389.18	5893.36	3375.34	-5240.93	1762846.49	362811.60	39°29'35.109"N	80°20'25.229"W	6233.80	302.783	1.54	0.36	-1.51	
13615.00	93.630	281.860	7383.17	5987.15	3397.49	-5332.07	1762755.56	362834.58	39°29'35.328"N	80°20'26.392"W	6322.49	302.504	3.82	-0.07	-3.83	
13710.00	94.560	280.760	7376.39	6081.82	3416.07	-5424.98	1762662.82	362854.01	39°29'35.511"N	80°20'27.577"W	6410.93	302.198	1.51	0.98	-1.16	

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Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
XTO ENERGY INC	Well	Worthington A Unit 3H ST01
Area	Wellbore	Worthington A Unit 3H ST01 AWB
Field	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD
Facility		

WELLPATH DATA (254 stations)

MD	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
13804.00	94.440	281.290	7369.01	6175.42	3433.99	-5516.96	1762571.02	362872.77	39°29'35.688"N	80°20'28.750"W	6498.40	301.900	0.58	-0.13	0.56	
13899.00	94.160	279.900	7361.89	6270.01	3451.41	-5610.08	1762478.07	362891.04	39°29'35.860"N	80°20'29.938"W	6586.75	301.600	1.49	-0.29	-1.46	
13993.00	94.040	277.940	7355.17	6363.43	3465.95	-5702.70	1762385.59	362906.42	39°29'36.004"N	80°20'31.120"W	6673.35	301.290	2.08	-0.13	-2.09	
14088.00	95.110	278.550	7347.59	6457.69	3479.53	-5796.42	1762292.01	362920.86	39°29'36.138"N	80°20'32.315"W	6760.59	300.976	1.30	1.13	0.64	
14183.00	95.140	280.080	7339.10	6552.02	3494.84	-5889.79	1762198.79	362937.02	39°29'36.289"N	80°20'33.506"W	6848.61	300.684	1.60	0.03	1.61	
14277.00	93.600	278.920	7331.94	6645.48	3510.31	-5982.22	1762106.50	362953.34	39°29'36.442"N	80°20'34.685"W	6936.09	300.404	2.05	-1.64	-1.23	
14372.00	88.920	276.620	7329.85	6739.91	3523.14	-6076.30	1762012.56	362969.03	39°29'36.568"N	80°20'35.868"W	7023.81	300.106	5.49	-4.93	-2.42	
14465.00	89.020	276.750	7331.52	6832.19	3533.97	-6168.65	1761920.31	362978.70	39°29'36.675"N	80°20'37.053"W	7109.23	299.808	0.18	0.11	0.14	
14560.00	88.090	276.980	7333.92	6926.47	3545.32	-6262.94	1761826.14	362990.91	39°29'36.787"N	80°20'38.266"W	7196.78	299.513	1.01	-0.98	0.24	
14654.00	88.000	279.350	7337.13	7019.96	3558.66	-6355.92	1761733.28	363005.10	39°29'37.919"N	80°20'39.452"W	7284.36	299.244	2.52	-0.10	2.52	
14749.00	88.000	281.800	7340.44	7114.75	3576.08	-6449.25	1761640.13	363023.38	39°29'37.091"N	80°20'40.643"W	7374.36	299.008	2.58	0.00	2.58	
14843.00	87.020	280.890	7344.53	7208.57	3594.56	-6541.32	1761548.23	363042.69	39°29'37.273"N	80°20'41.817"W	7463.89	298.789	1.42	-1.04	-0.97	
14938.00	86.950	279.940	7349.52	7303.28	3611.71	-6634.63	1761455.09	363060.69	39°29'37.442"N	80°20'43.007"W	7553.98	298.563	1.00	-0.07	-1.00	
15032.00	85.910	281.040	7355.38	7396.94	3628.79	-6726.87	1761363.01	363078.61	39°29'37.611"N	80°20'44.184"W	7643.23	298.344	1.61	-1.11	1.17	
15127.00	85.930	280.530	7362.14	7491.57	3646.52	-6819.86	1761270.10	363097.19	39°29'37.786"N	80°20'45.371"W	7733.62	298.133	0.54	0.02	-0.54	
15222.00	86.460	279.370	7368.44	7586.15	3662.90	-6913.32	1761176.89	363114.43	39°29'37.947"N	80°20'46.562"W	7823.73	297.916	1.34	0.56	-1.22	
15316.00	84.980	279.190	7375.45	7679.60	3678.01	-7005.83	1761084.53	363130.39	39°29'38.097"N	80°20'47.743"W	7912.61	297.699	1.59	-1.57	-0.19	
15423.00	85.810	279.360	7384.05	7785.93	3695.20	-7111.09	1760997.44	363148.54	39°29'38.266"N	80°20'49.085"W	8013.87	297.458	0.79	0.78	0.16	
15505.00	87.750	278.850	7388.65	7867.52	3708.16	-7191.92	1760908.73	363162.23	39°29'38.394"N	80°20'50.116"W	8091.61	297.276	2.45	2.37	-0.62	
15600.00	90.800	279.660	7389.85	7962.21	3723.43	-7285.67	1760805.14	363178.36	39°29'38.545"N	80°20'51.312"W	8181.99	297.070	3.32	3.21	0.85	
15694.00	92.000	279.450	7387.56	8055.93	3739.03	-7378.33	1760712.62	363194.81	39°29'38.699"N	80°20'52.494"W	8271.65	296.874	1.30	1.28	-0.22	
15789.00	92.830	278.430	7383.55	8150.51	3753.78	-7472.09	1760619.01	363210.41	39°29'38.844"N	80°20'53.690"W	8362.00	296.674	1.38	0.87	-1.07	
15884.00	93.110	281.510	7378.63	8245.16	3770.21	-7565.52	1760525.74	363227.69	39°29'39.006"N	80°20'54.882"W	8452.80	296.489	3.25	0.29	3.24	
15978.00	89.750	287.710	7376.28	8339.06	3793.90	-7656.40	1760435.09	363252.21	39°29'39.240"N	80°20'56.041"W	8544.83	296.359	7.50	-3.57	6.60	
16072.00	88.210	287.430	7377.96	8432.83	3822.27	-7745.99	1760345.76	363281.39	39°29'39.520"N	80°20'57.184"W	8637.72	296.264	1.67	-1.64	-0.30	
16167.00	84.920	286.340	7383.65	8527.51	3849.81	-7836.72	1760255.30	363309.76	39°29'39.792"N	80°20'58.342"W	8731.28	296.163	3.65	-3.46	-1.15	
16262.00	85.010	286.510	7391.98	8622.04	3876.57	-7927.49	1760164.78	363337.35	39°29'40.056"N	80°20'59.500"W	8824.56	296.059	0.20	0.09	0.18	
16356.00	84.820	285.590	7400.32	8715.59	3902.45	-8017.47	1760075.05	363364.06	39°29'40.312"N	80°21'00.648"W	8916.78	295.954	1.00	-0.20	-0.98	
16451.00	85.130	284.400	7408.64	8810.20	3926.94	-8108.88	1759983.87	363389.37	39°29'40.553"N	80°21'01.814"W	9009.71	295.840	1.29	0.33	-1.25	
16546.00	84.980	284.630	7416.83	8904.84	3950.66	-8200.51	1759892.47	363413.93	39°29'40.788"N	80°21'02.983"W	9102.53	295.723	0.29	-0.16	0.24	

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Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
XTO ENERGY INC	Well	Worthington A Unit 3H ST01
Area	Wellbore	Worthington A Unit 3H ST01 AWP
Field	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD
Facility		

WELLPATH DATA (254 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
16840.00	84.980	286.910	7425.05	8998.42	3976.11	-8290.62	1759802.60	363440.20	39°29'41.039"N	80°21'04.132"W	9194.77	295.622	2.42	0.00	2.43	
16735.00	84.950	287.940	7433.39	9092.86	4004.44	-8380.91	1759712.58	363469.36	39°29'41.319"N	80°21'05.284"W	9288.44	295.539	1.08	-0.03	1.08	
16830.00	84.820	286.260	7441.86	9187.31	4032.27	-8471.34	1759622.41	363498.01	39°29'41.593"N	80°21'06.438"W	9382.05	295.454	1.77	-0.14	-1.77	
16924.00	85.320	284.700	7449.94	9280.92	4057.26	-8561.59	1759532.39	363523.82	39°29'41.840"N	80°21'07.589"W	9474.29	295.356	1.74	0.53	-1.66	
17019.00	86.710	283.030	7456.54	9375.69	4079.97	-8653.60	1759440.61	363547.37	39°29'42.064"N	80°21'08.763"W	9567.18	295.243	2.28	1.46	-1.76	
17113.00	88.650	283.900	7460.35	9469.50	4101.84	-8744.93	1759349.48	363570.07	39°29'42.280"N	80°21'09.928"W	9659.14	295.129	2.26	2.06	0.93	
17207.00	90.620	282.420	7460.95	9563.59	4123.24	-8836.45	1759258.16	363592.31	39°29'42.491"N	80°21'11.095"W	9751.10	295.015	2.62	2.10	-1.57	
17302.00	89.080	280.410	7461.19	9658.50	4142.04	-8929.57	1759165.23	363611.96	39°29'42.677"N	80°21'12.283"W	9843.46	294.985	2.67	-1.52	-2.12	
17397.00	87.480	279.610	7464.05	9753.25	4158.54	-9023.08	1759071.88	363629.32	39°29'42.839"N	80°21'13.476"W	9935.26	294.744	1.88	-1.68	-0.84	
17491.00	89.230	281.770	7466.74	9847.07	4175.97	-9115.40	1758979.73	363647.59	39°29'43.011"N	80°21'14.654"W	10026.42	294.614	2.96	1.86	2.30	
17586.00	91.170	284.790	7466.41	9942.05	4197.79	-9207.84	1758887.50	363670.25	39°29'43.227"N	80°21'15.833"W	10119.57	294.508	3.78	2.04	3.18	
17681.00	91.320	285.040	7464.35	10037.01	4222.23	-9299.62	1758795.95	363695.53	39°29'43.468"N	80°21'17.004"W	10213.24	294.419	0.31	0.16	0.26	
17775.00	91.230	285.450	7462.26	10130.95	4246.95	-9390.29	1758705.52	363721.07	39°29'43.712"N	80°21'18.161"W	10306.02	294.335	0.45	-0.10	0.44	
17802.00	91.230	285.450	7461.68	10157.93	4254.14	-9416.31	17586679.57	363728.50	39°29'43.783"N	80°21'18.492"W	10332.69	294.313	0.00	0.00	0.00	Projected MD at TD: 17802'

HOLE & CASING SECTIONS - Ref Wellbore: Worthington A Unit 3H ST01 AWP Proj: 17802'

String/Diameter	Start MD [ft]		End MD [ft]		Interval [ft]		Start TVD [ft]		End TVD [ft]		Start N/S [ft]		End N/S [ft]		Start E/W [ft]		End E/W [ft]	
	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
12.25in Open Hole	26.00	3178.00	3178.00	3152.00	3152.00	3174.27	26.00	3174.27	3174.27	3174.27	0.00	0.00	0.00	-97.35	0.00	0.00	-97.35	-62.54
9.625in Casing Intermediate	26.00	3178.00	3178.00	3152.00	3152.00	3174.27	26.00	3174.27	3174.27	3174.27	0.00	0.00	0.00	-97.35	0.00	0.00	-97.35	-62.54
8.75in Open Hole	3178.00	4813.00	4813.00	1635.00	1635.00	4809.22	3174.27	4809.22	4809.22	4809.22	-97.35	-97.35	-62.54	-102.32	-62.54	-62.54	-102.32	-70.44
8.5in Open Hole	4813.00	8126.00	8126.00	3313.00	3313.00	8099.22	4809.22	8099.22	8099.22	8099.22	-102.32	-102.32	-70.44	-179.73	-70.44	-70.44	-179.73	-200.91
8.5in Open Hole	8126.00	17802.00	17802.00	9676.00	9676.00	7451.68	7365.82	7451.68	7451.68	7451.68	1797.73	1797.73	4254.14	4254.14	-200.91	-200.91	4254.14	-9416.31
5.5in Casing Production	26.00	12510.00	12510.00	12484.00	12484.00	7432.14	26.00	7432.14	7432.14	7432.14	0.00	0.00	0.00	3119.48	0.00	0.00	3119.48	-4264.85

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Actual Wellpath Report
 Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

TARGETS	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Worthington A-3H BHL Hardline N	7550.00	5080.53	-10545.69	1757557.85	364565.14	39°29'51.946"N	80°21'32.903"W	point
Worthington A-3H BHL Hardline S	7550.00	3776.81	-11193.16	1756898.52	363267.47	39°29'39.058"N	80°21'41.155"W	point
Worthington A-3H BHL - Rev-2	7588.00	4529.74	-10707.58	1757390.94	364015.88	39°29'46.502"N	80°21'34.965"W	point
Worthington A-3H IP #1 - Rev-2	7588.00	2711.10	-2476.11	1765604.96	362122.13	39°29'28.549"N	80°19'49.962"W	point
Worthington A-3H IP #2 - Rev-2	7588.00	2750.36	-2638.80	1765442.74	362172.88	39°29'29.035"N	80°19'52.037"W	point
Worthington A-3H LP - Rev-3	7588.00	2107.74	-662.33	1767413.03	361502.24	39°29'22.586"N	80°19'26.827"W	point

WELLPATH COMPOSITION - Ref Wellbore: Worthington A Unit 3H ST01 AWB Ref Wellpath: Worthington A Unit 3H ST01 AWP Proj: 17802'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
26.00	4763.00	BHI Generic gyro - northseeking (Standard)	01_Javins Gyro <8-3/4'> (25'-4750')
4763.00	8126.00	BHI AutoTrak Curve (Short)	02_BH AT Curve <8-1/2'> (4763' (4817'-13993')
8126.00	17775.00	BHI AutoTrak Curve (Short)	03_BH AT Curve <8-1/2'> (8126' (8221'-17775')
17775.00	17802.00	Blind Drilling (std)	Projection to bit

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 Worthington A Unit 3H ST01 AWP Proj: 17802'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Slot	Slot #03
Area	Marion County, WV	Well	Worthington A Unit 3H ST01
Field	Marion	Wellbore	Worthington A Unit 3H ST01 AWB
Facility	Worthington Unit	Sidetrack from	Worthington A Unit 3H AWP Proj: 14107' at 8126.00 MD

COMMENTS
<p>Wellpath general comments API: 47-049-02422-0100 BH Job #: 9094138-A Rig: Patterson 583 Duration: 5/4/2018-5/12/2018 Javins Gyro [OH] <8-3/4"> (25'-4750') BH AT Curve [OH] <8-1/2"> (4763')(4817'-8126') BH AT Curve [ST01] <8-1/2"> (8126')(8221'-17775) Projected MD at TD: 17802'</p>

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