



XTO ENERGY INC



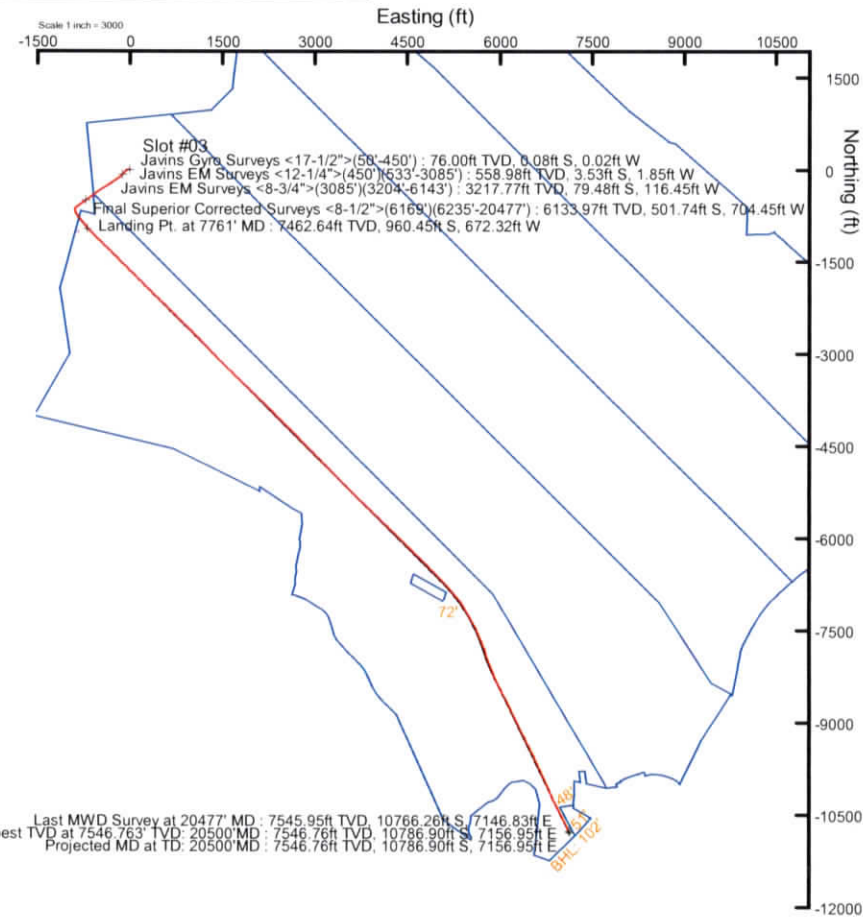
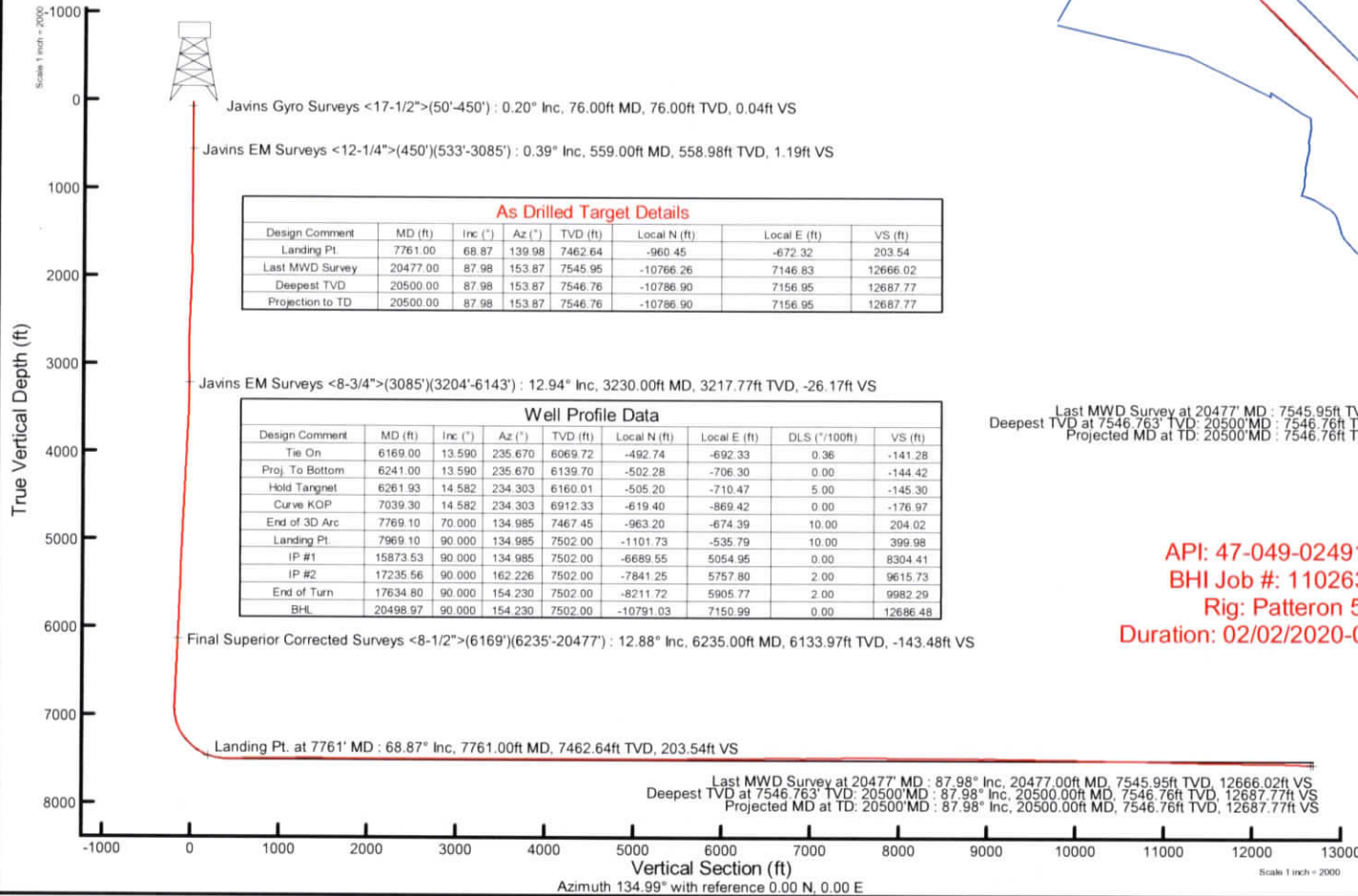
Location: Marion County, WV
 Field: Marion
 Facility: Sands Pad

Slot: Slot #03
 Well: Sands Unit A 3H
 Wellbore: Sands Unit A 3H PWB

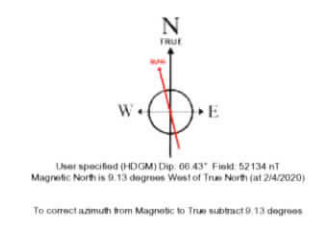
Plot reference wellpath is Sands Unit A 3H PWP Rev-A.0	Grid System: NAD27 Lambert West Virginia SP Northern Zone (4701) US feet
True vertical depths are referenced to Patterson 579 (RKB)	North Reference: True north
Reference wellpath measured depths are referenced to Patterson 579 (RKB)	Scale: True distance
Patterson 579 (RKB) to Mean Sea Level: 1261 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #03): -1235 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: deleted on 2020-02-19 Database: WA-MPL-EasternUS-Def

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Sands Pad	1770291.903	351831.811	39°27'47.2674"N	80°18'48.9893"W
Slot	Local E (ft)	Local N (ft)	Latitude	Longitude
Slot #03	-6.86	7.28	39°27'47.1966"N	80°18'48.8965"W
Patterson 579 (RKB) to Ground level (At Slot: Slot #03): 26ft				
Mean Sea Level to Ground level (At Slot: Slot #03): -1235ft				
Patterson 579 (RKB) to Mean Sea Level: 1261ft				

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #03	Sands Unit A 3H	Sands Unit A 3H AWB	Sands Unit A 3H AWP Proj_20500'
Slot #03	Sands Unit A 3H	Sands Unit A 3H PWB	Sands Unit A 3H PWP Rev-A.0



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Actual Wellpath Report
Sands Unit A 3H AWP Proj: 20500'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	True	User	Delaset
Scale	0.999945	Report Generated	2/19/2020 at 3:31:23 PM
Convergence at slot	0.52° West	Database	WA_MPL_EasternUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-6.86	7.28	1770299.12	351824.89	39°27'47.1996"N	80°18'48.8965"W
Facility Reference Pt			1770291.90	351831.81	39°27'47.2674"N	80°18'48.9893"W
Field Reference Pt			609601.22	0.00	38°23'48.7532"N	84°21'9.7646"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 579 (RKB) to Facility Vertical Datum	1261.00ft
Horizontal Reference Pt	Slot	Patterson 579 (RKB) to Mean Sea Level	1261.00ft
Vertical Reference Pt	Patterson 579 (RKB)	Patterson 579 (RKB) to Ground Level at Slot (Slot #03)	26.00ft
MD Reference Pt	Patterson 579 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	134.99°

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Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

WELLPATH DATA (225 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.000	194.000	0.00	0.00	0.00	0.00	1770299.12	351824.89	39°27'47.1996"N	80°18'48.8965"W	0.00	0.000	0.00	0.00	0.00	
26.00	0.000	194.000	26.00	0.00	0.00	0.00	1770299.12	351824.89	39°27'47.1996"N	80°18'48.8965"W	0.00	0.000	0.00	0.00	0.00	
76.00	0.200	194.000	76.00	0.04	-0.08	-0.02	1770299.10	351824.81	39°27'47.1988"N	80°18'48.8968"W	0.09	194.000	0.40	0.40	0.00	Javins Gyro Surveys <17-1/2">(50'-450')
126.00	0.410	217.500	126.00	0.11	-0.31	-0.15	1770298.97	351824.58	39°27'47.1966"N	80°18'48.8984"W	0.35	205.897	0.48	0.42	47.00	
176.00	0.680	222.100	176.00	0.15	-0.67	-0.46	1770298.66	351824.22	39°27'47.1930"N	80°18'48.9023"W	0.81	214.278	0.55	0.54	9.20	
226.00	0.800	223.000	225.99	0.18	-1.15	-0.90	1770298.21	351823.75	39°27'47.1883"N	80°18'48.9079"W	1.46	217.950	0.24	0.24	1.80	
276.00	0.670	224.200	275.99	0.19	-1.61	-1.34	1770297.77	351823.29	39°27'47.1837"N	80°18'48.9135"W	2.10	219.660	0.26	-0.26	2.40	
326.00	0.630	210.400	325.99	0.27	-2.06	-1.68	1770297.42	351822.85	39°27'47.1793"N	80°18'48.9179"W	2.66	219.206	0.32	-0.08	-27.60	
376.00	0.450	199.100	375.98	0.42	-2.48	-1.88	1770297.21	351822.42	39°27'47.1751"N	80°18'48.9205"W	3.12	217.191	0.42	-0.36	-22.60	
426.00	0.300	149.300	425.98	0.64	-2.78	-1.88	1770297.21	351822.13	39°27'47.1722"N	80°18'48.9205"W	3.36	214.080	0.69	-0.30	-99.60	
476.00	0.310	183.100	475.98	0.85	-3.03	-1.82	1770297.27	351821.88	39°27'47.1697"N	80°18'48.9197"W	3.53	211.030	0.36	0.02	67.60	
559.00	0.390	183.600	558.98	1.19	-3.53	-1.85	1770297.24	351821.37	39°27'47.1647"N	80°18'48.9201"W	3.99	207.649	0.10	0.10	0.60	Javins EM Surveys <12-1/4">(450')(533'-3085')
653.00	0.350	197.980	652.98	1.53	-4.13	-1.96	1770297.12	351820.78	39°27'47.1588"N	80°18'48.9215"W	4.57	205.409	0.11	-0.04	15.30	
748.00	0.370	143.720	747.98	1.97	-4.65	-1.87	1770297.21	351820.26	39°27'47.1537"N	80°18'48.9203"W	5.01	201.891	0.35	0.02	-57.12	
842.00	0.440	105.500	841.97	2.58	-4.99	-1.34	1770297.73	351819.91	39°27'47.1503"N	80°18'48.9136"W	5.17	195.040	0.29	0.07	-40.66	
937.00	0.560	69.100	936.97	3.09	-4.92	-0.56	1770298.52	351819.97	39°27'47.1510"N	80°18'48.9036"W	4.95	186.443	0.35	0.13	-38.32	
1032.00	0.940	45.540	1031.96	3.28	-4.21	0.43	1770299.52	351820.67	39°27'47.1580"N	80°18'48.8910"W	4.23	174.118	0.51	0.40	-24.80	
1126.00	1.280	30.090	1125.95	3.02	-2.76	1.51	1770300.61	351822.11	39°27'47.1723"N	80°18'48.8772"W	3.15	151.337	0.48	0.36	-16.44	
1221.00	1.650	25.700	1220.91	2.30	-0.61	2.64	1770301.75	351824.25	39°27'47.1936"N	80°18'48.8629"W	2.71	103.093	0.41	0.39	-4.62	
1316.00	1.690	12.260	1315.87	1.09	1.99	3.53	1770302.66	351826.85	39°27'47.2193"N	80°18'48.8515"W	4.05	60.583	0.41	0.04	-14.15	
1411.00	1.370	1.580	1410.84	-0.45	4.49	3.86	1770303.02	351829.35	39°27'47.2440"N	80°18'48.8473"W	5.92	40.634	0.45	-0.34	-11.24	
1505.00	0.980	2.590	1504.82	-1.76	6.42	3.92	1770303.10	351831.27	39°27'47.2631"N	80°18'48.8465"W	7.52	31.428	0.42	-0.41	1.07	
1600.00	0.590	17.960	1599.81	-2.53	7.70	4.11	1770303.30	351832.55	39°27'47.2757"N	80°18'48.8441"W	8.72	28.105	0.46	-0.41	16.18	
1695.00	0.400	28.030	1694.81	-2.85	8.45	4.42	1770303.61	351833.30	39°27'47.2832"N	80°18'48.8402"W	9.54	27.585	0.22	-0.20	10.60	
1790.00	1.550	202.390	1789.80	-2.46	7.56	4.08	1770303.27	351832.41	39°27'47.2743"N	80°18'48.8444"W	8.59	28.378	2.05	1.21	183.54	
1884.00	3.790	220.190	1883.69	-1.71	4.01	1.59	1770300.75	351828.88	39°27'47.2393"N	80°18'48.8762"W	4.31	21.677	2.51	2.38	18.94	
1979.00	3.280	252.110	1978.52	-2.68	0.78	-3.02	1770296.11	351825.69	39°27'47.2073"N	80°18'48.9350"W	3.12	284.404	2.11	-0.54	33.60	
2074.00	3.110	281.000	2073.38	-6.06	0.43	-8.14	1770290.99	351825.40	39°27'47.2039"N	80°18'49.0002"W	8.15	273.042	1.69	-0.18	30.41	
2169.00	3.390	292.540	2168.23	-10.79	2.00	-13.26	1770285.88	351827.01	39°27'47.2194"N	80°18'49.0655"W	13.41	278.581	0.75	0.29	12.15	
2264.00	2.890	271.070	2263.09	-15.11	3.12	-18.25	1770280.90	351828.18	39°27'47.2305"N	80°18'49.1292"W	18.51	279.709	1.33	-0.53	-22.60	

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Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

WELLPATH DATA (225 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
2359.00	2.850	265.650	2357.97	-18.38	2.99	-23.00	1770276.15	351828.09	39°27'47.2292"N	80°18'49.1897"W	23.19	277.402	0.29	-0.04	-5.71	
2454.00	3.890	265.260	2452.80	-22.00	2.54	-28.56	1770270.58	351827.69	39°27'47.2248"N	80°18'49.2607"W	28.68	275.086	1.09	1.09	-0.41	
2549.00	4.860	257.480	2547.52	-26.24	1.40	-35.70	1770263.43	351826.62	39°27'47.2135"N	80°18'49.3517"W	35.73	272.251	1.19	1.02	-8.19	
2643.00	6.190	244.030	2641.09	-30.04	-1.68	-44.15	1770254.96	351823.61	39°27'47.1830"N	80°18'49.4594"W	44.18	267.822	1.97	1.41	-14.31	
2738.00	7.930	238.160	2735.37	-33.20	-7.38	-54.32	1770244.74	351818.00	39°27'47.1267"N	80°18'49.5891"W	54.82	262.264	1.98	1.83	-6.18	
2833.00	9.010	225.770	2829.34	-34.80	-16.03	-65.22	1770233.76	351809.46	39°27'47.0412"N	80°18'49.7280"W	67.16	256.194	2.23	1.14	-13.04	
2928.00	10.980	219.630	2922.89	-34.05	-28.18	-76.32	1770222.55	351797.40	39°27'46.9211"N	80°18'49.8696"W	81.36	249.731	2.35	2.07	-6.46	
3023.00	12.450	217.770	3015.91	-31.92	-43.25	-88.37	1770210.37	351782.45	39°27'46.7722"N	80°18'50.0231"W	98.38	243.922	1.60	1.55	-1.96	
3111.00	12.860	217.570	3101.77	-29.46	-58.51	-100.15	1770198.45	351767.29	39°27'46.6214"N	80°18'50.1734"W	115.99	239.705	0.47	0.47	-0.23	
3230.00	12.940	218.160	3217.77	-26.17	-79.48	-116.45	1770181.96	351746.47	39°27'46.4141"N	80°18'50.3813"W	140.99	235.686	0.13	0.07	0.50	Javins EM Surveys <8-3/4">(3085')(3204'-6143')
3325.00	13.290	228.050	3310.31	-25.49	-95.15	-131.15	1770167.12	351730.94	39°27'46.2593"N	80°18'50.5686"W	162.03	234.040	2.39	0.37	10.41	
3419.00	13.810	232.630	3401.69	-27.55	-109.18	-148.10	1770150.04	351717.06	39°27'46.1206"N	80°18'50.7848"W	183.99	233.603	1.27	0.55	4.87	
3517.00	13.960	236.120	3496.83	-31.39	-122.87	-167.21	1770130.81	351703.55	39°27'45.9853"N	80°18'51.0284"W	207.50	233.691	0.87	0.15	3.56	
3612.00	14.880	235.530	3588.84	-35.83	-136.16	-186.78	1770111.12	351690.43	39°27'45.8539"N	80°18'51.2779"W	231.14	233.909	0.98	0.97	-0.62	
3706.00	14.320	235.030	3679.80	-40.07	-149.65	-206.26	1770091.53	351677.12	39°27'45.7205"N	80°18'51.5263"W	254.83	234.036	0.61	-0.60	-0.53	
3801.00	13.470	233.530	3772.02	-43.76	-162.96	-224.78	1770072.88	351663.98	39°27'45.5890"N	80°18'51.7625"W	277.64	234.058	0.97	-0.89	-1.58	
3895.00	13.890	237.430	3863.35	-47.82	-175.55	-243.10	1770054.46	351651.56	39°27'45.4646"N	80°18'51.9959"W	299.85	234.166	1.08	0.45	4.15	
3990.00	14.020	235.230	3955.55	-52.32	-188.25	-262.16	1770035.28	351639.03	39°27'45.3391"N	80°18'52.2390"W	322.74	234.319	0.57	0.14	-2.32	
4085.00	14.360	236.140	4047.65	-56.64	-201.37	-281.39	1770015.93	351626.08	39°27'45.2094"N	80°18'52.4842"W	346.03	234.411	0.43	0.36	0.96	
4179.00	14.620	234.430	4138.66	-60.84	-214.77	-300.72	1769996.48	351612.86	39°27'45.0770"N	80°18'52.7307"W	369.54	234.466	0.53	0.28	-1.82	
4274.00	13.780	232.740	4230.76	-64.33	-228.59	-319.48	1769977.60	351599.21	39°27'44.9403"N	80°18'52.9698"W	392.84	234.416	0.99	-0.88	-1.78	
4368.00	13.280	235.320	4322.15	-67.78	-241.51	-337.27	1769959.70	351586.45	39°27'44.8126"N	80°18'53.1966"W	414.83	234.394	0.83	-0.53	2.74	
4463.00	13.970	237.050	4414.48	-72.13	-253.96	-355.86	1769940.99	351574.18	39°27'44.6896"N	80°18'53.4337"W	437.19	234.487	0.84	0.73	1.82	
4558.00	14.270	235.030	4506.61	-76.57	-266.91	-375.08	1769921.66	351561.40	39°27'44.5616"N	80°18'53.6787"W	460.35	234.564	0.61	0.32	-2.13	
4652.00	13.780	235.950	4597.81	-80.72	-279.82	-393.85	1769902.77	351548.67	39°27'44.4341"N	80°18'53.9180"W	483.13	234.608	0.57	-0.52	0.98	
4747.00	13.270	237.150	4690.17	-85.17	-292.07	-412.39	1769884.13	351536.59	39°27'44.3130"N	80°18'54.1543"W	505.34	234.692	0.61	-0.54	1.26	
4841.00	13.170	236.880	4781.68	-89.64	-303.77	-430.42	1769865.99	351525.05	39°27'44.1973"N	80°18'54.3842"W	526.82	234.787	0.13	-0.11	-0.29	
4936.00	14.450	234.350	4873.93	-93.80	-316.59	-449.11	1769847.18	351512.40	39°27'44.0706"N	80°18'54.6226"W	549.48	234.819	1.49	1.35	-2.66	
5031.00	13.860	232.320	4966.05	-97.18	-330.46	-467.75	1769828.42	351498.70	39°27'43.9336"N	80°18'54.8602"W	572.71	234.760	0.81	-0.62	-2.14	
5129.00	14.860	235.630	5060.99	-101.00	-344.73	-487.41	1769808.63	351484.61	39°27'43.7925"N	80°18'55.1109"W	597.00	234.730	1.32	1.02	3.38	

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Slot	Slot #03		

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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
5223.00	15.520	235.070	5151.70	-105.43	-358.73	-507.67	1769788.25	351470.79	39°27'43.6541"N	80°18'55.3692"W	621.63	234.754	0.72	0.70	-0.60	
5317.00	14.860	233.410	5242.42	-109.39	-373.12	-527.66	1769768.13	351456.59	39°27'43.5119"N	80°18'55.6241"W	646.25	234.735	0.84	-0.70	-1.77	
5412.00	14.310	232.760	5334.36	-112.76	-387.48	-546.79	1769748.87	351442.40	39°27'43.3699"N	80°18'55.8680"W	670.17	234.677	0.60	-0.58	-0.68	
5507.00	13.990	235.620	5426.48	-116.47	-401.07	-565.62	1769729.93	351428.98	39°27'43.2356"N	80°18'56.1080"W	693.38	234.660	0.81	-0.34	3.01	
5601.00	14.130	234.210	5517.66	-120.40	-414.20	-584.30	1769711.13	351416.02	39°27'43.1059"N	80°18'56.3462"W	716.22	234.668	0.39	0.15	-1.50	
5696.00	13.840	233.890	5609.84	-124.02	-427.68	-602.89	1769692.42	351402.72	39°27'42.9727"N	80°18'56.5832"W	739.17	234.649	0.32	-0.31	-0.34	
5791.00	14.050	234.350	5702.04	-127.65	-441.09	-621.44	1769673.75	351389.47	39°27'42.8401"N	80°18'56.8197"W	762.07	234.633	0.25	0.22	0.48	
5885.00	13.590	233.120	5793.32	-131.07	-454.37	-639.54	1769655.53	351376.35	39°27'42.7088"N	80°18'57.0505"W	784.52	234.608	0.58	-0.49	-1.31	
5980.00	12.890	233.020	5885.80	-134.13	-467.44	-656.93	1769638.02	351363.44	39°27'42.5796"N	80°18'57.2723"W	806.27	234.566	0.74	-0.74	-0.11	
6075.00	13.380	234.530	5978.31	-137.43	-480.20	-674.35	1769620.49	351350.85	39°27'42.4536"N	80°18'57.4943"W	827.85	234.546	0.63	0.52	1.59	
6169.00	13.590	235.670	6069.72	-141.28	-492.74	-692.33	1769602.40	351338.47	39°27'42.3296"N	80°18'57.7235"W	849.77	234.560	0.36	0.22	1.21	
6235.00	12.880	230.950	6133.97	-143.48	-501.74	-704.45	1769590.20	351329.57	39°27'42.2406"N	80°18'57.8780"W	864.86	234.540	1.96	-1.08	-7.15	Final Superior Corrected Surveys <8-1/2">(6169')(6235'-20477')
6330.00	15.970	237.140	6225.97	-147.33	-515.51	-723.65	1769570.87	351315.98	39°27'42.1045"N	80°18'58.1229"W	888.49	234.535	3.63	3.25	6.52	
6424.00	15.350	234.780	6316.48	-152.17	-529.70	-744.68	1769549.72	351301.98	39°27'41.9643"N	80°18'58.3910"W	913.85	234.575	0.95	-0.66	-2.51	
6519.00	14.600	235.030	6408.25	-156.39	-543.82	-764.76	1769529.51	351288.05	39°27'41.8248"N	80°18'58.6470"W	938.40	234.584	0.79	-0.79	0.26	
6614.00	14.470	234.120	6500.21	-160.37	-557.63	-784.19	1769509.96	351274.41	39°27'41.6882"N	80°18'58.8947"W	962.24	234.584	0.28	-0.14	-0.96	
6708.00	14.610	234.000	6591.20	-164.09	-571.49	-803.30	1769490.73	351260.73	39°27'41.5513"N	80°18'59.1383"W	985.84	234.571	0.15	0.15	-0.13	
6803.00	14.650	234.640	6683.12	-167.98	-585.48	-822.79	1769471.11	351246.92	39°27'41.4130"N	80°18'59.3868"W	1009.84	234.565	0.18	0.04	0.67	
6898.00	14.590	234.260	6775.04	-171.92	-599.42	-842.30	1769451.48	351233.15	39°27'41.2752"N	80°18'59.6355"W	1033.81	234.562	0.12	-0.06	-0.40	
6992.00	14.650	233.600	6866.00	-175.60	-613.39	-861.47	1769432.18	351219.36	39°27'41.1371"N	80°18'59.8800"W	1057.54	234.548	0.19	0.06	-0.70	
7087.00	14.530	211.840	6958.01	-174.69	-630.66	-877.44	1769416.05	351202.24	39°27'40.9664"N	80°19'0.0836"W	1080.57	234.294	5.74	-0.13	-22.91	
7182.00	17.720	181.880	7049.41	-162.07	-655.28	-884.22	1769409.06	351177.68	39°27'40.7231"N	80°19'0.1700"W	1100.56	233.458	9.26	3.36	-31.54	
7277.00	24.360	159.660	7138.17	-134.32	-688.19	-877.86	1769415.11	351144.72	39°27'40.3978"N	80°19'0.0890"W	1115.46	231.906	10.81	6.99	-23.39	
7371.00	33.130	150.130	7220.55	-91.80	-728.74	-858.28	1769434.32	351103.99	39°27'39.9971"N	80°18'59.8393"W	1125.93	229.667	10.50	9.33	-10.14	
7466.00	40.830	140.530	7296.44	-35.70	-775.34	-825.54	1769466.64	351057.11	39°27'39.5365"N	80°18'59.4218"W	1132.54	226.796	10.11	8.11	-10.11	
7560.00	50.790	141.460	7361.88	31.24	-827.67	-783.21	1769508.50	351004.39	39°27'39.0193"N	80°18'58.8820"W	1139.50	223.419	10.62	10.60	0.99	
7654.00	59.330	139.380	7415.67	107.88	-886.96	-734.10	1769557.06	350944.67	39°27'38.4334"N	80°18'58.2560"W	1151.35	219.613	9.26	9.09	-2.21	
7749.00	67.470	140.410	7458.18	192.44	-951.89	-679.45	1769611.12	350879.25	39°27'37.7916"N	80°18'57.5592"W	1169.51	215.519	8.62	8.57	1.08	
7761.00†	68.870	139.979	7462.64	203.54	-960.45	-672.32	1769618.17	350870.62	39°27'37.7070"N	80°18'57.4682"W	1172.38	214.992	12.14	11.67	-3.59	Landing Pt. at 7761' MD
7844.00	78.580	137.180	7485.88	282.95	-1020.08	-619.64	1769670.30	350810.52	39°27'37.1177"N	80°18'56.7966"W	1193.53	211.276	12.14	11.70	-3.37	

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Actual Wellpath Report

Sands Unit A 3H AWP Proj: 20500'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

WELLPATH DATA (225 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
7938.00	89.310	134.200	7495.78	376.27	-1086.85	-554.43	1769734.90	350743.17	39°27'36.4578"N	80°18'55.9652"W	1220.10	207.027	11.84	11.41	-3.17	
8033.00	89.890	133.410	7496.44	471.25	-1152.61	-485.87	1769802.86	350676.80	39°27'35.8079"N	80°18'55.0911"W	1250.83	202.857	1.03	0.61	-0.83	
8128.00	91.400	133.680	7495.37	566.21	-1218.05	-417.02	1769871.11	350610.74	39°27'35.1611"N	80°18'54.2132"W	1287.46	198.899	1.61	1.59	0.28	
8223.00	90.690	135.490	7493.64	661.19	-1284.72	-349.37	1769938.15	350543.46	39°27'34.5022"N	80°18'53.3508"W	1331.38	195.213	2.05	-0.75	1.91	
8317.00	91.280	134.720	7492.02	755.17	-1351.30	-283.04	1770003.87	350476.29	39°27'33.8442"N	80°18'52.5050"W	1380.62	191.830	1.03	0.63	-0.82	
8411.00	90.510	135.910	7490.56	849.16	-1418.12	-216.95	1770069.35	350408.87	39°27'33.1837"N	80°18'51.6624"W	1434.62	188.698	1.51	-0.82	1.27	
8506.00	90.050	135.810	7490.09	944.15	-1486.30	-150.79	1770134.89	350340.10	39°27'32.5099"N	80°18'50.8189"W	1493.93	185.793	0.50	-0.48	-0.11	
8600.00	90.450	133.800	7489.68	1038.14	-1552.53	-84.10	1770200.97	350273.27	39°27'31.8553"N	80°18'49.9687"W	1554.81	183.101	2.18	0.43	-2.14	
8695.00	90.750	134.770	7488.69	1133.13	-1618.86	-16.09	1770268.37	350206.33	39°27'31.1997"N	80°18'49.1017"W	1618.94	180.570	1.07	0.32	1.02	
8790.00	89.990	134.310	7488.07	1228.12	-1685.49	51.62	1770335.47	350139.10	39°27'30.5412"N	80°18'48.2384"W	1686.28	178.246	0.94	-0.80	-0.48	
8885.00	90.720	134.980	7487.48	1323.12	-1752.25	119.20	1770402.45	350071.73	39°27'29.8814"N	80°18'47.3767"W	1756.30	176.108	1.04	0.77	0.71	
8979.00	89.460	134.620	7487.34	1417.11	-1818.48	185.90	1770468.54	350004.90	39°27'29.2268"N	80°18'46.5264"W	1827.96	174.163	1.39	-1.34	-0.38	
9074.00	89.220	134.640	7488.43	1512.10	-1885.22	253.51	1770535.53	349937.56	39°27'28.5672"N	80°18'45.6645"W	1902.19	172.341	0.25	-0.25	0.02	
9168.00	89.920	134.530	7489.14	1606.10	-1951.20	320.45	1770601.87	349870.98	39°27'27.9151"N	80°18'44.8111"W	1977.34	170.673	0.75	0.74	-0.12	
9263.00	89.340	134.230	7489.75	1701.09	-2017.64	388.35	1770669.16	349803.93	39°27'27.2584"N	80°18'43.9455"W	2054.68	169.105	0.69	-0.61	-0.32	
9357.00	90.110	134.040	7490.20	1795.08	-2083.10	455.81	1770736.02	349737.87	39°27'26.6114"N	80°18'43.0854"W	2132.38	167.657	0.84	0.82	-0.20	
9452.00	90.420	133.740	7489.76	1890.06	-2148.96	524.27	1770803.88	349671.39	39°27'25.9605"N	80°18'42.2126"W	2211.99	166.290	0.45	0.33	-0.32	
9547.00	89.890	134.480	7489.50	1985.05	-2215.08	592.48	1770871.49	349604.66	39°27'25.3070"N	80°18'41.3430"W	2292.95	165.025	0.96	-0.56	0.78	
9641.00	89.830	135.470	7489.73	2079.05	-2281.52	658.98	1770937.37	349537.63	39°27'24.6503"N	80°18'40.4953"W	2374.78	163.890	1.06	-0.06	1.05	
9735.00	89.550	134.600	7490.24	2173.04	-2348.03	725.40	1771003.19	349470.52	39°27'23.9930"N	80°18'39.6484"W	2457.53	162.832	0.97	-0.30	-0.93	
9830.00	89.890	135.470	7490.71	2268.04	-2415.24	792.54	1771069.71	349402.71	39°27'23.3287"N	80°18'38.7926"W	2541.95	161.833	0.98	0.36	0.92	
9924.00	89.280	134.760	7491.39	2362.04	-2481.84	858.87	1771135.43	349335.52	39°27'22.6704"N	80°18'37.9470"W	2626.25	160.911	1.00	-0.65	-0.76	
10018.00	89.650	134.470	7492.27	2456.03	-2547.86	925.78	1771201.74	349268.90	39°27'22.0179"N	80°18'37.0940"W	2710.84	160.031	0.50	0.39	-0.31	
10113.00	89.800	134.890	7492.72	2551.03	-2614.66	993.33	1771268.67	349201.50	39°27'21.3577"N	80°18'36.2329"W	2796.98	159.198	0.47	0.16	0.44	
10208.00	89.490	134.860	7493.31	2646.03	-2681.68	1060.65	1771335.38	349133.87	39°27'20.6952"N	80°18'35.3747"W	2883.82	158.420	0.33	-0.33	-0.03	
10303.00	89.580	134.100	7494.08	2741.02	-2748.24	1128.43	1771402.55	349066.70	39°27'20.0373"N	80°18'34.5106"W	2970.89	157.677	0.81	0.09	-0.80	
10397.00	90.880	137.390	7493.70	2834.99	-2815.56	1194.01	1771467.52	348998.80	39°27'19.3720"N	80°18'33.6745"W	3058.27	157.019	3.76	1.38	3.50	
10492.00	89.590	136.490	7493.31	2929.94	-2884.97	1258.87	1771531.75	348928.81	39°27'18.6860"N	80°18'32.8477"W	3147.66	156.426	1.66	-1.36	-0.95	
10587.00	90.110	135.950	7493.56	3024.91	-2953.56	1324.60	1771596.85	348859.63	39°27'18.0080"N	80°18'32.0098"W	3236.98	155.845	0.79	0.55	-0.57	
10681.00	90.570	137.090	7493.01	3118.88	-3021.76	1389.28	1771660.90	348790.85	39°27'17.3339"N	80°18'31.1852"W	3325.83	155.309	1.31	0.49	1.21	

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Actual Wellpath Report
Sands Unit A 3H AWP Proj: 20500'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWP
Slot	Slot #03		

WELLPATH DATA (225 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
13614.00	90.510	134.890	7484.29	6051.45	-5093.95	3464.38	1773717.03	346700.07	39°26'56.8516"N	80°18'4.7344"W	6160.38	145.780	1.53	-0.33	-1.49	
13708.00	90.140	135.450	7483.76	6145.45	-5160.61	3530.65	1773782.69	346632.82	39°26'56.1927"N	80°18'3.8898"W	6252.79	145.622	0.71	-0.39	0.60	
13803.00	89.680	134.360	7483.91	6240.45	-5227.67	3597.94	1773849.36	346565.15	39°26'55.5298"N	80°18'3.0322"W	6346.16	145.462	1.25	-0.48	-1.15	
13898.00	91.220	136.240	7483.16	6335.44	-5295.19	3664.75	1773915.56	346497.03	39°26'54.8624"N	80°18'2.1806"W	6439.68	145.313	2.56	1.62	1.98	
13992.00	90.170	133.910	7482.02	6429.42	-5361.74	3731.12	1773981.32	346429.89	39°26'54.2046"N	80°18'1.3347"W	6532.19	145.167	2.72	-1.12	-2.48	
14087.00	90.910	133.360	7481.13	6524.39	-5427.29	3799.88	1774049.48	346363.73	39°26'53.5566"N	80°18'0.4584"W	6625.29	145.002	0.97	0.78	-0.58	
14182.00	90.020	134.230	7480.36	6619.36	-5493.03	3868.45	1774117.44	346297.37	39°26'52.9067"N	80°17'59.5844"W	6718.50	144.845	1.31	-0.94	0.92	
14276.00	90.570	134.710	7479.87	6713.36	-5558.88	3935.52	1774183.92	346230.92	39°26'52.2558"N	80°17'58.7295"W	6810.98	144.703	0.78	0.59	0.51	
14371.00	88.750	133.390	7480.44	6808.34	-5624.93	4003.80	1774251.59	346164.26	39°26'51.6029"N	80°17'57.8593"W	6904.36	144.557	2.37	-1.92	-1.39	
14466.00	89.890	134.470	7481.56	6903.31	-5690.83	4072.21	1774319.40	346097.74	39°26'50.9515"N	80°17'56.9874"W	6997.74	144.413	1.65	1.20	1.14	
14560.00	90.750	133.750	7481.04	6997.30	-5756.26	4139.70	1774386.29	346031.71	39°26'50.3047"N	80°17'56.1273"W	7090.25	144.278	1.19	0.91	-0.77	
14654.00	90.880	133.780	7479.70	7091.27	-5821.27	4207.58	1774453.57	345966.09	39°26'49.6621"N	80°17'55.2621"W	7182.68	144.141	0.14	0.14	0.03	
14749.00	91.340	134.770	7477.86	7186.24	-5887.58	4275.58	1774520.97	345899.18	39°26'49.0066"N	80°17'54.3954"W	7276.27	144.013	1.15	0.48	1.04	
14844.00	91.030	134.620	7475.90	7281.22	-5954.38	4343.10	1774587.87	345831.77	39°26'48.3463"N	80°17'53.5349"W	7370.02	143.893	0.36	-0.33	-0.16	
14938.00	90.320	133.950	7474.79	7375.20	-6020.01	4410.39	1774654.56	345765.54	39°26'47.6975"N	80°17'52.6773"W	7462.71	143.773	1.04	-0.76	-0.71	
15033.00	90.080	133.760	7474.46	7470.18	-6085.82	4478.89	1774722.46	345699.10	39°26'47.0469"N	80°17'51.8043"W	7556.30	143.649	0.32	-0.25	-0.20	
15127.00	90.630	135.500	7473.87	7564.18	-6151.86	4545.78	1774788.75	345632.47	39°26'46.3941"N	80°17'50.9518"W	7649.15	143.538	1.94	0.59	1.85	
15222.00	90.600	134.900	7472.85	7659.17	-6219.26	4612.72	1774855.07	345564.47	39°26'45.7278"N	80°17'50.0987"W	7743.15	143.436	0.63	-0.03	-0.63	
15317.00	88.850	132.760	7473.31	7754.14	-6285.05	4681.24	1774922.99	345498.07	39°26'45.0775"N	80°17'49.2254"W	7836.83	143.320	2.91	-1.84	-2.25	
15411.00	89.460	134.340	7474.70	7848.10	-6349.80	4749.36	1774990.52	345432.70	39°26'44.4374"N	80°17'48.3572"W	7929.47	143.205	1.80	0.65	1.68	
15506.00	89.890	135.880	7475.24	7943.09	-6417.10	4816.41	1775056.94	345364.80	39°26'43.7721"N	80°17'47.5028"W	8023.53	143.110	1.68	0.45	1.62	
15601.00	88.660	136.040	7476.44	8038.07	-6485.39	4882.44	1775122.35	345295.93	39°26'43.0971"N	80°17'46.6612"W	8117.79	143.026	1.31	-1.29	0.17	
15695.00	89.000	135.710	7478.36	8132.04	-6552.85	4947.87	1775187.17	345227.88	39°26'42.4302"N	80°17'45.8274"W	8211.04	142.945	0.50	0.36	-0.35	
15790.00	89.650	135.690	7479.48	8227.02	-6620.83	5014.22	1775252.89	345159.30	39°26'41.7582"N	80°17'44.9819"W	8305.29	142.862	0.68	0.68	-0.02	
15885.00	89.710	135.690	7480.01	8322.01	-6688.81	5080.58	1775318.63	345090.73	39°26'41.0862"N	80°17'44.1362"W	8399.55	142.781	0.06	0.06	0.00	
15979.00	90.290	138.070	7480.01	8415.96	-6757.42	5144.82	1775382.24	345021.55	39°26'40.4080"N	80°17'43.3174"W	8493.05	142.716	2.61	0.62	2.53	
16074.00	90.420	139.350	7479.42	8510.75	-6828.80	5207.51	1775444.28	344949.61	39°26'39.7024"N	80°17'42.5186"W	8587.82	142.672	1.35	0.14	1.35	
16169.00	89.620	138.510	7479.39	8605.53	-6900.42	5269.92	1775506.03	344877.43	39°26'38.9944"N	80°17'41.7232"W	8682.61	142.631	1.22	-0.84	-0.88	
16263.00	89.710	141.370	7479.93	8699.16	-6972.35	5330.41	1775565.87	344804.95	39°26'38.2833"N	80°17'40.9524"W	8776.50	142.602	3.04	0.10	3.04	
16358.00	89.650	145.520	7480.47	8793.11	-7048.65	5386.98	1775621.74	344728.15	39°26'37.5291"N	80°17'40.2315"W	8871.47	142.611	4.37	-0.06	4.37	

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Sands Unit A 3H AWP Proj: 20500'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

WELLPATH DATA (225 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
16453.00	89.430	149.440	7481.23	8885.84	-7128.73	5438.04	1775672.07	344647.61	39°26'36.7375"N	80°17'39.5809"W	8966.11	142.662	4.13	-0.23	4.13	
16547.00	90.290	148.490	7481.46	8977.06	-7209.28	5486.50	1775719.80	344566.64	39°26'35.9414"N	80°17'38.9634"W	9059.54	142.728	1.36	0.91	-1.01	
16642.00	89.920	150.290	7481.28	9069.07	-7291.03	5534.87	1775767.42	344484.45	39°26'35.1332"N	80°17'38.3471"W	9153.90	142.797	1.93	-0.39	1.89	
16736.00	88.630	150.950	7482.47	9159.58	-7372.94	5580.98	1775812.79	344402.14	39°26'34.3236"N	80°17'37.7596"W	9247.03	142.876	1.54	-1.37	0.70	
16831.00	89.550	154.250	7483.98	9250.10	-7457.25	5624.69	1775855.73	344317.43	39°26'33.4902"N	80°17'37.2027"W	9340.65	142.974	3.61	0.97	3.47	
16925.00	89.400	156.440	7484.84	9338.23	-7542.68	5663.90	1775894.16	344231.67	39°26'32.6458"N	80°17'36.7032"W	9432.48	143.097	2.34	-0.16	2.33	
17020.00	88.690	156.720	7486.43	9426.55	-7629.84	5701.65	1775931.12	344144.17	39°26'31.7843"N	80°17'36.2222"W	9524.87	143.230	0.80	-0.75	0.29	
17114.00	89.740	159.360	7487.72	9513.03	-7717.00	5736.80	1775965.47	344056.70	39°26'30.9227"N	80°17'35.7745"W	9615.76	143.373	3.02	1.12	2.81	
17209.00	88.320	159.530	7489.32	9599.49	-7805.94	5770.15	1775998.01	343967.47	39°26'30.0437"N	80°17'35.3497"W	9707.07	143.528	1.51	-1.49	0.18	
17304.00	89.520	162.950	7491.12	9684.66	-7895.86	5800.69	1776027.74	343877.28	39°26'29.1549"N	80°17'34.9607"W	9797.58	143.697	3.81	1.26	3.60	
17399.00	89.000	159.400	7492.34	9769.89	-7985.76	5831.33	1776057.57	343787.11	39°26'28.2663"N	80°17'34.5703"W	9888.21	143.862	3.78	-0.55	-3.74	
17494.00	89.310	159.650	7493.74	9856.30	-8074.74	5864.56	1776089.98	343697.83	39°26'27.3867"N	80°17'34.1471"W	9979.71	144.010	0.42	0.33	0.26	
17588.00	89.950	159.340	7494.35	9941.83	-8162.79	5897.49	1776122.11	343609.50	39°26'26.5165"N	80°17'33.7277"W	10070.32	144.152	0.76	0.68	-0.33	
17683.00	89.220	156.110	7495.04	10029.44	-8250.68	5933.49	1776157.31	343521.29	39°26'25.6477"N	80°17'33.2690"W	10162.68	144.278	3.49	-0.77	-3.40	
17778.00	89.860	155.610	7495.80	10118.20	-8337.37	5972.34	1776195.38	343434.26	39°26'24.7908"N	80°17'32.7741"W	10255.76	144.385	0.85	0.67	-0.53	
17873.00	88.480	152.190	7497.18	10208.05	-8422.66	6014.12	1776236.38	343348.60	39°26'23.9478"N	80°17'32.2418"W	10349.44	144.472	3.88	-1.45	-3.60	
17967.00	87.890	151.990	7500.16	10297.85	-8505.68	6058.10	1776279.60	343265.18	39°26'23.1271"N	80°17'31.6815"W	10442.57	144.540	0.66	-0.63	-0.21	
18062.00	89.950	153.390	7501.95	10388.33	-8590.07	6101.68	1776322.41	343180.41	39°26'22.2929"N	80°17'31.1264"W	10536.59	144.613	2.62	2.17	1.47	
18157.00	89.860	154.350	7502.10	10478.22	-8675.36	6143.51	1776363.47	343094.75	39°26'21.4499"N	80°17'30.5934"W	10630.37	144.696	1.01	-0.09	1.01	
18252.00	88.820	153.910	7503.20	10567.96	-8760.84	6184.96	1776404.14	343008.91	39°26'20.6050"N	80°17'30.0654"W	10724.08	144.779	1.19	-1.09	-0.46	
18346.00	89.650	154.550	7504.45	10656.70	-8845.48	6225.83	1776444.23	342923.90	39°26'19.7683"N	80°17'29.5448"W	10816.81	144.860	1.11	0.88	0.68	
18441.00	88.540	154.380	7505.95	10746.25	-8931.19	6266.77	1776484.40	342837.83	39°26'18.9212"N	80°17'29.0232"W	10910.48	144.944	1.18	-1.17	-0.18	
18535.00	88.010	153.070	7508.78	10835.23	-9015.43	6308.36	1776525.22	342753.22	39°26'18.0884"N	80°17'28.4934"W	11003.34	145.018	1.50	-0.56	-1.39	
18630.00	89.120	153.900	7511.16	10925.29	-9100.41	6350.76	1776566.85	342667.86	39°26'17.2484"N	80°17'27.9533"W	11097.28	145.091	1.46	1.17	0.87	
18725.00	88.660	153.990	7513.00	11015.12	-9185.74	6392.48	1776607.79	342582.16	39°26'16.4050"N	80°17'27.4218"W	11191.14	145.165	0.49	-0.48	0.09	
18820.00	88.290	153.040	7515.53	11105.17	-9270.74	6434.83	1776649.37	342496.79	39°26'15.5648"N	80°17'26.8823"W	11285.11	145.235	1.07	-0.39	-1.00	
18914.00	89.030	153.920	7517.73	11194.29	-9354.83	6476.79	1776690.56	342412.33	39°26'14.7336"N	80°17'26.3478"W	11378.12	145.303	1.22	0.79	0.94	
19008.00	89.220	154.660	7519.16	11282.99	-9439.51	6517.56	1776730.56	342327.29	39°26'13.8965"N	80°17'25.8284"W	11470.96	145.377	0.81	0.20	0.79	
19103.00	88.080	153.490	7521.40	11372.74	-9524.92	6559.08	1776771.31	342241.51	39°26'13.0523"N	80°17'25.2995"W	11564.85	145.448	1.72	-1.20	-1.23	
19198.00	89.800	154.100	7523.16	11462.65	-9610.14	6601.02	1776812.47	342155.92	39°26'12.2099"N	80°17'24.7652"W	11658.83	145.516	1.92	1.81	0.64	

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REFERENCE WELLPATH IDENTIFICATION

Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

WELLPATH DATA (225 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 ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
19292.00	89.650	155.370	7523.61	11551.12	-9695.15	6641.14	1776851.82	342070.56	39°26'11.3697"N	80°17'24.2542"W	11751.62	145.589	1.36	-0.16	1.35	
19387.00	89.830	155.310	7524.04	11640.19	-9781.48	6680.78	1776890.67	341983.87	39°26'10.5163"N	80°17'23.7493"W	11845.26	145.667	0.20	0.19	-0.06	
19481.00	88.480	154.270	7525.43	11728.62	-9866.52	6720.81	1776929.92	341898.48	39°26'9.6757"N	80°17'23.2394"W	11938.07	145.738	1.81	-1.44	-1.11	
19576.00	89.310	156.240	7527.26	11817.72	-9952.77	6760.57	1776968.89	341811.88	39°26'8.8231"N	80°17'22.7330"W	12031.75	145.813	2.25	0.87	2.07	
19671.00	89.400	156.230	7528.33	11906.26	-10039.71	6798.85	1777006.39	341724.60	39°26'7.9637"N	80°17'22.2454"W	12125.19	145.894	0.10	0.09	-0.01	
19765.00	89.550	156.560	7529.19	11993.77	-10125.84	6836.49	1777043.24	341638.13	39°26'7.1124"N	80°17'21.7660"W	12217.62	145.975	0.39	0.16	0.35	
19860.00	89.060	155.320	7530.34	12082.48	-10212.58	6875.21	1777081.18	341551.05	39°26'6.2550"N	80°17'21.2727"W	12311.19	146.051	1.40	-0.52	-1.31	
19955.00	89.770	154.410	7531.31	12171.82	-10298.58	6915.56	1777120.74	341464.70	39°26'5.4049"N	80°17'20.7588"W	12405.07	146.118	1.21	0.75	-0.96	
20050.00	88.820	152.420	7532.48	12261.94	-10383.52	6958.07	1777162.48	341379.38	39°26'4.5653"N	80°17'20.2173"W	12499.29	146.174	2.32	-1.00	-2.09	
20145.00	89.220	154.330	7534.11	12352.07	-10468.43	7000.64	1777204.27	341294.09	39°26'3.7260"N	80°17'19.6751"W	12593.53	146.228	2.05	0.42	2.01	
20239.00	87.680	154.160	7536.65	12440.78	-10553.06	7041.47	1777244.33	341209.10	39°26'2.8894"N	80°17'19.1551"W	12686.58	146.287	1.65	-1.64	-0.18	
20334.00	87.740	153.340	7540.45	12530.66	-10638.19	7083.45	1777285.54	341123.60	39°26'2.0479"N	80°17'18.6203"W	12780.71	146.342	0.86	0.06	-0.86	
20429.00	87.770	153.820	7544.17	12620.63	-10723.21	7125.69	1777327.00	341038.21	39°26'1.2076"N	80°17'18.0823"W	12874.88	146.396	0.51	0.03	0.51	
20477.00	87.980	153.870	7545.95	12666.02	-10766.26	7146.83	1777347.75	340994.97	39°26'0.7820"N	80°17'17.8130"W	12922.45	146.423	0.45	0.44	0.10	Last MWD Survey at 20477' MD
20500.00‡	87.980	153.870	7546.76	12687.77	-10786.90	7156.95	1777357.69	340974.24	39°26'0.5780"N	80°17'17.6840"W	12945.24	146.436	0.00	0.00	0.00	Deepest TVD at 7546.763' TVD, Projected MD at TD: 20500'MD

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

HOLE & CASING SECTIONS - Ref Wellbore: Sands Unit A 3H AWB Ref Wellpath: Sands Unit A 3H AWP Proj: 20500'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
24in Conductor	26.00	102.00	76.00	26.00	102.00	0.00	0.00	-0.19	-0.07
17.5in Open Hole	102.00	550.00	448.00	102.00	549.98	-0.19	-0.07	-3.47	-1.85
13.375in Casing Surface	26.00	550.00	524.00	26.00	549.98	0.00	0.00	-3.47	-1.85
12.25in Open Hole	550.00	3150.00	2600.00	549.98	3139.79	-3.47	-1.85	-65.39	-105.46
9.625in Casing Intermediate	26.00	3150.00	3124.00	26.00	3139.79	0.00	0.00	-65.39	-105.46
8.75in Open Hole	3150.00	6241.00	3091.00	3139.79	6139.81	-65.39	-105.46	-502.59	-705.50
8.5in Open Hole	6241.00	20500.00	14259.00	6139.81	7546.76	-502.59	-705.50	-10786.90	7156.95
5.5in Casing Production	26.00	20500.00	20474.00	26.00	7546.76	0.00	0.00	-10786.90	7156.95

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sands Unit A 3H - BHL - Rev-2	7502.00	-10791.03	7150.99	1777351.69	340970.16	39°26'0.5371"N	80°17'17.7600"W	point
Sands Unit A 3H - IP #1 - Rev-2	7502.00	-6689.55	5054.95	1775292.99	345090.23	39°26'41.0790"N	80°17'44.4629"W	point
Sands Unit A 3H - LP - Rev-2	7502.00	-1101.73	-535.79	1769753.41	350728.12	39°27'36.3107"N	80°18'55.7275"W	point
Sands Unit A 3H - Avoid Parcel #1	7550.00	-7014.89	5083.62	1775318.72	344764.65	39°26'37.8633"N	80°17'44.0982"W	polygon
	2D Polygon: dimensions not calculated							
Sands Unit A 3H - Avoid Parcel #2	7550.00	-10365.06	7000.84	1777205.41	341397.45	39°26'4.7476"N	80°17'19.6722"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Sands Unit A 3H AWB Ref Wellpath: Sands Unit A 3H AWP Proj: 20500'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	476.00	BH Generic gyro - northseeking (Standard)	01_Javins Gyro Surveys <17-1/2">(50'-450')	Sands Unit A 3H AWB	12/16/2019
476.00	3111.00	OWSG MWD rev2 + HRGM	02_Javins EM Surveys <12-1/4">(450')(533'-3085')	Sands Unit A 3H AWB	12/16/2019
3111.00	6169.00	OWSG MWD rev2 + HRGM	03_Javins EM Surveys <8-3/4">(3085')(3204'-6143')	Sands Unit A 3H AWB	12/16/2019
6169.00	20500.00	OWSG MWD rev2 +HRGM + Multi-Station Correction	05_Final Superior Corrected Surveys <8-1/2">(6169')(6235'-20477')	Sands Unit A 3H AWB	2/4/2020

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REFERENCE WELLPATH IDENTIFICATION			
Operator	XTO ENERGY INC	Well	Sands Unit A 3H
Field	Marion	API	47-049-02491-0000
Facility	Sands Pad	Wellbore	Sands Unit A 3H AWB
Slot	Slot #03		

COMMENTS
<p>Wellpath general comments API: 47-049-02491-0000 BHI Job #: 110263310A Rig: Patteron 579 Duration: 02/02/2020-02/11/2020 Javins Gyro Surveys <17-1/2">(50'-450') Javins EM Surveys <12-1/4">(450')(533'-3085') Javins EM Surveys <8-3/4">(3085')(3204'-6143') Final Superior Corrected Surveys <8-1/2">(6169')(6235'-20477') Landing Pt. at 7761' MD Last MWD Survey at 20477' MD Deepest TVD at 7546.763' TVD Projected MD at TD: 20500'MD</p>

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