EXPAND ENERGY

Area: Ohio County, WV
Field: Ohio (NAD27 SP)
Facility: Charles Frye OHI Pad
Slot: 410H

Well: CHARLES FRYE OHI 410H
UWI: 47-069-00378-00-00
Wellbore: CHARLES FRYE OHI 410H AWB
Wellpath: CHARLES FRYE OHI 410H AWP Proj: 24317'

Plot reference wellpath is CHARLES FRYE OHI 410H AWP Proj: 24317'	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to EDC 501 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to EDC 501 (KB)	Scale: True distance
EDC 501 (KB) to Mean Sea Level: 1292.8 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 410H): -1266.8 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2025-09-18; Database: WA_MPL_EASTERNUS_Defn

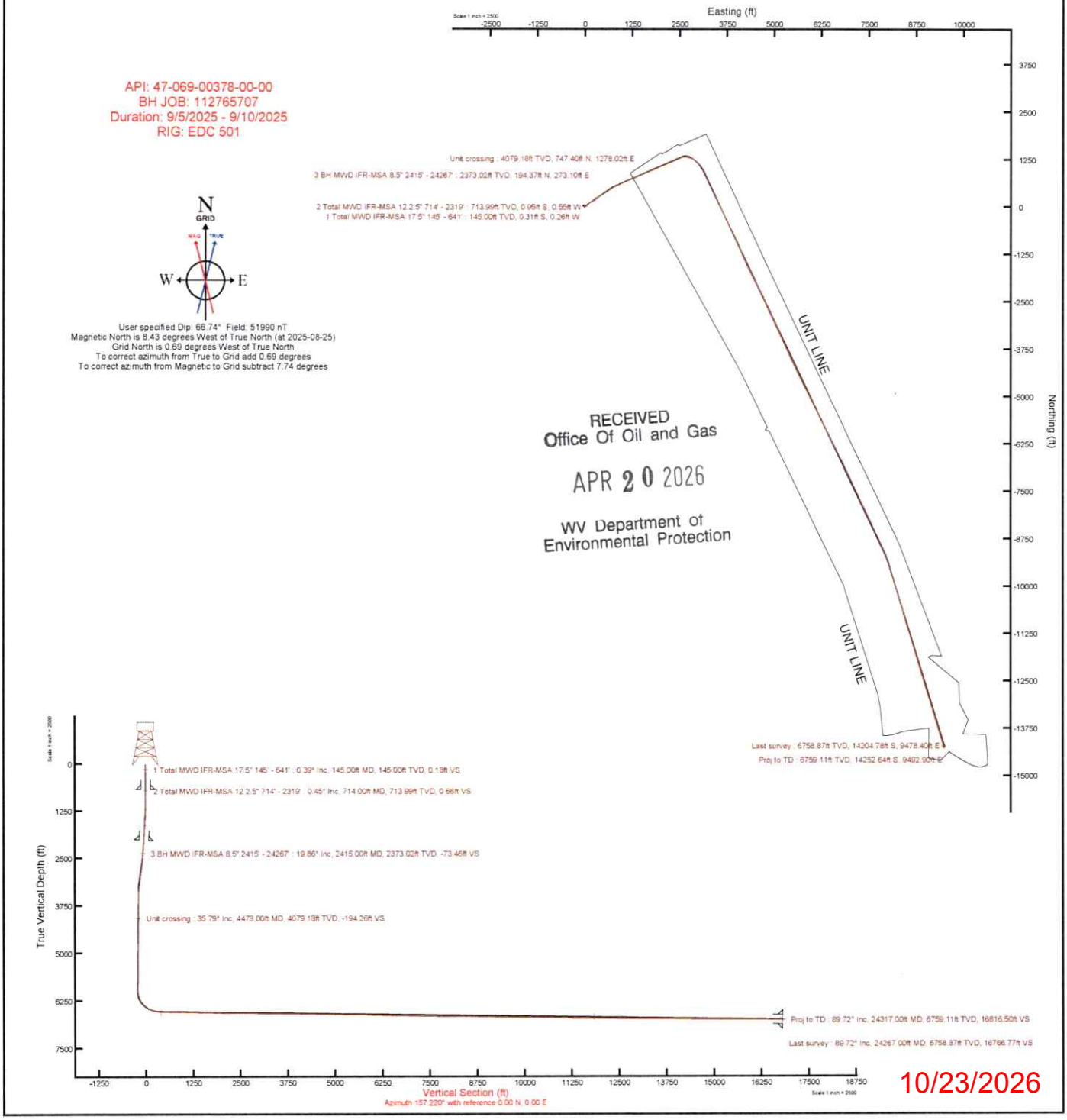
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Charles Frye OHI Pad			1698453.330	567465.240	40°03'10.8824N	80°34'37.8870W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
410H	-9.47	11.26	1698464.590	567455.770	40°03'10.7902N	80°34'37.7407W

EDC 501 (KB) to Ground level (At Slot: 410H)	26ft
Mean Sea Level to Ground level (At Slot: 410H)	-1266.8ft
EDC 501 (KB) to Mean Sea Level	1292.8ft

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
24317.00	89.720	163.150	6759.11	-14252.64	9492.90	1707957.17	553203.61	40°00'51.0556"N	80°32'33.5504"W



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Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

REFERENCE WELLPATH IDENTIFICATION			
Operator	**EXPAND ENERGY**	Well	**CHARLES FRYE OHI 410H**
Field	**Ohio (NAD27 SP)**	UWI	**47-069-00378-00-00**
Facility	**Charles Frye OHI Pad**	Wellbore	**CHARLES FRYE OHI 410H AWB**
Slot	**410H**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet [32050]**	Software System	**WellArchitect® 7.0.1**
North Reference	**Grid**	Report Generated By	**Tranlam** on **2025-09-18** at **12:52:57 PM**
Scale	**0.999968**	Last Updated	**2025-09-18**
Convergence at slot	**0.69° 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	-9.47	11.26	**1698464.59**	**567455.77**	40°03'10.7902"N	80°34'37.7407"W
Facility Reference Pt			**1698453.33**	**567465.24**	40°03'10.8824"N	80°34'37.8870"W
Field Reference Pt			**609601.22**	**0.00**	38°23'48.7532"N	84°21'9.7646"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	EDC 501 (KB) to Facility Vertical Datum	**1292.80ft**
Horizontal Reference Pt	**Slot**	EDC 501 (KB) to Mean Sea Level	**1292.80ft**
Vertical Reference Pt	**EDC 501 (KB)**	EDC 501 (KB) to Ground Level at Slot (410H)	**26.00ft**
MD Reference Pt	**EDC 501 (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**157.220°**

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Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

WELLPATH DATA (260 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]
0.00†	0.000	220.130	0.00	0.00	0.00	0.00	1698464.59	567455.77	40°03'10.7902"N	80°34'37.7407"W	0.00	0.000	0.00
26.00	0.000	220.130	26.00	0.00	0.00	0.00	1698464.59	567455.77	40°03'10.7902"N	80°34'37.7407"W	0.00	0.000	0.00
145.00	0.390	220.130	145.00	0.18	-0.31	-0.26	1698464.33	567455.46	40°03'10.7871"N	80°34'37.7440"W	0.41	220.130	0.33
235.00	0.450	157.530	235.00	0.68	-0.87	-0.32	1698464.27	567454.90	40°03'10.7815"N	80°34'37.7447"W	0.93	200.380	0.49
325.00	0.300	166.930	325.00	1.26	-1.43	-0.14	1698464.45	567454.34	40°03'10.7761"N	80°34'37.7422"W	1.43	185.406	0.18
415.00	0.340	315.980	414.99	1.25	-1.46	-0.27	1698464.32	567454.31	40°03'10.7757"N	80°34'37.7439"W	1.49	190.347	0.69
505.00	0.090	145.100	504.99	1.07	-1.33	-0.41	1698464.18	567454.44	40°03'10.7770"N	80°34'37.7458"W	1.39	197.228	0.48
550.00	0.460	311.390	549.99	0.94	-1.24	-0.53	1698464.06	567454.53	40°03'10.7779"N	80°34'37.7473"W	1.35	203.061	1.22
641.00	0.140	156.220	640.99	0.72	-1.10	-0.76	1698463.83	567454.67	40°03'10.7792"N	80°34'37.7503"W	1.34	214.539	0.65
714.00	0.450	36.460	713.99	0.66	-0.95	-0.55	1698464.04	567454.82	40°03'10.7807"N	80°34'37.7476"W	1.10	210.075	0.73
777.00	0.820	57.860	776.99	0.46	-0.51	-0.02	1698464.57	567455.26	40°03'10.7851"N	80°34'37.7409"W	0.51	182.447	0.69
867.00	1.730	56.950	866.97	0.12	0.57	1.66	1698466.25	567456.34	40°03'10.7960"N	80°34'37.7194"W	1.76	71.025	1.01
958.00	3.420	53.060	957.87	-0.79	2.95	4.98	1698469.57	567458.72	40°03'10.8199"N	80°34'37.6771"W	5.79	59.358	1.87
1049.00	4.930	50.670	1048.63	-2.57	7.06	10.18	1698474.77	567462.83	40°03'10.8612"N	80°34'37.6109"W	12.39	55.245	1.67
1140.00	6.780	49.460	1139.15	-5.32	13.03	17.28	1698481.87	567468.80	40°03'10.9210"N	80°34'37.5205"W	21.65	52.986	2.04
1229.00	8.300	48.690	1227.38	-8.97	20.69	26.10	1698490.69	567476.46	40°03'10.9977"N	80°34'37.4083"W	33.31	51.602	1.71
1321.00	10.660	50.710	1318.11	-13.50	30.46	37.68	1698502.27	567486.23	40°03'11.0957"N	80°34'37.2609"W	48.45	51.046	2.59
1412.00	12.490	50.800	1407.26	-18.67	42.01	51.82	1698516.41	567497.78	40°03'11.2115"N	80°34'37.0809"W	66.71	50.968	2.01
1502.00	13.420	56.910	1494.97	-23.29	53.86	68.11	1698532.70	567509.63	40°03'11.3305"N	80°34'36.8732"W	86.84	51.662	1.84
1594.00	14.520	58.890	1584.25	-26.87	65.65	86.93	1698551.52	567521.42	40°03'11.4492"N	80°34'36.6330"W	108.94	52.939	1.30
1685.00	15.300	58.670	1672.18	-30.31	77.79	106.95	1698571.54	567533.56	40°03'11.5716"N	80°34'36.3774"W	132.25	53.971	0.86
1775.00	15.120	57.190	1759.03	-34.12	90.32	126.96	1698591.55	567546.09	40°03'11.6978"N	80°34'36.1221"W	155.81	54.571	0.48
1865.00	14.640	55.100	1846.01	-38.55	103.19	146.16	1698610.74	567558.96	40°03'11.8272"N	80°34'35.8773"W	178.91	54.776	0.80
1955.00	14.170	53.200	1933.18	-43.61	116.30	164.31	1698628.89	567572.06	40°03'11.9589"N	80°34'35.6459"W	201.30	54.708	0.74
2046.00	14.970	56.400	2021.26	-48.51	129.48	183.01	1698647.60	567585.24	40°03'12.0913"N	80°34'35.4074"W	224.18	54.722	1.25
2137.00	15.820	53.540	2108.99	-53.65	143.35	202.78	1698667.36	567599.12	40°03'12.2308"N	80°34'35.1554"W	248.33	54.743	1.25
2227.00	17.870	53.990	2195.13	-59.72	158.76	223.82	1698688.40	567614.53	40°03'12.3855"N	80°34'34.8872"W	274.41	54.651	2.28
2319.00	18.850	54.290	2282.44	-66.27	175.74	247.31	1698711.89	567631.50	40°03'12.5560"N	80°34'34.5878"W	303.39	54.602	1.07
2415.00	19.860	54.030	2373.02	-73.46	194.37	273.10	1698737.68	567650.13	40°03'12.7432"N	80°34'34.2591"W	335.20	54.560	1.06

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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]
2488.00	22.100	59.800	2441.18	-76.07	208.56	295.01	1698759.59	567664.32	40°03'12.8860"N	80°34'33.9795"W	361.28	54.741	4.17

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Operator	EXPAND ENERGY	Well	CHARLES FRYE OHI 410H
Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

WELLPATH DATA (260 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]
2579.00	25.940	56.920	2524.29	-83.84	228.04	326.49	1698791.07	567683.80	40°03'13.0823"N	80°34'33.5777"W	398.25	55.067	4.41
2667.00	28.510	57.480	2602.53	-90.83	249.84	360.33	1698824.91	567705.60	40°03'13.3017"N	80°34'33.1459"W	438.47	55.264	2.93
2755.00	31.710	56.140	2678.65	-98.83	274.02	397.26	1698861.83	567729.78	40°03'13.5450"N	80°34'32.6749"W	482.60	55.402	3.72
2847.00	35.010	56.710	2755.48	-108.30	301.99	439.41	1698903.98	567757.75	40°03'13.8264"N	80°34'32.1372"W	533.17	55.501	3.60
2937.00	35.860	56.370	2828.81	-117.97	330.76	482.94	1698947.51	567786.52	40°03'14.1158"N	80°34'31.5819"W	585.35	55.593	0.97
3028.00	35.760	56.740	2902.61	-127.82	360.10	527.36	1698991.94	567815.86	40°03'14.4111"N	80°34'31.0151"W	638.58	55.673	0.26
3119.00	35.820	56.210	2976.42	-137.75	389.50	571.73	1699036.30	567845.25	40°03'14.7067"N	80°34'30.4492"W	691.80	55.735	0.35
3209.00	35.750	56.680	3049.43	-147.58	418.59	615.59	1699080.16	567874.34	40°03'14.9994"N	80°34'29.8897"W	744.42	55.785	0.32
3300.00	35.810	56.380	3123.26	-157.45	447.93	659.97	1699124.54	567903.68	40°03'15.2946"N	80°34'29.3235"W	797.62	55.835	0.20
3392.00	35.810	56.670	3197.87	-167.44	477.62	704.87	1699169.43	567933.37	40°03'15.5933"N	80°34'28.7507"W	851.45	55.878	0.18
3482.00	35.740	56.510	3270.89	-177.15	506.59	748.79	1699213.35	567962.34	40°03'15.8848"N	80°34'28.1905"W	904.06	55.920	0.13
3574.00	35.800	60.860	3345.54	-185.12	534.52	794.71	1699259.27	567990.28	40°03'16.1662"N	80°34'27.6043"W	957.74	56.075	2.76
3664.00	35.840	66.360	3418.54	-188.44	557.91	841.85	1699306.41	568013.66	40°03'16.4029"N	80°34'27.0017"W	1009.94	56.467	3.58
3755.00	35.770	66.360	3492.34	-189.24	579.26	890.62	1699355.18	568035.01	40°03'16.6196"N	80°34'26.3779"W	1062.42	56.960	0.08
3844.00	35.730	66.540	3564.57	-189.93	600.04	938.29	1699402.84	568055.79	40°03'16.8306"N	80°34'25.7682"W	1113.74	57.401	0.13
3935.00	35.660	66.540	3638.48	-190.56	621.17	986.99	1699451.55	568076.92	40°03'17.0452"N	80°34'25.1451"W	1166.19	57.815	0.08
4027.00	35.810	66.520	3713.16	-191.21	642.57	1036.28	1699500.83	568098.32	40°03'17.2625"N	80°34'24.5146"W	1219.33	58.198	0.16
4117.00	35.760	66.530	3786.16	-191.85	663.54	1084.55	1699549.10	568119.29	40°03'17.4753"N	80°34'23.8972"W	1271.43	58.541	0.06
4208.00	35.740	66.510	3860.02	-192.50	684.72	1133.31	1699597.87	568140.47	40°03'17.6904"N	80°34'23.2734"W	1324.10	58.861	0.03
4298.00	35.750	66.650	3933.06	-193.09	705.62	1181.56	1699646.11	568161.36	40°03'17.9026"N	80°34'22.6562"W	1376.22	59.155	0.09
4389.00	35.700	66.490	4006.94	-193.69	726.75	1230.31	1699694.86	568182.49	40°03'18.1171"N	80°34'22.0325"W	1428.93	59.430	0.12
4479.00	35.790	66.690	4079.99	-194.27	747.63	1278.56	1699743.11	568203.38	40°03'18.3293"N	80°34'21.4153"W	1481.11	59.683	0.16
4569.00	35.750	66.490	4153.01	-194.85	768.54	1326.84	1699791.38	568224.28	40°03'18.5415"N	80°34'20.7978"W	1533.34	59.920	0.14
4662.00	35.840	66.710	4228.44	-195.43	790.14	1376.76	1699841.30	568245.88	40°03'18.7609"N	80°34'20.1592"W	1587.38	60.148	0.17
4752.00	35.800	66.460	4301.42	-196.02	811.07	1425.09	1699889.63	568266.81	40°03'18.9734"N	80°34'19.5409"W	1639.73	60.354	0.17
4844.00	35.720	66.650	4376.08	-196.64	832.46	1474.42	1699938.96	568288.20	40°03'19.1906"N	80°34'18.9099"W	1693.19	60.551	0.15
4934.00	35.750	66.690	4449.13	-197.15	853.28	1522.68	1699987.22	568309.02	40°03'19.4020"N	80°34'18.2924"W	1745.46	60.735	0.04
5024.00	35.770	66.700	4522.16	-197.63	874.09	1570.99	1700035.53	568329.83	40°03'19.6133"N	80°34'17.6745"W	1797.78	60.909	0.02
5115.00	35.740	66.670	4596.01	-198.12	895.13	1619.82	1700084.35	568350.87	40°03'19.8270"N	80°34'17.0498"W	1850.69	61.074	0.04

WELLPATH DATA (260 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]
5205.00	35.700	66.550	4669.08	-198.68	915.99	1668.05	1700132.58	568371.73	40°03'20.0388"N	80°34'16.4329"W	1903.00	61.227	0.09

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5296.00	35.700	66.450	4742.98	-199.35	937.16	1716.74	1700181.28	568392.90	40°03'20.2538"N	80°34'15.8099"W	1955.88	61.370	0.06
5386.00	35.780	66.600	4816.03	-199.99	958.11	1764.96	1700229.49	568413.84	40°03'20.4664"N	80°34'15.1931"W	2008.25	61.505	0.13
5477.00	34.860	66.320	4890.28	-200.69	979.12	1813.19	1700277.72	568434.85	40°03'20.6797"N	80°34'14.5761"W	2060.67	61.631	1.03
5567.00	35.750	66.740	4963.73	-201.31	999.83	1860.91	1700325.43	568455.57	40°03'20.8900"N	80°34'13.9658"W	2112.49	61.752	1.03
5659.00	35.750	66.560	5038.39	-201.84	1021.13	1910.25	1700374.78	568476.87	40°03'21.1063"N	80°34'13.3345"W	2166.05	61.873	0.11
5750.00	35.790	66.550	5112.23	-202.46	1042.30	1959.05	1700423.58	568498.03	40°03'21.3212"N	80°34'12.7102"W	2219.07	61.985	0.04
5841.00	35.800	66.690	5186.04	-203.02	1063.42	2007.91	1700472.43	568519.15	40°03'21.5357"N	80°34'12.0852"W	2272.13	62.094	0.09
5932.00	35.750	66.660	5259.87	-203.53	1084.48	2056.76	1700521.28	568540.22	40°03'21.7496"N	80°34'11.4603"W	2325.16	62.198	0.06
6023.00	35.750	66.550	5333.72	-204.10	1105.59	2105.56	1700570.08	568561.33	40°03'21.9639"N	80°34'10.8360"W	2378.17	62.297	0.07
6113.00	35.710	66.590	5406.78	-204.69	1126.49	2153.78	1700618.30	568582.22	40°03'22.1761"N	80°34'10.2191"W	2430.59	62.389	0.05
6214.00	35.680	66.690	5488.81	-205.29	1149.86	2207.88	1700672.40	568605.59	40°03'22.4134"N	80°34'9.5270"W	2489.36	62.490	0.06
6310.00	35.790	66.570	5566.74	-205.87	1172.10	2259.35	1700723.86	568627.83	40°03'22.6392"N	80°34'8.8686"W	2545.28	62.581	0.14
6406.00	35.740	66.430	5644.63	-206.57	1194.47	2310.80	1700775.32	568650.20	40°03'22.8663"N	80°34'8.2104"W	2601.26	62.665	0.10
6503.00	35.590	66.630	5723.44	-207.25	1216.99	2362.68	1700827.19	568672.72	40°03'23.0950"N	80°34'7.5468"W	2657.69	62.747	0.20
6599.00	35.540	66.470	5801.53	-207.91	1239.21	2413.90	1700878.41	568694.94	40°03'23.3206"N	80°34'6.8915"W	2713.41	62.826	0.11
6696.00	35.480	66.750	5880.49	-208.51	1261.58	2465.62	1700930.12	568717.31	40°03'23.5477"N	80°34'6.2299"W	2769.63	62.903	0.18
6792.00	35.800	66.650	5958.51	-209.01	1283.71	2516.99	1700981.50	568739.43	40°03'23.7724"N	80°34'5.5727"W	2825.45	62.978	0.34
6889.00	35.930	71.490	6037.13	-207.18	1303.99	2570.04	1701034.54	568759.72	40°03'23.9791"N	80°34'4.8937"W	2881.92	63.098	2.93
6986.00	38.510	87.370	6114.55	-194.62	1314.44	2627.33	1701091.84	568770.16	40°03'24.0890"N	80°34'4.1585"W	2937.79	63.421	10.23
7082.00	40.000	96.800	6188.95	-169.07	1312.15	2687.88	1701152.38	568767.88	40°03'24.0736"N	80°34'3.3795"W	2991.07	63.980	6.40
7179.00	44.280	106.180	6260.93	-132.34	1299.01	2751.45	1701215.95	568754.73	40°03'23.9511"N	80°34'2.5601"W	3042.68	64.727	7.84
7275.00	48.930	114.730	6326.93	-84.51	1274.49	2816.61	1701281.10	568730.22	40°03'23.7165"N	80°34'1.7185"W	3091.54	65.654	8.08
7372.00	54.910	120.420	6386.76	-25.69	1239.05	2884.14	1701348.63	568694.78	40°03'23.3742"N	80°34'0.8447"W	3139.03	66.751	7.70
7468.00	61.350	130.930	6437.53	43.74	1191.42	2950.03	1701414.52	568647.15	40°03'22.9113"N	80°33'59.9901"W	3181.54	68.008	11.45
7565.00	67.150	136.570	6479.68	123.85	1130.99	3013.01	1701477.50	568586.72	40°03'22.3215"N	80°33'59.1711"W	3218.28	69.425	7.95
7662.00	73.970	143.260	6511.97	211.10	1061.03	3071.75	1701536.23	568516.76	40°03'21.6370"N	80°33'58.4051"W	3249.83	70.944	9.57
7757.00	80.510	148.480	6532.96	301.87	984.37	3123.64	1701588.12	568440.11	40°03'20.8856"N	80°33'57.7261"W	3275.07	72.508	8.72
7853.00	87.170	154.370	6543.26	396.73	900.62	3169.22	1701633.70	568356.36	40°03'20.0634"N	80°33'57.1272"W	3294.70	74.136	9.24
7949.00	89.200	155.200	6546.30	492.59	813.82	3210.09	1701674.57	568269.56	40°03'19.2104"N	80°33'56.5884"W	3311.64	75.774	2.28

WELLPATH DATA (260 stations)

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8045.00	89.010	154.830	6647.80	588.51	726.81	3250.64	1701715.12	568182.56	40°03'18.3554"N	80°33'56.0538"W	3330.90	77.397	0.43

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Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

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Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

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8141.00	89.110	155.110	6549.38	684.42	639.84	3291.25	1701755.73	568095.59	40°03'17.5007"N	80°33'55.5183"W	3352.86	78.999	0.31
8237.00	88.710	155.240	6551.20	780.34	552.73	3331.54	1701796.02	568008.48	40°03'16.6446"N	80°33'54.9868"W	3377.08	80.580	0.44
8332.00	88.920	155.370	6553.17	875.27	466.43	3371.23	1701835.70	567922.19	40°03'15.7966"N	80°33'54.4634"W	3403.34	82.123	0.26
8429.00	89.010	155.190	6554.92	972.20	378.34	3411.78	1701876.26	567834.09	40°03'14.9308"N	80°33'53.9285"W	3432.70	83.672	0.21
8524.00	89.110	155.530	6556.48	1067.13	292.00	3451.38	1701915.86	567747.76	40°03'14.0822"N	80°33'53.4061"W	3463.71	85.164	0.37
8620.00	89.380	155.580	6557.74	1163.08	204.61	3491.11	1701955.58	567660.37	40°03'13.2233"N	80°33'52.8820"W	3497.10	86.646	0.29
8716.00	88.890	155.030	6559.19	1259.02	117.40	3531.21	1701995.68	567573.17	40°03'12.3663"N	80°33'52.3531"W	3533.16	88.096	0.77
8812.00	89.350	155.840	6560.67	1354.96	30.10	3571.12	1702035.59	567485.87	40°03'11.5083"N	80°33'51.8267"W	3571.24	89.517	0.97
8908.00	88.860	154.860	6562.17	1450.90	-57.14	3611.15	1702075.62	567398.63	40°03'10.6509"N	80°33'51.2986"W	3611.60	90.907	1.14
9004.00	88.770	154.940	6564.15	1546.80	-144.05	3651.86	1702116.33	567311.72	40°03'9.7968"N	80°33'50.7619"W	3654.70	92.259	0.13
9101.00	89.050	156.150	6566.00	1643.74	-232.33	3692.01	1702156.48	567223.44	40°03'8.9291"N	80°33'50.2322"W	3699.31	93.601	1.28
9197.00	88.830	154.530	6567.77	1739.66	-319.56	3732.06	1702196.52	567136.22	40°03'8.0718"N	80°33'49.7040"W	3745.71	94.894	1.70
9294.00	88.830	154.920	6569.76	1836.55	-407.26	3773.46	1702237.93	567048.53	40°03'7.2101"N	80°33'49.1582"W	3795.38	96.160	0.40
9390.00	88.740	154.860	6571.79	1932.45	-494.16	3814.19	1702278.66	566961.62	40°03'6.3561"N	80°33'48.6213"W	3846.07	97.382	0.11
9486.00	88.890	155.050	6573.78	2028.36	-581.12	3854.82	1702319.28	566874.67	40°03'5.5016"N	80°33'48.0856"W	3898.38	98.573	0.25
9582.00	88.890	154.730	6575.64	2124.26	-668.03	3895.55	1702360.01	566787.76	40°03'4.6475"N	80°33'47.5487"W	3952.42	99.731	0.33
9677.00	89.170	155.350	6577.24	2219.17	-754.15	3935.64	1702400.10	566701.65	40°03'3.8012"N	80°33'47.0202"W	4007.24	100.848	0.72
9773.00	88.740	154.910	6578.99	2315.09	-841.23	3976.00	1702440.46	566614.57	40°03'2.9454"N	80°33'46.4879"W	4064.02	101.946	0.64
9868.00	90.120	155.110	6579.94	2410.02	-927.33	4016.13	1702480.59	566528.47	40°03'2.0993"N	80°33'45.9588"W	4121.80	103.002	1.47
9965.00	90.060	155.640	6579.79	2506.97	-1015.51	4056.55	1702521.01	566440.30	40°03'1.2327"N	80°33'45.4257"W	4181.73	104.054	0.55
10060.00	89.350	155.090	6580.28	2601.91	-1101.86	4096.15	1702560.60	566353.95	40°03'0.3840"N	80°33'44.9034"W	4241.76	105.056	0.95
10155.00	90.680	155.120	6580.25	2696.85	-1188.03	4136.14	1702600.59	566267.78	40°02'59.5371"N	80°33'44.3761"W	4303.38	106.026	1.40
10250.00	89.200	155.220	6580.35	2791.78	-1274.24	4176.03	1702640.48	566181.57	40°02'58.6899"N	80°33'43.8501"W	4366.11	106.969	1.56
10347.00	89.290	154.500	6581.63	2888.69	-1362.05	4217.24	1702681.69	566093.77	40°02'57.8270"N	80°33'43.3070"W	4431.73	107.899	0.75
10443.00	85.250	155.410	6586.20	2984.49	-1448.90	4257.82	1702722.27	566006.92	40°02'56.9735"N	80°33'42.7719"W	4497.60	108.793	4.31
10539.00	88.920	154.640	6591.08	3080.28	-1535.80	4298.30	1702762.74	565920.03	40°02'56.1195"N	80°33'42.2383"W	4564.43	109.662	3.91
10635.00	89.940	154.740	6592.04	3176.18	-1622.58	4339.34	1702803.78	565833.25	40°02'55.2668"N	80°33'41.6975"W	4632.77	110.502	1.07
10731.00	90.090	154.910	6592.01	3272.09	-1709.46	4380.17	1702844.62	565746.37	40°02'54.4130"N	80°33'41.1592"W	4701.93	111.319	0.24
10827.00	90.090	154.640	6591.86	3368.00	-1796.30	4421.09	1702885.53	565659.53	40°02'53.5596"N	80°33'40.6200"W	4772.08	112.112	0.28

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10922.00	88.920	162.390	6592.68	3462.80	-1881.32	4463.45	1702927.89	565574.51	40°02'52.7244"N	80°33'40.0624"W	4843.73	112.855	2.67

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CHARLES FRYE OHI 410H AWP Proj: 24317'

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Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

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11018.00	89.750	150.730	6593.80	3558.32	-1965.73	4509.16	1702973.60	565490.11	40°02'51.8957"N	80°33'39.4618"W	4919.01	113.554	1.93
11113.00	89.720	154.950	6594.24	3653.02	-2050.23	4552.52	1703016.95	565405.61	40°02'51.0657"N	80°33'38.8916"W	4992.88	114.244	4.44
11209.00	89.050	154.670	6595.27	3748.93	-2137.10	4593.37	1703057.81	565318.74	40°02'50.2121"N	80°33'38.3531"W	5066.19	114.951	0.76
11305.00	88.920	154.850	6596.97	3844.82	-2223.92	4634.30	1703098.74	565231.93	40°02'49.3589"N	80°33'37.8136"W	5140.29	115.636	0.23
11401.00	90.680	155.140	6597.30	3940.75	-2310.92	4674.88	1703139.31	565144.93	40°02'48.5040"N	80°33'37.2787"W	5214.87	116.304	1.86
11497.00	88.830	154.330	6597.71	4036.65	-2397.73	4715.85	1703180.28	565058.12	40°02'47.6509"N	80°33'36.7388"W	5290.40	116.951	2.10
11592.00	88.830	154.770	6599.65	4131.53	-2483.49	4756.67	1703221.10	564972.36	40°02'46.8082"N	80°33'36.2010"W	5365.97	117.569	0.46
11688.00	88.830	155.180	6601.61	4227.43	-2570.46	4797.27	1703261.70	564885.40	40°02'45.9535"N	80°33'35.6658"W	5442.52	118.183	0.43
11784.00	89.320	154.660	6603.16	4323.34	-2657.40	4837.95	1703302.38	564798.46	40°02'45.0991"N	80°33'35.1295"W	5519.74	118.779	0.74
11879.00	89.200	154.920	6604.39	4418.25	-2743.34	4878.41	1703342.84	564712.52	40°02'44.2546"N	80°33'34.5963"W	5596.86	119.351	0.30
11974.00	88.740	154.640	6606.10	4513.15	-2829.27	4918.89	1703383.31	564626.59	40°02'43.4102"N	80°33'34.0629"W	5674.52	119.907	0.57
12070.00	88.800	155.010	6608.16	4609.04	-2916.13	4959.71	1703424.14	564539.73	40°02'42.5566"N	80°33'33.5248"W	5753.49	120.454	0.39
12165.00	88.860	154.950	6610.10	4703.95	-3002.20	4999.88	1703464.31	564453.67	40°02'41.7108"N	80°33'32.9953"W	5831.99	120.983	0.09
12261.00	88.980	155.130	6611.91	4799.86	-3089.22	5040.39	1703504.81	564366.66	40°02'40.8556"N	80°33'32.4614"W	5911.75	121.504	0.23
12356.00	89.110	155.660	6613.49	4894.80	-3175.58	5079.94	1703544.36	564280.30	40°02'40.0068"N	80°33'31.9398"W	5990.83	122.010	0.57
12451.00	88.800	154.930	6615.22	4989.73	-3261.87	5119.63	1703584.05	564194.01	40°02'39.1587"N	80°33'31.4163"W	6070.46	122.502	0.83
12547.00	88.890	154.600	6617.16	5085.62	-3348.69	5160.55	1703624.97	564107.19	40°02'38.3055"N	80°33'30.8771"W	6151.83	122.980	0.36
12642.00	88.740	154.930	6619.12	5180.51	-3434.61	5201.05	1703665.46	564021.28	40°02'37.4613"N	80°33'30.3435"W	6232.77	123.440	0.38
12738.00	89.820	157.750	6620.33	5276.48	-3522.52	5239.56	1703703.98	563933.37	40°02'36.5970"N	80°33'29.8349"W	6313.57	123.913	3.15
12833.00	88.800	154.860	6621.47	5371.45	-3609.49	5277.73	1703742.15	563846.40	40°02'35.7420"N	80°33'29.3310"W	6393.98	124.369	3.23
12929.00	88.800	154.140	6623.48	5467.32	-3696.12	5319.05	1703783.47	563759.77	40°02'34.8908"N	80°33'28.7867"W	6477.16	124.795	0.75
13024.00	88.950	155.170	6625.35	5562.21	-3781.96	5359.71	1703824.12	563673.94	40°02'34.0473"N	80°33'28.2510"W	6559.71	125.208	1.10
13121.00	90.520	155.540	6625.80	5659.15	-3870.12	5400.16	1703864.57	563585.78	40°02'33.1808"N	80°33'27.7176"W	6643.76	125.628	1.66
13217.00	88.860	155.020	6626.32	5755.09	-3957.32	5440.30	1703904.71	563498.58	40°02'32.3238"N	80°33'27.1883"W	6727.35	126.032	1.81
13313.00	89.630	154.830	6627.58	5851.01	-4044.26	5480.98	1703945.39	563411.64	40°02'31.4694"N	80°33'26.6522"W	6811.55	126.423	0.83
13409.00	87.230	154.560	6630.21	5946.87	-4131.01	5522.00	1703986.40	563324.90	40°02'30.6169"N	80°33'26.1117"W	6896.21	126.800	2.52
13504.00	87.380	154.990	6634.68	6041.68	-4216.86	5562.44	1704026.84	563239.05	40°02'29.7733"N	80°33'25.5788"W	6980.16	127.166	0.48
13600.00	88.770	154.490	6637.90	6137.53	-4303.63	5603.38	1704067.78	563152.29	40°02'28.9206"N	80°33'25.0393"W	7065.35	127.526	1.54
13696.00	88.860	154.870	6639.89	6233.42	-4390.39	5644.43	1704108.83	563065.53	40°02'28.0681"N	80°33'24.4985"W	7150.88	127.877	0.41

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18792.00	89.450	153.760	6641.61	6829.28	-4476.89	6686.03	1704150.43	562979.08	40°02'27.2181"N	80°33'23.9506"W	7236.95	126.215	1.31

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13888.00	88.740	152.920	6642.82	6425.05	-4562.67	5729.10	1704193.50	562893.25	40°02'26.3754"N	80°33'23.3839"W	7323.97	128.534	1.15
13984.00	88.890	153.780	6644.81	6520.81	-4648.45	5772.15	1704236.55	562807.47	40°02'25.5328"N	80°33'22.8175"W	7411.20	128.845	0.91
14080.00	89.230	153.680	6646.38	6616.62	-4734.53	5814.64	1704279.03	562721.40	40°02'24.6871"N	80°33'22.2583"W	7498.38	129.154	0.37
14177.00	88.920	153.750	6647.95	6713.42	-4821.49	5857.59	1704321.98	562634.45	40°02'23.8328"N	80°33'21.6930"W	7586.70	129.458	0.33
14273.00	88.770	153.200	6649.88	6809.20	-4907.36	5900.45	1704364.84	562548.57	40°02'22.9892"N	80°33'21.1290"W	7674.47	129.750	0.59
14369.00	89.080	154.190	6651.68	6905.00	-4993.41	5942.98	1704407.37	562462.53	40°02'22.1439"N	80°33'20.5691"W	7762.29	130.038	1.08
14464.00	88.980	154.160	6653.29	6999.85	-5078.91	5984.36	1704448.75	562377.03	40°02'21.3038"N	80°33'20.0243"W	7849.07	130.321	0.11
14559.00	88.920	150.990	6655.03	7094.51	-5163.20	6028.10	1704492.49	562292.74	40°02'20.4758"N	80°33'19.4492"W	7937.05	130.581	3.34
14655.00	89.080	154.800	6656.71	7190.20	-5248.63	6071.83	1704536.22	562207.31	40°02'19.6367"N	80°33'18.8742"W	8025.91	130.841	3.97
14750.00	88.950	153.760	6658.34	7285.06	-5334.21	6113.05	1704577.44	562121.74	40°02'18.7959"N	80°33'18.3313"W	8113.15	131.108	1.10
14846.00	88.800	153.830	6660.23	7380.87	-5420.32	6155.43	1704619.82	562035.63	40°02'17.9498"N	80°33'17.7735"W	8201.78	131.366	0.17
14941.00	89.050	153.990	6662.01	7475.70	-5505.63	6197.21	1704661.59	561950.33	40°02'17.1117"N	80°33'17.2236"W	8289.59	131.618	0.31
15037.00	89.290	153.880	6663.40	7571.53	-5591.85	6239.38	1704703.76	561864.10	40°02'16.2645"N	80°33'16.6684"W	8378.47	131.867	0.28
15132.00	89.260	154.790	6664.60	7666.40	-5677.47	6280.52	1704744.90	561778.49	40°02'15.4232"N	80°33'16.1265"W	8466.33	132.113	0.96
15229.00	88.800	152.550	6666.24	7763.20	-5764.39	6323.54	1704787.92	561691.57	40°02'14.5693"N	80°33'15.5605"W	8556.60	132.352	2.36
15325.00	88.950	153.520	6668.13	7858.92	-5849.94	6367.06	1704831.44	561606.03	40°02'13.7290"N	80°33'14.9881"W	8646.46	132.576	1.02
15422.00	88.980	153.470	6669.88	7955.70	-5936.73	6410.34	1704874.72	561519.24	40°02'12.8764"N	80°33'14.4186"W	8737.12	132.803	0.06
15518.00	90.710	154.220	6670.14	8051.53	-6022.89	6452.66	1704917.03	561433.08	40°02'12.0298"N	80°33'13.8616"W	8826.78	133.027	1.96
15614.00	90.430	153.850	6669.19	8147.37	-6109.20	6494.69	1704959.06	561346.77	40°02'11.1818"N	80°33'13.3083"W	8916.46	133.248	0.48
15710.00	89.630	153.910	6669.14	8243.21	-6195.40	6536.95	1705001.32	561260.58	40°02'10.3350"N	80°33'12.7520"W	9006.37	133.463	0.84
15805.00	89.260	153.490	6670.06	8338.03	-6280.56	6579.04	1705043.41	561175.42	40°02'9.4983"N	80°33'12.1981"W	9095.56	133.670	0.59
15901.00	89.230	153.290	6671.32	8433.80	-6366.38	6622.04	1705086.40	561089.60	40°02'8.6552"N	80°33'11.6324"W	9185.98	133.872	0.21
15998.00	89.510	153.860	6672.39	8530.60	-6453.24	6665.20	1705129.57	561002.75	40°02'7.8019"N	80°33'11.0644"W	9277.35	134.074	0.65
16094.00	89.020	153.620	6673.62	8626.42	-6539.33	6707.67	1705172.04	560916.66	40°02'6.9561"N	80°33'10.5055"W	9367.80	134.272	0.57
16189.00	88.490	150.470	6675.68	8720.99	-6623.21	6752.19	1705216.55	560832.78	40°02'6.1323"N	80°33'9.9206"W	9458.28	134.448	3.36
16285.00	88.250	153.250	6678.42	8816.53	-6707.82	6797.44	1705261.80	560748.17	40°02'5.3015"N	80°33'9.3261"W	9549.87	134.620	2.91
16380.00	88.620	153.100	6681.01	8911.25	-6792.57	6840.30	1705304.66	560663.43	40°02'4.4690"N	80°33'8.7624"W	9639.95	134.799	0.42
16476.00	89.020	154.950	6682.99	9007.08	-6878.85	6882.33	1705346.69	560577.16	40°02'3.6213"N	80°33'8.2091"W	9730.62	134.985	1.97
16572.00	89.350	155.740	6684.35	9103.02	-6966.08	6922.37	1705386.73	560489.92	40°02'2.7638"N	80°33'7.6812"W	9820.67	135.180	0.89

WELLPATH DATA (260 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]
16667.00	89.200	164.950	6685.55	9197.96	-7052.42	6962.00	1705426.36	560403.59	40°02'1.9153"N	80°33'7.1588"W	9909.90	135.370	0.85

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Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	CHARLES FRYE OHI 410H
Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

WELLPATH DATA (260 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]
16762.00	89.170	154.590	6686.91	9292.86	-7138.34	7002.49	1705466.85	560317.66	40°02'1.0709"N	80°33'6.6254"W	9999.54	135.550	0.38
16857.00	89.080	154.760	6688.36	9387.76	-7224.20	7043.12	1705507.48	560231.81	40°02'0.2271"N	80°33'6.0902"W	10089.34	135.727	0.20
16953.00	89.110	154.860	6689.87	9483.66	-7311.06	7083.98	1705548.33	560144.95	40°01'59.3735"N	80°33'5.5519"W	10180.10	135.904	0.11
17048.00	88.950	154.940	6691.48	9578.57	-7397.08	7124.27	1705588.62	560058.94	40°01'58.5282"N	80°33'5.0210"W	10269.96	136.076	0.19
17143.00	89.230	154.780	6692.99	9673.48	-7483.07	7164.62	1705628.97	559972.95	40°01'57.6831"N	80°33'4.4894"W	10359.93	136.245	0.34
17238.00	89.570	155.020	6693.98	9768.39	-7569.10	7204.92	1705669.27	559886.93	40°01'56.8377"N	80°33'3.9584"W	10449.98	136.412	0.44
17334.00	89.140	154.670	6695.07	9864.30	-7655.98	7245.72	1705710.07	559800.04	40°01'55.9838"N	80°33'3.4209"W	10541.09	136.577	0.58
17429.00	89.450	154.990	6696.23	9959.21	-7741.96	7286.12	1705750.47	559714.07	40°01'55.1389"N	80°33'2.8886"W	10631.35	136.737	0.47
17524.00	89.170	154.640	6697.38	10054.12	-7827.92	7326.55	1705790.89	559628.11	40°01'54.2941"N	80°33'2.3561"W	10721.69	136.895	0.47
17620.00	88.980	154.400	6698.93	10150.00	-7914.57	7367.84	1705832.18	559541.46	40°01'53.4426"N	80°33'1.8122"W	10813.21	137.049	0.32
17716.00	89.350	154.520	6700.33	10245.88	-8001.18	7409.23	1705873.57	559454.86	40°01'52.5915"N	80°33'1.2672"W	10904.84	137.200	0.41
17812.00	89.260	154.740	6701.49	10341.78	-8087.92	7450.36	1705914.70	559368.12	40°01'51.7392"N	80°33'0.7255"W	10996.46	137.350	0.25
17909.00	89.290	154.890	6702.72	10438.68	-8175.69	7491.63	1705955.97	559280.36	40°01'50.8766"N	80°33'0.1818"W	11089.02	137.500	0.16
18006.00	89.110	154.750	6704.07	10535.59	-8263.46	7532.90	1705997.23	559192.58	40°01'50.0140"N	80°32'59.6381"W	11181.65	137.648	0.24
18102.00	89.010	154.650	6705.65	10631.48	-8350.24	7573.92	1706038.25	559105.81	40°01'49.1612"N	80°32'59.0978"W	11273.45	137.791	0.15
18199.00	89.200	155.040	6707.16	10728.39	-8438.03	7615.14	1706079.48	559018.02	40°01'48.2984"N	80°32'58.5547"W	11366.21	137.934	0.45
18295.00	89.080	154.740	6708.60	10824.30	-8524.95	7655.88	1706120.21	558931.11	40°01'47.4442"N	80°32'58.0181"W	11458.06	138.074	0.34
18391.00	89.110	154.700	6710.12	10920.19	-8611.75	7696.87	1706161.20	558844.31	40°01'46.5913"N	80°32'57.4781"W	11550.06	138.211	0.05
18488.00	89.200	155.060	6711.55	11017.10	-8699.56	7738.04	1706202.37	558756.50	40°01'45.7282"N	80°32'56.9357"W	11643.01	138.348	0.38
18584.00	89.170	154.970	6712.92	11113.02	-8786.57	7778.59	1706242.92	558669.50	40°01'44.8731"N	80°32'56.4015"W	11735.00	138.482	0.10
18679.00	89.230	154.610	6714.24	11207.93	-8872.51	7819.05	1706283.37	558583.56	40°01'44.0285"N	80°32'55.8685"W	11826.20	138.611	0.38
18775.00	89.630	155.070	6715.20	11303.84	-8959.40	7859.86	1706324.18	558496.67	40°01'43.1746"N	80°32'55.3309"W	11918.40	138.740	0.63
18871.00	89.410	154.940	6716.00	11399.76	-9046.41	7900.42	1706364.75	558409.67	40°01'42.3195"N	80°32'54.7964"W	12010.58	138.869	0.27
18966.00	89.600	157.080	6716.82	11494.73	-9133.19	7939.04	1706403.37	558322.89	40°01'41.4664"N	80°32'54.2870"W	12101.39	139.001	2.26
19063.00	89.260	159.160	6717.79	11591.71	-9223.19	7975.19	1706439.51	558232.89	40°01'40.5812"N	80°32'53.8089"W	12193.07	139.150	2.17
19159.00	88.980	161.090	6719.26	11687.57	-9313.46	8007.82	1706472.14	558142.62	40°01'39.6929"N	80°32'53.3759"W	12282.74	139.311	2.03
19255.00	89.510	163.400	6720.53	11783.19	-9404.87	8037.09	1706501.41	558051.21	40°01'38.7930"N	80°32'52.9860"W	12371.19	139.484	2.47
19352.00	89.480	163.880	6721.38	11879.58	-9497.94	8064.41	1706528.73	557958.15	40°01'37.8764"N	80°32'52.6209"W	12459.76	139.666	0.50
19448.00	89.020	163.120	6722.64	11974.99	-9589.98	8091.67	1706555.99	557866.11	40°01'36.9701"N	80°32'52.2566"W	12547.62	139.844	0.93

WELLPATH DATA (260 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]
19545.00	89.450	163.360	6723.93	12071.45	-9682.85	8119.64	1706583.96	557773.24	40°01'36.0556"N	80°32'51.8882"W	12686.70	140.018	0.51

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Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	CHARLES FRYE OHI 410H
Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

WELLPATH DATA (260 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]
19641.00	89.290	163.450	6724.99	12166.88	-9774.85	8147.06	1706611.37	557681.25	40°01'35.1497"N	80°32'51.5170"W	12724.86	140.190	0.19
19737.00	89.450	163.230	6726.05	12262.33	-9866.81	8174.58	1706638.89	557589.29	40°01'34.2440"N	80°32'51.1495"W	12813.18	140.359	0.28
19833.00	89.880	163.530	6726.61	12357.77	-9958.80	8202.04	1706666.35	557497.30	40°01'33.3382"N	80°32'50.7828"W	12901.59	140.525	0.55
19930.00	89.170	163.460	6727.41	12454.19	-10051.80	8229.59	1706693.91	557404.31	40°01'32.4224"N	80°32'50.4147"W	12990.95	140.692	0.74
20026.00	89.260	162.070	6728.73	12549.73	-10143.48	8258.03	1706722.35	557312.63	40°01'31.5197"N	80°32'50.0354"W	13079.95	140.850	1.45
20121.00	89.200	162.840	6730.00	12644.32	-10234.05	8286.67	1706750.98	557222.06	40°01'30.6280"N	80°32'49.6538"W	13168.32	141.002	0.81
20218.00	89.200	162.970	6731.36	12740.84	-10326.75	8315.18	1706779.49	557129.36	40°01'29.7152"N	80°32'49.2734"W	13258.36	141.159	0.13
20315.00	89.230	162.980	6732.69	12837.34	-10419.49	8343.58	1706807.89	557036.62	40°01'28.8020"N	80°32'48.8945"W	13348.45	141.313	0.03
20411.00	90.180	164.410	6733.18	12932.72	-10511.63	8370.53	1706834.84	556944.49	40°01'27.8947"N	80°32'48.5343"W	13437.26	141.469	1.79
20507.00	89.570	163.610	6733.39	13028.05	-10603.91	8396.97	1706861.28	556852.21	40°01'26.9858"N	80°32'48.1806"W	13525.98	141.625	1.05
20604.00	91.350	164.780	6732.61	13124.32	-10697.24	8423.39	1706887.70	556758.89	40°01'26.0666"N	80°32'47.8271"W	13615.59	141.782	2.20
20700.00	90.180	164.130	6731.33	13219.54	-10789.72	8449.11	1706913.42	556666.42	40°01'25.1557"N	80°32'47.4826"W	13704.21	141.937	1.39
20797.00	90.550	164.910	6730.71	13315.76	-10883.19	8475.00	1706939.31	556572.94	40°01'24.2349"N	80°32'47.1359"W	13793.82	142.091	0.89
20893.00	89.600	163.170	6730.59	13411.07	-10975.49	8501.40	1706965.70	556480.65	40°01'23.3259"N	80°32'46.7828"W	13882.91	142.239	2.07
20989.00	89.480	163.160	6731.36	13506.55	-11067.37	8529.20	1706993.50	556388.77	40°01'22.4212"N	80°32'46.4117"W	13972.61	142.380	0.13
21085.00	89.350	163.270	6732.34	13602.02	-11159.28	8556.92	1707021.22	556296.87	40°01'21.5162"N	80°32'46.0416"W	14062.37	142.519	0.18
21181.00	89.140	162.920	6733.60	13697.51	-11251.12	8584.83	1707049.14	556205.03	40°01'20.6118"N	80°32'45.6691"W	14152.28	142.656	0.43
21277.00	90.150	163.060	6734.20	13793.02	-11342.92	8612.92	1707077.22	556113.23	40°01'19.7079"N	80°32'45.2945"W	14242.34	142.790	1.06
21373.00	89.380	163.100	6734.59	13888.52	-11434.76	8640.86	1707105.16	556021.39	40°01'18.8035"N	80°32'44.9216"W	14332.42	142.923	0.80
21470.00	89.420	163.240	6735.61	13984.99	-11527.60	8668.94	1707133.24	555928.56	40°01'17.8893"N	80°32'44.5468"W	14423.46	143.056	0.15
21565.00	89.290	163.190	6736.68	14079.46	-11618.55	8696.37	1707160.67	555837.61	40°01'16.9938"N	80°32'44.1806"W	14512.67	143.185	0.15
21662.00	89.510	163.480	6737.69	14175.91	-11711.47	8724.19	1707188.49	555744.69	40°01'16.0787"N	80°32'43.8092"W	14603.76	143.317	0.38
21759.00	89.510	163.290	6738.52	14272.34	-11804.41	8751.92	1707216.22	555651.75	40°01'15.1635"N	80°32'43.4389"W	14694.91	143.446	0.20
21854.00	89.480	163.590	6739.36	14366.78	-11895.47	8779.00	1707243.29	555560.70	40°01'14.2668"N	80°32'43.0773"W	14784.22	143.572	0.32
21951.00	89.110	163.160	6740.55	14463.21	-11988.41	8806.75	1707271.04	555467.76	40°01'13.3516"N	80°32'42.7067"W	14875.51	143.699	0.58
22047.00	89.320	163.140	6741.87	14558.69	-12080.28	8834.57	1707298.87	555375.90	40°01'12.4469"N	80°32'42.3354"W	14966.05	143.821	0.22
22144.00	89.230	163.560	6743.09	14655.13	-12173.20	8862.36	1707326.66	555282.97	40°01'11.5318"N	80°32'41.9643"W	15057.50	143.945	0.44
22241.00	89.260	163.020	6744.37	14751.57	-12266.10	8890.25	1707354.54	555190.08	40°01'10.6171"N	80°32'41.5920"W	15149.05	144.066	0.56
22337.00	89.260	163.220	6745.61	14847.06	-12357.96	8918.12	1707382.42	555098.23	40°01'9.7126"N	80°32'41.2200"W	15239.82	144.184	0.21

WELLPATH DATA (260 stations)

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22434.00	89.200	163.280	6746.92	14948.51	-12450.83	8946.08	1707410.37	555005.36	40°01'8.7980"N	80°32'40.8469"W	15331.52	144.302	0.09

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Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

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Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

WELLPATH DATA (260 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]
22530.00	89.630	163.430	6747.90	15038.96	-12542.80	8973.57	1707437.86	554913.39	40°01'7.8923"N	80°32'40.4798"W	15422.29	144.419	0.47
22626.00	89.630	163.110	6748.52	15134.42	-12634.74	9001.21	1707465.50	554821.46	40°01'6.9870"N	80°32'40.1109"W	15513.17	144.533	0.33
22723.00	89.820	163.310	6748.98	15230.89	-12727.60	9029.23	1707493.51	554728.60	40°01'6.0725"N	80°32'39.7369"W	15605.09	144.647	0.28
22819.00	89.720	162.680	6749.37	15326.40	-12819.40	9057.30	1707521.59	554636.80	40°01'5.1686"N	80°32'39.3623"W	15696.24	144.758	0.66
22916.00	89.690	163.050	6749.87	15422.93	-12912.10	9085.88	1707550.17	554544.11	40°01'4.2559"N	80°32'38.9812"W	15788.46	144.867	0.38
23012.00	89.630	163.050	6750.44	15518.43	-13003.92	9113.87	1707578.15	554452.28	40°01'3.3517"N	80°32'38.6078"W	15879.69	144.975	0.06
23109.00	89.630	163.260	6751.06	15614.91	-13096.76	9141.98	1707606.26	554359.45	40°01'2.4375"N	80°32'38.2327"W	15971.88	145.084	0.22
23205.00	89.660	162.890	6751.66	15710.41	-13188.60	9169.92	1707634.21	554267.61	40°01'1.5332"N	80°32'37.8598"W	16063.21	145.189	0.39
23302.00	89.660	163.110	6752.23	15806.91	-13281.36	9198.28	1707662.56	554174.86	40°01'0.6198"N	80°32'37.4815"W	16155.59	145.295	0.23
23399.00	89.600	163.280	6752.86	15903.38	-13374.22	9226.33	1707690.61	554082.00	40°00'59.7054"N	80°32'37.1072"W	16247.92	145.400	0.19
23495.00	89.600	163.090	6753.53	15998.86	-13466.11	9254.10	1707718.38	553990.11	40°00'58.8006"N	80°32'36.7366"W	16339.35	145.503	0.20
23592.00	89.600	162.830	6754.21	16095.37	-13558.85	9282.52	1707746.80	553897.38	40°00'57.8874"N	80°32'36.3575"W	16431.91	145.604	0.27
23689.00	89.660	163.190	6754.83	16191.87	-13651.61	9310.86	1707775.14	553804.61	40°00'56.9740"N	80°32'35.9794"W	16524.49	145.705	0.38
23785.00	89.630	163.120	6755.43	16287.36	-13743.49	9338.68	1707802.96	553712.74	40°00'56.0692"N	80°32'35.6082"W	16616.09	145.804	0.08
23882.00	89.510	163.360	6756.16	16383.82	-13836.37	9366.65	1707830.93	553619.87	40°00'55.1546"N	80°32'35.2348"W	16708.66	145.904	0.28
23978.00	89.540	163.060	6756.95	16479.29	-13928.27	9394.38	1707858.66	553527.96	40°00'54.2496"N	80°32'34.8648"W	16800.33	146.001	0.31
24075.00	89.660	163.080	6757.63	16575.78	-14021.07	9422.63	1707886.90	553435.17	40°00'53.3359"N	80°32'34.4879"W	16893.08	146.098	0.13
24171.00	89.570	163.110	6758.27	16671.28	-14112.92	9450.54	1707914.82	553343.33	40°00'52.4314"N	80°32'34.1155"W	16984.91	146.192	0.10
24267.00	89.720	163.150	6758.87	16766.77	-14204.78	9478.40	1707942.68	553251.46	40°00'51.5268"N	80°32'33.7438"W	17076.77	146.286	0.16
24317.00‡	89.720	163.150	6759.11	16816.50	-14252.64	9492.90	1707957.17	553203.61	40°00'51.0556"N	80°32'33.5504"W	17124.62	146.335	0.00

HOLE & CASING SECTIONS - Ref Wellbore: CHARLES FRYE OHI 410H AWB Ref Wellpath: CHARLES FRYE OHI 410H AWP Proj: 24317'

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]
13 3/8in Casing	26.00	706.00	680.00	26.00	705.99	0.00	0.00	-1.00	-0.59
9 5/8in Casing	26.00	2395.00	2369.00	26.00	2354.19	0.00	0.00	190.40	267.62
5 1/2in Casing	26.00	24317.00	24291.00	26.00	6759.11	0.00	0.00	-14252.64	9492.90

Actual Wellpath Report

CHARLES FRYE OHI 410H AWP Proj: 24317'

REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	CHARLES FRYE OHI 410H
Field	Ohio (NAD27 SP)	UWI	47-069-00378-00-00
Facility	Charles Frye OHI Pad	Wellbore	CHARLES FRYE OHI 410H AWB
Slot	410H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CHARLES FRYE OHI 410H LP rev 1	6531.00	897.41	3153.39	**1701617.88**	**568353.15**	40°03'20.0298"N	80°33'57.3302"W	point
CHARLES FRYE OHI 410H LP rev2	6535.00	897.41	3153.39	**1701617.88**	**568353.15**	40°03'20.0298"N	80°33'57.3302"W	point
CHARLES FRYE OHI 410H 1	6686.89	-9454.84	8045.53	**1706509.85**	**558001.24**	40°01'38.3002"N	80°32'52.8699"W	point
CHARLES FRYE OHI 410H BHL rev 1	6754.00	-14244.84	9510.57	**1707974.85**	**553211.41**	40°00'51.1347"N	80°32'33.3243"W	point

WELLPATH COMPOSITION - Ref Wellbore: CHARLES FRYE OHI 410H AWB Ref Wellpath: CHARLES FRYE OHI 410H AWP Proj: 24317'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	641.00	OWSG MWD rev2 + IFR2 + Axial Corr + Sag Correction [Floating Rig]	1 Total MWD IFR-MSA 17.5" 145' - 641'	CHARLES FRYE OHI 410H AWB	
641.00	2319.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Total MWD IFR-MSA 12.2.5" 714' - 2319'	CHARLES FRYE OHI 410H AWB	
2319.00	24317.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 BH MWD IFR-MSA 8.5" 2415' - 24267'	CHARLES FRYE OHI 410H AWB	

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