



Actual Wellpath Report

SHR-3B-HS AWP Proj: 15583'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gotfbral
Scale	0.999948	Report Generated	23/Apr/2015 at 11:23
Convergence at slot	0.85° West	Database/Source file	WANorthEast/SHR-3B-HS_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2.30	19.61	1623317.64	335741.14	39°24'50.880"N	80°49'59.780"W
Facility Reference Pt			1623298.03	335743.44	39°24'50.900"N	80°50'00.030"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

WELLPATH DATUM

Calculation method	Minimum curvature	Precision 542 (RKB) to Facility Vertical Datum	770.61ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	770.61ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot B)	18.50ft
MD Reference Pt	Precision 542 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.00°

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Facility	SHR-3 Pad		

WELLPATH DATA (175 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	58.080	0.00	0.00	0.00	0.00	1623317.64	335741.14	39°24'50.880"N	80°49'59.780"W	0.00	0.000	0.00
18.50	0.000	58.080	18.50	0.00	0.00	0.00	1623317.64	335741.14	39°24'50.880"N	80°49'59.780"W	0.00	0.000	0.00
118.50	0.430	58.080	118.50	-0.08	0.20	0.32	1623317.96	335741.34	39°24'50.882"N	80°49'59.776"W	0.38	58.080	0.43
218.50	0.220	73.220	218.50	-0.14	0.45	0.82	1623318.46	335741.59	39°24'50.885"N	80°49'59.769"W	0.94	61.147	0.23
318.50	0.430	34.280	318.50	-0.35	0.82	1.22	1623318.86	335741.96	39°24'50.888"N	80°49'59.765"W	1.47	56.080	0.29
418.50	0.600	19.290	418.49	-0.98	1.62	1.60	1623319.24	335742.76	39°24'50.896"N	80°49'59.760"W	2.28	44.614	0.22
518.50	0.560	26.420	518.49	-1.72	2.55	1.99	1623319.63	335743.69	39°24'50.906"N	80°49'59.755"W	3.24	37.936	0.08
618.50	0.380	88.460	618.48	-1.95	3.00	2.54	1623320.18	335744.14	39°24'50.910"N	80°49'59.748"W	3.93	40.246	0.51
718.50	0.160	157.890	718.48	-1.71	2.88	2.92	1623320.56	335744.02	39°24'50.909"N	80°49'59.743"W	4.10	45.432	0.36
818.50	0.120	195.830	818.48	-1.48	2.65	2.95	1623320.59	335743.70	39°24'50.907"N	80°49'59.743"W	3.96	48.046	0.10
918.50	0.100	105.400	918.48	-1.35	2.53	3.00	1623320.64	335743.67	39°24'50.905"N	80°49'59.742"W	3.92	49.934	0.16
1018.50	0.180	44.440	1018.48	-1.36	2.61	3.20	1623320.84	335743.75	39°24'50.906"N	80°49'59.740"W	4.13	50.723	0.16
1118.50	0.200	164.650	1118.48	-1.26	2.56	3.35	1623320.99	335743.70	39°24'50.906"N	80°49'59.738"W	4.22	52.657	0.33
1218.50	0.330	244.410	1218.48	-1.06	2.27	3.14	1623320.78	335743.41	39°24'50.903"N	80°49'59.740"W	3.87	54.183	0.35
1318.50	0.200	294.690	1318.48	-1.15	2.21	2.72	1623320.36	335743.35	39°24'50.902"N	80°49'59.746"W	3.51	50.866	0.25
1418.50	0.170	273.490	1418.48	-1.33	2.30	2.42	1623320.05	335743.44	39°24'50.903"N	80°49'59.750"W	3.33	46.441	0.07
1518.50	0.430	178.560	1518.48	-1.04	1.93	2.28	1623319.92	335743.07	39°24'50.899"N	80°49'59.751"W	2.98	49.702	0.48
1618.50	0.280	188.500	1618.48	-0.46	1.31	2.25	1623319.89	335742.45	39°24'50.893"N	80°49'59.751"W	2.61	59.719	0.16
1718.50	0.120	252.980	1718.48	-0.26	1.04	2.11	1623319.75	335742.18	39°24'50.891"N	80°49'59.753"W	2.36	63.771	0.25
1818.50	0.360	39.830	1818.48	-0.42	1.25	2.21	1623319.85	335742.39	39°24'50.893"N	80°49'59.752"W	2.54	60.520	0.47
1918.50	0.270	32.980	1918.47	-0.72	1.69	2.54	1623320.18	335742.83	39°24'50.897"N	80°49'59.748"W	3.05	56.391	0.10
2018.50	0.370	51.570	2018.47	-0.96	2.09	2.93	1623320.57	335743.23	39°24'50.901"N	80°49'59.743"W	3.59	54.466	0.14
2103.50	0.270	99.720	2103.47	-0.95	2.23	3.34	1623320.98	335743.37	39°24'50.903"N	80°49'59.738"W	4.01	56.300	0.33
2226.00	0.120	127.810	2225.97	-0.70	2.10	3.72	1623321.36	335743.24	39°24'50.901"N	80°49'59.733"W	4.27	60.594	0.14
2264.00	0.090	324.410	2263.97	-0.69	2.10	3.74	1623321.38	335743.24	39°24'50.901"N	80°49'59.733"W	4.29	60.688	0.55

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Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

WELLPATH DATA (175 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]
2353.00	2.500	339.650	2352.94	-2.70	3.98	3.02	1623320.66	335745.12	39°24'50.920"N	80°49'59.742"W	4.99	37.238	2.71
2443.00	4.160	340.960	2442.79	-7.93	8.90	1.27	1623318.91	335750.04	39°24'50.968"N	80°49'59.765"W	8.99	8.145	1.85
2533.00	7.240	339.820	2532.33	-16.87	17.31	-1.75	1623315.89	335758.45	39°24'51.051"N	80°49'59.805"W	17.40	354.235	3.42
2622.00	5.730	335.320	2620.76	-26.90	26.61	-5.54	1623312.10	335767.75	39°24'51.142"N	80°49'59.855"W	27.18	348.245	1.79
2712.00	4.370	2.750	2710.42	-34.54	34.12	-7.25	1623310.39	335775.26	39°24'51.216"N	80°49'59.879"W	34.88	348.005	3.04
2802.00	2.780	1.230	2800.24	-39.74	39.73	-7.04	1623310.60	335780.87	39°24'51.272"N	80°49'59.877"W	40.35	349.954	1.77
2891.00	4.420	9.510	2889.06	-44.74	45.27	-6.43	1623311.21	335786.41	39°24'51.327"N	80°49'59.870"W	45.72	351.922	1.93
2981.00	3.550	3.180	2978.85	-50.32	51.47	-5.70	1623311.94	335792.61	39°24'51.388"N	80°49'59.862"W	51.79	353.683	1.08
3071.00	1.130	350.550	3068.76	-53.75	55.13	-5.69	1623311.95	335796.27	39°24'51.424"N	80°49'59.863"W	55.42	354.109	2.73
3160.00	0.760	21.710	3157.75	-55.06	56.55	-5.61	1623312.03	335797.68	39°24'51.438"N	80°49'59.862"W	56.82	354.329	0.70
3250.00	0.400	316.130	3247.75	-55.79	57.33	-5.61	1623312.03	335798.46	39°24'51.446"N	80°49'59.862"W	57.60	354.409	0.77
3340.00	0.370	340.450	3337.75	-56.37	57.83	-5.93	1623311.71	335798.96	39°24'51.451"N	80°49'59.866"W	58.13	354.148	0.18
3429.00	1.020	75.410	3426.74	-56.58	58.30	-5.26	1623312.38	335799.43	39°24'51.455"N	80°49'59.858"W	58.53	354.848	1.25
3519.00	0.800	45.640	3516.73	-56.76	58.94	-4.03	1623313.61	335800.08	39°24'51.462"N	80°49'59.842"W	59.08	356.087	0.57
3608.00	0.550	84.760	3605.73	-56.91	59.41	-3.16	1623314.48	335800.55	39°24'51.467"N	80°49'59.831"W	59.50	356.953	0.57
3698.00	0.240	65.480	3695.72	-56.82	59.53	-2.56	1623315.08	335800.67	39°24'51.468"N	80°49'59.824"W	59.58	357.537	0.37
3787.00	0.260	98.970	3784.72	-56.73	59.58	-2.19	1623315.45	335800.71	39°24'51.468"N	80°49'59.819"W	59.62	357.893	0.16
3877.00	0.670	140.630	3874.72	-56.14	59.14	-1.66	1623315.98	335800.27	39°24'51.464"N	80°49'59.812"W	59.16	358.396	0.56
3966.00	0.410	127.770	3963.72	-55.38	58.54	-1.07	1623316.57	335799.68	39°24'51.458"N	80°49'59.805"W	58.55	358.949	0.32
4056.00	0.400	70.050	4053.71	-55.10	58.45	-0.52	1623317.12	335799.59	39°24'51.458"N	80°49'59.798"W	58.45	359.486	0.43
4145.00	0.370	69.440	4142.71	-55.11	58.66	0.04	1623317.68	335799.79	39°24'51.460"N	80°49'59.790"W	58.66	0.036	0.03
4235.00	0.390	14.800	4232.71	-55.36	59.05	0.39	1623318.03	335800.19	39°24'51.464"N	80°49'59.786"W	59.06	0.376	0.39
4325.00	0.110	34.900	4322.71	-55.66	59.42	0.51	1623318.15	335800.56	39°24'51.467"N	80°49'59.785"W	59.42	0.496	0.32
4414.00	0.550	274.160	4411.71	-55.89	59.52	0.14	1623317.78	335800.66	39°24'51.468"N	80°49'59.789"W	59.52	0.133	0.69
4504.00	0.320	301.770	4501.71	-56.26	59.69	-0.51	1623317.13	335800.82	39°24'51.470"N	80°49'59.798"W	59.69	359.513	0.34

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Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

WELLPATH DATA (175 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]
4593.00	0.520	255.210	4590.70	-56.49	59.71	-1.11	1623316.53	335800.85	39°24'51.470"N	80°49'59.805"W	59.72	358.936	0.43
4683.00	1.990	221.180	4680.68	-55.78	58.43	-2.53	1623315.11	335799.57	39°24'51.457"N	80°49'59.823"W	58.49	357.518	1.76
4772.00	6.310	244.770	4769.43	-54.58	55.18	-7.98	1623309.66	335796.32	39°24'51.424"N	80°49'59.892"W	55.76	351.775	5.12
4862.00	9.610	248.100	4858.55	-53.88	50.27	-19.42	1623298.22	335791.41	39°24'51.374"N	80°50'00.037"W	53.89	338.874	3.70
4952.00	12.660	261.730	4946.86	-55.64	46.05	-36.16	1623281.48	335787.19	39°24'51.330"N	80°50'00.249"W	58.55	321.359	4.45
5041.00	14.860	269.140	5033.31	-61.37	44.48	-57.23	1623260.41	335785.61	39°24'51.311"N	80°50'00.517"W	72.48	307.853	3.16
5141.00	13.800	266.240	5130.20	-68.91	43.50	-81.95	1623235.69	335784.64	39°24'51.298"N	80°50'00.832"W	92.78	297.960	1.28
5231.00	20.810	261.450	5216.07	-75.09	40.42	-108.51	1623209.14	335781.55	39°24'51.264"N	80°50'01.170"W	115.79	290.429	7.94
5321.00	24.530	256.030	5299.12	-80.23	33.53	-142.46	1623175.19	335774.66	39°24'51.190"N	80°50'01.601"W	146.35	283.243	4.74
5410.00	29.940	254.830	5378.22	-84.04	25.25	-181.86	1623135.79	335764.39	39°24'51.083"N	80°50'02.101"W	183.34	277.285	6.11
5500.00	31.220	254.650	5455.70	-87.82	11.19	-226.03	1623091.63	335752.33	39°24'50.958"N	80°50'02.661"W	226.30	272.835	1.43
5589.00	31.310	255.670	5531.78	-91.98	-0.64	-270.68	1623046.98	335740.50	39°24'50.834"N	80°50'03.228"W	270.68	269.866	0.60
5679.00	31.630	257.320	5608.54	-97.30	-11.60	-316.36	1623001.30	335729.54	39°24'50.719"N	80°50'03.808"W	316.57	267.899	1.02
5768.00	31.590	258.630	5684.34	-103.77	-21.32	-361.98	1622955.68	335719.82	39°24'50.616"N	80°50'04.387"W	362.61	266.629	0.77
5858.00	31.660	255.580	5760.98	-109.60	-31.85	-407.97	1622909.69	335709.29	39°24'50.505"N	80°50'04.971"W	409.21	265.536	1.78
5948.00	31.700	240.100	5837.69	-107.83	-49.55	-451.41	1622866.25	335691.59	39°24'50.324"N	80°50'05.521"W	454.13	263.736	9.01
6038.00	33.240	222.700	5913.79	-92.42	-79.53	-488.73	1622828.94	335661.61	39°24'50.022"N	80°50'05.991"W	495.16	260.757	10.49
6128.00	35.940	208.170	5988.00	-63.43	-121.02	-517.98	1622799.69	335620.12	39°24'49.608"N	80°50'06.356"W	531.93	256.849	9.62
6217.00	39.150	198.230	6058.62	-23.90	-170.79	-539.12	1622778.55	335570.36	39°24'49.113"N	80°50'06.616"W	565.53	252.422	7.69
6307.00	46.800	190.930	6124.46	26.67	-230.11	-554.26	1622763.41	335511.04	39°24'48.525"N	80°50'06.797"W	600.13	247.453	10.13
6396.00	53.300	185.920	6181.60	86.67	-297.55	-564.11	1622753.56	335443.61	39°24'47.857"N	80°50'06.910"W	637.77	242.190	8.48
6486.00	59.220	180.970	6231.59	155.31	-372.19	-568.49	1622749.18	335368.97	39°24'47.118"N	80°50'06.952"W	679.49	236.787	8.01
6576.00	66.350	176.010	6272.75	231.17	-452.11	-566.27	1622751.40	335289.06	39°24'46.329"N	80°50'06.908"W	724.61	231.396	9.31
6665.00	72.890	171.920	6303.73	312.08	-535.00	-557.44	1622760.23	335206.17	39°24'45.511"N	80°50'06.780"W	772.64	226.177	8.52
6755.00	81.230	168.800	6323.37	398.28	-621.38	-542.73	1622774.94	335119.79	39°24'44.660"N	80°50'06.576"W	825.03	221.135	9.86

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6844.00	87.940	166.180	6332.27	486.07	-707.82	-523.54	1622794.13	335033.36	39°24'43.808"N	80°50'06.316"W	880.40	216.488	8.09
6934.00	89.910	160.740	6333.96	575.86	-794.05	-497.93	1622819.73	334947.14	39°24'42.960"N	80°50'05.973"W	937.26	212.091	6.43
7024.00	89.600	159.430	6334.34	665.85	-878.66	-467.28	1622850.39	334862.53	39°24'42.128"N	80°50'05.566"W	995.19	208.004	1.50
7113.00	89.630	158.630	6334.94	754.84	-961.77	-435.43	1622882.24	334779.43	39°24'41.312"N	80°50'05.145"W	1055.74	204.358	0.90
7203.00	89.600	158.160	6335.55	844.80	-1045.44	-402.29	1622915.37	334695.76	39°24'40.490"N	80°50'04.707"W	1120.17	201.047	0.52
7292.00	89.170	157.630	6336.50	933.74	-1127.89	-368.80	1622948.86	334613.31	39°24'39.680"N	80°50'04.265"W	1186.66	198.107	0.77
7382.00	89.170	157.100	6337.81	1023.63	-1210.95	-334.17	1622983.49	334530.25	39°24'38.864"N	80°50'03.808"W	1256.21	195.427	0.59
7471.00	89.540	157.460	6338.81	1112.52	-1293.04	-299.80	1623017.86	334448.17	39°24'38.058"N	80°50'03.354"W	1327.34	193.054	0.58
7561.00	89.970	158.140	6339.19	1202.46	-1376.37	-265.79	1623051.86	334364.85	39°24'37.239"N	80°50'02.906"W	1401.80	190.930	0.89
7651.00	90.830	160.570	6338.56	1292.44	-1460.58	-234.06	1623083.59	334280.64	39°24'36.412"N	80°50'02.485"W	1479.21	189.104	2.86
7740.00	91.540	160.380	6336.72	1381.42	-1544.44	-204.32	1623113.33	334196.78	39°24'35.587"N	80°50'02.091"W	1557.90	187.536	0.83
7830.00	91.170	162.540	6334.60	1471.36	-1629.74	-175.72	1623141.93	334111.49	39°24'34.748"N	80°50'01.710"W	1639.19	186.154	2.43
7919.00	91.110	160.960	6332.82	1560.30	-1714.25	-147.85	1623169.80	334026.99	39°24'33.917"N	80°50'01.339"W	1720.61	184.929	1.78
8009.00	91.110	158.680	6331.08	1650.27	-1798.70	-116.81	1623200.83	333942.54	39°24'33.087"N	80°50'00.928"W	1802.49	183.716	2.53
8098.00	91.110	159.350	6329.36	1739.24	-1881.78	-84.94	1623232.70	333859.46	39°24'32.271"N	80°50'00.506"W	1883.70	182.585	0.75
8188.00	91.140	160.560	6327.59	1829.22	-1966.31	-54.10	1623263.54	333774.94	39°24'31.440"N	80°50'00.097"W	1967.05	181.576	1.34
8277.00	90.370	160.450	6326.42	1918.21	-2050.20	-24.40	1623293.24	333691.05	39°24'30.616"N	80°49'59.703"W	2050.35	180.682	0.87
8367.00	90.400	159.990	6325.81	2008.21	-2134.89	6.05	1623323.69	333606.37	39°24'29.783"N	80°49'59.299"W	2134.90	179.838	0.51
8456.00	90.460	160.580	6325.14	2097.20	-2218.67	36.07	1623353.71	333522.59	39°24'28.960"N	80°49'58.901"W	2218.96	179.068	0.67
8546.00	90.460	159.650	6324.42	2187.20	-2303.30	66.69	1623384.32	333437.97	39°24'28.128"N	80°49'58.495"W	2304.26	178.342	1.03
8635.00	90.000	158.890	6324.06	2276.19	-2386.54	98.19	1623415.82	333354.73	39°24'27.310"N	80°49'58.078"W	2388.55	177.644	1.00
8725.00	89.450	159.130	6324.50	2366.18	-2470.56	130.43	1623448.06	333270.71	39°24'26.484"N	80°49'57.651"W	2474.00	176.978	0.67
8814.00	88.920	160.030	6325.76	2455.16	-2553.96	161.47	1623479.10	333187.32	39°24'25.664"N	80°49'57.240"W	2559.06	176.382	1.17
8904.00	88.920	162.380	6327.46	2545.12	-2639.14	190.46	1623508.09	333102.14	39°24'24.827"N	80°49'56.855"W	2646.00	175.872	2.61
8993.00	88.860	162.310	6329.18	2634.03	-2723.93	217.45	1623535.08	333017.36	39°24'23.993"N	80°49'56.495"W	2732.60	175.436	0.10

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

WELLPATH DATA (175 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]
9083.00	88.520	160.810	6331.24	2723.97	-2809.29	245.91	1623563.54	332932.01	39°24'23.154"N	80°49'56.116"W	2820.03	174.997	1.71
9172.00	88.520	159.150	6333.54	2812.94	-2892.88	276.37	1623593.99	332848.42	39°24'22.332"N	80°49'55.712"W	2906.05	174.543	1.86
9261.00	88.520	158.750	6335.84	2901.89	-2975.91	308.32	1623625.95	332765.39	39°24'21.516"N	80°49'55.290"W	2991.84	174.085	0.45
9351.00	88.980	159.000	6337.80	2991.85	-3059.84	340.75	1623658.37	332681.47	39°24'20.691"N	80°49'54.861"W	3078.76	173.646	0.58
9441.00	89.170	160.030	6339.25	3081.84	-3144.14	372.24	1623689.86	332597.17	39°24'19.863"N	80°49'54.444"W	3166.10	173.248	1.16
9530.00	89.110	159.000	6340.59	3170.82	-3227.50	403.39	1623721.01	332513.82	39°24'19.044"N	80°49'54.031"W	3252.61	172.876	1.16
9620.00	89.200	158.020	6341.92	3260.78	-3311.23	436.35	1623753.97	332430.09	39°24'18.221"N	80°49'53.596"W	3339.86	172.493	1.09
9709.00	89.140	159.130	6343.21	3349.74	-3394.07	468.86	1623786.47	332347.25	39°24'17.407"N	80°49'53.166"W	3426.30	172.135	1.25
9799.00	89.140	159.910	6344.56	3439.73	-3478.37	500.35	1623817.96	332262.96	39°24'16.579"N	80°49'52.749"W	3514.18	171.814	0.87
9889.00	89.540	160.100	6345.59	3529.72	-3562.94	531.12	1623848.73	332178.39	39°24'15.747"N	80°49'52.341"W	3602.31	171.522	0.49
9978.00	90.120	160.630	6345.86	3618.72	-3646.77	561.02	1623878.63	332094.57	39°24'14.923"N	80°49'51.944"W	3689.67	171.254	0.88
10068.00	90.310	160.070	6345.52	3708.72	-3731.52	591.29	1623908.90	332009.82	39°24'14.090"N	80°49'51.543"W	3778.08	170.996	0.66
10157.00	90.460	160.890	6344.92	3797.71	-3815.41	621.03	1623938.63	331925.94	39°24'13.266"N	80°49'51.148"W	3865.62	170.755	0.94
10247.00	90.340	162.510	6344.29	3887.67	-3900.85	649.28	1623966.89	331840.50	39°24'12.425"N	80°49'50.772"W	3954.52	170.550	1.80
10336.00	90.550	163.800	6343.60	3976.53	-3986.03	675.07	1623992.68	331755.33	39°24'11.587"N	80°49'50.427"W	4042.79	170.388	1.47
10426.00	90.340	162.460	6342.90	4066.39	-4072.15	701.19	1624018.79	331669.21	39°24'10.740"N	80°49'50.079"W	4132.08	170.230	1.51
10515.00	90.280	160.530	6342.42	4155.35	-4156.54	729.44	1624047.04	331584.82	39°24'09.910"N	80°49'49.703"W	4220.06	170.046	2.17
10605.00	90.250	159.430	6342.01	4245.35	-4241.10	760.25	1624077.84	331500.27	39°24'09.079"N	80°49'49.294"W	4308.70	169.837	1.22
10695.00	90.280	157.420	6341.59	4335.31	-4324.79	793.34	1624110.94	331416.58	39°24'08.257"N	80°49'48.857"W	4396.95	169.605	2.23
10784.00	90.310	156.900	6341.13	4424.20	-4406.81	827.88	1624145.48	331334.57	39°24'07.451"N	80°49'48.402"W	4483.90	169.360	0.59
10874.00	90.250	158.230	6340.69	4514.12	-4490.00	862.23	1624179.82	331251.39	39°24'06.634"N	80°49'47.948"W	4572.04	169.130	1.48
10964.00	90.250	158.980	6340.30	4604.09	-4573.79	895.06	1624212.65	331167.60	39°24'05.811"N	80°49'47.514"W	4660.55	168.928	0.83
11053.00	90.280	159.200	6339.89	4693.08	-4656.93	926.82	1624244.41	331084.46	39°24'04.994"N	80°49'47.094"W	4748.26	168.744	0.25
11143.00	90.250	159.990	6339.47	4783.07	-4741.28	958.20	1624275.79	331000.12	39°24'04.165"N	80°49'46.679"W	4837.14	168.575	0.88
11232.00	90.310	160.480	6339.04	4872.07	-4825.04	988.30	1624305.89	330916.37	39°24'03.342"N	80°49'46.279"W	4925.21	168.424	0.55

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWP
Facility	SHR-3 Pad		

WELLPATH DATA (175 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]
11322.00	90.310	161.280	6338.55	4962.06	-4910.07	1017.78	1624335.36	330831.34	39°24'02.506"N	80°49'45.888"W	5014.45	168.289	0.89
11411.00	90.370	161.010	6338.02	5051.04	-4994.29	1046.54	1624364.12	330747.12	39°24'01.678"N	80°49'45.506"W	5102.76	168.165	0.31
11501.00	90.280	159.530	6337.51	5141.03	-5079.01	1076.92	1624394.50	330662.41	39°24'00.845"N	80°49'45.103"W	5191.92	168.029	1.65
11591.00	90.220	158.880	6337.12	5231.02	-5163.14	1108.87	1624426.45	330578.28	39°24'00.018"N	80°49'44.680"W	5280.87	167.879	0.73
11680.00	90.400	160.500	6336.64	5320.02	-5246.60	1139.76	1624457.34	330494.82	39°23'59.198"N	80°49'44.271"W	5368.98	167.741	1.83
11770.00	90.340	161.650	6336.06	5410.00	-5331.74	1168.95	1624486.53	330409.69	39°23'58.361"N	80°49'43.883"W	5458.37	167.634	1.28
11859.00	90.310	163.080	6335.55	5498.92	-5416.55	1195.91	1624513.49	330324.89	39°23'57.526"N	80°49'43.524"W	5547.00	167.549	1.61
11949.00	90.710	160.970	6334.75	5588.85	-5502.15	1223.68	1624541.26	330239.29	39°23'56.685"N	80°49'43.154"W	5636.58	167.461	2.39
12039.00	90.580	158.440	6333.74	5678.84	-5586.55	1254.90	1624572.47	330154.90	39°23'55.855"N	80°49'42.740"W	5725.76	167.340	2.81
12128.00	90.650	156.440	6332.78	5767.74	-5668.73	1289.04	1624606.61	330072.72	39°23'55.048"N	80°49'42.290"W	5813.44	167.189	2.25
12218.00	90.920	157.450	6331.55	5857.60	-5751.53	1324.28	1624641.85	329989.92	39°23'54.235"N	80°49'41.825"W	5902.02	167.034	1.16
12308.00	90.860	161.050	6330.15	5947.57	-5835.67	1356.16	1624673.72	329905.79	39°23'53.408"N	80°49'41.404"W	5991.18	166.917	4.00
12397.00	90.990	161.390	6328.71	6036.54	-5919.92	1384.81	1624702.37	329821.54	39°23'52.580"N	80°49'41.023"W	6079.73	166.834	0.41
12487.00	90.280	160.170	6327.72	6126.52	-6004.90	1414.43	1624731.99	329736.57	39°23'51.744"N	80°49'40.630"W	6169.23	166.746	1.57
12576.00	89.910	160.420	6327.57	6215.52	-6088.69	1444.44	1624762.00	329652.79	39°23'50.920"N	80°49'40.232"W	6257.67	166.654	0.50
12666.00	89.910	160.410	6327.71	6305.52	-6173.48	1474.61	1624792.17	329568.00	39°23'50.087"N	80°49'39.831"W	6347.15	166.566	0.01
12755.00	89.480	162.500	6328.18	6394.48	-6257.85	1502.91	1624820.47	329483.63	39°23'49.257"N	80°49'39.455"W	6435.79	166.495	2.40
12845.00	89.480	163.500	6329.00	6484.35	-6343.91	1529.22	1624846.78	329397.57	39°23'48.411"N	80°49'39.104"W	6525.62	166.447	1.11
12935.00	89.380	160.690	6329.89	6574.28	-6429.54	1556.89	1624874.44	329311.95	39°23'47.568"N	80°49'38.735"W	6615.35	166.388	3.12
13024.00	88.890	156.760	6331.24	6663.23	-6512.45	1589.17	1624906.73	329229.04	39°23'46.754"N	80°49'38.308"W	6703.54	166.287	4.45
13113.00	89.380	158.320	6332.58	6752.14	-6594.69	1623.17	1624940.72	329146.81	39°23'45.946"N	80°49'37.860"W	6791.51	166.172	1.84
13203.00	89.420	160.960	6333.53	6842.12	-6679.05	1654.48	1624972.03	329062.45	39°23'45.117"N	80°49'37.445"W	6880.92	166.087	2.93
13293.00	89.450	160.240	6334.41	6932.11	-6763.94	1684.37	1625001.92	328977.57	39°23'44.282"N	80°49'37.049"W	6970.51	166.017	0.80
13382.00	89.910	158.530	6334.91	7021.10	-6847.23	1715.70	1625033.25	328894.28	39°23'43.464"N	80°49'36.634"W	7058.91	165.933	1.99
13472.00	89.910	158.500	6335.05	7111.07	-6930.98	1748.67	1625066.21	328810.54	39°23'42.641"N	80°49'36.198"W	7148.17	165.840	0.03

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWP
Facility	SHR-3 Pad		

WELLPATH DATA (175 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]
13561.00	89.850	159.140	6335.24	7200.05	-7013.97	1780.82	1625098.37	328727.55	39°23'41.826"N	80°49'35.773"W	7236.51	165.754	0.72
13651.00	89.970	159.570	6335.38	7290.05	-7098.19	1812.55	1625130.10	328643.34	39°23'40.998"N	80°49'35.353"W	7325.96	165.675	0.50
13741.00	90.000	159.110	6335.40	7380.04	-7182.40	1844.31	1625161.85	328559.13	39°23'40.170"N	80°49'34.933"W	7415.41	165.599	0.51
13830.00	89.970	157.930	6335.43	7469.01	-7265.22	1876.90	1625194.43	328476.32	39°23'39.357"N	80°49'34.502"W	7503.74	165.515	1.33
13920.00	89.970	157.830	6335.47	7558.95	-7348.59	1910.79	1625228.32	328392.95	39°23'38.538"N	80°49'34.055"W	7592.95	165.425	0.11
14009.00	89.910	159.840	6335.57	7647.92	-7431.59	1942.92	1625260.45	328309.96	39°23'37.722"N	80°49'33.630"W	7681.37	165.348	2.26
14099.00	90.030	161.060	6335.61	7737.92	-7516.40	1973.03	1625290.57	328225.15	39°23'36.888"N	80°49'33.231"W	7771.04	165.292	1.36
14189.00	90.280	160.600	6335.37	7827.91	-7601.40	2002.59	1625320.12	328140.15	39°23'36.053"N	80°49'32.838"W	7860.77	165.241	0.58
14278.00	90.150	160.830	6335.04	7916.90	-7685.41	2031.98	1625349.51	328056.15	39°23'35.227"N	80°49'32.448"W	7949.49	165.190	0.30
14368.00	90.250	161.170	6334.72	8006.89	-7770.51	2061.28	1625378.81	327971.06	39°23'34.390"N	80°49'32.059"W	8039.26	165.143	0.39
14458.00	90.180	160.700	6334.38	8096.87	-7855.57	2090.68	1625408.21	327886.00	39°23'33.554"N	80°49'31.669"W	8129.01	165.097	0.53
14547.00	89.780	160.030	6334.42	8185.87	-7939.39	2120.59	1625438.11	327802.18	39°23'32.730"N	80°49'31.272"W	8217.71	165.046	0.88
14637.00	89.630	160.130	6334.88	8275.87	-8024.01	2151.25	1625468.77	327717.57	39°23'31.898"N	80°49'30.866"W	8307.38	164.992	0.20
14726.00	89.630	160.690	6335.45	8364.87	-8107.85	2181.09	1625498.61	327633.73	39°23'31.074"N	80°49'30.470"W	8396.10	164.943	0.63
14816.00	89.570	161.510	6336.08	8454.85	-8193.00	2210.24	1625527.76	327548.59	39°23'30.236"N	80°49'30.082"W	8485.89	164.903	0.91
14906.00	89.600	160.530	6336.73	8544.83	-8278.10	2239.51	1625557.03	327463.49	39°23'29.400"N	80°49'29.694"W	8575.68	164.862	1.09
14995.00	90.150	158.080	6336.93	8633.81	-8361.35	2270.96	1625588.48	327380.24	39°23'28.582"N	80°49'29.278"W	8664.26	164.805	2.82
15085.00	90.060	156.850	6336.76	8723.72	-8444.48	2305.45	1625622.97	327297.12	39°23'27.765"N	80°49'28.823"W	8753.53	164.730	1.37
15174.00	90.220	159.790	6336.55	8812.68	-8527.17	2338.33	1625655.84	327214.43	39°23'26.953"N	80°49'28.388"W	8841.97	164.665	3.31
15264.00	89.660	160.380	6336.64	8902.67	-8611.79	2368.98	1625686.49	327129.82	39°23'26.121"N	80°49'27.982"W	8931.69	164.619	0.90
15353.00	90.550	160.360	6336.48	8991.67	-8695.62	2398.88	1625716.39	327046.00	39°23'25.297"N	80°49'27.586"W	9020.44	164.577	1.00
15443.00	89.600	159.190	6336.36	9081.67	-8780.06	2429.99	1625747.50	326961.55	39°23'24.467"N	80°49'27.174"W	9110.13	164.530	1.67
15532.00	89.820	161.140	6336.81	9170.66	-8863.78	2460.19	1625777.70	326877.84	39°23'23.644"N	80°49'26.773"W	9198.87	164.488	2.20
15560.00	89.690	161.710	6336.93	9198.65	-8890.32	2469.11	1625786.62	326851.30	39°23'23.383"N	80°49'26.655"W	9226.82	164.478	2.09
15583.00	89.690	161.710	6337.05	9221.64	-8912.16	2476.33	1625793.83	326829.47	39°23'23.168"N	80°49'26.559"W	9249.80	164.472	0.00

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Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-3B-HS BHL Rev-1		6318.82	-8913.89	2472.35	1625789.86	326827.74	39°23'23.151"N	80°49'26.609"W	point
SHR-3B-HS LP Rev-1		6334.00	-738.57	-503.21	1622814.46	335002.61	39°24'43.507"N	80°50'06.051"W	point
SHR-3B-HS LP Plat		6339.00	-610.00	-550.01	1622767.66	335131.17	39°24'44.771"N	80°50'06.671"W	point

WELLPATH COMPOSITION - Ref Wellbore: SHR-3B-HS AWB Ref Wellpath: SHR-3B-HS AWP Proj: 15583'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.50	2103.50	Generic gyro - northseeking (Standard)	01_MS Gyro <12-1/4"> (100'-2085')	SHR-3B-HS AWB
2103.50	5041.00	NaviTrak (MagCorr)	02_BHI MWD <8-3/4"> (2103.5')(2226'-5041')	SHR-3B-HS AWB
5041.00	15560.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-3/4"> (5041')(5141'-15560')	SHR-3B-HS AWB
15560.00	15583.00	Blind Drilling (std)	Projection to bit	SHR-3B-HS AWB

01/27/2017

23/Apr/2015



Actual Wellpath Report

SHR-3B-HS AWP Proj: 15583'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Tyler County, WV	Well	SHR-3B-HS
Field	Tyler	Wellbore	SHR-3B-HS AWB
Facility	SHR-3 Pad		

COMMENTS

Wellpath general comments

API: 47-095-02124-0000

BHI Job #: 7024647

Rig: Precision 542

Duration: 04.16.2014 - 04.22.2015

MS Gyro <12-1/4"> (100'-2085')

BHI MWD <8-3/4"> (2103.5')(2226'-5041')

BHI AT Curve <8-3/4"> (5041')(5141'-15560')

Projected MD at TD: 15583'

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Office of Oil and Gas
JAN 17 2017
WV Department of
Environmental Protection

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23/Apr/2015

