



# Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 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	Edsaryar
Scale	0.999947	Report Generated	30/Jun/2015 at 10:28
Convergence at slot	0.85° West	Database/Source file	WellArchitectEasternDB/SHR-40H-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	5.16	30.33	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"W
Facility Reference Pt			1622922.59	336042.46	39°24'53.800"N	80°50'04.870"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	788.75ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	788.75ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot H)	19.40ft
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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## WELLPATH DATA (193 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]
0.00†	0.000	345.780	0.00	0.00	0.00	0.00	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"W	0.00	0.000	0.00	0.00	0.00
19.40	0.000	345.780	19.40	0.00	0.00	0.00	1622952.92	336047.62	39°24'53.855"N	80°50'04.485"W	0.00	0.000	0.00	0.00	0.00
104.00	0.450	345.780	104.00	-0.33	0.32	-0.08	1622952.84	336047.94	39°24'53.859"N	80°50'04.486"W	0.33	345.780	0.53	0.53	0.00
204.00	0.430	337.020	204.00	-1.10	1.05	-0.32	1622952.60	336048.67	39°24'53.866"N	80°50'04.489"W	1.10	342.795	0.07	-0.02	-8.76
304.00	0.340	20.700	303.99	-1.70	1.67	-0.37	1622952.55	336049.29	39°24'53.872"N	80°50'04.490"W	1.71	347.641	0.30	-0.09	43.68
404.00	0.250	21.920	403.99	-2.08	2.15	-0.18	1622952.74	336049.77	39°24'53.877"N	80°50'04.487"W	2.16	355.220	0.09	-0.09	1.22
504.00	0.260	33.370	503.99	-2.38	2.54	0.03	1622952.95	336050.16	39°24'53.881"N	80°50'04.485"W	2.54	0.594	0.05	0.01	11.45
604.00	0.310	33.180	603.99	-2.68	2.96	0.30	1622953.22	336050.58	39°24'53.885"N	80°50'04.481"W	2.97	5.774	0.05	0.05	-0.19
704.00	0.330	32.960	703.99	-3.01	3.43	0.60	1622953.52	336051.05	39°24'53.889"N	80°50'04.477"W	3.48	9.995	0.02	0.02	-0.22
804.00	0.390	14.060	803.99	-3.47	4.00	0.84	1622953.76	336051.62	39°24'53.895"N	80°50'04.475"W	4.09	11.909	0.13	0.06	-18.90
904.00	0.340	335.740	903.99	-4.05	4.60	0.80	1622953.72	336052.22	39°24'53.901"N	80°50'04.475"W	4.67	9.916	0.24	-0.05	-38.32
1004.00	0.190	317.890	1003.98	-4.50	4.99	0.57	1622953.49	336052.61	39°24'53.905"N	80°50'04.478"W	5.03	6.524	0.17	-0.15	-17.85
1104.00	0.100	21.260	1103.98	-4.72	5.20	0.49	1622953.41	336052.82	39°24'53.907"N	80°50'04.479"W	5.22	5.402	0.17	-0.09	63.37
1204.00	0.250	36.240	1203.98	-4.90	5.45	0.65	1622953.57	336053.07	39°24'53.909"N	80°50'04.477"W	5.49	6.817	0.16	0.15	14.98
1304.00	0.270	52.390	1303.98	-5.10	5.77	0.97	1622953.89	336053.39	39°24'53.913"N	80°50'04.473"W	5.85	9.514	0.08	0.02	16.15
1404.00	0.590	66.630	1403.98	-5.20	6.12	1.63	1622954.55	336053.74	39°24'53.916"N	80°50'04.465"W	6.33	14.882	0.33	0.32	14.24
1504.00	0.650	62.380	1503.97	-5.30	6.59	2.60	1622955.52	336054.21	39°24'53.921"N	80°50'04.453"W	7.08	21.549	0.08	0.06	-4.25
1604.00	0.420	51.870	1603.97	-5.49	7.08	3.39	1622956.31	336054.70	39°24'53.926"N	80°50'04.443"W	7.85	25.610	0.25	-0.23	-10.51
1704.00	0.270	94.310	1703.97	-5.51	7.29	3.92	1622956.84	336054.91	39°24'53.928"N	80°50'04.436"W	8.27	28.254	0.29	-0.15	42.44
1804.00	0.400	117.800	1803.97	-5.15	7.11	4.46	1622957.38	336054.73	39°24'53.926"N	80°50'04.429"W	8.39	32.111	0.19	0.13	23.49
1904.00	0.700	103.900	1903.96	-4.55	6.80	5.36	1622958.28	336054.42	39°24'53.923"N	80°50'04.418"W	8.66	38.267	0.33	0.30	-13.90
2004.00	0.590	77.770	2003.95	-4.14	6.76	6.46	1622959.38	336054.38	39°24'53.923"N	80°50'04.404"W	9.35	43.692	0.31	-0.11	-26.13
2104.00	0.310	94.810	2103.95	-3.96	6.85	7.23	1622960.15	336054.47	39°24'53.924"N	80°50'04.394"W	9.96	46.565	0.31	-0.28	17.04
2204.00	0.540	125.710	2203.95	-3.46	6.55	7.88	1622960.80	336054.17	39°24'53.921"N	80°50'04.385"W	10.25	50.284	0.32	0.23	30.90
2304.00	0.530	137.430	2303.94	-2.64	5.93	8.58	1622961.50	336053.55	39°24'53.915"N	80°50'04.376"W	10.43	55.333	0.11	-0.01	11.72
2404.00	0.340	89.270	2403.94	-2.12	5.60	9.19	1622962.11	336053.22	39°24'53.912"N	80°50'04.369"W	10.76	58.657	0.40	-0.19	-48.16
2504.00	0.150	223.480	2503.94	-1.96	5.50	9.39	1622962.31	336053.11	39°24'53.911"N	80°50'04.366"W	10.89	59.633	0.46	-0.19	134.21
2604.00	0.340	206.360	2603.94	-1.70	5.14	9.17	1622962.09	336052.76	39°24'53.908"N	80°50'04.369"W	10.52	60.718	0.20	0.19	-17.12
2704.00	0.150	206.310	2703.94	-1.40	4.76	8.98	1622961.90	336052.38	39°24'53.904"N	80°50'04.371"W	10.17	62.079	0.19	-0.19	-0.05
2804.00	0.280	305.010	2803.94	-1.51	4.78	8.72	1622961.64	336052.40	39°24'53.904"N	80°50'04.374"W	9.95	61.266	0.34	0.13	98.70



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Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## WELLPATH DATA (193 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]
2839.00	0.380	270.700	2838.94	-1.62	4.83	8.54	1622961.46	336052.45	39°24'53.904"N	80°50'04.377"W	9.81	60.485	0.62	0.29	-98.03
2847.00	0.230	198.550	2846.94	-1.62	4.82	8.51	1622961.43	336052.44	39°24'53.904"N	80°50'04.377"W	9.78	60.470	4.74	-1.87	-901.87
2892.00	0.440	56.950	2891.94	-1.59	4.83	8.62	1622961.54	336052.45	39°24'53.904"N	80°50'04.376"W	9.88	60.758	1.41	0.47	-314.67
2980.00	3.280	39.960	2979.88	-2.92	6.94	10.52	1622963.44	336054.56	39°24'53.926"N	80°50'04.352"W	12.61	56.589	3.25	3.23	-19.31
3068.00	4.820	44.230	3067.66	-5.79	11.52	14.72	1622967.64	336059.14	39°24'53.971"N	80°50'04.299"W	18.69	51.950	1.78	1.75	4.85
3112.00	5.010	44.320	3111.50	-7.43	14.22	17.35	1622970.27	336061.84	39°24'53.999"N	80°50'04.266"W	22.43	50.664	0.43	0.43	0.20
3157.00	5.470	49.010	3156.31	-9.05	17.03	20.34	1622973.26	336064.65	39°24'54.027"N	80°50'04.229"W	26.53	50.062	1.40	1.02	10.42
3201.00	6.330	51.620	3200.08	-10.56	19.91	23.83	1622976.75	336067.53	39°24'54.056"N	80°50'04.185"W	31.05	50.112	2.05	1.95	5.93
3245.00	7.210	60.260	3243.77	-11.80	22.79	28.13	1622981.05	336070.41	39°24'54.085"N	80°50'04.131"W	36.20	50.983	3.05	2.00	19.64
3289.00	8.300	64.890	3287.37	-12.55	25.51	33.40	1622986.32	336073.13	39°24'54.112"N	80°50'04.064"W	42.03	52.631	2.85	2.48	10.52
3333.00	9.910	64.420	3330.81	-13.20	28.49	39.69	1622992.61	336076.11	39°24'54.143"N	80°50'03.984"W	48.86	54.329	3.66	3.66	-1.07
3378.00	11.430	63.530	3375.03	-14.08	32.15	47.18	1623000.09	336079.77	39°24'54.180"N	80°50'03.890"W	57.09	55.726	3.40	3.38	-1.98
3422.00	12.660	64.450	3418.06	-15.03	36.17	55.43	1623008.35	336083.79	39°24'54.221"N	80°50'03.785"W	66.19	56.872	2.83	2.80	2.09
3466.00	13.260	69.370	3460.94	-15.56	40.03	64.50	1623017.42	336087.65	39°24'54.261"N	80°50'03.670"W	75.91	58.176	2.85	1.36	11.18
3510.00	13.410	72.960	3503.76	-15.35	43.30	74.10	1623027.02	336090.92	39°24'54.294"N	80°50'03.549"W	85.83	59.699	1.91	0.34	8.16
3554.00	14.180	74.370	3546.49	-14.67	46.25	84.17	1623037.09	336093.87	39°24'54.325"N	80°50'03.421"W	96.04	61.212	1.91	1.75	3.20
3599.00	15.950	75.070	3589.94	-13.71	49.33	95.45	1623048.37	336096.95	39°24'54.357"N	80°50'03.278"W	107.45	62.671	3.95	3.93	1.56
3643.00	17.640	74.830	3632.06	-12.61	52.63	107.73	1623060.65	336100.25	39°24'54.391"N	80°50'03.122"W	119.90	63.962	3.84	3.84	-0.55
3687.00	19.400	75.750	3673.78	-11.32	56.18	121.25	1623074.16	336103.79	39°24'54.428"N	80°50'02.950"W	133.63	65.142	4.05	4.00	2.09
3731.00	20.790	78.350	3715.10	-9.45	59.55	135.98	1623088.89	336107.17	39°24'54.464"N	80°50'02.763"W	148.45	66.350	3.75	3.16	5.91
3775.00	21.910	80.170	3756.08	-6.87	62.53	151.72	1623104.63	336110.15	39°24'54.496"N	80°50'02.564"W	164.10	67.601	2.96	2.55	4.14
3819.00	23.400	81.440	3796.69	-3.69	65.23	168.45	1623121.36	336112.85	39°24'54.525"N	80°50'02.351"W	180.64	68.831	3.56	3.39	2.89
3863.00	24.490	78.680	3836.90	-0.58	68.32	186.03	1623138.94	336115.94	39°24'54.558"N	80°50'02.127"W	198.18	69.834	3.55	2.48	-6.27
3908.00	26.650	76.260	3877.49	1.93	72.55	204.98	1623157.89	336120.17	39°24'54.603"N	80°50'01.887"W	217.44	70.509	5.33	4.80	-5.38
3952.00	27.970	72.560	3916.59	3.47	77.99	224.42	1623177.32	336125.60	39°24'54.659"N	80°50'01.640"W	237.58	70.837	4.89	3.00	-8.41
4040.00	30.890	66.950	3993.24	3.19	93.02	264.91	1623217.81	336140.64	39°24'54.814"N	80°50'01.127"W	280.76	70.651	4.56	3.32	-6.38
4128.00	31.390	65.070	4068.56	0.02	111.53	306.47	1623259.38	336159.14	39°24'55.003"N	80°50'00.601"W	326.14	70.003	1.24	0.57	-2.14
4217.00	33.930	65.070	4143.49	-4.11	131.77	350.03	1623302.93	336179.38	39°24'55.209"N	80°50'00.050"W	374.01	69.370	2.85	2.85	0.00
4305.00	33.200	62.260	4216.82	-9.46	153.34	393.62	1623346.52	336200.95	39°24'55.429"N	80°49'59.499"W	422.44	68.716	1.95	-0.83	-3.19
4393.00	32.780	66.000	4290.63	-14.37	174.25	436.71	1623389.61	336221.86	39°24'55.642"N	80°49'58.954"W	470.19	68.248	2.36	-0.48	4.25



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Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

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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]
4482.00	34.910	71.160	4364.56	-15.54	192.27	482.84	1623435.74	336239.88	39°24'55.826"N	80°49'58.370"W	519.72	68.287	4.02	2.39	5.80
4570.00	35.280	71.710	4436.57	-14.27	208.38	530.80	1623483.69	336255.99	39°24'55.993"N	80°49'57.762"W	570.24	68.566	0.55	0.42	0.63
4658.00	34.300	75.840	4508.85	-10.99	222.43	578.98	1623531.87	336270.03	39°24'56.139"N	80°49'57.150"W	620.24	68.985	2.90	-1.11	4.69
4747.00	32.310	80.250	4583.24	-4.20	232.59	626.75	1623579.64	336280.20	39°24'56.246"N	80°49'56.544"W	668.52	69.640	3.52	-2.24	4.96
4835.00	30.920	77.100	4658.18	2.78	241.62	671.97	1623624.86	336289.23	39°24'56.342"N	80°49'55.969"W	714.09	70.223	2.45	-1.58	-3.58
4923.00	30.960	73.780	4733.66	7.07	252.99	715.75	1623668.63	336300.60	39°24'56.461"N	80°49'55.414"W	759.15	70.533	1.94	0.05	-3.77
5012.00	30.830	73.970	4810.03	10.15	265.68	759.65	1623712.53	336313.29	39°24'56.592"N	80°49'54.857"W	804.77	70.723	0.18	-0.15	0.21
5100.00	30.000	77.510	4885.93	14.59	276.67	802.81	1623755.68	336324.28	39°24'56.707"N	80°49'54.309"W	849.14	70.985	2.24	-0.94	4.02
5189.00	31.830	79.520	4962.28	21.38	285.75	847.61	1623800.49	336333.36	39°24'56.804"N	80°49'53.740"W	894.48	71.370	2.36	2.06	2.26
5277.00	34.280	78.980	5036.04	29.09	294.71	894.76	1623847.64	336342.32	39°24'56.899"N	80°49'53.141"W	942.05	71.769	2.80	2.78	-0.61
5365.00	35.050	79.380	5108.41	37.08	304.11	943.93	1623896.79	336351.71	39°24'56.999"N	80°49'52.516"W	991.70	72.143	0.91	0.87	0.45
5454.00	33.570	75.620	5181.93	43.65	314.93	992.89	1623945.75	336362.53	39°24'57.113"N	80°49'51.895"W	1041.64	72.402	2.90	-1.66	-4.22
5542.00	34.560	75.930	5254.83	48.61	327.04	1040.67	1623993.53	336374.64	39°24'57.240"N	80°49'51.288"W	1090.85	72.554	1.14	1.13	0.35
5630.00	34.230	76.150	5327.45	53.84	339.03	1088.91	1624041.77	336386.63	39°24'57.366"N	80°49'50.676"W	1140.47	72.706	0.40	-0.38	0.25
5719.00	32.630	76.090	5401.72	59.07	350.79	1136.51	1624089.37	336398.39	39°24'57.489"N	80°49'50.072"W	1189.42	72.847	1.80	-1.80	-0.07
5807.00	29.870	72.520	5476.95	62.55	363.08	1180.45	1624133.31	336410.68	39°24'57.617"N	80°49'49.514"W	1235.03	72.903	3.78	-3.14	-4.06
5895.00	29.710	74.770	5553.33	65.33	375.39	1222.40	1624175.25	336422.99	39°24'57.744"N	80°49'48.982"W	1278.74	72.928	1.28	-0.18	2.56
5984.00	31.570	78.650	5629.90	70.67	385.77	1266.53	1624219.38	336433.37	39°24'57.853"N	80°49'48.422"W	1323.98	73.060	3.05	2.09	4.36
6028.00	32.330	80.420	5667.24	74.53	390.00	1289.42	1624242.27	336437.60	39°24'57.899"N	80°49'48.131"W	1347.11	73.171	2.74	1.73	4.02
6083.00	31.390	78.220	5713.95	79.24	395.37	1317.95	1624270.80	336442.97	39°24'57.956"N	80°49'47.769"W	1375.97	73.301	2.72	-1.71	-4.00
6125.00	31.030	80.660	5749.88	82.80	399.36	1339.34	1624292.18	336446.96	39°24'57.998"N	80°49'47.497"W	1397.61	73.397	3.13	-0.86	5.81
6216.00	33.850	98.600	5826.85	99.32	399.38	1387.66	1624340.51	336446.98	39°24'58.006"N	80°49'46.881"W	1443.99	73.944	10.98	3.10	19.71
6304.00	36.430	110.790	5898.89	128.16	386.42	1436.39	1624389.23	336434.02	39°24'57.885"N	80°49'46.258"W	1487.46	74.943	8.48	2.93	13.85
6394.00	39.830	120.650	5969.75	167.95	362.21	1486.23	1624439.07	336409.81	39°24'57.653"N	80°49'45.618"W	1529.73	76.303	7.74	3.78	10.96
6483.00	45.280	130.010	6035.35	217.47	327.29	1535.06	1624487.90	336374.89	39°24'57.315"N	80°49'44.990"W	1569.56	77.964	9.37	6.12	10.52
6573.00	50.350	134.570	6095.78	276.51	282.38	1584.28	1624537.11	336299.98	39°24'56.878"N	80°49'44.354"W	1609.25	79.894	6.77	5.63	5.07
6663.00	55.030	135.770	6150.32	341.46	231.61	1634.71	1624587.54	336279.22	39°24'56.384"N	80°49'43.702"W	1651.04	81.936	5.31	5.20	1.33
6753.00	62.140	143.220	6197.25	413.35	173.19	1684.37	1624637.20	336220.80	39°24'55.814"N	80°49'43.059"W	1693.25	84.130	10.59	7.90	8.28
6842.00	66.560	149.260	6235.79	491.22	106.50	1728.85	1624681.68	336154.12	39°24'55.161"N	80°49'42.479"W	1732.13	86.475	7.88	4.97	6.79
6932.00	71.980	152.960	6267.65	574.34	32.82	1769.45	1624722.27	336080.44	39°24'54.439"N	80°49'41.948"W	1769.76	88.937	7.14	6.02	4.11



# Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## WELLPATH DATA (193 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]
7022.00	81.440	155.700	6288.32	661.40	-46.04	1807.31	1624760.13	336001.58	39°24'53.665"N	80°49'41.451"W	1807.90	91.459	10.92	10.51	3.04
7111.00	89.540	159.100	6295.31	749.95	-127.88	1841.36	1624794.18	335919.75	39°24'52.861"N	80°49'41.002"W	1845.79	93.973	9.86	9.10	3.82
7201.00	88.340	159.780	6296.98	839.93	-212.13	1872.96	1624825.78	335835.50	39°24'52.033"N	80°49'40.583"W	1884.93	96.462	1.53	-1.33	0.76
7290.00	87.900	160.760	6299.90	928.88	-295.86	1902.99	1624855.80	335751.78	39°24'51.210"N	80°49'40.185"W	1925.85	98.837	1.21	-0.49	1.10
7380.00	88.830	159.720	6302.47	1018.84	-380.52	1933.40	1624886.22	335667.12	39°24'50.378"N	80°49'39.782"W	1970.49	101.134	1.55	1.03	-1.16
7470.00	89.850	159.500	6303.50	1108.83	-464.88	1964.76	1624917.57	335582.77	39°24'49.549"N	80°49'39.366"W	2019.00	103.312	1.16	1.13	-0.24
7559.00	89.940	158.730	6303.67	1197.82	-548.03	1996.48	1624949.30	335499.62	39°24'48.732"N	80°49'38.946"W	2070.33	105.349	0.87	0.10	-0.87
7649.00	90.000	158.470	6303.71	1287.79	-631.82	2029.32	1624982.13	335415.83	39°24'47.909"N	80°49'38.512"W	2125.41	107.294	0.30	0.07	-0.29
7738.00	90.060	158.080	6303.67	1376.75	-714.50	2062.27	1625015.07	335333.16	39°24'47.096"N	80°49'38.077"W	2182.53	109.109	0.44	0.07	-0.44
7828.00	90.940	158.220	6303.62	1466.70	-798.04	2095.76	1625048.57	335249.63	39°24'46.276"N	80°49'37.635"W	2242.56	110.846	0.17	-0.07	0.16
7917.00	89.000	158.240	6303.67	1555.66	-880.69	2128.77	1625081.58	335166.98	39°24'45.464"N	80°49'37.199"W	2303.75	112.475	0.07	-0.07	0.02
8007.00	90.060	158.180	6303.67	1645.61	-964.26	2162.18	1625114.98	335083.42	39°24'44.643"N	80°49'36.757"W	2367.45	114.035	0.15	0.13	-0.07
8097.00	90.000	158.940	6303.62	1735.59	-1048.03	2195.08	1625147.88	334999.65	39°24'43.820"N	80°49'36.322"W	2432.43	115.522	0.85	-0.07	0.84
8186.00	90.030	159.920	6303.59	1824.58	-1131.35	2226.35	1625179.15	334916.33	39°24'43.001"N	80°49'35.908"W	2497.32	116.938	1.10	0.03	1.10
8276.00	90.030	160.120	6303.55	1914.58	-1215.94	2257.10	1625209.90	334831.75	39°24'42.169"N	80°49'35.501"W	2563.79	118.312	0.22	0.00	0.22
8365.00	89.970	157.760	6303.55	2003.56	-1298.99	2289.08	1625241.87	334748.70	39°24'41.353"N	80°49'35.078"W	2631.97	119.574	2.65	-0.07	-2.65
8455.00	89.420	157.620	6304.03	2093.48	-1382.25	2323.24	1625276.04	334665.45	39°24'40.536"N	80°49'34.627"W	2703.34	120.751	0.63	-0.61	-0.16
8545.00	89.540	160.180	6304.84	2183.46	-1466.20	2355.64	1625308.43	334581.50	39°24'39.711"N	80°49'34.198"W	2774.67	121.899	2.85	0.13	2.84
8634.00	90.000	161.110	6305.20	2272.45	-1550.17	2385.14	1625337.93	334497.53	39°24'38.885"N	80°49'33.807"W	2844.63	123.021	1.17	0.52	1.04
8723.00	90.120	160.640	6305.11	2361.44	-1634.26	2414.29	1625367.08	334413.45	39°24'38.058"N	80°49'33.419"W	2915.41	124.094	0.55	0.13	-0.53
8813.00	90.030	160.300	6304.99	2451.43	-1719.08	2444.38	1625397.17	334328.63	39°24'37.224"N	80°49'33.020"W	2988.35	125.118	0.39	-0.10	-0.38
8903.00	90.280	162.440	6304.75	2541.40	-1804.36	2473.13	1625425.92	334243.36	39°24'36.386"N	80°49'32.638"W	3061.39	126.114	2.39	0.28	2.38
8992.00	90.460	163.700	6304.17	2630.27	-1889.50	2499.05	1625451.83	334158.22	39°24'35.548"N	80°49'32.292"W	3132.96	127.092	1.43	0.20	1.42
9082.00	90.090	163.890	6303.74	2720.07	-1975.92	2524.16	1625476.95	334071.81	39°24'34.698"N	80°49'31.956"W	3205.57	128.054	0.46	-0.41	0.21
9171.00	90.150	162.170	6303.55	2808.95	-2061.04	2550.14	1625502.92	333986.69	39°24'33.860"N	80°49'31.609"W	3278.89	128.945	1.93	0.07	-1.93
9261.00	90.150	160.960	6303.32	2898.91	-2146.42	2578.60	1625531.38	333901.31	39°24'33.021"N	80°49'31.230"W	3355.04	129.774	1.34	0.00	-1.34
9350.00	90.220	159.720	6303.03	2987.91	-2230.23	2608.54	1625561.32	333817.51	39°24'32.197"N	80°49'30.833"W	3431.97	130.530	1.40	0.08	-1.39
9440.00	90.180	158.200	6302.72	3077.89	-2314.23	2640.85	1625593.63	333733.52	39°24'31.372"N	80°49'30.406"W	3511.37	131.229	1.69	-0.04	-1.69
9529.00	90.030	157.830	6302.55	3166.83	-2396.76	2674.17	1625626.94	333650.99	39°24'30.561"N	80°49'29.966"W	3591.05	131.869	0.45	-0.17	-0.42
9619.00	90.310	156.450	6302.29	3256.72	-2479.69	2709.13	1625661.90	333568.07	39°24'29.746"N	80°49'29.505"W	3672.63	132.468	1.56	0.31	-1.53



# Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## WELLPATH DATA (193 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]
9708.00	90.250	157.900	6301.85	3345.61	-2561.71	2743.66	1625696.43	333486.05	39°24'28.941"N	80°49'29.050"W	3753.67	133.036	1.63	-0.07	1.63
9797.00	90.370	158.930	6301.37	3434.57	-2644.47	2776.40	1625729.16	333403.30	39°24'28.128"N	80°49'28.617"W	3834.27	133.606	1.17	0.13	1.16
9887.00	90.650	159.970	6300.57	3524.56	-2728.74	2807.99	1625760.75	333319.03	39°24'27.300"N	80°49'28.199"W	3915.46	134.180	1.20	0.31	1.16
9976.00	90.250	162.370	6299.87	3613.53	-2812.97	2836.71	1625789.47	333234.81	39°24'26.471"N	80°49'27.817"W	3994.96	134.759	2.73	-0.45	2.70
10066.00	90.580	162.570	6299.22	3703.45	-2898.78	2863.82	1625816.58	333148.99	39°24'25.627"N	80°49'27.456"W	4074.85	135.348	0.43	0.37	0.22
10156.00	90.430	162.730	6298.42	3793.35	-2984.68	2890.65	1625843.42	333063.10	39°24'24.782"N	80°49'27.098"W	4155.02	135.917	0.24	-0.17	0.18
10245.00	90.280	162.220	6297.87	3882.26	-3069.55	2917.45	1625870.21	332978.24	39°24'23.947"N	80°49'26.740"W	4234.82	136.455	0.60	-0.17	-0.57
10335.00	90.370	164.850	6297.36	3972.08	-3155.85	2942.96	1625895.72	332891.94	39°24'23.098"N	80°49'26.399"W	4315.14	136.999	2.92	0.10	2.92
10424.00	90.120	164.470	6296.98	4060.79	-3241.68	2966.50	1625919.26	332806.12	39°24'22.254"N	80°49'26.083"W	4394.16	137.538	0.51	-0.28	-0.43
10514.00	90.030	160.360	6296.86	4150.69	-3327.46	2993.69	1625946.45	332720.34	39°24'21.410"N	80°49'25.721"W	4475.95	138.023	4.57	-0.10	-4.57
10603.00	90.150	157.480	6296.72	4239.66	-3410.49	3025.70	1625978.45	332637.31	39°24'20.594"N	80°49'25.297"W	4559.20	138.421	3.24	0.13	3.24
10693.00	90.120	156.640	6296.51	4329.54	-3493.37	3060.77	1626013.53	332554.44	39°24'19.780"N	80°49'24.835"W	4644.57	138.776	0.93	-0.03	-0.93
10783.00	89.910	153.140	6296.49	4419.17	-3574.85	3098.96	1626051.71	332472.96	39°24'18.980"N	80°49'24.333"W	4731.08	139.079	3.90	-0.23	-3.89
10872.00	89.750	149.330	6296.75	4507.12	-3652.86	3141.78	1626094.53	332394.96	39°24'18.216"N	80°49'23.773"W	4818.11	139.302	4.28	-0.18	-4.28
10962.00	89.690	150.070	6297.19	4595.66	-3730.56	3187.19	1626139.93	332317.26	39°24'17.454"N	80°49'23.180"W	4906.65	139.491	0.82	-0.07	0.82
11051.00	89.600	153.060	6297.74	4683.69	-3808.81	3229.56	1626182.30	332239.01	39°24'16.687"N	80°49'22.626"W	4993.71	139.705	3.36	-0.10	3.36
11141.00	89.850	163.380	6298.18	4773.52	-3892.28	3262.91	1626215.65	332155.56	39°24'15.867"N	80°49'22.185"W	5079.01	140.027	11.47	0.28	11.47
11230.00	89.780	164.760	6298.46	4862.30	-3977.86	3287.34	1626240.08	332069.98	39°24'15.025"N	80°49'21.858"W	5160.42	140.429	1.55	-0.08	1.55
11320.00	89.600	164.710	6298.95	4951.99	-4064.68	3311.03	1626263.77	331983.16	39°24'14.171"N	80°49'21.540"W	5242.57	140.834	0.21	-0.20	-0.06
11409.00	90.220	164.740	6299.09	5040.68	-4150.53	3334.48	1626287.22	331897.31	39°24'13.325"N	80°49'21.225"W	5324.07	141.222	0.70	0.70	0.03
11499.00	89.600	166.550	6299.23	5130.24	-4237.72	3356.79	1626309.53	331810.13	39°24'12.467"N	80°49'20.925"W	5406.14	141.616	2.13	-0.69	2.01
11589.00	90.090	166.300	6299.48	5219.68	-4325.20	3377.91	1626330.65	331722.65	39°24'11.606"N	80°49'20.639"W	5487.96	142.011	0.61	0.54	-0.28
11680.00	89.570	161.900	6299.75	5310.42	-4412.70	3402.84	1626355.57	331635.16	39°24'10.745"N	80°49'20.305"W	5572.36	142.363	4.87	-0.57	-4.84
11768.00	89.750	159.380	6300.27	5398.41	-4495.72	3432.01	1626384.74	331552.15	39°24'09.928"N	80°49'19.918"W	5655.98	142.642	2.87	0.20	-2.86
11858.00	89.780	161.110	6300.64	5488.40	-4580.42	3462.43	1626415.16	331467.45	39°24'09.096"N	80°49'19.515"W	5741.83	142.914	1.92	0.03	1.92
11947.00	89.780	161.530	6300.98	5577.38	-4664.73	3490.93	1626443.66	331383.15	39°24'08.227"N	80°49'19.136"W	5826.34	143.190	0.47	0.00	0.47
12037.00	89.780	160.680	6301.32	5667.36	-4749.88	3520.08	1626472.80	331298.00	39°24'07.429"N	80°49'18.749"W	5912.04	143.458	0.94	0.00	-0.94
12126.00	89.970	160.380	6301.52	5756.36	-4833.79	3549.74	1626502.47	331214.10	39°24'06.605"N	80°49'18.355"W	5997.18	143.708	0.40	0.21	-0.34
12216.00	89.510	160.100	6301.93	5846.35	-4918.49	3580.17	1626532.89	331129.40	39°24'05.772"N	80°49'17.952"W	6083.51	143.949	0.60	-0.51	-0.31
12305.00	89.940	158.610	6302.35	5935.34	-5001.77	3611.55	1626564.27	331046.13	39°24'04.953"N	80°49'17.537"W	6169.35	144.169	1.74	0.48	-1.67



# Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## WELLPATH DATA (193 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]
12395.00	89.720	158.360	6302.62	6025.31	-5085.50	3644.55	1626597.27	330962.40	39°24'04.131"N	80°49'17.100"W	6256.60	144.372	0.37	-0.24	-0.28
12485.00	89.880	157.270	6302.94	6115.25	-5168.83	3678.54	1626631.25	330879.07	39°24'03.312"N	80°49'16.652"W	6344.17	144.561	1.22	0.18	-1.21
12574.00	89.880	157.360	6303.12	6204.15	-5250.95	3712.86	1626665.58	330796.96	39°24'02.506"N	80°49'16.199"W	6431.00	144.736	0.10	0.00	0.10
12664.00	89.540	155.230	6303.58	6293.95	-5333.35	3749.04	1626701.76	330714.56	39°24'01.697"N	80°49'15.723"W	6519.19	144.895	2.40	-0.38	-2.37
12754.00	90.000	157.470	6303.94	6383.76	-5415.78	3785.14	1626737.85	330632.13	39°24'00.887"N	80°49'15.248"W	6607.42	145.050	2.54	0.51	2.49
12843.00	90.550	160.490	6303.51	6472.74	-5498.85	3817.06	1626769.77	330549.07	39°24'00.071"N	80°49'14.826"W	6693.82	145.233	3.45	0.62	3.39
12933.00	90.680	160.420	6302.55	6562.73	-5583.66	3847.17	1626799.88	330464.27	39°23'59.237"N	80°49'14.426"W	6780.70	145.433	0.16	0.14	-0.08
13022.00	90.120	161.550	6301.92	6651.71	-5667.80	3876.16	1626828.87	330380.13	39°23'58.410"N	80°49'14.041"W	6866.48	145.632	1.42	-0.63	1.27
13112.00	90.150	161.990	6301.71	6741.67	-5753.28	3904.32	1626857.03	330294.65	39°23'57.569"N	80°49'13.667"W	6952.98	145.838	0.49	0.03	0.49
13202.00	89.940	163.880	6301.64	6831.55	-5839.31	3930.73	1626883.43	330208.63	39°23'56.723"N	80°49'13.314"W	7039.05	146.054	2.11	-0.23	2.10
13291.00	89.910	164.950	6301.76	6920.28	-5925.04	3954.64	1626907.34	330122.90	39°23'55.879"N	80°49'12.994"W	7123.57	146.279	1.20	-0.03	1.20
13381.00	90.180	165.620	6301.69	7009.90	-6012.09	3977.50	1626930.20	330035.86	39°23'55.022"N	80°49'12.686"W	7208.72	146.512	0.80	0.30	0.74
13470.00	90.220	162.560	6301.38	7098.66	-6097.67	4001.89	1626954.60	329950.29	39°23'54.180"N	80°49'12.359"W	7293.61	146.723	3.44	0.04	-3.44
13560.00	89.850	161.230	6301.32	7188.61	-6183.21	4029.86	1626982.56	329864.75	39°23'53.339"N	80°49'11.987"W	7380.50	146.906	1.53	-0.41	-1.48
13649.00	90.280	161.440	6301.22	7277.58	-6267.53	4058.34	1627011.04	329780.43	39°23'52.510"N	80°49'11.609"W	7466.73	147.076	0.54	0.48	0.24
13739.00	89.260	162.150	6301.58	7367.54	-6353.02	4086.46	1627039.16	329694.95	39°23'51.669"N	80°49'11.234"W	7553.81	147.250	1.38	-1.13	0.79
13828.00	89.420	160.970	6302.61	7456.50	-6437.44	4114.61	1627067.31	329610.53	39°23'50.839"N	80°49'10.860"W	7640.07	147.415	1.34	0.18	-1.33
13918.00	90.280	159.770	6302.84	7546.49	-6522.21	4144.85	1627097.54	329525.77	39°23'50.005"N	80°49'10.459"W	7727.80	147.564	1.64	0.96	-1.33
14008.00	91.230	158.230	6301.66	7636.47	-6606.22	4177.09	1627129.79	329441.76	39°23'49.180"N	80°49'10.033"W	7816.03	147.695	2.01	1.06	-1.71
14097.00	91.170	156.330	6299.79	7725.34	-6688.29	4211.46	1627164.15	329359.69	39°23'48.374"N	80°49'09.580"W	7903.77	147.802	2.14	-0.07	-2.13
14187.00	90.710	155.650	6298.32	7815.11	-6770.49	4248.07	1627200.76	329277.49	39°23'47.567"N	80°49'09.098"W	7992.85	147.894	0.91	-0.51	-0.76
14276.00	90.090	155.730	6297.70	7903.86	-6851.60	4284.71	1627237.40	329196.39	39°23'46.770"N	80°49'08.616"W	8081.04	147.980	0.70	-0.70	0.09
14366.00	90.400	156.030	6297.31	7993.62	-6933.74	4321.49	1627274.17	329114.26	39°23'45.964"N	80°49'08.132"W	8170.19	148.067	0.48	0.34	0.33
14455.00	90.180	157.150	6296.86	8082.46	-7015.41	4356.85	1627309.53	329032.59	39°23'45.162"N	80°49'07.667"W	8258.22	148.158	1.28	-0.25	1.26
14545.00	89.850	158.270	6296.84	8172.39	-7098.69	4390.99	1627343.67	328949.32	39°23'44.344"N	80°49'07.216"W	8346.98	148.261	1.30	-0.37	1.24
14635.00	89.880	159.230	6297.05	8262.37	-7182.57	4423.60	1627376.28	328865.45	39°23'43.520"N	80°49'06.785"W	8435.49	148.372	1.07	0.03	1.07
14724.00	90.220	161.400	6296.97	8351.36	-7266.36	4453.58	1627406.26	328781.66	39°23'42.696"N	80°49'06.388"W	8522.58	148.496	2.47	0.38	2.44
14814.00	90.400	161.790	6296.48	8441.32	-7351.75	4482.00	1627434.67	328696.27	39°23'41.856"N	80°49'06.010"W	8610.26	148.631	0.48	0.20	0.43
14904.00	90.220	160.740	6296.00	8531.30	-7436.98	4510.90	1627463.58	328611.04	39°23'41.018"N	80°49'05.626"W	8698.10	148.761	1.18	-0.20	-1.17
14993.00	90.460	161.330	6295.47	8620.28	-7521.15	4539.83	1627492.50	328526.88	39°23'40.191"N	80°49'05.242"W	8785.09	148.884	0.72	0.27	0.66



# Actual Wellpath Report

SHR-40H-HS AWP Proj: 16092'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## WELLPATH DATA (193 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]
15083.00	90.520	161.750	6294.70	8710.25	-7606.52	4568.32	1627521.00	328441.52	39°23'39.351"N	80°49'04.863"W	8872.92	149.012	0.47	0.07	0.47
15173.00	89.660	159.280	6294.56	8800.23	-7691.35	4598.34	1627551.01	328356.69	39°23'38.517"N	80°49'04.465"W	8961.12	149.127	2.91	-0.96	-2.74
15262.00	89.880	159.050	6294.91	8889.22	-7774.53	4630.00	1627582.66	328273.51	39°23'37.700"N	80°49'04.046"W	9048.77	149.225	0.36	0.25	-0.26
15352.00	89.600	159.710	6295.32	8979.22	-7858.77	4661.69	1627614.36	328189.28	39°23'36.872"N	80°49'03.627"W	9137.37	149.324	0.80	-0.31	0.73
15441.00	89.720	161.400	6295.85	9068.21	-7942.69	4691.32	1627643.98	328105.37	39°23'36.047"N	80°49'03.234"W	9224.68	149.432	1.90	0.13	1.90
15531.00	89.940	162.540	6296.12	9158.15	-8028.26	4719.17	1627671.84	328019.79	39°23'35.205"N	80°49'02.863"W	9312.55	149.552	1.29	0.24	1.27
15620.00	89.850	164.280	6296.28	9246.99	-8113.56	4744.58	1627697.25	327934.51	39°23'34.366"N	80°49'02.523"W	9398.98	149.682	1.96	-0.10	1.96
15710.00	90.180	163.270	6296.26	9336.80	-8199.97	4769.73	1627722.39	327848.10	39°23'33.515"N	80°49'02.187"W	9486.30	149.814	1.18	0.37	-1.12
15799.00	89.690	164.030	6296.36	9425.61	-8285.37	4794.78	1627747.44	327762.70	39°23'32.675"N	80°49'01.852"W	9572.74	149.942	1.02	-0.55	0.85
15889.00	89.970	165.340	6296.63	9515.31	-8372.17	4818.56	1627771.21	327675.90	39°23'31.821"N	80°49'01.533"W	9659.80	150.078	1.49	0.31	1.46
15979.00	90.340	163.860	6296.38	9605.02	-8458.94	4842.45	1627795.11	327589.14	39°23'30.967"N	80°49'01.212"W	9746.95	150.210	1.70	0.41	-1.64
16068.00	90.370	160.840	6295.83	9693.93	-8543.74	4869.44	1627822.09	327504.35	39°23'30.133"N	80°49'00.853"W	9833.96	150.319	3.39	0.03	-3.39
16092.00	90.370	160.840	6295.68	9717.93	-8566.41	4877.31	1627829.97	327481.68	39°23'29.910"N	80°49'00.748"W	9857.56	150.345	0.00	0.00	0.00



## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-40H-HS BHL Rev-2		6284.37	-8556.22	4909.38	1627862.03	327491.87	39°23'30.015"N	80°49'00.342"W	point
SHR-40H-HS LP Plat		6294.90	-192.95	1865.40	1624818.22	335854.68	39°24'52.222"N	80°49'40.683"W	point
SHR-40H-HS LP Rev-2		6300.00	-143.16	1847.28	1624800.10	335904.47	39°24'52.711"N	80°49'40.924"W	point
SHR-40 Pad LL		6599.25	-5.16	-30.33	1622922.59	336042.46	39°24'53.800"N	80°50'04.870"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: SHR-40H-HS AWB Ref Wellpath: SHR-40H-HS AWP Proj: 16092'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.40	2839.00	Generic gyro - northseeking (Standard)	01_MS Gyro <8-3/4"> (100'-2835')	SHR-40H-HS AWB
2839.00	6028.00	ISCWSA MWD, Rev. 2 (Standard)	02_SDI EM <8-3/4"> (2835')(2843'-6024')	SHR-40H-HS AWB
6028.00	16068.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-1/2"> (6028')(6083'-16068')	SHR-40H-HS AWB
16068.00	16092.00	Blind Drilling (std)	Projection to bit	SHR-40H-HS AWB

**REFERENCE WELLPATH IDENTIFICATION**

Operator	NOBLE ENERGY	Slot	Slot H
Area	Tyler County, WV	Well	SHR-40H-HS
Field	Tyler	Wellbore	SHR-40H-HS AWB
Facility	SHR-40 Pad		

**COMMENTS**

**Wellpath general comments**

API: 47-095-02210-0000  
 BHI Job #: 7314494  
 Rig: Precision 542  
 Duration: 6/23/2015-6/27/2015  
 MS Gyro <8-3/4"> (100'-2835')  
 SDI EM <8-3/4"> (2835')(2843'-6024')  
 BHI AT Curve <8-1/2"> (6028')(6083'-16068')  
 Projected MD at TD: 16092'



# NOBLE ENERGY



Location: Tyler County, WV  
 Field: Tyler  
 Facility: SHR-40 Pad

Slot: Slot H  
 Well: SHR-40H-HS  
 Wellbore: SHR-40H-HS.PWB

Field reference wellbore is SHR-40H-HS.PWB Rev-B.1  
 True vertical depths are referenced to Precision 542 (RKB)  
 Measured depths are referenced to Precision 542 (RKB)  
 Precision 542 (RKB) to Mean Sea Level: 789.35 feet  
 Mean Sea Level to Mad line (At Slot: Slot H): -789.35 feet  
 Coordinates are in feet referenced to Slot  
 Created by: eddanner on 30/June/2015

Location information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
SHR-40 Pad	1822922.569	336042.458	80°50'04.870"W
Slot	Local E (ft)	Grid East (US ft)	Longitude
Slot H	5.16	1822922.520	33°24'53.800"N
Precision 542 (RKB) to Mad line (At Slot: Slot H)	30.33	336047.820	80°50'04.485"W
Mean Sea Level to Mad line (At Slot: Slot H)	19.4ft	-789.35ft	
Precision 542 (RKB) to Mean Sea Level		789.35ft	

