



ACTUAL WELLPATH REPORT (CSV version)  
 Prepared by Baker Hughes  
 Software System: WellArchitect® 4.0.1

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 Office of Oil and Gas  
 FEB 20 2018  
 WV Department of Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator NOBLE ENERGY  
 Area Tyler County, WV  
 Field Tyler  
 Facility SHR-40 Pad  
 Slot Slot B  
 Well SHR-40B-HS STD1  
 Wellbore SHR-40B-HS STD1 AWB  
 Wellpath SHR-40B-HS STD1 AWP Proj: 16311'  
 Sidetrack SHR-40B-HS AWB at S452.00 MD

REPORT SETUP INFORMATION

Projection NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet  
 North Refe Grid  
 Scale 0.999947  
 Convergen 0.85° West  
 Software S WellArchitect® 4.0.1  
 User Edsaryar  
 Report Ger 11/Jun/2015 at 16:27  
 DataBase:/ WellArchitectEasternDB/ev1718.xml

WELLPATH Local North	Local East	Easting	Northing	Latitude	Longitude
{ft}	{ft}	[US ft]	[US ft]		
Slot Locati	-16.71	-10.28	1622912	336025.8	39°24'53.6 80°50'04.998"W
Facility Ref			1622923	336042.5	39°24'53.8 80°50'04.870"W
Field Refer			609601.2	0	38°23'48.7 84°21'09.765"W

WELLPATH DATUM

Calculation Minimum curvature  
 Horizontal Slot  
 Vertical Re Precision 542 (RKB)  
 MD Refere Precision 542 (RKB)  
 Field Vertic Mean Sea Level  
 Precision 5 788.90ft  
 Precision 5 788.90ft  
 Precision 5 19.40ft  
 Section Ori N 0.00, E 0.00 ft  
 Section Azi 160.00°

WELLPATH DATA † = interpolated/extrapolated station

	MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dis	Closure Dir	DLS	Build Rate	Turn Rate
	{ft}	[°]	[°]	{ft}	{ft}	{ft}	{ft}	[US ft]	[US ft]			{ft}	[°]	[°/100ft]	[°/100ft]	[°/100ft]
†	0	0	113.49	0	0	0	0	1622912	336025.8	39°24'53.6	80°50'04.9	0	0	0	0	0
SHL	19.4	0	113.49	19.4	0	0	0	1622912	336025.8	39°24'53.6	80°50'04.9	0	0	0	0	0
	104	0.17	113.49	104	0.09	-0.05	0.12	1622912	336025.7	39°24'53.6	80°50'04.9	0.13	113.49	0.2	0.2	0
	204	0.29	163.95	204	0.44	-0.35	0.32	1622913	336025.4	39°24'53.6	80°50'04.9	0.48	137.655	0.22	0.12	50.46
	304	0.54	155.14	304	1.16	-1.02	0.59	1622913	336024.7	39°24'53.6	80°50'04.9	1.18	150.063	0.26	0.25	-8.81
	404	0.47	153.08	403.99	2.04	-1.82	0.97	1622913	336023.9	39°24'53.6	80°50'04.9	2.06	151.823	0.07	-0.07	-2.06
	504	0.46	154.2	503.99	2.85	-2.54	1.33	1622914	336023.2	39°24'53.6	80°50'04.9	2.87	152.335	0.01	-0.01	1.12
	604	0.69	149.92	603.98	3.84	-3.43	1.81	1622914	336022.3	39°24'53.6	80°50'04.9	3.87	152.153	0.23	0.23	-4.28



	5545	29.52	76.63	5426.99	46.81	156.33	566.38	1623479	336182.1	39°24'55.2	80°49'57.8	587.56	74.569	3.42	-0.33	6.89				
	5589	30.14	79.92	5465.16	49.96	160.77	587.81	1623500	336186.5	39°24'55.3	80°49'57.5	609.4	74.703	3.98	1.41	7.48				
	5634	31.52	81.78	5503.8	54.31	164.43	610.58	1623523	336190.2	39°24'55.3	80°49'57.2	632.33	74.927	3.73	3.07	4.13				
	5679	32.95	81.68	5541.87	59.19	167.89	634.33	1623547	336193.6	39°24'55.3	80°49'56.9	656.17	75.175	3.18	3.18	-0.22				
	5724	35.13	80.45	5579.15	64.02	171.81	659.21	1623571	336197.6	39°24'55.4	80°49'56.6	681.23	75.392	5.08	4.84	-2.73				
	5769	35.16	78.81	5615.95	68.35	176.47	684.69	1623597	336202.2	39°24'55.4	80°49'56.3	707.06	75.547	2.1	0.07	-3.64				
	5813	35.13	78.64	5651.93	72.19	181.42	709.53	1623622	336207.2	39°24'55.5	80°49'55.9	732.35	75.657	0.23	-0.07	-0.39				
	5858	35.09	79.11	5688.74	76.19	186.41	734.92	1623647	336212.2	39°24'55.5	80°49'55.6	758.2	75.767	0.61	-0.09	1.04				
	5903	35.17	80.66	5725.54	80.63	190.96	760.41	1623673	336216.7	39°24'55.6	80°49'55.3	784.02	75.903	1.99	0.18	3.44				
	5948	35.21	81.02	5762.32	85.51	195.09	786.01	1623698	336220.8	39°24'55.6	80°49'55.0	809.86	76.061	0.47	0.09	0.8				
	5993	35.29	80.36	5799.07	90.33	199.29	811.64	1623724	336225	39°24'55.7	80°49'54.6	835.75	76.204	0.86	0.18	-1.47				
	6037	35.2	79.54	5835	94.71	203.72	836.64	1623749	336229.5	39°24'55.7	80°49'54.3	861.09	76.315	1.09	-0.2	-1.86				
	6082	35.21	79.18	5871.77	98.93	208.51	862.14	1623774	336234.3	39°24'55.8	80°49'54.0	887	76.404	0.46	0.02	-0.8				
KOP 2	6127	35.1	78.04	5908.57	102.81	213.63	887.54	1623800	336239.4	39°24'55.8	80°49'53.7	912.89	76.466	1.48	-0.24	-2.53				
	6171	35.65	81.5	5944.45	107.14	218.15	912.6	1623825	336243.9	39°24'55.9	80°49'53.4	938.31	76.556	4.72	1.25	7.86				
	6216	36.54	90.4	5980.83	114.43	219.99	938.98	1623851	336245.7	39°24'55.9	80°49'53.0	964.41	76.814	11.81	1.98	19.78				
	6261	38.61	100.12	6016.53	126.15	217.43	966.23	1623878	336243.2	39°24'55.9	80°49'52.7	990.39	77.318	13.94	4.6	21.6				
	6306	40.62	102.56	6051.19	141.08	211.78	994.35	1623907	336237.5	39°24'55.8	80°49'52.3	1016.66	77.977	5.65	4.47	5.42				
	6351	41.8	105.52	6085.05	157.68	204.58	1023.11	1623935	336230.3	39°24'55.8	80°49'52.0	1043.36	78.692	5.06	2.62	6.58				
	6395	43.29	111.04	6117.48	176.12	195.23	1051.33	1623964	336221	39°24'55.7	80°49'51.6	1069.3	79.48	9.13	3.39	12.55				
	6440	45.77	117.91	6149.57	198.23	182.14	1079.99	1623992	336207.9	39°24'55.5	80°49'51.2	1095.24	80.427	12.04	5.51	15.27				
	6485	49.68	123.74	6179.85	224.05	165.05	1108.53	1624021	336190.8	39°24'55.4	80°49'50.9	1120.75	81.531	12.93	8.69	12.96				
	6530	52.87	127.62	6208.01	253.04	144.56	1137.02	1624049	336170.3	39°24'55.2	80°49'50.5	1146.17	82.754	9.77	7.09	8.62				
	6575	53.67	129.29	6234.92	283.78	122.13	1165.26	1624078	336147.9	39°24'55.0	80°49'50.1	1171.64	84.017	3.47	1.78	3.71				
	6665	58.42	134.94	6285.2	349.75	72.04	1220.51	1624133	336097.8	39°24'54.5	80°49'49.4	1222.64	86.622	7.41	5.28	6.28				
	6754	65.3	140.94	6327.18	422.44	13.76	1272.92	1624185	336039.5	39°24'53.9	80°49'48.7	1273	89.381	9.75	7.73	6.74				
	6799	68.85	144.45	6344.71	462	-19.21	1298.02	1624210	336006.5	39°24'53.6	80°49'48.4	1298.16	90.848	10.67	7.89	7.8	Top perf	Bottom pe LL	# of Stgs	
	6844	73.02	147.63	6359.41	503.26	-54.48	1321.76	1624234	335971.3	39°24'53.2	80°49'48.1	1322.88	92.36	11.42	9.27	7.07	6912	16311	9399	46.995
	6889	77.25	150.67	6370.96	545.97	-91.81	1344.04	1624256	335933.9	39°24'52.9	80°49'47.8	1347.18	93.908	11.44	9.4	6.76				
	6934	80.29	153.45	6379.72	589.67	-130.8	1364.72	1624277	335895	39°24'52.5	80°49'47.5	1370.97	95.475	9.07	6.76	6.18				
	6979	85.62	158.12	6385.24	634.18	-171.51	1383.01	1624295	335854.3	39°24'52.1	80°49'47.3	1393.61	97.069	15.69	11.84	10.38				
LP	7023	90.89	159.49	6386.58	678.14	-212.5	1398.91	1624311	335813.3	39°24'51.7	80°49'47.1	1414.95	98.637	12.37	11.98	3.11				
	7113	91.05	160.42	6385.06	768.12	-297.03	1429.75	1624342	335728.7	39°24'50.9	80°49'46.7	1460.28	101.736	1.05	0.18	1.03				
	7203	90.4	161.47	6383.92	858.1	-382.09	1459.13	1624371	335643.7	39°24'50.0	80°49'46.3	1508.33	104.674	1.37	-0.72	1.17				
	7292	90.34	160.21	6383.34	947.09	-466.16	1488.34	1624401	335559.6	39°24'49.2	80°49'45.9	1559.63	107.391	1.42	-0.07	-1.42				
	7382	90.22	159.3	6382.9	1037.09	-550.6	1519.48	1624432	335475.2	39°24'48.4	80°49'45.5	1616.16	109.919	1.02	-0.13	-1.01				
	7471	90.22	154.24	6382.56	1125.92	-632.36	1554.57	1624467	335393.4	39°24'47.6	80°49'45.0	1678.26	112.135	5.69	0	-5.69				
	7561	90.03	151.64	6382.36	1215.23	-712.5	1595.51	1624508	335313.3	39°24'46.8	80°49'44.5	1747.37	114.064	2.9	-0.21	-2.89				
	7650	89.66	157.06	6382.61	1303.76	-792.7	1634.02	1624546	335233.1	39°24'46.0	80°49'44.0	1816.15	115.879	6.1	-0.42	6.09				
	7740	89.54	162.87	6383.23	1393.72	-877.21	1664.84	1624577	335148.6	39°24'45.2	80°49'43.6	1881.81	117.785	6.46	-0.13	6.46				
	7830	89.72	163.35	6383.82	1483.58	-963.33	1690.99	1624603	335062.5	39°24'44.3	80°49'43.2	1946.14	119.669	0.57	0.2	0.53				
	7919	89.75	163.72	6384.23	1572.41	-1048.68	1716.22	1624628	334977.1	39°24'43.5	80°49'42.9	2011.25	121.427	0.42	0.03	0.42				
	8009	90.34	162.24	6384.16	1662.29	-1134.73	1742.56	1624655	334891.1	39°24'42.6	80°49'42.5	2079.45	123.072	1.77	0.66	-1.64				
	8098	90.18	162.01	6383.75	1751.23	-1219.44	1769.88	1624682	334806.4	39°24'41.8	80°49'42.2	2149.3	124.567	0.31	-0.18	-0.26				
	8188	90.34	163.54	6383.34	1841.12	-1305.4	1796.53	1624709	334720.4	39°24'40.9	80°49'41.8	2220.71	126.003	1.71	0.18	1.7				
	8278	90.34	164.08	6382.81	1930.92	-1391.82	1821.62	1624734	334634	39°24'40.1	80°49'41.5	2292.48	127.382	0.6	0	0.6				
	8367	90.12	163.28	6382.45	2019.73	-1477.24	1846.63	1624759	334548.6	39°24'39.3	80°49'41.1	2364.8	128.659	0.93	-0.25	-0.9				
	8457	90.15	160.98	6382.24	2109.66	-1562.89	1874.24	1624786	334463	39°24'38.4	80°49'40.8	2440.37	129.824	2.56	0.03	-2.56				
	8546	90.03	158.54	6382.1	2198.66	-1646.39	1905.03	1624817	334379.5	39°24'37.6	80°49'40.4	2517.88	130.835	2.74	-0.13	-2.74				
	8636	89.97	158.42	6382.1	2288.62	-1730.11	1938.04	1624850	334295.7	39°24'36.8	80°49'39.9	2597.94	131.756	0.15	-0.07	-0.13				
	8725	90.09	159.23	6382.05	2377.6	-1813.1	1970.19	1624882	334212.8	39°24'36.0	80°49'39.5	2677.5	132.622	0.92	0.13	0.91				
	8815	90.12	158.96	6381.89	2467.59	-1897.18	2002.31	1624915	334128.7	39°24'35.1	80°49'39.1	2758.35	133.456	0.3	0.03	-0.3				
	8904	90.15	159.19	6381.68	2556.58	-1980.31	2034.09	1624946	334045.6	39°24'34.3	80°49'38.7	2838.86	134.232	0.26	0.03	0.26				
	8994	90.18	162.13	6381.42	2646.57	-2065.22	2063.89	1624976	333960.6	39°24'33.5	80°49'38.3	2919.72	135.018	3.27	0.03	3.27				
	9084	90.18	162.34	6381.14	2736.5	-2150.93	2091.35	1625004	333874.9	39°24'32.6	80°49'37.9	3000.04	135.805	0.23	0	0.23				

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9173	90.12	160.74	6380.9	2825.46	-2235.35	2119.53	1625032	333790.5	39*24*31.8	80*49*37.5	3080.45	136.523	1.8	-0.07	-1.8
9262	90.06	160.11	6380.7	2914.46	-2319.2	2149.33	1625062	333706.7	39*24*31.0	80*49*37.1	3162.03	137.177	0.71	-0.07	-0.71
9352	90.15	158.83	6380.6	3004.45	-2403.48	2180.92	1625093	333622.4	39*24*30.2	80*49*36.7	3245.48	137.779	1.43	0.1	-1.42
9441	90.09	159.36	6380.41	3093.44	-2486.62	2212.67	1625125	333539.3	39*24*29.3	80*49*36.3	3328.55	138.356	0.6	-0.07	0.6
9531	90.12	160.11	6380.25	3183.44	-2571.77	2243.84	1625156	333454.8	39*24*28.5	80*49*35.9	3412.5	138.888	0.83	0.03	0.83
9620	90.03	160.22	6380.13	3272.44	-2654.07	2274.04	1625186	333371.1	39*24*27.7	80*49*35.5	3495.58	139.417	0.16	-0.1	0.12
9710	89.94	160.71	6380.16	3362.44	-2739.59	2304.14	1625216	333286.3	39*24*26.8	80*49*35.1	3579.72	139.934	0.55	-0.1	0.54
9799	90.43	162.62	6379.87	3451.39	-2824.07	2332.13	1625244	333201.8	39*24*26.0	80*49*34.7	3662.54	140.45	2.22	0.55	2.15
9889	90.46	161.76	6379.17	3541.32	-2909.75	2359.66	1625272	333116.2	39*24*25.2	80*49*34.3	3746.28	140.96	0.96	0.03	-0.96
9978	90.28	158.43	6378.59	3630.31	-2993.62	2389.96	1625302	333032.5	39*24*24.4	80*49*33.9	3830.46	141.396	1.41	-0.2	-3.74
10068	90.09	156.51	6378.3	3720.22	-3076.55	2424.94	1625337	332949.4	39*24*23.5	80*49*33.5	3917.02	141.761	2.14	-0.21	-2.13
10157	89.94	154.95	6378.28	3808.97	-3157.68	2461.02	1625373	332868.2	39*24*22.7	80*49*33.0	4003.44	142.088	1.76	-0.17	-1.75
10247	89.91	157.49	6378.4	3898.76	-3240.03	2497.31	1625409	332785.9	39*24*21.9	80*49*32.5	4090.76	142.376	2.82	-0.03	2.82
10336	89.91	160.95	6378.54	3987.74	-3323.23	2528.88	1625441	332702.7	39*24*21.1	80*49*32.1	4176.01	142.73	3.89	0	3.89
10426	90.31	161.56	6378.37	4077.72	-3408.45	2557.8	1625470	332617.5	39*24*20.3	80*49*31.7	4261.44	143.114	0.81	0.44	0.68
10515	90.4	163.26	6377.81	4166.64	-3493.29	2584.69	1625497	332532.7	39*24*19.4	80*49*31.4	4345.54	143.502	1.91	0.1	1.91
10605	90.49	162.44	6377.11	4256.52	-3579.28	2611.23	1625523	332446.7	39*24*18.6	80*49*31.0	4430.55	143.888	0.92	0.1	-0.91
10695	90.06	158.97	6376.68	4346.5	-3664.21	2640.97	1625553	332361.7	39*24*17.8	80*49*30.6	4516.77	144.218	3.88	-0.48	-3.86
10784	90.03	156.02	6376.61	4435.4	-3749.43	2673.03	1625587	332279.5	39*24*17.0	80*49*30.2	4603.42	144.472	3.31	-0.03	-3.31
10874	89.66	156.18	6376.86	4525.19	-3828.71	2711.49	1625624	332197.3	39*24*16.1	80*49*29.7	4691.61	144.694	4.33	0.45	4.33
10963	89.69	160.03	6377.36	4614.13	-3911.27	2744.67	1625657	332114.7	39*24*15.3	80*49*29.2	4778.21	144.941	4.33	0.03	4.33
11053	89.66	162.69	6377.92	4704.06	-3996.54	2773.44	1625686	332029.4	39*24*14.5	80*49*28.5	4864.6	145.241	2.96	-0.1	2.96
11142	89.63	160.23	6377.58	4793.09	-4080.92	2801.73	1625714	331945.1	39*24*13.7	80*49*28.5	4950.11	145.529	2.76	0.03	-2.76
11232	90.18	160.43	6378.67	4883.05	-4165.66	2832.03	1625744	331860.3	39*24*12.8	80*49*28.1	5037.17	145.79	0.65	0.61	0.22
11321	90.34	160.74	6378.26	4972.05	-4249.6	2861.61	1625774	331776.4	39*24*12.0	80*49*27.7	5123.27	146.044	0.39	0.18	0.35
11411	90.25	161.33	6377.8	5062.03	-4334.04	2891.86	1625803	331691.3	39*24*11.2	80*49*27.3	5210.26	146.3	0.66	-0.1	0.66
11501	90.03	161.64	6377.58	5152	-4420.06	2919.44	1625832	331606.9	39*24*10.3	80*49*26.9	5297.17	146.555	0.42	-0.24	0.34
11591	89.97	160.14	6377.58	5241.99	-4505.09	2948.9	1625861	331520.9	39*24*9.5	80*49*26.5	5384.41	146.792	1.67	-0.07	-1.67
11680	90.03	156.99	6377.58	5330.95	-4587.93	2981.42	1625894	331438.1	39*24*8.7	80*49*26.1	5471.56	146.983	3.54	0.07	-3.54
11770	90	153.49	6377.56	5420.62	-4669.64	3019.11	1625921	331356.4	39*24*7.9	80*49*25.6	5560.03	147.116	3.89	-0.03	-3.89
11859	89.88	154.09	6377.65	5509.1	-4749.49	3058.44	1625951	331276.5	39*24*7.1	80*49*25.1	5649.03	147.221	0.69	-0.13	0.67
11949	89.97	157.41	6377.77	5598.84	-4831.54	3095.38	1626008	331194.5	39*24*6.3	80*49*24.6	5738.04	147.354	3.69	0.1	3.69
12038	89.57	161.36	6378.12	5687.82	-4914.82	3126.71	1626039	331111.2	39*24*5.5	80*49*24.2	5825.1	147.536	4.46	-0.45	4.44
12128	89.54	159.93	6379.49	5777.8	-4999.93	3155.95	1626068	331026.1	39*24*4.6	80*49*23.8	5912.65	147.74	0.72	0	-0.72
12217	89.94	164.24	6379.9	5866.79	-5083.73	3185.95	1626098	330942.3	39*24*3.8	80*49*23.4	5999.54	147.925	0.88	-0.03	-0.88
12307	89.94	164.24	6379.9	5956.71	-5169.35	3213.6	1626126	330856.7	39*24*3.0	80*49*23.0	6086.82	148.132	4.81	0.44	4.79
12397	89.94	165.19	6379.99	6046.41	-5256.16	3237.33	1626149	330769.9	39*24*2.2	80*49*22.7	6173.13	148.371	1.06	0	1.06
12486	89.85	164.18	6380.16	6135.11	-5342	3260.84	1626173	330684.9	39*24*1.3	80*49*22.4	6258.59	148.599	1.14	-0.1	-1.13
12576	89.75	161.24	6380.47	6225	-5427.92	3287.58	1626200	330598.1	39*24*0.4	80*49*22.0	6345.91	148.798	3.27	-0.11	-3.27
12666	90.25	160.92	6380.47	6314.98	-5513.06	3316.76	1626229	330513	39*23*59.6	80*49*21.7	6433.87	148.968	0.66	0.56	-0.36
12755	90.12	161.24	6380.18	6403.96	-5597.25	3345.62	1626258	330428.8	39*23*58.8	80*49*21.3	6520.92	149.132	0.39	-0.15	0.36
12845	90.25	161.99	6379.89	6493.93	-5682.66	3374.01	1626286	330343.4	39*23*57.9	80*49*20.9	6608.82	149.301	0.85	0.14	0.83
12934	90.12	156.97	6379.61	6582.9	-5765.96	3405.19	1626317	330260.1	39*23*57.1	80*49*20.5	6696.41	149.455	5.64	-0.15	-5.64
13024	90.15	155.23	6379.39	6672.68	-5848.26	3441.66	1626344	330177.8	39*23*56.3	80*49*20.1	6785.8	149.524	1.93	0.03	-1.93
13114	89.78	153.24	6379.45	6762.22	-5929.31	3480.77	1626373	330096.8	39*23*55.5	80*49*19.5	6875.5	149.585	2.25	-0.41	-2.21
13203	89.78	157.7	6379.79	6850.92	-6010.26	3517.72	1626400	330015.8	39*23*54.7	80*49*19.0	6964.01	149.66	5.01	0	5.01
13293	90.09	163.5	6379.89	6940.88	-6090.11	3554.76	1626428	329931.6	39*23*53.9	80*49*18.6	7052.32	149.799	6.45	0.34	6.44
13382	89.69	163.6	6380.06	7029.71	-6180.45	3592.45	1626455	329848.5	39*23*53.0	80*49*18.3	7138.84	149.969	0.46	-0.45	0.11
13472	90.22	161.95	6380.13	7119.6	-6266.43	3599.45	1626482	329764.8	39*23*52.2	80*49*17.9	7226.63	150.127	1.93	0.59	-1.83
13562	90.28	159.41	6379.74	7209.58	-6351.35	3629.22	1626511	329674.8	39*23*51.3	80*49*17.5	7315.11	150.256	2.82	0.07	-2.82
13651	90.18	158	6379.38	7298.56	-6434.27	3664.21	1626540	329591.8	39*23*50.5	80*49*17.1	7403.16	150.357	1.59	-0.11	-1.58
13740	90.37	158.94	6378.96	7387.55	-6517.06	3694.54	1626566	329509.1	39*23*49.7	80*49*16.7	7491.28	150.453	1.08	0.21	1.06
13830	90.46	162.45	6378.3	7477.5	-6601.98	3723.95	1626593	329424.1	39*23*48.9	80*49*16.3	7579.84	150.574	3.9	0.1	3.9
13919	90.43	163.01	6377.61	7566.4	-6686.97	3750.37	1626622	329339.2	39*23*48.0	80*49*15.9	7666.87	150.714	0.63	-0.03	0.63
14009	90.18	160.6	6377.13	7656.34	-6772.46	3778.48	1626651	329253.7	39*23*47.2	80*49*15.5	7755.2	150.842	2.69	-0.28	-2.68

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14099	90.18	161.3	6376.85	7746.33	-6857.53	3807.85	1626720	329168.6	39°23'46.4	80°49'15.2	7843.81	150.957	0.78	0	0.78	
14189	90.22	162.4	6376.54	7836.28	-6943.05	3835.89	1626748	329083.1	39°23'45.5	80°49'14.8	7932.21	151.08	1.22	0.04	1.22	
14278	90.25	159.92	6376.17	7925.26	-7027.27	3864.62	1626777	328998.9	39°23'44.7	80°49'14.4	8019.84	151.192	2.79	0.03	-2.79	
14367	90.31	157.22	6375.74	8014.22	-7110.11	3897.14	1626809	328916	39°23'43.9	80°49'14.0	8108.11	151.272	3.03	0.07	-3.03	
14457	90.18	158.85	6375.35	8104.16	-7193.58	3930.8	1626843	328832.6	39°23'43.1	80°49'13.5	8197.48	151.346	1.82	-0.14	1.81	
14547	90.18	159.49	6375.07	8194.15	-7277.69	3962.8	1626875	328748.5	39°23'42.2	80°49'13.1	8286.65	151.431	0.71	0	0.71	
14636	90.34	159.45	6374.67	8283.15	-7361.04	3994.01	1626906	328665.1	39°23'41.4	80°49'12.7	8374.79	151.516	0.19	0.18	-0.04	
14726	90.31	159.59	6374.16	8373.14	-7445.35	4025.5	1626938	328580.8	39°23'40.6	80°49'12.3	8463.92	151.601	0.16	-0.03	0.16	
14816	90.28	160.36	6373.69	8463.14	-7529.91	4056.32	1626968	328496.3	39°23'39.8	80°49'11.9	8552.97	151.689	0.86	-0.03	0.86	
14905	90.22	160.11	6373.3	8552.14	-7613.66	4086.42	1626999	328412.5	39°23'38.9	80°49'11.5	8640.99	151.777	0.29	-0.07	-0.28	
14995	89.97	157.51	6373.15	8642.11	-7697.57	4118.95	1627031	328328.6	39°23'38.1	80°49'11.0	8730.31	151.849	2.9	-0.28	-2.89	
15085	90.06	155.86	6373.13	8731.96	-7780.22	4154.57	1627067	328246	39°23'37.3	80°49'10.6	8819.99	151.898	1.84	0.1	-1.83	
15174	89.85	153.02	6373.2	8820.53	-7860.5	4192.96	1627105	328165.7	39°23'36.5	80°49'10.1	8908.89	151.924	3.2	-0.24	-3.19	
15264	89.85	158.47	6373.44	8910.25	-7942.52	4229.92	1627142	328083.7	39°23'35.7	80°49'09.6	8998.66	151.962	6.06	0	6.06	
15353	89.91	161.66	6373.62	8999.24	-8026.18	4260.26	1627172	328000	39°23'34.9	80°49'09.2	9086.77	152.041	3.58	0.07	3.58	
15443	89.91	163.46	6373.76	9089.14	-8112.04	4287.23	1627199	327914.2	39°23'34.0	80°49'08.8	9175.27	152.143	2	0	2	
15533	90.09	160.79	6373.76	9179.07	-8197.69	4314.85	1627227	327828.5	39°23'33.2	80°49'08.4	9263.91	152.24	2.97	0.2	-2.97	
15622	90.28	156.23	6373.48	9268.02	-8280.48	4347.45	1627260	327745.7	39°23'32.4	80°49'08.0	9352.36	152.299	5.13	0.21	-5.12	
15712	90.28	161.02	6373.04	9357.97	-8364.26	4380.24	1627292	327661.9	39°23'31.6	80°49'07.6	9441.79	152.36	5.32	0	5.32	
15801	90.31	165.04	6372.58	9446.82	-8449.37	4406.21	1627318	327576.8	39°23'30.7	80°49'07.2	9529.25	152.459	4.52	0.03	4.52	
15891	90.34	163.74	6372.07	9536.55	-8536.04	4430.43	1627343	327490.2	39°23'29.9	80°49'06.9	9617.32	152.57	1.44	0.03	-1.44	
15980	90.03	159.12	6371.78	9625.5	-8620.39	4458.77	1627371	327405.8	39°23'29.0	80°49'06.5	9705.24	152.65	5.2	-0.35	-5.19	
16070	89.88	159.67	6371.85	9715.5	-8704.63	4490.44	1627403	327321.6	39°23'28.2	80°49'06.1	9794.62	152.712	0.63	-0.17	0.61	
16160	90.03	159.41	6371.92	9805.49	-8788.95	4521.9	1627434	327237.3	39°23'27.4	80°49'05.7	9883.99	152.774	0.33	0.17	-0.29	
16249	90.06	159.86	6371.85	9894.49	-8872.39	4552.87	1627465	327153.9	39°23'26.6	80°49'05.3	9972.36	152.835	0.51	0.03	0.51	
16286	89.88	160.67	6371.87	9931.49	-8907.21	4565.36	1627477	327119	39°23'26.2	80°49'05.1	10009.05	152.863	2.24	-0.49	2.19	
BHL	16311	89.88	160.67	6371.92	9956.49	-8930.81	4573.64	1627486	327095.4	39°23'26.0	80°49'05.0	10033.82	152.882	0	0	0

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	Comment
SHR-40B-HS BHL Rev-3		6373.86	-8931.97	4569.64	1627482	327094.3	39°23'26.0	80°49'05.1	point	
SHR-40B-HS LP Plat		6376.9	-232.3	1403.23	1624315	335793.5	39°24'51.5	80°49'47.0	point	
SHR-40B-HS LP Rev-3		6390	-239.81	1405.96	1624318	335786	39°24'51.4	80°49'47.0	point	
SHR-40 Pad LL		6599.4	16.71	10.28	1622923	336042.5	39°24'53.8	80°50'04.8	polygon	

WELLPATH COMPOSITION Ref Wellbore: SHR-40B-HS ST01 AWB Ref Wellpath: SHR-40B-HS ST01 AWP Proj: 16311'

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
O1_MS Gyr	19.4	3629		Generic gyro - northseeking (Standard)
O2_SDI MV	3629	5364		ISCWSA MWD, Rev. 2 (Standard)
O3_BHI AT	5364	16286		NaviTrak (AT Curve Short Spaced)
Projection	16286	16311		Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-095-02204-0100

BHI Job #: 7278210

Rig: Precision 542

Duration: 6/3/2015-6/8/2015

MS Gyro <8-3/4> (100'-3625')"

SDI MWD <8-3/4> (3625')(3680'-5980')"

BHI AT Curve <8-3/4> (5364')(5372'-16286')"

Projected MD at TD: 16311'