

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes
Software System: WellArchitect® 4.0.1

REFERENCE WELLPATH IDENTIFICATION

Operator NOBLE ENERGY
Area Tyler County, WV
Field Tyler
Facility SHR-3 Pad
Slot Slot D
Well SHR-3D-HS
Wellbore SHR-3D-HS AWB
Wellpath SHR-3D-HS AWP Proj: 15610'
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Refe Grid
Scale 0.999948
Convergen 0.85° West
Software S WellArchitect® 4.0.1
User Edsaryar
Report Ger 06/Apr/2015 at 13:43
DataBase/! WellArchitectEasternDB/ev89.xml

WELLPATH	Local North	Local East	Easting	Northing	Latitude	Longitude
	[ft]	[ft]	[US ft]	[US ft]		
Slot Locati	-5.93	59.57	1623358	335737.5	39°24'50.8	80°49'59.270"W
Facility Ref			1623298	335743.4	39°24'50.9	80°50'00.030"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 S 770.57ft
Precision S 770.57ft
Precision S 18.50ft
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	265.67	0	0	0	0	1623358	335737.5	39°24'50.8	80°49'59.2	0	0	0	0	0
18.5	0	265.67	18.5	0	0	0	1623358	335737.5	39°24'50.8	80°49'59.2	0	0	0	0	0
118.5	0.53	265.67	118.5	-0.12	-0.03	-0.46	1623357	335737.5	39°24'50.8	80°49'59.2	0.46	265.67	0.53	0.53	0
218.5	0.39	121.24	218.5	0.02	-0.25	-0.63	1623357	335737.3	39°24'50.8	80°49'59.2	0.68	248.686	0.88	-0.14	-144.43
318.5	0.35	41.9	318.5	0.14	-0.2	-0.14	1623357	335737.3	39°24'50.8	80°49'59.2	0.24	214.905	0.47	-0.04	-79.34
418.5	0.19	172.52	418.5	0.16	-0.13	0.09	1623358	335737.4	39°24'50.8	80°49'59.2	0.16	146.085	0.5	-0.16	130.62
518.5	0.49	194.29	518.49	0.67	-0.71	0.01	1623358	335736.8	39°24'50.8	80°49'59.2	0.71	179.583	0.32	0.3	21.77
618.5	0.39	157.88	618.49	1.36	-1.44	0.03	1623358	335736.1	39°24'50.8	80°49'59.2	1.44	178.895	0.29	-0.1	-36.41

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718.5	0.15	219.07	718.49	1.77	-1.86	0.07	1623358	335735.7	39*24*50.8	80*49*59.2	1.86	177.736	0.34	-0.24	61.19
818.5	0.43	225.64	818.49	1.99	-2.22	-0.28	1623357	335735.3	39*24*50.8	80*49*59.2	2.24	187.115	0.28	0.28	6.57
918.5	0.74	163.22	918.48	2.79	-3.1	-0.36	1623357	335734.4	39*24*50.8	80*49*59.2	3.12	186.604	0.66	0.31	-62.42
1018.5	0.68	143.26	1018.48	4.01	-4.2	0.18	1623358	335733.3	39*24*50.8	80*49*59.2	4.2	177.514	0.25	-0.06	-19.96
1118.5	0.47	135.68	1118.47	4.95	-4.97	0.82	1623358	335732.5	39*24*50.8	80*49*59.2	5.03	170.581	0.22	-0.21	-7.58
1218.5	0.57	169.94	1218.47	5.81	-5.75	1.2	1623359	335731.8	39*24*50.7	80*49*59.2	5.87	168.236	0.32	0.1	34.26
1318.5	0.32	181.71	1318.46	6.56	-6.52	1.28	1623359	335731.1	39*24*50.7	80*49*59.2	6.64	168.975	0.26	-0.25	11.77
1418.5	0.48	210.04	1418.46	7.09	-7.16	1.06	1623359	335730.4	39*24*50.7	80*49*59.2	7.24	171.596	0.25	0.16	28.33
1518.5	0.58	191.04	1518.46	7.79	-8.02	0.75	1623358	335729.5	39*24*50.7	80*49*59.2	8.05	174.649	0.2	0.1	-1.9
1618.5	0.54	178.79	1618.45	8.67	-8.99	0.66	1623358	335728.5	39*24*50.7	80*49*59.2	9.01	175.774	0.13	-0.04	-12.25
1718.5	0.52	178.01	1718.45	9.55	-9.91	0.69	1623358	335727.6	39*24*50.7	80*49*59.2	9.93	176.019	0.02	-0.02	-0.78
1818.5	0.51	173.97	1818.44	10.41	-10.81	0.75	1623358	335726.7	39*24*50.7	80*49*59.2	10.83	176.018	0.04	-0.01	-4.04
1918.5	0.54	162.81	1918.44	11.32	-11.7	0.94	1623359	335725.8	39*24*50.7	80*49*59.2	11.74	175.415	0.11	0.03	-11.16
2018.5	0.39	204.49	2018.44	12.03	-12.46	0.94	1623359	335725.1	39*24*50.7	80*49*59.2	12.91	175.702	0.36	-0.15	41.68
2118.5	0.36	245.72	2118.44	12.29	-12.9	0.51	1623358	335724.6	39*24*50.7	80*49*59.2	12.91	177.74	0.27	-0.03	41.23
2221	0.26	224.39	2220.93	12.42	-13.2	0.05	1623358	335724.3	39*24*50.7	80*49*59.2	13.2	179.771	0.15	-0.1	-20.81
2264	0.31	201.61	2263.93	12.55	-13.38	-0.06	1623358	335724.1	39*24*50.7	80*49*59.2	13.38	180.249	0.12	-0.12	-52.98
2354	0.27	248.22	2353.93	12.74	-13.68	-0.34	1623357	335723.8	39*24*50.7	80*49*59.2	13.99	181.444	0.26	-0.04	51.79
2444	0.28	179.77	2443.93	12.95	-13.98	-0.54	1623357	335723.5	39*24*50.7	80*49*59.2	14.29	182.216	0.01	-0.01	-76.06
2533	0.12	207.34	2532.93	13.22	-14.28	-0.58	1623357	335723.2	39*24*50.7	80*49*59.2	14.61	182.337	0.2	-0.18	30.98
2633	0.25	245.25	2622.93	13.3	-14.44	-0.8	1623357	335723.1	39*24*50.7	80*49*59.2	14.47	183.187	0.19	0.14	42.12
2713	0.22	258.93	2712.93	13.29	-14.56	-1.15	1623356	335723.1	39*24*50.7	80*49*59.2	14.61	184.525	0.07	0.03	15.2
2802	0.17	229.73	2801.93	13.31	-14.68	-1.42	1623356	335722.8	39*24*50.7	80*49*59.2	14.75	185.528	0.12	-0.06	-32.81
2892	0.38	184.56	2891.93	13.63	-15.06	-1.55	1623356	335722.5	39*24*50.7	80*49*59.2	15.14	185.861	0.32	0.23	-50.19
2981	0.28	163.61	2980.93	14.11	-15.57	-1.51	1623356	335722.3	39*24*50.6	80*49*59.2	15.64	185.535	0.17	-0.11	-23.54
3071	0.34	184.02	3070.93	14.57	-16.04	-1.47	1623356	335721.5	39*24*50.6	80*49*59.2	16.11	185.218	0.14	0.07	22.68
3161	0.32	149.46	3160.92	15.06	-16.53	-1.36	1623356	335721.5	39*24*50.6	80*49*59.2	16.58	184.691	0.22	-0.02	-38.4
3251	0.47	177.7	3250.92	15.66	-17.11	-1.21	1623356	335720.4	39*24*50.6	80*49*59.2	17.15	184.057	0.27	0.17	31.38
3340	0.44	186.26	3339.92	16.32	-17.82	-1.24	1623356	335719.7	39*24*50.6	80*49*59.2	17.86	183.969	0.08	-0.03	9.62
3430	0.43	198.48	3429.92	16.89	-18.48	-1.38	1623356	335719.3	39*24*50.6	80*49*59.2	18.53	184.274	0.1	-0.01	13.58
3519	0.5	202.55	3518.91	17.44	-19.15	-1.64	1623356	335718.4	39*24*50.6	80*49*59.2	19.22	184.881	0.09	0.08	4.57
3609	0.31	200.67	3608.91	17.91	-19.74	-1.87	1623356	335717.8	39*24*50.6	80*49*59.2	19.83	185.417	0.21	-0.21	-2.09
3698	1.24	35.12	3697.91	17.55	-19.18	-1.4	1623356	335718.3	39*24*50.6	80*49*59.2	19.23	184.184	1.73	1.04	-186.01
3788	1.53	35.78	3787.88	16.31	-17.41	-0.14	1623357	335720.1	39*24*50.6	80*49*59.2	17.41	180.462	0.32	0.73	0.73
3877	0.85	36.1	3876.86	15.28	-15.91	0.94	1623359	335721.6	39*24*50.6	80*49*59.2	15.94	176.608	0.76	-0.76	0.36
3967	0.77	25.36	3966.85	14.48	-14.83	1.6	1623359	335722.7	39*24*50.7	80*49*59.2	14.91	173.858	0.19	-0.09	-11.93
4056	0.33	356.47	4055.85	13.81	-14.03	1.84	1623359	335723.5	39*24*50.7	80*49*59.2	14.15	172.546	0.57	-0.49	-32.46
4146	0.37	15	4145.84	13.33	-13.49	1.9	1623360	335724.3	39*24*50.7	80*49*59.2	13.62	172.004	0.13	0.04	20.59
4236	0.23	326.8	4235.84	12.91	-13.06	1.87	1623359	335724.5	39*24*50.7	80*49*59.2	13.19	171.845	0.31	-0.16	-53.56
4325	0.07	185.21	4324.84	12.79	-12.94	1.77	1623359	335724.6	39*24*50.7	80*49*59.2	13.09	172.232	0.32	-0.18	-159.09
4415	0.25	294.91	4414.84	12.7	-12.84	1.59	1623359	335724.6	39*24*50.7	80*49*59.2	13.03	173.012	0.31	0.2	121.89
4505	0.22	316.21	4504.84	12.4	-12.73	1.29	1623359	335724.8	39*24*50.7	80*49*59.2	12.79	174.223	0.1	-0.03	23.67
4594	0.04	5.18	4593.84	12.22	-12.58	1.17	1623359	335724.9	39*24*50.7	80*49*59.2	12.63	174.673	0.22	-0.2	55.02
4684	0.28	210.16	4683.84	12.33	-12.73	1.06	1623359	335724.8	39*24*50.7	80*49*59.2	12.78	175.422	0.35	0.27	-172.24
4773	0	353.27	4772.84	12.47	-12.92	0.96	1623359	335724.6	39*24*50.7	80*49*59.2	12.96	175.771	0.31	-0.31	0
4863	2.45	32.28	4862.81	11.29	-11.3	1.98	1623360	335726.2	39*24*50.7	80*49*59.2	11.47	170.042	2.72	2.72	0
4952	5.58	34.69	4951.58	7.63	-6.13	5.46	1623363	335731.4	39*24*50.7	80*49*59.1	8.21	138.287	3.52	3.52	2.71
5009	8	35.77	5008.18	3.79	-0.63	9.36	1623367	335736.9	39*24*50.8	80*49*59.1	9.38	93.855	4.25	4.25	1.89
5097	12.51	34.63	5094.75	-5.17	12.19	18.36	1623376	335749.7	39*24*50.9	80*49*59.0	22.04	56.424	5.13	5.12	-1.3
5140	15.84	37.47	5136.44	-11.03	20.68	24.58	1623382	335758.2	39*24*51.0	80*49*58.9	32.12	49.923	7.91	7.74	6.6
5230	19.27	39.87	5222.23	-45.78	65.54	60.84	1623399	335779.3	39*24*51.2	80*49*58.7	58.93	44.823	3.89	3.81	2.67
5320	20.42	38.38	5306.89	-50.78	61.83	64.84	1623418	335803.1	39*24*51.5	80*49*58.5	89.43	42.872	3.89	3.81	1.66
5409	22.71	37	5389.65	-58.28	91.43	80.83	1623438	335828.9	39*24*51.7	80*49*58.2	122.04	41.476	2.64	2.57	-1.55
5498	22.85	34.92	5471.71	-77.56	119.32	101.06	1623459	335856.8	39*24*52.0	80*49*58.0	156.37	40.262	0.92	0.16	-2.34
5588	22.76	35.06	5554.68	-97.58	147.9	121.06	1623479	335885.4	39*24*52.3	80*49*57.7	191.13	39.301	0.12	-0.1	0.16

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5678	22.95	39.34	5637.62	-116.5	175.73	142.19	1623500	335913.2	39°24'52.6	80°49'57.4	226.04	38.977	1.86				
5767	22.96	58.82	5719.69	-128.73	198.17	168.07	1623526	335935.7	39°24'52.8	80°49'57.1	259.84	40.303	8.5				
5857	22.83	81.33	5802.76	-128.7	209.91	200.42	1623558	335947.4	39°24'52.9	80°49'56.7	290.22	43.675	9.68				
5947	22.75	105.19	5885.91	-115.22	207.98	234.54	1623592	335945.5	39°24'52.9	80°49'56.3	313.47	48.436	10.21				
6036	25	118.71	5967.35	-91.15	194.42	267.67	1623625	335931.9	39°24'52.8	80°49'55.8	330.83	54.008	6.63				
6126	32.11	128.94	6046.4	-56.3	170.21	303.02	1623661	335907.7	39°24'52.5	80°49'55.4	347.55	60.677	9.56				
6216	38.46	134.03	6119.85	-10.59	135.68	341.8	1623699	335873.2	39°24'52.2	80°49'54.9	367.74	68.35	7.77				
6306	47.13	140.34	6185.85	45.76	90.73	383.07	1623741	335828.2	39°24'51.8	80°49'54.4	393.67	76.675	10.74				
6395	56	145.23	6241.14	112.31	35.18	425.02	1623783	335772.7	39°24'51.2	80°49'53.8	426.48	85.268	10.85				
6485	64.56	150.59	6285.75	188.65	-31.02	466.35	1623824	335706.5	39°24'50.6	80°49'53.3	467.39	93.806	10.82				
6574	73.65	154.89	6317.47	271.04	-104.88	504.3	1623862	335632.6	39°24'49.8	80°49'52.8	515.09	101.748	11.16				
6664	82.34	157.5	6336.17	358.78	-185.35	539.77	1623897	335552.2	39°24'49.0	80°49'52.3	570.7	108.952	10.06				
6754	86.55	159.63	6344.88	448.31	-268.71	572.49	1623930	335468.8	39°24'48.2	80°49'51.9	632.41	115.144	5.24				
6843	90	160.08	6347.56	537.25	-352.21	603.12	1623961	335385.3	39°24'47.4	80°49'51.5	698.43	120.284	3.91				
6933	90.49	160.4	6347.18	627.25	-436.91	633.55	1623991	335300.6	39°24'46.6	80°49'51.1	769.59	124.591	0.65				
7022	91.02	159.81	6346	716.24	-520.59	663.83	1624021	335216.9	39°24'45.8	80°49'50.7	843.62	128.104	0.89				
7112	90.15	157.59	6345.09	806.21	-604.44	696.52	1624054	335133.1	39°24'44.9	80°49'50.2	922.22	130.951	2.65				
7201	90.03	156.62	6344.95	895.09	-686.42	731.14	1624089	335051.1	39°24'44.1	80°49'49.8	1002.87	133.193	1.1				
7291	89.02	155.9	6345.69	984.9	-768.8	767.38	1624125	334968.8	39°24'43.3	80°49'49.3	1086.24	135.053	1.38				
7380	88.83	157.03	6347.36	1073.71	-850.38	802.91	1624160	334887.2	39°24'42.5	80°49'48.8	1169.53	136.645	1.29				
7470	88.89	158.38	6349.15	1163.62	-933.64	837.04	1624195	334803.9	39°24'41.7	80°49'48.4	1253.92	138.122	1.5				
7560	88.92	160.56	6350.87	1253.59	-1017.9	868.6	1624226	334719.7	39°24'40.9	80°49'48.0	1338.13	139.525	2.42				
7649	88.92	163.16	6352.55	1342.52	-1102.45	896.3	1624254	334635.1	39°24'40.0	80°49'47.6	1420.83	140.889	2.92				
7739	90.03	164.07	6353.38	1432.34	-1188.79	921.69	1624279	334548.8	39°24'39.2	80°49'47.3	1504.24	142.213	1.59				
7829	90.06	164.13	6353.3	1522.11	-1275.35	946.34	1624304	334462.2	39°24'38.3	80°49'46.9	1588.11	143.424	0.07				
7918	89.85	163.29	6353.37	1610.92	-1360.78	971.31	1624329	334376.8	39°24'37.5	80°49'46.6	1671.87	144.481	0.97				
8008	89.94	160.17	6353.54	1700.87	-1446.23	999.52	1624357	334291.4	39°24'36.7	80°49'46.2	1758.01	145.351	3.47				
8097	90.25	155.78	6353.39	1789.79	-1528.71	1032.89	1624390	334208.9	39°24'35.8	80°49'45.8	1844.94	145.955	4.94				
8187	89.97	154.33	6353.22	1879.45	-1610.32	1070.84	1624428	334127.3	39°24'35.0	80°49'45.3	1933.86	146.377	1.64				
8276	90.28	156.32	6353.02	1968.15	-1691.18	1108	1624466	334046.4	39°24'34.2	80°49'44.8	2021.82	146.769	2.26				
8366	90.31	158.71	6352.56	2058.06	-1774.34	1142.41	1624500	333963.3	39°24'33.4	80°49'44.3	2110.3	147.224	2.66				
8455	90.34	160.36	6352.06	2147.05	-1857.71	1173.53	1624531	333879.9	39°24'32.6	80°49'43.9	2197.33	147.719	1.85				
8545	90.68	159.88	6351.26	2237.05	-1942.35	1204.13	1624562	333795.3	39°24'31.8	80°49'43.5	2285.31	148.204	0.65				
8634	90.77	158.55	6350.13	2326.03	-2025.55	1235.71	1624593	333712.1	39°24'31.0	80°49'43.1	2372.72	148.614	1.5				
8723	90.74	159.54	6348.96	2415.01	-2108.65	1267.54	1624625	333629	39°24'30.1	80°49'42.7	2460.3	148.989	1.11				
8813	90.31	159.83	6348.13	2505	-2193.05	1298.78	1624656	333544.6	39°24'29.3	80°49'42.3	2548.78	149.365	0.58				
8903	90.15	161.65	6347.77	2594.99	-2278.01	1328.47	1624686	333459.6	39°24'28.5	80°49'41.9	2637.07	149.751	2.03				
8992	90.34	164.01	6347.39	2683.87	-2363.03	1354.74	1624712	333374.6	39°24'27.6	80°49'41.5	2723.83	150.174	2.66				
9081	90.12	162.55	6347.03	2772.73	-2448.27	1380.34	1624738	333289.4	39°24'26.8	80°49'41.2	2810.58	150.586	1.66				
9171	90	161.49	6346.94	2862.67	-2533.87	1408.12	1624766	333203.8	39°24'26.0	80°49'40.8	2898.85	150.938	1.19				
9260	90.03	161.58	6346.91	2951.64	-2618.29	1436.31	1624794	333119.4	39°24'25.1	80°49'40.4	2986.38	151.252	0.11				
9350	89.91	160.83	6346.96	3041.62	-2703.49	1465.31	1624823	333034.2	39°24'24.3	80°49'40.0	3075.06	151.542	0.84				
9439	89.63	160.58	6347.32	3130.61	-2787.49	1494.72	1624852	332950.2	39°24'23.5	80°49'39.7	3162.95	151.799	0.42				
9529	89.82	160.97	6347.75	3220.6	-2872.47	1524.35	1624882	332865.2	39°24'22.6	80°49'39.3	3251.88	152.046	0.48				
9619	89.85	161.19	6348.01	3310.58	-2957.61	1553.53	1624911	332780.1	39°24'21.8	80°49'38.9	3340.79	152.289	0.25				
9708	89.69	160.15	6348.37	3399.57	-3041.59	1582.99	1624941	332696.1	39°24'21.0	80°49'38.5	3428.87	152.505	1.18				
9798	90	163.94	6348.61	3489.5	-3127.19	1610.73	1624968	332610.5	39°24'20.1	80°49'38.1	3517.64	152.748	4.23				
9887	89.94	164.91	6348.66	3578.23	-3212.92	1634.63	1624992	332524.8	39°24'19.3	80°49'37.8	3604.84	153.035	1.09				
9977	90	164.09	6348.71	3667.96	-3299.65	1658.68	1625016	332438	39°24'18.4	80°49'37.5	3693.09	153.312	0.91				
10067	90.62	165.02	6348.22	3757.67	-3386.39	1682.65	1625040	332351.3	39°24'17.6	80°49'37.1	3781.4	153.578	1.24				
10156	90.68	164.57	6347.21	3846.35	-3472.27	1705.99	1625063	332265.4	39°24'16.7	80°49'36.8	3868.73	153.834	0.51				
10246	91.14	160.21	6345.78	3936.24	-3558.02	1733.21	1625091	332179.7	39°24'15.9	80°49'36.5	3957.72	154.028	4.87				
10335	92.03	156.55	6343.32	4025.15	-3640.72	1765.98	1625123	332097	39°24'15.1	80°49'36.0	4046.42	154.124	4.23				
10425	89.88	154.99	6341.82	4114.89	-3722.77	1802.91	1625160	332014.9	39°24'14.3	80°49'35.6	4136.36	154.159	2.95				
10514	90	154.51	6341.91	4203.51	-3803.26	1840.87	1625198	331934.5	39°24'13.5	80°49'35.1	4225.35	154.172	0.56				

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10604	89.63	156.17	6342.2	4293.21	-3885.05	1878.42	1625236	331852.7	39°24'12.7	80°49'34.6	4315.33	154.196	1.89	-0.41	1.84
10693	89.97	160.7	6342.51	4382.16	-3967.8	1911.12	1625269	331769.9	39°24'11.9	80°49'34.1	4404.07	154.282	5.1	0.38	5.09
10783	90	162.78	6342.53	4472.11	-4053.26	1939.32	1625297	331684.5	39°24'11.0	80°49'33.8	4493.32	154.431	2.31	0.03	2.31
10873	90.06	161.66	6342.49	4562.04	-4138.96	1966.8	1625324	331598.8	39°24'10.2	80°49'33.4	4582.5	154.583	1.25	0.07	-1.24
10962	90.03	159.19	6342.42	4651.03	-4222.81	1996.62	1625354	331514.9	39°24'09.4	80°49'33.0	4671.04	154.694	2.78	-0.03	-2.78
11052	90.49	155.4	6342.01	4740.91	-4305.82	2031.35	1625389	331431.9	39°24'08.5	80°49'32.5	4760.93	154.744	4.24	0.51	-4.21
11141	90.18	152.21	6341.49	4829.38	-4385.67	2070.63	1625428	331352.1	39°24'07.8	80°49'32.0	4849.91	154.726	3.6	-0.35	-3.58
11231	90	155.59	6341.35	4918.86	-4466.48	2110.22	1625468	331271.3	39°24'07.0	80°49'31.5	4939.89	154.711	3.76	-0.2	3.76
11321	89.69	156.91	6341.59	5008.66	-4548.86	2146.47	1625504	331188.9	39°24'06.2	80°49'31.0	5029.85	154.739	1.51	-0.34	1.47
11410	89.51	158.88	6342.21	5097.6	-4631.31	2179.96	1625537	331106.5	39°24'05.4	80°49'30.6	5118.71	154.794	2.22	-0.2	2.21
11500	89.32	161.71	6343.13	5187.58	-4716.03	2210.3	1625568	331021.7	39°24'04.5	80°49'30.2	5208.29	154.889	3.15	-0.21	3.14
11589	89.63	165.18	6343.95	5276.4	-4801.32	2235.65	1625593	330936.5	39°24'03.7	80°49'29.8	5296.3	155.032	3.91	0.35	3.9
11679	89.54	163.58	6344.6	5366.13	-4887.99	2259.88	1625617	330849.8	39°24'02.8	80°49'29.5	5385.12	155.187	1.78	-0.1	-1.78
11769	90	162.36	6344.96	5456.01	-4974.04	2286.24	1625644	330763.7	39°24'02.0	80°49'29.2	5474.3	155.315	1.45	0.51	-1.36
11858	90	161.94	6344.96	5544.95	-5058.76	2313.52	1625671	330679	39°24'01.1	80°49'28.8	5562.68	155.424	0.47	0	-0.47
11948	90.34	164.1	6344.69	5634.82	-5144.83	2339.8	1625697	330593	39°24'00.3	80°49'28.4	5651.9	155.545	2.43	0.38	2.4
12037	90.28	162.66	6344.21	5723.66	-5230.11	2365.26	1625723	330507.7	39°23'59.5	80°49'28.1	5740.08	155.666	1.62	-0.07	-1.62
12127	90.4	160.16	6343.68	5813.62	-5315.4	2393.95	1625751	330422.4	39°23'58.6	80°49'27.7	5829.62	155.754	2.78	0.13	-2.78
12216	90	156.9	6343.37	5902.58	-5398.21	2426.52	1625784	330339.6	39°23'57.8	80°49'27.3	5918.51	155.796	3.69	-0.45	-3.66
12306	90.06	154.88	6343.32	5992.34	-5480.36	2463.28	1625821	330257.5	39°23'57.0	80°49'26.8	6008.5	155.797	2.25	0.07	-2.24
12396	89.94	152.64	6343.32	6081.81	-5561.08	2503.07	1625861	330176.7	39°23'56.2	80°49'26.3	6098.44	155.767	2.49	-0.13	-2.49
12486	89.91	155.98	6343.44	6171.35	-5642.17	2542.08	1625900	330095.7	39°23'55.4	80°49'25.8	6188.4	155.746	3.71	-0.03	3.71
12575	89.97	160.35	6343.53	6260.28	-5724.77	2575.17	1625933	330013.1	39°23'54.6	80°49'25.3	6277.3	155.78	4.91	0.07	4.91
12665	90.12	160.99	6343.46	6350.28	-5809.69	2604.97	1625962	329928.1	39°23'53.8	80°49'24.9	6366.97	155.849	0.73	0.17	0.71
12754	89.97	159.1	6343.39	6439.27	-5893.35	2635.34	1625993	329844.5	39°23'52.9	80°49'24.5	6455.74	155.907	2.13	-0.17	-2.12
12844	89.66	157.2	6343.68	6529.22	-5976.88	2668.83	1626026	329761	39°23'52.1	80°49'24.1	6545.66	155.938	2.14	-0.34	-2.11
12933	90.06	157.25	6343.9	6618.12	-6058.94	2703.28	1626061	329678.9	39°23'51.3	80°49'23.6	6634.64	155.955	0.45	0.45	0.46
13023	90.46	154.29	6343.49	6707.86	-6141	2740.22	1626098	329596.9	39°23'50.5	80°49'23.2	6724.63	155.953	3.25	0.44	-3.29
13112	90.25	152.48	6342.94	6796.26	-6220.56	2780.09	1626138	329517.3	39°23'49.7	80°49'22.6	6813.54	155.919	2.05	-0.24	-2.03
13202	89.66	157.29	6343.01	6885.88	-6302.03	2818.27	1626176	329435.8	39°23'48.9	80°49'22.1	6903.49	155.906	5.38	-0.66	5.34
13291	89.66	160.5	6343.54	6974.85	-6385.05	2850.32	1626208	329352.8	39°23'48.1	80°49'21.7	6992.36	155.944	3.61	0	3.61
13381	89.54	161.31	6344.16	7064.83	-6470.09	2879.76	1626237	329267.8	39°23'47.3	80°49'21.3	7082.03	156.007	0.91	-0.13	0.9
13471	89.48	162.93	6344.93	7154.76	-6555.74	2907.39	1626265	329182.1	39°23'46.4	80°49'21.0	7171.51	156.083	1.8	-0.07	1.8
13560	90.03	162.15	6345.31	7243.67	-6640.64	2934.09	1626292	329097.2	39°23'45.6	80°49'20.6	7259.95	156.162	1.07	0.62	-0.88
13650	90.09	164.13	6345.22	7333.54	-6726.76	2960.19	1626318	329011.1	39°23'44.8	80°49'20.2	7349.29	156.248	2.2	0.07	2.2
13739	90.25	163.58	6344.96	7422.33	-6812.25	2984.94	1626344	328925.6	39°23'43.9	80°49'19.9	7437.52	156.338	0.64	0.18	-0.62
13829	90.52	164.19	6344.35	7512.12	-6898.71	3009.92	1626367	328839.2	39°23'43.1	80°49'19.6	7526.74	156.428	0.74	0.3	0.68
13919	90.49	163.45	6343.56	7601.92	-6985.14	3035	1626392	328752.8	39°23'42.2	80°49'19.2	7616	156.515	0.82	-0.03	-0.82
14008	90.49	162.07	6342.8	7690.81	-7070.14	3061.37	1626419	328667.8	39°23'41.4	80°49'18.9	7704.47	156.587	1.55	0	-1.55
14098	90.92	160.8	6341.69	7780.77	-7155.45	3090.02	1626447	328582.5	39°23'40.5	80°49'18.5	7794.15	156.643	1.49	0.48	-1.41
14187	90.43	163.86	6340.64	7869.68	-7240.23	3117.03	1626474	328497.7	39°23'39.7	80°49'18.2	7882.7	156.707	3.48	-0.55	3.44
14277	90.55	164.55	6339.87	7959.44	-7326.83	3141.53	1626499	328411.1	39°23'38.9	80°49'17.8	7971.93	156.792	0.78	0.13	0.77
14367	90.4	162.82	6339.13	8049.24	-7413.2	3166.81	1626524	328324.7	39°23'38.0	80°49'17.5	8061.28	156.869	1.93	-0.17	-1.92
14456	90.37	158.71	6338.53	8138.22	-7497.21	3196.13	1626554	328240.7	39°23'37.2	80°49'17.1	8150.06	156.911	4.62	-0.03	-4.62
14546	90.28	157.43	6338.02	8228.16	-7580.7	3229.74	1626587	328157.2	39°23'36.4	80°49'16.7	8240.04	156.924	1.43	-0.1	-1.42
14635	89.82	157.31	6337.94	8317.07	-7662.85	3263.98	1626621	328075.1	39°23'35.5	80°49'16.2	8329.03	156.928	0.53	-0.52	-0.13
14725	89.85	156.3	6338.2	8406.93	-7745.57	3299.43	1626657	327992.4	39°23'34.7	80°49'15.7	8419.03	156.927	1.12	0.03	-1.12
14815	89.51	158.54	6338.7	8496.83	-7828.66	3333.98	1626691	327909.3	39°23'33.9	80°49'15.3	8509.02	156.932	2.52	-0.38	2.49
14904	89.85	160.64	6339.2	8585.82	-7912.07	3365.02	1626722	327825.9	39°23'33.1	80°49'14.9	8597.92	156.96	2.39	0.38	2.36
14994	89.97	161.61	6339.34	8675.8	-7997.23	3394.13	1626752	327740.7	39°23'32.3	80°49'14.5	8687.68	157.003	1.09	0.13	1.08
15083	90	163.15	6339.36	8764.72	-8082.05	3421.07	1626778	327655.9	39°23'31.4	80°49'14.1	8776.29	157.057	1.73	0.03	1.73
15173	90.65	163.77	6338.85	8854.55	-8168.33	3446.69	1626804	327569.6	39°23'30.6	80°49'13.8	8865.73	157.122	1	0.72	0.69
15262	90.55	163.56	6337.92	8943.37	-8253.73	3471.72	1626829	327484.2	39°23'29.7	80°49'13.4	8954.16	157.187	0.26	-0.11	-0.24
15352	90.52	159.1	6337.08	9033.32	-8338.97	3500.53	1626858	327399	39°23'28.9	80°49'13.1	9043.9	157.228	4.96	-0.03	-4.96
15442	90.92	155.04	6335.95	9123.17	-8421.83	3535.58	1626893	327316.1	39°23'28.1	80°49'12.6	9133.87	157.227	4.53	0.44	-4.51

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15532	88.65	153.16	6336.29	9212.69	-8502.78	3574.89	1626932	327235.2	39°23'27.3	80°49'12.1	9223.73	157.196	3.27	-2.52
15585	88.8	156.31	6337.47	9265.44	-8550.69	3597.5	1626955	327187.3	39°23'26.8	80°49'11.8	9276.66	157.182	5.95	0.28
15610	88.8	156.31	6337.99	9290.38	-8573.58	3607.54	1626965	327164.4	39°23'26.6	80°49'11.7	9301.65	157.18	0	0

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TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	Comment
SHR-3D-HS BHL Rev-1		6348	-8580.35	3592.21	1626950	327157.6	39°23'26.5	80°49'11.9	point	
SHR-3D-HS LP Rev-1		6348	-325.01	587.5	1623945	335412.5	39°24'47.7	80°49'51.7	point	

WELLPATH COMPOSITION Ref Wellbore: SHR-3D-HS AWB Ref Wellpath: SHR-3D-HS AWP Proj: 15610'

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
D1_MS Gyro	18.5	2118.5		Generic gyro - northseeking (Standard)
D2_BHI Mv	2118.5	5009		NaviTrak (MagCorr)
D3_BHI AT	5009	15585		NaviTrak (AT Curve Short Spaced)
Projection	15585	15610		Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-095-02195-0000

BHI Job #: 7024729

Rig: Precision 542

Duration: 3/24/2015-3/30/2015

MS Gyro <12-1/4> (100'-2100)"

BHI MWD <8-3/4> (2118.5')(2221'-5009)"

BHI AT Curve <8-3/4> (5009')(5097'-15585)"

Projected MD at TD: 15610'