

1-03284

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

REFERENCE WELLPATH IDENTIFICATION

Operator CNX GAS COMPANY, LLC
 Area Barbour County, WV
 Field Barbour
 Facility AUD7 Pad
 Slot Slot B
 Well AUD7B-HS ST01
 Wellbore AUB7BHS ST01 (AWB)
 Wellpath AUB7BHS ST01 (AWP) Proj: 17442'
 Sidetrack AUD7B-HS (AWB) at 6816.50 MD

REPORT SETUP INFORMATION

Projection NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
 North Refe Grid
 Scale 0.999979
 Convergen 0.37° West
 Software S WellArchitect® 4.0.1
 User Frisjesl
 Report Ger 7/10/2014 at 9:54:20 AM
 DataBase:/ WA_EasternUS/ev01.xml

WELLPATH	Local North	Local East	Easting	Northing	Latitude	Longitude
	[ft]	[ft]	[US ft]	[US ft]		
Slot Locati	-18.47	-7.66	1834346	227084.7	39°07'19.2	80°05'01.935"W
Facility Ref			1834353	227103.2	39°07'19.3	80°05'01.840"W
Field Refer			1853088	260038.7	39°12'46.0	80°01'06.538"W

WELLPATH DATUM

Calculator Minimum curvature
 Horizontal Slot
 Vertical Re Patterson 282 (RT)
 MD Refere Patterson 282 (RT)
 Field Vertic Mean Sea Level
 Patterson : 1596.75ft
 Patterson : 1596.75ft
 Patterson : 28.50ft
 Section Ori N 0.00, E 0.00 ft
 Section Azi 133.00°

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WELLPATH DATA † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dis	Closure Dir	DLS	
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[#/100ft]	
†	0	0	120.39	0	0	0	0	1834346	227084.7	39°07'19.2	80°05'01.9	0	0	0
	28.5	0	120.39	28.5	0	0	0	1834346	227084.7	39°07'19.2	80°05'01.9	0	0	0
	116.5	0.31	120.39	116.5	0.23	-0.12	0.21	1834346	227084.6	39°07'19.2	80°05'01.9	0.24	120.39	0.35
	216.5	0.26	115.9	216.5	0.71	-0.36	0.64	1834346	227084.3	39°07'19.2	80°05'01.9	0.73	119.005	0.05
	316.5	0.22	101.39	316.5	1.09	-0.49	1.04	1834347	227084.2	39°07'19.2	80°05'01.9	1.15	115.486	0.07
	416.5	0.26	104.82	416.5	1.46	-0.59	1.44	1834347	227084.1	39°07'19.2	80°05'01.9	1.56	112.221	0.04
	516.5	0.25	109.37	516.5	1.86	-0.72	1.87	1834348	227084	39°07'19.2	80°05'01.9	2	111.074	0.02
	616.5	0.29	107.12	616.49	2.28	-0.87	2.32	1834348	227083.8	39°07'19.2	80°05'01.9	2.47	110.519	0.04
	716.5	0.32	106.02	716.49	2.76	-1.02	2.83	1834348	227083.7	39°07'19.2	80°05'01.8	3	109.815	0.03
	816.5	0.38	113.75	816.49	3.32	-1.23	3.4	1834349	227083.5	39°07'19.1	80°05'01.8	3.61	109.883	0.08
	916.5	0.46	123.62	916.49	4.03	-1.58	4.04	1834350	227083.1	39°07'19.1	80°05'01.8	4.34	111.438	0.11
	1016.5	0.38	122.8	1016.49	4.75	-1.99	4.65	1834350	227082.7	39°07'19.1	80°05'01.8	5.06	113.139	0.08
	1116.5	0.41	122.04	1116.48	5.43	-2.36	5.23	1834351	227082.3	39°07'19.1	80°05'01.8	5.74	114.248	0.03
	1216.5	0.42	126.73	1216.48	6.15	-2.76	5.83	1834351	227081.9	39°07'19.1	80°05'01.8	6.45	115.382	0.04
	1316.5	0.45	122.11	1316.48	6.9	-3.19	6.45	1834352	227081.5	39°07'19.1	80°05'01.8	7.2	116.322	0.05
	1416.5	0.42	123.47	1416.48	7.64	-3.6	7.09	1834353	227081.1	39°07'19.1	80°05'01.8	7.96	116.936	0.03
	1516.5	0.39	120.06	1516.47	8.34	-3.98	7.69	1834353	227080.7	39°07'19.1	80°05'01.8	8.66	117.335	0.04
	1616.5	0.32	125.82	1616.47	8.95	-4.31	8.21	1834354	227080.4	39°07'19.1	80°05'01.8	9.28	117.689	0.08
	1716.5	0.45	132.53	1716.47	9.62	-4.74	8.73	1834354	227080	39°07'19.1	80°05'01.8	9.93	118.497	0.14
	1816.5	0.28	136	1816.47	10.25	-5.18	9.19	1834355	227079.5	39°07'19.1	80°05'01.8	10.55	119.414	0.17
	1916.5	0.4	135.9	1916.46	10.85	-5.61	9.6	1834355	227079.1	39°07'19.1	80°05'01.8	11.12	120.284	0.12
	2016.5	0.37	133.91	2016.46	11.52	-6.08	10.08	1834356	227078.6	39°07'19.1	80°05'01.8	11.77	121.111	0.03
	2116.5	0.39	132.42	2116.46	12.18	-6.53	10.56	1834356	227078.2	39°07'19.1	80°05'01.8	12.42	121.749	0.02
	2216.5	0.58	124.45	2216.46	13.02	-7.05	11.23	1834357	227077.7	39°07'19.1	80°05'01.7	13.26	122.125	0.2
	2316.5	0.61	127.48	2316.45	14.05	-7.66	12.07	1834358	227077	39°07'19.1	80°05'01.7	14.3	122.406	0.04

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2416.5	0.57	152.17	2416.45	15.05	-8.42	12.72	1834358	227076.3	39°07'19.1	80°05'01.7	15.26	123.51	0.26
2516.5	0.59	163.87	2516.44	15.96	-9.36	13.1	1834359	227075.3	39°07'19.1	80°05'01.7	16.1	125.546	0.12
2616.5	0.71	170.3	2616.43	16.9	-10.46	13.35	1834359	227074.2	39°07'19.1	80°05'01.7	16.96	128.099	0.14
2716.5	0.47	171.25	2716.43	17.71	-11.48	13.51	1834359	227073.2	39°07'19.0	80°05'01.7	17.73	130.351	0.24
2816.5	0.55	171.86	2816.43	18.41	-12.36	13.64	1834359	227072.3	39°07'19.0	80°05'01.7	18.41	132.177	0.08
2916.5	0.78	175.31	2916.42	19.29	-13.51	13.77	1834359	227071.2	39°07'19.0	80°05'01.7	19.29	134.47	0.23
3016.5	1.29	173.87	3016.4	20.64	-15.31	13.94	1834360	227069.4	39°07'19.0	80°05'01.7	20.71	137.68	0.51
3116.5	1.32	162.62	3116.38	22.49	-17.53	14.41	1834360	227067.2	39°07'19.0	80°05'01.7	22.69	140.586	0.26
3216.5	1.29	154.55	3216.35	24.54	-19.65	15.23	1834361	227065.1	39°07'19.0	80°05'01.7	24.86	142.208	0.19
3316.5	1.15	139.42	3316.33	26.59	-21.42	16.37	1834362	227063.3	39°07'18.9	80°05'01.7	26.96	142.615	0.35
3416.5	1	132.47	3416.31	28.45	-22.78	17.67	1834363	227061.9	39°07'18.9	80°05'01.7	28.83	142.199	0.2
3516.5	1.05	130.09	3516.29	30.24	-23.96	19.01	1834365	227060.7	39°07'18.9	80°05'01.6	30.58	141.562	0.07
3616.5	1.12	126.94	3616.28	32.13	-25.13	20.49	1834366	227059.6	39°07'18.9	80°05'01.6	32.43	140.804	0.09
3716.5	1.15	120.09	3716.26	34.08	-26.22	22.14	1834368	227058.5	39°07'18.9	80°05'01.6	34.32	139.821	0.14
3816.5	1.19	121.38	3816.24	36.07	-27.27	23.9	1834370	227057.4	39°07'18.9	80°05'01.6	36.26	138.766	0.05
3916.5	1.49	118.31	3916.21	38.35	-28.42	25.93	1834372	227056.3	39°07'18.9	80°05'01.6	38.47	137.628	0.31
4016.5	1.76	121.89	4016.17	41.11	-29.85	28.38	1834374	227054.9	39°07'18.9	80°05'01.5	41.19	136.45	0.29
4116.5	1.56	120.13	4116.13	43.95	-31.35	30.86	1834376	227053.4	39°07'18.9	80°05'01.5	43.99	135.449	0.21
4216.5	1.58	122.68	4216.09	46.63	-32.77	33.2	1834379	227051.9	39°07'18.8	80°05'01.5	46.65	134.633	0.07
4316.5	1.69	126.78	4316.05	49.45	-34.4	35.54	1834381	227050.3	39°07'18.8	80°05'01.4	49.46	134.069	0.16
4416.5	1.67	128.41	4416	52.37	-36.19	37.86	1834383	227048.5	39°07'18.8	80°05'01.4	52.38	133.707	0.05
4516.5	1.51	133.25	4515.97	55.14	-38	39.96	1834386	227046.7	39°07'18.8	80°05'01.4	55.14	133.556	0.21
4616.5	1.72	125.19	4615.93	57.95	-39.77	42.15	1834388	227044.9	39°07'18.8	80°05'01.3	57.95	133.333	0.31
4716.5	1.61	128.29	4715.88	60.83	-41.5	44.48	1834390	227043.2	39°07'18.8	80°05'01.3	60.83	133.017	0.14
4816.5	1.71	123.73	4815.84	63.71	-43.2	46.82	1834392	227041.5	39°07'18.7	80°05'01.3	63.71	132.696	0.17
4916.5	1.74	126.16	4915.8	66.69	-44.92	49.29	1834395	227039.8	39°07'18.7	80°05'01.3	66.69	132.348	0.08
5016.5	2.1	128.36	5015.74	70.02	-46.96	51.95	1834398	227037.7	39°07'18.7	80°05'01.2	70.03	132.11	0.37
5116.5	2.12	133.8	5115.67	73.69	-49.37	54.72	1834400	227035.3	39°07'18.7	80°05'01.2	73.7	132.059	0.2
5216.5	1.93	123.35	5215.61	77.2	-51.58	57.46	1834403	227033.1	39°07'18.7	80°05'01.2	77.22	131.912	0.41
5316.5	1.96	129.7	5315.55	80.57	-53.6	60.19	1834406	227031.1	39°07'18.6	80°05'01.1	80.59	131.686	0.22
5416.5	1.67	130.14	5415.5	83.73	-55.63	62.62	1834408	227029.1	39°07'18.6	80°05'01.1	83.76	131.619	0.29
5516.5	1.53	117.1	5515.46	86.47	-57.18	64.92	1834411	227027.5	39°07'18.6	80°05'01.1	86.51	131.372	0.39
5616.5	1.38	118.83	5615.43	88.93	-58.37	67.16	1834413	227026.3	39°07'18.6	80°05'01.0	88.98	130.992	0.16
5716.5	1.51	117.39	5715.4	91.36	-59.55	69.39	1834415	227025.2	39°07'18.6	80°05'01.0	91.44	130.639	0.13
5816.5	1.14	121.53	5815.37	93.61	-60.68	71.4	1834417	227024	39°07'18.6	80°05'01.0	93.71	130.358	0.38
5916.5	0.98	118.96	5915.36	95.41	-61.61	73	1834419	227023.1	39°07'18.6	80°05'01.0	95.53	130.165	0.17
6016.5	1.08	118.68	6015.34	97.15	-62.48	74.58	1834420	227022.2	39°07'18.5	80°05'00.9	97.29	129.957	0.1
6116.5	1.22	117.84	6115.32	99.09	-63.43	76.34	1834422	227021.3	39°07'18.5	80°05'00.9	99.26	129.721	0.14
6216.5	1.06	110.77	6215.3	100.98	-64.26	78.15	1834424	227020.5	39°07'18.5	80°05'00.9	101.17	129.427	0.21
6316.5	1.18	103.68	6315.28	102.73	-64.83	80.02	1834426	227019.9	39°07'18.5	80°05'00.9	102.98	129.014	0.18
6416.5	1.15	101.28	6415.26	104.48	-65.27	82	1834428	227019.4	39°07'18.5	80°05'00.8	104.8	128.517	0.06
6516.5	1.29	105.12	6515.24	106.33	-65.76	84.07	1834430	227019	39°07'18.5	80°05'00.8	106.73	128.031	0.16
6602	1.58	96.26	6600.71	108.13	-66.14	86.17	1834432	227018.6	39°07'18.5	80°05'00.8	108.63	127.506	0.43
6650	3.74	98.33	6648.66	109.94	-66.43	88.38	1834434	227018.3	39°07'18.5	80°05'00.8	110.56	126.932	4.5
6695	9.45	90.43	6693.34	113.88	-66.68	93.53	1834439	227018	39°07'18.5	80°05'00.7	114.86	125.484	12.82
6746	11.2	87.65	6743.51	120.44	-66.5	102.67	1834448	227018.2	39°07'18.5	80°05'00.6	122.32	122.934	3.57
6789	11.25	91.04	6785.69	126.49	-66.41	111.03	1834457	227018.3	39°07'18.5	80°05'00.5	129.38	120.884	1.54
6860	13.67	89.95	6855.01	137.78	-66.53	126.35	1834472	227018.2	39°07'18.5	80°05'00.3	142.79	117.768	3.42
6883	14.78	88.3	6877.31	141.85	-66.44	132	1834478	227018.3	39°07'18.5	80°05'00.2	147.78	116.717	5.14
6932	16.09	82.13	6924.54	150.58	-65.32	144.97	1834491	227019.4	39°07'18.5	80°05'00.0	159.01	114.255	4.28
6977	17.37	78.01	6967.64	158.37	-63.07	157.72	1834503	227021.6	39°07'18.5	80°04'59.9	169.87	111.796	3.88
7027	17.75	75.91	7015.31	166.79	-59.67	172.42	1834518	227025	39°07'18.6	80°04'59.7	182.45	109.089	1.48
7071	17.83	76.29	7057.21	174.13	-56.44	185.47	1834531	227028.3	39°07'18.6	80°04'59.5	193.86	106.925	0.32
7121	18.71	79.48	7104.69	183.1	-53.16	200.79	1834546	227031.5	39°07'18.6	80°04'59.3	207.71	104.829	2.66
7165	21.14	85.74	7146.05	192.68	-51.28	215.64	1834561	227033.4	39°07'18.7	80°04'59.1	221.66	103.377	7.34
7214	25.74	90.4	7191	206.52	-50.7	235.11	1834581	227034	39°07'18.7	80°04'58.9	240.51	102.169	10.11
7259	29.14	96.44	7230.94	222.52	-52	255.77	1834601	227032.7	39°07'18.7	80°04'58.6	261.01	101.491	9.76
7307	30.11	107.69	7272.7	242.81	-56.97	278.88	1834625	227027.7	39°07'18.6	80°04'58.3	284.64	101.546	11.75
7353	32.31	116	7312.06	265.01	-65.87	300.93	1834647	227018.8	39°07'18.5	80°04'58.1	308.06	102.347	10.5
7400	36.86	119.22	7350.75	290.73	-78.27	324.54	1834670	227006.4	39°07'18.4	80°04'57.8	333.84	103.558	10.43
7447	41.3	120.74	7387.22	319.59	-93.08	350.19	1834696	226991.6	39°07'18.3	80°04'57.4	362.35	104.886	9.66
7495	46.44	122.9	7421.82	352.22	-110.64	378.42	1834724	226974.1	39°07'18.1	80°04'57.1	394.26	106.297	11.15
7541	51.55	125.74	7451.99	386.52	-130.23	407.06	1834753	226954.5	39°07'17.9	80°04'56.7	427.38	107.741	12.04
7590	56.24	129.11	7480.86	425.9	-154.3	438.46	1834784	226930.4	39°07'17.7	80°04'56.3	464.82	109.388	11.07
7635	60.77	133.08	7504.37	464.23	-179.53	467.34	1834813	226905.2	39°07'17.4	80°04'55.9	500.64	111.015	12.56
7693	66.38	135.49	7530.18	516.13	-215.8	504.49	1834850	226868.9	39°07'17.1	80°04'55.5	548.7	113.159	10.36
7729	70.16	136.11	7543.5	549.53	-239.77	527.79	1834873	226844.9	39°07'16.8	80°04'55.2	579.7	114.432	10.62
7781	71.3	134.68	7560.66	598.57	-274.72	562.26	1834908	226810	39°07'16.5	80°04'54.7	625.79	116.04	3.4
7823	73.76	132.79	7573.27	638.62	-302.41	591.21	1834937	226782.3	39°07'16.2	80°04'54.4	664.06	117.09	7.26
7875	79.98	133.09	7585.08	689.24	-336.89	628.26	1834974	226747.8	39°07'15.9	80°04'53.9	712.89	118.201	11.97
7917	84.67	133.96	7590.69	730.85	-365.55	658.43	1835004	226719.2	39°07'15.6	80°04'53.5	753.1	119.038	11.35
8011	93.7	134.36	7592.02	824.72	-430.96	725.79	1835071	226653.8	39°07'14.9	80°04'52.6	844.1	120.701	9.62

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8105	94.99	134.3	7584.9	918.43	-496.46	792.84	1835138	226588.3	39°07'14.3	80°04'51.8	935.45	122.054	1.37
8199	94.9	134.25	7576.8	1012.05	-561.83	859.89	1835206	226522.9	39°07'13.7	80°04'50.9	1027.17	123.16	0.11
8293	95.27	132.14	7568.47	1105.68	-625.92	928.15	1835274	226458.8	39°07'13.0	80°04'50.1	1119.48	123.995	2.27
8387	93.94	130.52	7560.92	1199.33	-687.79	998.5	1835344	226396.9	39°07'12.4	80°04'49.2	1212.46	124.56	2.23
8481	94.04	129.6	7554.38	1292.98	-748.14	1070.27	1835416	226336.6	39°07'11.8	80°04'48.2	1305.83	124.954	0.98
8575	93.91	128.72	7547.86	1386.54	-807.36	1142.98	1835489	226277.4	39°07'11.3	80°04'47.3	1399.37	125.236	0.94
8669	92.99	129.56	7542.2	1480.15	-866.58	1215.75	1835561	226218.1	39°07'10.7	80°04'46.4	1492.99	125.481	1.32
8764	92.77	130.11	7537.43	1574.89	-927.36	1288.61	1835634	226157.4	39°07'10.1	80°04'45.5	1587.61	125.741	0.62
8858	92.86	129.96	7532.82	1668.65	-987.75	1360.5	1835706	226097	39°07'09.5	80°04'44.5	1681.25	125.981	0.19
8952	92.99	131.35	7528.02	1762.45	-1048.91	1431.71	1835777	226035.8	39°07'08.9	80°04'43.6	1774.83	126.228	1.48
9045	92.86	132.56	7523.27	1855.31	-1111.01	1500.78	1835846	225973.7	39°07'08.3	80°04'42.8	1867.27	126.512	1.31
9140	92.92	133.98	7518.48	1950.18	-1176.04	1569.87	1835915	225908.7	39°07'07.6	80°04'41.9	1961.52	126.838	1.49
9233	93.02	136.3	7513.66	2042.99	-1241.87	1635.37	1835981	225842.9	39°07'07.0	80°04'41.0	2053.46	127.212	2.49
9327	92.25	137.17	7509.34	2136.69	-1310.24	1699.73	1836045	225774.5	39°07'06.3	80°04'40.2	2146.12	127.627	1.24
9421	93.08	138.03	7504.97	2230.28	-1379.58	1763.04	1836109	225705.2	39°07'05.6	80°04'39.4	2238.65	128.043	1.27
9515	93.36	133.95	7499.69	2323.98	-1447.07	1828.24	1836174	225637.7	39°07'05.0	80°04'38.6	2331.62	128.362	4.34
9608	93.23	130.71	7494.34	2416.81	-1509.58	1896.87	1836242	225575.2	39°07'04.4	80°04'37.7	2424.24	128.514	3.48
9702	93.7	130.55	7488.66	2510.56	-1570.68	1968.08	1836314	225514.1	39°07'03.8	80°04'36.8	2518.01	128.593	0.53
9796	93.05	128.92	7483.13	2604.24	-1630.66	2040.23	1836386	225454.1	39°07'03.2	80°04'35.9	2611.82	128.634	1.86
9890	92.65	127.6	7478.45	2697.8	-1688.79	2113.95	1836460	225395.9	39°07'02.6	80°04'34.9	2705.7	128.621	1.47
9983	92.92	128.98	7473.93	2790.38	-1746.35	2186.86	1836532	225338.4	39°07'02.0	80°04'34.0	2798.59	128.61	1.51
10077	92.25	137.21	7469.69	2884.2	-1810.45	2255.37	1836601	225274.3	39°07'01.4	80°04'33.1	2892.13	128.755	8.78
10170	92.15	138.29	7466.12	2976.81	-1879.24	2317.85	1836663	225205.5	39°07'00.7	80°04'32.3	2983.95	129.034	1.17
10264	92.52	134.68	7462.29	3070.54	-1947.34	2382.51	1836728	225137.4	39°07'00.1	80°04'31.5	3077.09	129.261	3.86
10358	91.57	131.15	7458.93	3164.47	-2011.3	2451.3	1836797	225073.5	39°06'59.4	80°04'30.6	3170.83	129.369	3.89
10452	90.99	128.8	7456.83	3258.3	-2071.67	2523.31	1836869	225013.1	39°06'58.8	80°04'29.7	3264.8	129.386	2.57
10546	92.4	128.96	7454.05	3352.02	-2130.64	2596.45	1836942	224954.1	39°06'58.3	80°04'28.8	3358.75	129.372	1.51
10640	90.46	135	7451.7	3445.93	-2193.47	2666.27	1837012	224891.3	39°06'57.7	80°04'27.9	3452.58	129.443	6.75
10733	90.55	135.19	7450.88	3538.86	-2259.33	2731.92	1837077	224825.4	39°06'57.0	80°04'27.0	3545.13	129.591	0.23
10827	90.62	134.4	7449.92	3632.81	-2325.56	2798.62	1837144	224759.2	39°06'56.4	80°04'26.2	3638.75	129.725	0.84
10921	92.03	137.07	7447.75	3726.66	-2392.85	2864.2	1837210	224691.9	39°06'55.7	80°04'25.4	3732.21	129.876	3.21
11014	91.54	137.52	7444.85	3819.36	-2461.16	2927.25	1837273	224623.6	39°06'55.0	80°04'24.5	3824.4	130.056	0.72
11108	91.75	134.24	7442.15	3913.19	-2528.6	2992.65	1837338	224556.2	39°06'54.4	80°04'23.7	3917.88	130.196	3.5
11202	91.51	132.1	7439.48	4007.14	-2592.88	3061.18	1837407	224491.9	39°06'53.7	80°04'22.8	4011.71	130.265	2.29
11296	92.03	129.87	7436.57	4101.03	-2654.5	3132.1	1837478	224430.3	39°06'53.1	80°04'21.9	4105.65	130.282	2.43
11390	90.92	129.56	7434.15	4194.85	-2714.54	3204.38	1837550	224370.2	39°06'52.5	80°04'21.0	4199.62	130.269	1.23
11484	91.17	131.49	7432.44	4288.74	-2775.61	3275.82	1837621	224309.2	39°06'51.9	80°04'20.1	4293.6	130.275	2.07
11578	91.35	138.01	7430.37	4382.62	-2841.73	3342.52	1837688	224243	39°06'51.3	80°04'19.2	4387.24	130.37	6.94
11671	91.02	138.57	7428.45	4475.21	-2911.14	3404.39	1837750	224173.6	39°06'50.6	80°04'18.5	4479.35	130.534	0.7
11765	90.92	135.45	7426.86	4568.95	-2979.88	3468.46	1837814	224104.9	39°06'49.9	80°04'17.6	4572.74	130.667	3.32
11859	90.89	129.6	7425.37	4662.9	-3043.39	3537.7	1837883	224041.4	39°06'49.3	80°04'16.8	4666.64	130.704	6.22
11953	90.74	125.8	7424.03	4756.47	-3100.85	3612.06	1837958	223983.9	39°06'48.7	80°04'15.8	4760.49	130.645	4.05
12046	90.4	128.06	7423.11	4848.93	-3156.72	3686.39	1838032	223928.1	39°06'48.2	80°04'14.9	4853.28	130.574	2.46
12140	90.95	137.88	7422	4942.81	-3220.71	3755.08	1838101	223864.1	39°06'47.6	80°04'14.0	4947.08	130.62	10.46
12233	90.83	136.74	7420.55	5035.54	-3289.06	3818.13	1838164	223795.7	39°06'46.9	80°04'13.2	5039.45	130.743	1.23
12328	90.71	133.99	7419.28	5130.44	-3356.65	3884.86	1838230	223728.1	39°06'46.2	80°04'12.3	5134.13	130.828	2.9
12421	90.71	131.18	7418.12	5223.42	-3419.57	3953.32	1838299	223665.2	39°06'45.6	80°04'11.5	5227.07	130.859	3.02
12515	90.68	132.72	7416.98	5317.39	-3482.4	4023.23	1838369	223602.4	39°06'45.0	80°04'10.6	5321.04	130.879	1.64
12608	89.97	133.38	7416.46	5410.39	-3545.88	4091.19	1838437	223538.9	39°06'44.4	80°04'09.7	5413.97	130.916	1.04
12702	90.15	135.44	7416.36	5504.36	-3611.66	4158.33	1838504	223473.1	39°06'43.7	80°04'08.8	5507.8	130.975	2.2
12796	90.06	137.13	7416.18	5598.2	-3679.6	4223.29	1838569	223405.2	39°06'43.1	80°04'08.0	5601.4	131.064	1.8
12890	90.18	134.48	7415.99	5692.08	-3746.99	4288.81	1838634	223337.8	39°06'42.4	80°04'07.2	5695.07	131.143	2.82
12984	89.63	131.91	7416.14	5786.07	-3811.33	4357.33	1838703	223273.5	39°06'41.8	80°04'06.3	5789	131.176	2.8
13077	90.12	132.06	7416.35	5879.05	-3873.54	4426.46	1838772	223211.3	39°06'41.2	80°04'05.4	5881.99	131.189	0.55
13171	89.17	134.99	7416.93	5973.04	-3938.26	4494.61	1838840	223146.5	39°06'40.5	80°04'04.5	5975.9	131.225	3.28
13265	89.42	133.92	7418.09	6067	-4004.09	4561.7	1838907	223080.7	39°06'39.9	80°04'03.7	6069.75	131.275	1.17
13359	89.63	133.37	7418.86	6160.99	-4068.96	4629.72	1838975	223015.8	39°06'39.2	80°04'02.8	6163.66	131.312	0.63
13452	89.35	132.59	7419.69	6253.98	-4132.36	4697.75	1839043	222952.4	39°06'38.6	80°04'01.9	6256.62	131.336	0.89
13546	89.63	132.94	7420.53	6347.98	-4196.19	4766.76	1839112	222888.6	39°06'38.0	80°04'01.1	6350.59	131.358	0.48
13598	90.15	131.29	7420.63	6399.97	-4231.06	4805.33	1839151	222853.7	39°06'37.6	80°04'00.6	6402.58	131.364	3.33
13691	90.15	129.9	7420.39	6492.89	-4291.57	4875.95	1839221	222793.2	39°06'37.1	80°03'59.7	6495.57	131.353	1.49
13784	89.78	129.04	7420.44	6585.71	-4350.69	4947.74	1839293	222734.1	39°06'36.5	80°03'58.8	6588.52	131.326	1.01
13878	90.86	129.52	7419.92	6679.51	-4410.2	5020.5	1839366	222674.6	39°06'35.9	80°03'57.8	6682.46	131.297	1.26
13972	90.4	129.94	7418.88	6773.35	-4470.28	5092.79	1839438	222614.5	39°06'35.3	80°03'56.9	6776.42	131.276	0.66
14066	91.26	129.12	7417.52	6867.16	-4530.1	5165.28	1839511	222554.7	39°06'34.7	80°03'56.0	6870.36	131.252	1.26
14160	91.23	129.42	7415.48	6960.94	-4589.58	5238.03	1839584	222495.2	39°06'34.1	80°03'55.1	6964.29	131.225	0.32
14254	90.31	130.75	7414.22	7054.81	-4650.11	5309.94	1839655	222434.7	39°06'33.5	80°03'54.1	7058.26	131.21	1.72
14348	89.88	131.16	7414.06	7148.75	-4711.72	5380.93	1839726	222373.1	39°06'32.9	80°03'53.2	7152.25	131.206	0.63
14424	90.37	131.38	7413.9	7242.71	-4761.85	5438.06	1839784	222313	39°06'32.4	80°03'52.5	7228.25	131.207	0.71
14518	90.77	132.32	7412.96	7318.69	-4824.56	5508.07	1839854	222260.3	39°06'31.8	80°03'51.6	7322.24	131.215	1.09
14612	91.08	132.08	7411.44	7412.67	-4887.69	5577.7	1839923	222197.1	39°06'31.2	80°03'50.7	7416.22	131.228	0.42
14674	91.02	132.71	7410.31	7474.65	-4929.49	5623.48	1839969	222155.3	39°06'30.8	80°03'50.1	7478.19	131.238	1

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14768	90.18	137.63	7409.32	7568.55	-4996.13	5689.72	1840035	222088.7	39°06'30.1	80°03'49.3	7571.94	131.286	5.31
14862	88.95	135.72	7410.04	7662.35	-5064.51	5754.21	1840100	222020.3	39°06'29.5	80°03'48.5	7665.52	131.352	2.42
14956	90.62	133.3	7410.39	7756.31	-5130.39	5821.24	1840167	221954.4	39°06'28.8	80°03'47.6	7759.37	131.39	3.13
15050	89.38	132.1	7410.39	7850.3	-5194.14	5890.32	1840236	221890.7	39°06'28.2	80°03'46.7	7853.34	131.406	1.84
15144	91.6	133.9	7409.58	7944.29	-5258.24	5959.06	1840305	221826.6	39°06'27.6	80°03'45.9	7947.29	131.425	3.04
15237	90.77	136.83	7407.66	8037.18	-5324.39	6024.38	1840370	221760.4	39°06'26.9	80°03'45.0	8040.04	131.471	3.27
15331	90.95	138.78	7406.25	8130.83	-5394.02	6087.5	1840433	221690.8	39°06'26.2	80°03'44.2	8133.46	131.544	2.08
15425	90.37	139.02	7405.17	8224.33	-5464.85	6149.29	1840495	221620	39°06'25.5	80°03'43.4	8226.69	131.627	0.67
15519	90.89	136.13	7404.13	8318.01	-5534.23	6212.69	1840558	221550.6	39°06'24.9	80°03'42.6	8320.17	131.694	3.12
15613	92.19	136.49	7401.61	8411.82	-5602.17	6277.6	1840623	221482.7	39°06'24.2	80°03'41.8	8413.83	131.746	1.43
15707	91.39	137.66	7398.67	8505.53	-5670.97	6341.59	1840687	221413.9	39°06'23.5	80°03'41.0	8507.39	131.805	1.51
15800	91.42	137.1	7396.39	8598.23	-5739.38	6404.54	1840750	221345.5	39°06'22.8	80°03'40.2	8599.92	131.865	0.6
15894	91.45	134.44	7394.04	8692.09	-5806.71	6470.08	1840816	221278.1	39°06'22.2	80°03'39.3	8693.67	131.907	2.83
15988	90.74	132.71	7392.24	8786.06	-5871.49	6538.17	1840884	221213.3	39°06'21.5	80°03'38.5	8787.61	131.925	1.99
16081	90.52	131.55	7391.22	8879.04	-5933.87	6607.13	1840953	221151	39°06'20.9	80°03'37.6	8880.6	131.927	1.27
16175	90.68	129.39	7390.23	8972.94	-5994.88	6678.63	1841024	221090	39°06'20.3	80°03'36.7	8974.56	131.912	2.3
16269	90.62	131.5	7389.17	9066.84	-6055.85	6750.16	1841096	221029	39°06'19.7	80°03'35.8	9068.52	131.897	2.25
16363	91.11	133.27	7387.75	9160.81	-6119.2	6819.58	1841165	220965.6	39°06'19.1	80°03'34.9	9162.5	131.902	1.95
16457	91.94	135.32	7385.24	9254.75	-6184.82	6886.84	1841232	220900	39°06'18.5	80°03'34.0	9256.38	131.926	2.35
16550	92.56	133.92	7381.59	9347.64	-6250.09	6952.98	1841298	220834.8	39°06'17.8	80°03'33.2	9349.2	131.953	1.65
16644	92.31	133.7	7377.6	9441.55	-6315.11	7020.75	1841366	220769.7	39°06'17.2	80°03'32.3	9443.07	131.971	0.35
16738	92.37	131.22	7373.76	9535.46	-6378.51	7090.04	1841436	220706.3	39°06'16.6	80°03'31.4	9536.98	131.976	2.64
16832	92.12	128.01	7370.08	9629.21	-6438.39	7162.38	1841508	220646.5	39°06'16.0	80°03'30.5	9630.82	131.953	3.42
16926	92.31	126.65	7366.44	9722.68	-6495.35	7237.07	1841583	220589.5	39°06'15.4	80°03'29.5	9724.44	131.908	1.46
17019	91.76	128.08	7363.14	9815.16	-6551.75	7310.94	1841656	220533.1	39°06'14.9	80°03'28.6	9817.09	131.865	1.65
17113	91.82	129.65	7360.21	9908.87	-6610.71	7384.09	1841730	220474.2	39°06'14.3	80°03'27.7	9910.91	131.837	1.67
17207	91.32	132.22	7357.63	10002.77	-6672.27	7455.07	1841801	220412.6	39°06'13.7	80°03'26.8	10004.86	131.828	2.78
17301	91.51	136.76	7355.31	10096.68	-6738.1	7522.09	1841868	220346.8	39°06'13.0	80°03'25.9	10098.7	131.853	4.83
17394	90.31	138.97	7353.83	10189.33	-6807.05	7584.47	1841930	220277.8	39°06'12.4	80°03'25.1	10191.18	131.908	2.7
17442	90.31	138.97	7353.57	10237.07	-6843.26	7615.98	1841961	220241.6	39°06'12.0	80°03'24.7	10238.82	131.941	0

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]				
AUD7B-HS ST01 BHL:P		7429.92	-6843.11	7617.39	1841963	220241.8	39°06'12.0	80°03'24.7	point	
Lease Line Corner to A		7500	-4686.84	5871.72	1840217	222398	39°06'33.2	80°03'47.0	point	
AUB7B-HS ST01 Contir		7501.83	-4035.37	4602.31	1838948	223049.4	39°06'39.6	80°04'03.2	point	
AUD7B-HS ST01 LP:Pla		7595	-392.97	700.47	1835046	226691.7	39°07'15.3	80°04'53.0	point	

WELLPATH COMPOSITION Ref Wellbore: AUB7BHS ST01 (AWB) Ref Wellpath: AUB7BHS ST01 (AWP) Proj: 17442'

Log Name/	Start MD	End MD	Pos	Unc	Model
	[ft]	[ft]			
01_VES Gy	28.5	6516.5	Generic gyro	-	northseeking (Standard)
02_BHI ATi	6516.5	13598	NaviTrak	-	(AT Curve Short Spaced)
03_BHI ATi	13598	14612	NaviTrak	-	(MagCorr)
02_BHI ATi	14612	17394	NaviTrak	-	(AT Curve Short Spaced)
Projection	17394	17442	Blind Drilling	-	(std)

COMMENTS

Wellpath general comments
 VES Gyro Surveys OH: (116.5'-7686.5')
 BHI ATCurve Surveys ST01: (6516.5')(6602'-17394')
 TD Projected to MD: 17442'

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 Office of Oil and Gas
 12/18/2014
 WV Department of
 Environmental Protection