

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 1 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert Louisiana State Planes, Southern Zone (1702), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Lairgilg
Scale	1.00049	Report Generated	4/8/2009 at 2:53:44 PM
Convergence at slot	0.14° East	Database/Source file	WA_Houston/A-12_ST01_AWB_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	1434.84	-5984.95	2087615.06	-220011.64	28°03'41.280"N	91°03'42.548"W
Facility Reference Pt			2093600.00	-221446.48	28°03'26.934"N	91°02'35.819"W
Field Reference Pt			2078000.00	-207484.94	28°05'45.470"N	91°05'29.520"W

WELLPATH DATUM

Calculation method	Minimum curvature	Gorilla IV (RKB) to MSL	155.00ft
Horizontal Reference Pt	Slot	Gorilla IV (RKB) to MSL	155.00ft
Vertical Reference Pt	Gorilla IV (RKB)	MSL to Mud Line (Facility)	365.00ft
MD Reference Pt	Gorilla IV (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	MSL	Section Azimuth	198.11°

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 2 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00	0.000	110.450	0.00	0.00	0.00	0.00	2087615.06	-220011.64	28°03'41.280"N	91°03'42.548"W	0.00	0.000	0.00
530.00	0.000	110.450	530.00	0.00	0.00	0.00	2087615.06	-220011.64	28°03'41.280"N	91°03'42.548"W	0.00	0.000	0.00
598.60	1.600	110.450	598.59	0.04	-0.33	0.90	2087615.96	-220011.98	28°03'41.276"N	91°03'42.538"W	0.96	110.450	2.33
697.10	2.550	73.730	697.03	-1.14	-0.20	4.29	2087619.35	-220011.84	28°03'41.278"N	91°03'42.500"W	4.29	92.685	1.61
795.70	1.570	59.040	795.57	-3.40	1.11	7.55	2087622.61	-220010.53	28°03'41.291"N	91°03'42.464"W	7.63	81.653	1.12
894.20	0.670	215.020	894.06	-3.87	1.33	8.38	2087623.44	-220010.31	28°03'41.293"N	91°03'42.454"W	8.49	80.977	2.23
992.80	2.650	220.790	992.61	-1.21	-0.87	6.56	2087621.62	-220012.51	28°03'41.271"N	91°03'42.475"W	6.62	97.531	2.01
1091.30	3.620	220.590	1090.96	3.76	-4.95	3.05	2087618.11	-220016.60	28°03'41.231"N	91°03'42.514"W	5.82	148.381	0.98
1189.90	4.800	215.630	1189.29	10.57	-10.67	-1.38	2087613.68	-220022.31	28°03'41.174"N	91°03'42.564"W	10.76	187.366	1.25
1288.40	5.740	215.030	1287.38	19.21	-18.05	-6.61	2087608.45	-220029.70	28°03'41.101"N	91°03'42.622"W	19.22	200.103	0.96
1387.00	7.410	216.190	1385.32	29.97	-27.22	-13.19	2087601.87	-220038.87	28°03'41.011"N	91°03'42.696"W	30.25	205.856	1.70
1485.50	9.320	217.390	1482.77	43.54	-38.69	-21.79	2087593.27	-220050.33	28°03'40.897"N	91°03'42.792"W	44.40	209.387	1.95
1584.10	9.770	220.260	1580.01	58.83	-51.41	-32.04	2087583.02	-220063.06	28°03'40.772"N	91°03'42.907"W	60.58	211.931	0.66
1682.60	7.490	221.370	1677.39	72.47	-62.61	-41.69	2087573.37	-220074.25	28°03'40.661"N	91°03'43.015"W	75.22	213.656	2.32
1781.20	7.080	221.080	1775.19	83.97	-72.02	-49.93	2087565.13	-220083.66	28°03'40.568"N	91°03'43.107"W	87.63	214.733	0.42
1879.70	6.380	221.350	1873.01	94.59	-80.70	-57.53	2087557.53	-220092.34	28°03'40.483"N	91°03'43.192"W	99.11	215.486	0.71
1978.30	4.780	219.810	1971.14	103.44	-87.97	-63.78	2087551.28	-220099.61	28°03'40.411"N	91°03'43.262"W	108.66	215.944	1.63
2076.80	4.400	219.790	2069.32	110.76	-94.02	-68.83	2087546.23	-220105.67	28°03'40.351"N	91°03'43.318"W	116.52	216.205	0.39
2175.40	4.390	216.750	2167.63	117.85	-99.95	-73.51	2087541.55	-220111.60	28°03'40.292"N	91°03'43.371"W	124.07	216.331	0.24
2273.90	3.670	220.560	2265.89	124.34	-105.37	-77.81	2087537.25	-220117.01	28°03'40.239"N	91°03'43.419"W	130.99	216.445	0.78
2372.50	3.200	221.930	2364.31	129.77	-109.81	-81.70	2087533.36	-220121.46	28°03'40.195"N	91°03'43.462"W	136.87	216.650	0.48
2471.00	2.720	225.460	2462.68	134.36	-113.50	-85.21	2087529.85	-220125.14	28°03'40.159"N	91°03'43.501"W	141.92	216.896	0.52
2569.60	2.240	228.640	2561.19	138.10	-116.41	-88.32	2087526.74	-220128.06	28°03'40.130"N	91°03'43.536"W	146.12	217.187	0.51
2668.10	2.200	229.590	2659.61	141.37	-118.91	-91.20	2087523.86	-220130.55	28°03'40.105"N	91°03'43.569"W	149.86	217.488	0.06
2766.70	2.060	225.430	2758.15	144.56	-121.38	-93.91	2087521.15	-220133.02	28°03'40.081"N	91°03'43.599"W	153.47	217.728	0.21
2865.20	2.040	225.340	2856.58	147.69	-123.86	-96.42	2087518.64	-220135.50	28°03'40.056"N	91°03'43.627"W	156.96	217.899	0.02
2963.80	1.760	222.970	2955.13	150.63	-126.20	-98.70	2087516.36	-220137.84	28°03'40.033"N	91°03'43.652"W	160.21	218.028	0.29
3062.30	1.710	223.220	3053.58	153.33	-128.38	-100.73	2087514.33	-220140.02	28°03'40.012"N	91°03'43.675"W	163.18	218.121	0.05
3160.90	1.430	218.250	3152.15	155.82	-130.41	-102.50	2087512.56	-220142.06	28°03'39.992"N	91°03'43.695"W	165.87	218.167	0.32
3259.40	1.150	224.300	3250.62	157.86	-132.09	-103.95	2087511.11	-220143.73	28°03'39.975"N	91°03'43.711"W	168.09	218.203	0.32

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 3 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
3358.00	0.930	238.710	3349.20	159.35	-133.21	-105.33	2087509.73	-220144.85	28°03'39.964"N	91°03'43.726"W	169.82	218.333	0.34
3456.50	0.960	228.440	3447.69	160.67	-134.17	-106.63	2087508.43	-220145.82	28°03'39.954"N	91°03'43.741"W	171.38	218.475	0.17
3555.10	0.950	230.310	3546.28	162.08	-135.24	-107.88	2087507.18	-220146.89	28°03'39.944"N	91°03'43.755"W	173.00	218.578	0.03
3653.60	0.750	235.630	3644.77	163.28	-136.13	-109.04	2087506.02	-220147.77	28°03'39.935"N	91°03'43.768"W	174.41	218.694	0.22
3752.20	0.750	241.730	3743.36	164.26	-136.80	-110.14	2087504.92	-220148.44	28°03'39.929"N	91°03'43.780"W	175.62	218.838	0.08
3850.70	0.670	240.270	3841.85	165.15	-137.39	-111.21	2087503.85	-220149.03	28°03'39.923"N	91°03'43.792"W	176.76	218.987	0.08
3949.30	0.600	234.020	3940.45	166.00	-137.98	-112.12	2087502.94	-220149.62	28°03'39.917"N	91°03'43.802"W	177.79	219.098	0.10
4047.80	0.900	252.460	4038.94	166.87	-138.51	-113.28	2087501.78	-220150.16	28°03'39.912"N	91°03'43.815"W	178.94	219.277	0.39
4146.40	1.100	249.770	4137.52	167.90	-139.07	-114.91	2087500.15	-220150.72	28°03'39.906"N	91°03'43.833"W	180.40	219.564	0.21
4244.90	1.190	250.550	4236.00	169.11	-139.74	-116.76	2087498.30	-220151.38	28°03'39.900"N	91°03'43.854"W	182.10	219.879	0.09
4343.50	2.680	244.500	4334.54	171.33	-141.08	-119.80	2087495.26	-220152.72	28°03'39.886"N	91°03'43.888"W	185.08	220.338	1.52
4442.00	2.770	225.620	4432.93	175.03	-143.73	-123.58	2087491.48	-220155.37	28°03'39.860"N	91°03'43.930"W	189.56	220.689	0.91
4540.60	3.260	193.030	4531.40	179.93	-148.13	-125.92	2087489.14	-220159.77	28°03'39.817"N	91°03'43.957"W	194.42	220.366	1.78
4639.10	5.840	183.380	4629.59	187.57	-155.86	-126.84	2087488.22	-220167.51	28°03'39.740"N	91°03'43.967"W	200.95	219.140	2.72
4737.70	8.580	180.830	4727.40	199.45	-168.23	-127.25	2087487.81	-220179.87	28°03'39.618"N	91°03'43.972"W	210.93	217.104	2.80
4836.20	11.700	181.220	4824.35	216.02	-185.56	-127.57	2087487.49	-220197.21	28°03'39.446"N	91°03'43.976"W	225.18	214.507	3.17
4934.80	15.020	182.300	4920.27	237.89	-208.33	-128.29	2087486.77	-220219.97	28°03'39.221"N	91°03'43.985"W	244.66	211.625	3.38
5033.30	18.040	181.020	5014.68	264.76	-236.34	-129.08	2087485.98	-220247.98	28°03'38.944"N	91°03'43.994"W	269.29	208.641	3.09
5131.90	21.260	180.670	5107.53	296.41	-269.49	-129.56	2087485.50	-220281.13	28°03'38.616"N	91°03'44.000"W	299.01	205.676	3.27
5230.40	24.600	179.660	5198.23	332.91	-307.86	-129.64	2087485.42	-220319.50	28°03'38.236"N	91°03'44.002"W	334.04	202.837	3.41
5329.00	27.640	178.470	5286.75	373.92	-351.25	-128.91	2087486.15	-220362.90	28°03'37.807"N	91°03'43.995"W	374.16	200.153	3.13
5427.50	30.300	176.630	5372.92	418.57	-398.91	-126.84	2087488.22	-220410.55	28°03'37.335"N	91°03'43.973"W	418.59	197.639	2.85
5526.10	32.540	175.240	5457.06	466.16	-450.17	-123.18	2087491.88	-220461.81	28°03'36.827"N	91°03'43.934"W	466.72	195.303	2.39
5624.60	35.330	174.990	5538.78	516.77	-504.95	-118.49	2087496.57	-220516.60	28°03'36.285"N	91°03'43.883"W	518.67	193.206	2.84
5723.20	37.790	174.200	5617.97	570.61	-563.42	-112.95	2087502.11	-220575.06	28°03'35.706"N	91°03'43.823"W	574.63	191.336	2.54
5821.70	40.340	175.040	5694.44	627.54	-625.21	-107.14	2087507.92	-220636.86	28°03'35.095"N	91°03'43.760"W	634.33	189.724	2.64
5920.30	42.690	174.380	5768.27	687.51	-690.28	-101.11	2087513.95	-220701.93	28°03'34.451"N	91°03'43.694"W	697.65	188.333	2.42
6018.80	43.460	175.100	5840.22	749.27	-757.27	-94.94	2087520.12	-220768.91	28°03'33.787"N	91°03'43.627"W	763.20	187.146	0.93
6117.40	43.480	175.780	5911.78	811.86	-824.89	-89.55	2087525.51	-220836.53	28°03'33.118"N	91°03'43.569"W	829.74	186.196	0.47
6215.90	43.430	177.040	5983.28	874.80	-892.50	-85.31	2087529.75	-220904.14	28°03'32.449"N	91°03'43.523"W	896.57	185.460	0.88

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 4 of 9

REFERENCE WELLPATH IDENTIFICATION			
Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
6314.50	43.660	178.470	6054.75	938.48	-960.37	-82.65	2087532.41	-220972.01	28°03'31.777"N	91°03'43.495"W	963.92	184.919	1.03
6413.00	43.540	179.830	6126.08	1002.72	-1028.29	-81.64	2087533.42	-221039.93	28°03'31.105"N	91°03'43.486"W	1031.52	184.539	0.96
6511.60	43.410	180.240	6197.63	1067.21	-1096.13	-81.68	2087533.38	-221107.77	28°03'30.433"N	91°03'43.488"W	1099.17	184.262	0.32
6610.10	43.630	180.140	6269.06	1131.75	-1163.96	-81.91	2087533.15	-221175.60	28°03'29.762"N	91°03'43.492"W	1166.83	184.025	0.23
6708.70	43.560	180.620	6340.47	1196.51	-1231.94	-82.36	2087532.70	-221243.59	28°03'29.089"N	91°03'43.499"W	1234.69	183.825	0.34
6807.30	43.450	181.200	6411.99	1261.35	-1299.81	-83.43	2087531.63	-221311.45	28°03'28.418"N	91°03'43.513"W	1302.49	183.673	0.42
6905.80	43.570	181.310	6483.42	1326.25	-1367.61	-84.92	2087530.14	-221379.25	28°03'27.747"N	91°03'43.531"W	1370.25	183.553	0.14
7004.40	43.500	181.100	6554.90	1391.23	-1435.51	-86.35	2087528.71	-221447.15	28°03'27.075"N	91°03'43.549"W	1438.11	183.442	0.16
7102.90	43.440	181.250	6626.39	1456.06	-1503.26	-87.74	2087527.32	-221514.90	28°03'26.404"N	91°03'43.566"W	1505.82	183.340	0.12
7201.50	43.580	181.380	6697.90	1521.05	-1571.13	-89.30	2087525.76	-221582.77	28°03'25.733"N	91°03'43.586"W	1573.67	183.253	0.17
7300.00	43.830	181.350	6769.10	1586.22	-1639.17	-90.92	2087524.14	-221650.81	28°03'25.059"N	91°03'43.605"W	1641.69	183.175	0.25
7400.00	43.480	181.840	6841.46	1652.40	-1708.17	-92.84	2087522.22	-221719.81	28°03'24.376"N	91°03'43.629"W	1710.69	183.111	0.49
7500.00	43.560	182.740	6913.97	1718.65	-1776.98	-95.59	2087519.47	-221788.62	28°03'23.695"N	91°03'43.661"W	1779.55	183.079	0.62
7600.00	43.400	181.230	6986.53	1784.75	-1845.74	-97.97	2087517.09	-221857.38	28°03'23.015"N	91°03'43.690"W	1848.34	183.038	1.05
7700.00	43.490	181.900	7059.14	1850.67	-1914.48	-99.85	2087515.21	-221926.12	28°03'22.335"N	91°03'43.712"W	1917.08	182.986	0.47
7800.00	43.200	180.280	7131.86	1916.30	-1983.10	-101.16	2087513.90	-221994.74	28°03'21.656"N	91°03'43.729"W	1985.68	182.920	1.15
7900.00	43.510	180.240	7204.57	1981.64	-2051.75	-101.47	2087513.59	-222063.39	28°03'20.976"N	91°03'43.734"W	2054.26	182.831	0.31
8000.00	42.320	180.730	7277.81	2046.54	-2119.84	-102.05	2087513.02	-222131.48	28°03'20.302"N	91°03'43.742"W	2122.30	182.756	1.24
8100.00	42.160	180.090	7351.84	2110.58	-2187.06	-102.53	2087512.53	-222198.70	28°03'19.637"N	91°03'43.749"W	2189.46	182.684	0.46
8200.00	40.970	181.630	7426.66	2173.93	-2253.40	-103.51	2087511.55	-222265.04	28°03'18.981"N	91°03'43.762"W	2255.77	182.630	1.57
8300.00	38.920	180.670	7503.33	2235.34	-2317.58	-104.81	2087510.25	-222329.22	28°03'18.345"N	91°03'43.778"W	2319.95	182.589	2.14
8400.00	39.090	181.960	7581.04	2295.59	-2380.50	-106.26	2087508.80	-222392.14	28°03'17.723"N	91°03'43.796"W	2382.87	182.556	0.83
8473.00	41.930	184.710	7636.54	2341.44	-2427.83	-109.05	2087506.01	-222439.46	28°03'17.254"N	91°03'43.829"W	2430.27	182.572	4.60
8568.00	44.200	182.260	7705.94	2404.18	-2492.56	-112.96	2087502.10	-222504.20	28°03'16.614"N	91°03'43.874"W	2495.12	182.595	2.97
8600.00	44.260	182.460	7728.87	2425.67	-2514.86	-113.88	2087501.18	-222526.50	28°03'16.393"N	91°03'43.885"W	2517.44	182.593	0.47
8981.00	35.800	174.800	8020.52	2656.59	-2759.26	-109.48	2087505.58	-222770.90	28°03'13.974"N	91°03'43.842"W	2761.43	182.272	2.57
9078.00	33.400	175.400	8100.36	2707.28	-2814.14	-104.76	2087510.30	-222825.78	28°03'13.431"N	91°03'43.791"W	2816.09	182.132	2.50
9172.00	30.700	179.400	8180.03	2753.89	-2863.94	-102.44	2087512.62	-222875.57	28°03'12.938"N	91°03'43.766"W	2865.77	182.048	3.65
9266.00	28.700	179.700	8261.68	2798.03	-2910.51	-102.07	2087512.99	-222922.14	28°03'12.477"N	91°03'43.763"W	2912.29	182.008	2.13
9362.00	26.400	182.200	8346.79	2840.44	-2954.89	-102.77	2087512.29	-222966.53	28°03'12.038"N	91°03'43.772"W	2956.68	181.992	2.68

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 5 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
9457.00	24.100	185.100	8432.71	2879.65	-2995.32	-105.30	2087509.76	-223006.96	28°03'11.638"N	91°03'43.802"W	2997.17	182.013	2.75
9553.00	21.900	188.600	8521.08	2916.41	-3032.55	-109.72	2087505.34	-223044.19	28°03'11.270"N	91°03'43.852"W	3034.54	182.072	2.70
9649.00	20.000	192.500	8610.73	2950.41	-3066.29	-115.95	2087499.11	-223077.92	28°03'10.936"N	91°03'43.922"W	3068.48	182.166	2.45
9743.00	18.200	196.300	8699.56	2981.09	-3096.07	-123.55	2087491.51	-223107.71	28°03'10.641"N	91°03'44.008"W	3098.54	182.285	2.33
9838.00	16.400	200.600	8790.26	3009.32	-3122.87	-132.44	2087482.62	-223134.51	28°03'10.376"N	91°03'44.108"W	3125.68	182.428	2.32
9934.00	14.700	205.000	8882.75	3034.95	-3146.60	-142.35	2087472.71	-223158.23	28°03'10.142"N	91°03'44.219"W	3149.82	182.590	2.15
10029.00	12.900	210.600	8975.01	3057.27	-3166.65	-152.85	2087462.21	-223178.29	28°03'09.943"N	91°03'44.337"W	3170.34	182.763	2.36
10124.00	11.600	215.700	9067.84	3076.73	-3183.54	-163.82	2087451.24	-223195.17	28°03'09.777"N	91°03'44.459"W	3187.75	182.946	1.78
10220.00	10.800	221.500	9162.02	3094.19	-3198.11	-175.41	2087439.65	-223209.75	28°03'09.633"N	91°03'44.589"W	3202.92	183.139	1.44
10314.00	10.000	227.700	9254.48	3109.37	-3210.20	-187.28	2087427.78	-223221.84	28°03'09.513"N	91°03'44.722"W	3215.66	183.339	1.46
10410.00	9.000	234.100	9349.16	3122.70	-3220.21	-199.53	2087415.53	-223231.85	28°03'09.414"N	91°03'44.859"W	3226.39	183.546	1.51
10505.00	8.000	242.200	9443.12	3133.46	-3227.66	-211.40	2087403.66	-223239.29	28°03'09.341"N	91°03'44.991"W	3234.57	183.747	1.64
10601.00	7.200	252.000	9538.28	3141.80	-3232.63	-223.03	2087392.03	-223244.27	28°03'09.292"N	91°03'45.121"W	3240.32	183.947	1.58
10696.00	6.600	262.300	9632.59	3147.69	-3235.20	-234.10	2087380.96	-223246.84	28°03'09.267"N	91°03'45.245"W	3243.66	184.139	1.44
10792.00	6.700	272.100	9727.95	3151.63	-3235.74	-245.17	2087369.89	-223247.37	28°03'09.262"N	91°03'45.368"W	3245.01	184.333	1.19
10887.00	6.700	282.600	9822.31	3153.70	-3234.32	-256.12	2087358.94	-223245.96	28°03'09.276"N	91°03'45.490"W	3244.45	184.528	1.29
10983.00	6.400	287.700	9917.68	3154.27	-3231.48	-266.68	2087348.38	-223243.11	28°03'09.305"N	91°03'45.608"W	3242.46	184.718	0.68
11078.00	6.000	287.600	10012.12	3154.35	-3228.36	-276.46	2087338.61	-223240.00	28°03'09.336"N	91°03'45.717"W	3240.18	184.894	0.42
11174.00	5.900	289.500	10107.61	3154.28	-3225.20	-285.89	2087329.17	-223236.84	28°03'09.367"N	91°03'45.822"W	3237.85	185.066	0.23
11269.00	6.000	294.000	10202.10	3153.65	-3221.55	-295.03	2087320.03	-223233.19	28°03'09.403"N	91°03'45.924"W	3235.03	185.233	0.50
11365.00	6.800	297.400	10297.50	3152.22	-3216.89	-304.66	2087310.40	-223228.53	28°03'09.450"N	91°03'46.031"W	3231.29	185.410	0.92
11458.00	6.700	297.300	10389.85	3150.46	-3211.87	-314.37	2087300.69	-223223.51	28°03'09.500"N	91°03'46.140"W	3227.22	185.590	0.11
11554.00	6.200	295.500	10485.24	3148.90	-3207.07	-324.02	2087291.04	-223218.71	28°03'09.547"N	91°03'46.247"W	3223.40	185.769	0.56
11649.00	6.800	292.800	10579.63	3147.78	-3202.68	-333.84	2087281.22	-223214.32	28°03'09.591"N	91°03'46.357"W	3220.04	185.951	0.71
11745.00	6.800	293.200	10674.96	3146.81	-3198.24	-344.30	2087270.76	-223209.88	28°03'09.635"N	91°03'46.473"W	3216.72	186.144	0.05
11840.00	6.800	294.800	10769.29	3145.66	-3193.67	-354.57	2087260.49	-223205.30	28°03'09.681"N	91°03'46.588"W	3213.29	186.335	0.20
11935.00	6.900	295.600	10863.61	3144.26	-3188.84	-364.83	2087250.23	-223200.48	28°03'09.729"N	91°03'46.702"W	3209.64	186.527	0.15
12030.00	6.900	296.000	10957.92	3142.74	-3183.88	-375.10	2087239.96	-223195.51	28°03'09.778"N	91°03'46.816"W	3205.90	186.719	0.05
12125.00	6.800	295.900	11052.25	3141.19	-3178.92	-385.29	2087229.77	-223190.55	28°03'09.827"N	91°03'46.930"W	3202.18	186.911	0.11
12220.00	6.900	295.300	11146.57	3139.71	-3174.02	-395.51	2087219.55	-223185.66	28°03'09.876"N	91°03'47.044"W	3198.57	187.103	0.13

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 6 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
12316.00	6.800	295.600	11241.88	3138.25	-3169.10	-405.85	2087209.21	-223180.74	28°03'09.925"N	91°03'47.159"W	3194.98	187.298	0.11
12411.00	6.800	296.500	11336.21	3136.70	-3164.16	-415.95	2087199.11	-223175.80	28°03'09.974"N	91°03'47.272"W	3191.39	187.489	0.11
12506.00	6.700	295.700	11430.56	3135.15	-3159.25	-425.98	2087189.08	-223170.89	28°03'10.023"N	91°03'47.383"W	3187.84	187.679	0.14
12602.00	6.800	295.100	11525.89	3133.71	-3154.41	-436.17	2087178.89	-223166.05	28°03'10.071"N	91°03'47.497"W	3184.42	187.873	0.13
12697.00	6.900	292.900	11620.21	3132.55	-3149.80	-446.52	2087168.54	-223161.44	28°03'10.117"N	91°03'47.612"W	3181.30	188.069	0.30
12793.00	6.800	294.700	11715.53	3131.42	-3145.19	-457.00	2087158.06	-223156.82	28°03'10.163"N	91°03'47.729"W	3178.21	188.267	0.25
12888.00	6.800	295.800	11809.86	3130.02	-3140.39	-467.17	2087147.89	-223152.02	28°03'10.211"N	91°03'47.842"W	3174.95	188.461	0.14
12984.00	6.800	297.000	11905.18	3128.38	-3135.33	-477.35	2087137.71	-223146.97	28°03'10.261"N	91°03'47.956"W	3171.46	188.657	0.15
13079.00	6.800	297.600	11999.52	3126.59	-3130.17	-487.35	2087127.71	-223141.81	28°03'10.312"N	91°03'48.067"W	3167.89	188.850	0.07
13174.00	6.800	296.500	12093.85	3124.84	-3125.06	-497.36	2087117.70	-223136.70	28°03'10.363"N	91°03'48.179"W	3164.39	189.043	0.14
13235.00	6.900	295.500	12154.41	3123.84	-3121.87	-503.90	2087111.16	-223133.51	28°03'10.395"N	91°03'48.252"W	3162.28	189.169	0.26
13338.00	6.700	292.800	12256.69	3122.55	-3116.88	-515.03	2087100.03	-223128.52	28°03'10.444"N	91°03'48.376"W	3159.14	189.383	0.37
13382.00	6.800	291.200	12300.38	3122.20	-3114.94	-519.82	2087095.24	-223126.58	28°03'10.464"N	91°03'48.429"W	3158.02	189.474	0.48
13478.00	6.800	290.500	12395.71	3121.66	-3110.90	-530.44	2087084.62	-223122.53	28°03'10.504"N	91°03'48.547"W	3155.80	189.677	0.09
13573.00	6.700	289.500	12490.05	3121.29	-3107.08	-540.94	2087074.12	-223118.71	28°03'10.542"N	91°03'48.664"W	3153.81	189.876	0.16
13669.00	6.800	289.900	12585.38	3120.98	-3103.27	-551.56	2087063.50	-223114.91	28°03'10.580"N	91°03'48.783"W	3151.91	190.078	0.12
13764.00	6.700	290.400	12679.72	3120.58	-3099.43	-562.04	2087053.02	-223111.06	28°03'10.618"N	91°03'48.900"W	3149.97	190.278	0.12
13859.00	6.800	292.100	12774.07	3119.97	-3095.38	-572.45	2087042.61	-223107.02	28°03'10.659"N	91°03'49.015"W	3147.87	190.478	0.24
13955.00	6.700	293.000	12869.40	3119.10	-3091.05	-582.87	2087032.19	-223102.69	28°03'10.702"N	91°03'49.132"W	3145.53	190.679	0.15
14050.00	6.800	292.400	12963.74	3118.20	-3086.74	-593.17	2087021.89	-223098.38	28°03'10.745"N	91°03'49.246"W	3143.22	190.878	0.13
14145.00	5.900	291.800	13058.16	3117.47	-3082.79	-602.90	2087012.16	-223094.42	28°03'10.784"N	91°03'49.355"W	3141.19	191.066	0.95
14241.00	5.800	292.000	13153.66	3116.82	-3079.14	-611.98	2087003.08	-223090.77	28°03'10.820"N	91°03'49.456"W	3139.36	191.241	0.11
14336.00	6.100	292.700	13248.15	3116.09	-3075.39	-621.09	2086993.97	-223087.03	28°03'10.858"N	91°03'49.558"W	3137.48	191.418	0.32
14431.00	6.100	294.100	13342.61	3115.16	-3071.38	-630.35	2086984.71	-223083.02	28°03'10.897"N	91°03'49.661"W	3135.40	191.598	0.16
14527.00	6.100	294.100	13438.07	3114.10	-3067.22	-639.66	2086975.40	-223078.85	28°03'10.939"N	91°03'49.765"W	3133.21	191.780	0.00
14622.00	6.100	292.600	13532.53	3113.18	-3063.22	-648.93	2086966.13	-223074.85	28°03'10.979"N	91°03'49.868"W	3131.20	191.961	0.17
14718.00	6.100	291.500	13627.98	3112.48	-3059.39	-658.39	2086956.67	-223071.02	28°03'11.017"N	91°03'49.973"W	3129.43	192.145	0.12
14812.00	6.000	290.600	13721.46	3111.97	-3055.83	-667.63	2086947.43	-223067.46	28°03'11.052"N	91°03'50.076"W	3127.91	192.324	0.15
14908.00	6.100	290.000	13816.93	3111.58	-3052.32	-677.12	2086937.94	-223063.95	28°03'11.087"N	91°03'50.182"W	3126.52	192.508	0.12
15003.00	6.100	290.500	13911.39	3111.21	-3048.82	-686.59	2086928.47	-223060.46	28°03'11.122"N	91°03'50.288"W	3125.18	192.691	0.06

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 7 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
15097.00	6.100	291.300	14004.86	3110.72	-3045.26	-695.92	2086919.14	-223056.90	28°03'11.157"N	91°03'50.392"W	3123.77	192.873	0.09
15193.00	6.100	292.300	14100.31	3110.06	-3041.47	-705.40	2086909.67	-223053.11	28°03'11.195"N	91°03'50.497"W	3122.20	193.058	0.11
15671.00	6.800	288.300	14575.29	3108.12	-3022.95	-755.76	2086859.30	-223034.59	28°03'11.380"N	91°03'51.059"W	3115.99	194.037	0.17
15724.00	7.100	287.900	14627.90	3108.12	-3020.96	-761.86	2086853.20	-223032.59	28°03'11.400"N	91°03'51.126"W	3115.54	194.154	0.57
15820.00	7.900	285.500	14723.07	3108.44	-3017.37	-773.86	2086841.20	-223029.01	28°03'11.435"N	91°03'51.260"W	3115.03	194.385	0.89
15916.00	9.000	282.900	14818.03	3109.42	-3013.93	-787.54	2086827.52	-223025.57	28°03'11.470"N	91°03'51.413"W	3115.12	194.644	1.21
16011.00	10.000	280.800	14911.73	3111.15	-3010.73	-802.88	2086812.18	-223022.36	28°03'11.502"N	91°03'51.584"W	3115.94	194.932	1.11
16106.00	10.700	280.400	15005.18	3113.38	-3007.59	-819.66	2086795.40	-223019.23	28°03'11.533"N	91°03'51.771"W	3117.28	195.245	0.74
16202.00	11.000	284.000	15099.47	3115.23	-3003.76	-837.31	2086777.75	-223015.40	28°03'11.571"N	91°03'51.968"W	3118.28	195.576	0.77
16297.00	7.900	290.600	15193.17	3115.60	-2999.27	-852.22	2086762.84	-223010.91	28°03'11.616"N	91°03'52.134"W	3118.00	195.862	3.45
16392.00	6.700	303.300	15287.40	3113.86	-2993.93	-862.97	2086752.09	-223005.57	28°03'11.669"N	91°03'52.254"W	3115.82	196.079	2.11
16539.00†	6.700	303.300	15433.40	3109.37	-2984.52	-877.30	2086737.76	-222996.15	28°03'11.763"N	91°03'52.413"W	3110.79	196.381	0.00

HOLE & CASING SECTIONS Ref Wellbore: A-12 ST01 [AWB] Ref Wellpath: A-12 ST01 Surveys 8400'-16539'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
30in Casing	0.00	835.00	835.00	0.00	834.86	0.00	0.00	1.48	8.24
24in Casing	0.00	1618.00	1618.00	0.00	1613.45	0.00	0.00	-55.62	-35.62
20in Casing	0.00	3844.00	3844.00	0.00	3835.15	0.00	0.00	-137.35	-111.14
16in Casing	0.00	8165.00	8165.00	0.00	7400.32	0.00	0.00	-2230.36	-102.97
13.625in Casing	0.00	8400.00	8400.00	0.00	7581.04	0.00	0.00	-2380.50	-106.26
11.75in Casing	0.00	13280.00	13280.00	0.00	12199.09	0.00	0.00	-3119.61	-508.77
9.625in Casing	0.00	15132.00	15132.00	0.00	14039.66	0.00	0.00	-3043.90	-699.39
7in Casing	0.00	15624.00	15624.00	0.00	14528.61	0.00	0.00	-3024.70	-750.51

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 8 of 9

REFERENCE WELLPATH IDENTIFICATION

Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
A12ST1 T1-P (rev1): 50'R		14155.00	-3035.36	-715.06	2086900.00	-223047.00	28°03'11.256"N	91°03'50.605"W	circle

WELLPATH COMPOSITION Ref Wellbore: A-12 ST01 [AWB] Ref Wellpath: A-12 ST01 Surveys 8400'-16539'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8400.00	Generic gyro - northseeking (Standard)	GyroData GMS 530'-8900' [DEF]	A12 (AWB)
8400.00	13235.00	AutoTrak G3 (Magcorr1)	INTEQ MWD (ATK) 12-1/4"hole (8400') 8473'-13235'	A-12 ST01 [AWB]
13235.00	15193.00	AutoTrak G3 (Magcorr1)	INTEQ MWD (ATK) 10-5/8"hole 13338'-15193'	A-12 ST01 [AWB]
15193.00	16392.00	OnTrak (Magcorr1)	INTEQ MWD (OTK) 6-1/2"hole 15671'-16392' Proj: 16539'	A-12 ST01 [AWB]
16392.00	16539.00	Blind Drilling (std)	Projection to bit	A-12 ST01 [AWB]

Actual Wellpath Report

A-12 ST01 Surveys 8400'-16539'

Page 9 of 9

REFERENCE WELLPATH IDENTIFICATION			
Operator	W & T OFFSHORE	Slot	F (A12)
Area	Offshore Louisiana	Well	OCS-G-12010 A012 ST01BP00
Field	Ship Shoal 349/359	Wellbore	A-12 ST01 [AWB]
Facility	MAHOGANY PLATFORM	Sidetrack from	A12 (AWB) at 8400.00 MD

COMMENTS
Wellpath general comments Rig: Gorilla IV API #: 17-712-40652-01 BHI Job #: 2278401 Duration: 1/10/2009-4/04/2009 RKB-MSL=155ft WD=365ft FSE's: R. Oster, F. Sanatan, J. Kim, C. Vondenstein INTEQ MWD (ATK) 12-1/4"hole (8400') 8473'-13235' INTEQ MWD (ATK) 10-5/8"hole 13338'-15193' INTEQ MWD (OTK) 6-1/2"hole 15671'-16392' Proj TD: 16539' Migrated from Director