



Weatherford International Ltd.

DIRECTIONAL REPORT



Company: CHESAPEAKE	Date: 3/14/2013	Time: 10:38:56	Page: 1
Field: MARSHALL COUNTY (NAD 27)	Co-ordinate(NE) Reference: Well: 1H, Grid North		
Site: FORK RIDGE PAD	Vertical (TVD) Reference: SITE 1413.0		
Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,339.97Azi)		Survey Calculation Method: Minimum Curvature
Wellpath: HORIZONTAL	Db: Sybase		

Plan:	Date Composed:
Principal:	Version:
	Tied-to:

Field: MARSHALL COUNTY (NAD 27)	
Map System: JS State Plane Coordinate System 1927	Map Zone: West Virginia, Northern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: FORK RIDGE PAD		
Site Position:	Northing: 501556.11 ft	Latitude: 39 52 17.357 N
From: Map	Easting: 1680438.31 ft	Longitude: 80 38 18.794 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 1391.00 ft		Grid Convergence: -0.73 deg

Well: 1H		Slot Name:	
Well Position: +N/-S -8.11 ft	Northing: 501548.00 ft	Latitude: 39 52 17.275 N	
+E/-W -11.51 ft	Easting: 1680426.80 ft	Longitude: 80 38 18.941 W	
Position Uncertainty: 0.00 ft			

Wellpath: HORIZONTAL		Drilled From: Surface	
Current Datum: SITE	Height 1413.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 1/23/2013		Above System Datum: Mean Sea Level	
Field Strength: 52752 nT		Declination: -8.66 deg	
Vertical Section: Depth From (TVD)	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	339.97

Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	

Survey											
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	501548.00	1680426.80		
100.00	0.10	49.75	100.00	0.06	0.07	0.03	0.10	501548.06	1680426.87		
200.00	0.11	75.29	200.00	0.14	0.23	0.05	0.05	501548.14	1680427.03		
300.00	0.14	46.37	300.00	0.25	0.41	0.09	0.07	501548.25	1680427.21		
400.00	0.15	42.91	400.00	0.43	0.58	0.20	0.01	501548.43	1680427.38		
500.00	0.24	49.71	500.00	0.66	0.83	0.33	0.09	501548.66	1680427.63		
600.00	0.31	33.88	600.00	1.02	1.14	0.56	0.10	501549.02	1680427.94		
700.00	0.37	49.02	700.00	1.45	1.54	0.84	0.11	501549.45	1680428.34		
760.00	0.32	52.95	759.99	1.68	1.82	0.96	0.09	501549.68	1680428.62		
836.00	0.39	41.16	835.99	2.00	2.16	1.14	0.13	501550.00	1680428.96	FIRST MWD SVY	
867.00	1.01	352.18	866.99	2.35	2.19	1.46	2.61	501550.35	1680428.99		
899.00	1.98	329.02	898.98	3.11	1.87	2.28	3.51	501551.11	1680428.67		
930.00	3.32	328.76	929.95	4.33	1.13	3.69	4.32	501552.33	1680427.93		
962.00	4.52	324.86	961.87	6.16	-0.08	5.81	3.84	501554.16	1680426.72		
993.00	4.83	312.01	992.77	8.03	-1.75	8.14	3.51	501556.03	1680425.05		
1025.00	5.07	306.23	1024.65	9.77	-3.89	10.51	1.73	501557.77	1680422.91		
1056.00	5.30	303.71	1055.52	11.37	-6.19	12.80	1.04	501559.37	1680420.61		
1088.00	6.01	300.97	1087.37	13.05	-8.86	15.30	2.37	501561.05	1680417.94		
1119.00	6.60	298.63	1118.18	14.74	-11.81	17.90	2.08	501562.74	1680414.99		
1151.00	6.71	299.64	1149.96	16.55	-15.05	20.70	0.50	501564.55	1680411.75		

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MORGANTOWN, WV



Weatherford International Ltd.

DIRECTIONAL REPORT



Company: CHESAPEAKE	Date: 3/14/2013	Time: 10:38:56	Page: 2
Field: MARSHALL COUNTY (NAD 27)	Co-ordinate(NE) Reference: Well: 1H, Grid North		
Site: FORK RIDGE PAD	Vertical (TVD) Reference: SITE 1413.0		
Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,339.97Azi)		
Wellpath: HORIZONTAL	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
1245.00	7.90	306.16	1243.20	23.08	-25.04	30.26	1.54	501571.08	1680401.76	
1339.00	8.49	298.17	1336.24	30.16	-36.37	40.80	1.36	501578.16	1680390.43	
1432.00	7.63	296.62	1428.32	36.17	-47.94	50.41	0.95	501584.17	1680378.86	
1526.00	7.25	294.61	1521.53	41.44	-58.92	59.11	0.49	501589.44	1680367.88	
1621.00	6.82	294.02	1615.82	46.23	-69.52	67.24	0.46	501594.23	1680357.28	
1716.00	6.35	300.89	1710.19	51.22	-79.18	75.24	0.96	501599.22	1680347.62	
1811.00	6.34	306.50	1804.61	57.04	-87.90	83.70	0.65	501605.04	1680338.90	
1903.00	6.55	309.52	1896.03	63.40	-96.03	92.46	0.43	501611.40	1680330.77	
1998.00	6.54	303.64	1990.41	69.85	-104.72	101.49	0.71	501617.85	1680322.08	
2092.00	7.35	299.07	2083.72	75.73	-114.43	110.35	1.04	501623.73	1680312.37	
2186.00	7.40	294.95	2176.94	81.21	-125.17	119.17	0.56	501629.21	1680301.63	
2279.00	6.60	288.04	2269.25	85.39	-135.69	126.70	1.25	501633.39	1680291.11	
2374.00	3.39	280.37	2363.88	87.59	-143.64	131.49	3.44	501635.59	1680283.16	
2395.00	2.50	276.00	2384.85	87.75	-144.71	132.00	4.37	501635.75	1680282.09	
2500.00	1.19	273.37	2489.80	88.05	-148.08	133.44	1.25	501636.05	1680278.72	
2600.00	0.75	274.07	2589.78	88.16	-149.77	134.12	0.44	501636.16	1680277.03	
2700.00	0.71	277.23	2689.77	88.28	-151.03	134.67	0.06	501636.28	1680275.77	
2800.00	0.51	291.12	2789.77	88.52	-152.06	135.25	0.25	501636.52	1680274.74	
2900.00	0.41	282.35	2889.76	88.76	-152.83	135.73	0.12	501636.76	1680273.97	
3000.00	0.31	296.54	2989.76	88.95	-153.42	136.12	0.13	501636.95	1680273.38	
3100.00	0.36	294.92	3089.76	89.21	-153.95	136.54	0.05	501637.21	1680272.85	
3200.00	0.44	248.97	3189.76	89.20	-154.59	136.76	0.32	501637.20	1680272.21	
3300.00	0.49	318.21	3289.76	89.38	-155.23	137.15	0.53	501637.38	1680271.57	
3400.00	0.72	280.03	3389.75	89.81	-156.14	137.86	0.45	501637.81	1680270.66	
3500.00	0.66	277.00	3489.74	89.99	-157.33	138.43	0.07	501637.99	1680269.47	
3600.00	0.20	347.22	3589.74	90.23	-157.94	138.87	0.62	501638.23	1680268.86	
3700.00	0.33	352.51	3689.74	90.69	-158.01	139.32	0.13	501638.69	1680268.79	
3800.00	0.49	334.03	3789.74	91.36	-158.24	140.03	0.21	501639.36	1680268.56	
3900.00	0.37	330.10	3889.73	92.02	-158.59	140.77	0.12	501640.02	1680268.21	
4000.00	0.43	327.37	3989.73	92.62	-158.95	141.46	0.06	501640.62	1680267.85	
4100.00	0.43	314.56	4089.73	93.20	-159.42	142.16	0.10	501641.20	1680267.38	
4200.00	0.43	291.92	4189.73	93.60	-160.03	142.75	0.17	501641.60	1680266.77	
4300.00	0.51	221.25	4289.72	93.41	-160.68	142.79	0.55	501641.41	1680266.12	
4400.00	0.22	163.32	4389.72	92.89	-160.91	142.38	0.44	501640.89	1680265.89	
4500.00	0.36	281.34	4489.72	92.77	-161.17	142.36	0.50	501640.77	1680265.63	
4600.00	0.46	219.43	4589.72	92.52	-161.73	142.32	0.43	501640.52	1680265.07	
4700.00	0.20	58.34	4689.72	92.30	-161.84	142.15	0.65	501640.30	1680264.96	
4800.00	0.14	19.90	4789.72	92.50	-161.65	142.28	0.13	501640.50	1680265.15	
4900.00	0.49	196.56	4889.72	92.21	-161.73	142.03	0.63	501640.21	1680265.07	
5000.00	0.82	142.44	4989.71	91.23	-161.41	141.00	0.66	501639.23	1680265.39	
5100.00	1.04	136.09	5089.70	90.01	-160.35	139.49	0.24	501638.01	1680266.45	
5200.00	0.87	176.71	5189.68	88.60	-159.67	137.93	0.68	501636.60	1680267.13	
5300.00	0.57	182.92	5289.68	87.35	-159.66	136.75	0.31	501635.35	1680267.14	
5400.00	1.06	184.58	5389.67	85.93	-159.75	135.45	0.49	501633.93	1680267.05	
5500.00	0.69	195.85	5489.65	84.43	-159.99	134.12	0.41	501632.43	1680266.81	
5600.00	0.29	191.42	5589.65	83.60	-160.21	133.41	0.40	501631.60	1680266.59	
5700.00	0.67	181.92	5689.65	82.77	-160.28	132.66	0.39	501630.77	1680266.52	
5800.00	0.72	207.71	5789.64	81.63	-160.59	131.69	0.31	501629.63	1680266.21	
5900.00	0.84	232.94	5889.63	80.63	-161.47	131.05	0.36	501628.63	1680265.33	
5935.00	0.77	233.80	5924.63	80.33	-161.86	130.91	0.20	501628.33	1680264.94	
6036.00	0.36	263.76	6025.62	79.90	-162.72	130.80	0.49	501627.90	1680264.08	
6068.00	0.42	239.60	6057.62	79.83	-162.92	130.80	0.54	501627.83	1680263.88	

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Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,339.97Azi)		
Wellpath: HORIZONTAL	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6099.00	0.51	244.48	6088.62	79.71	-163.15	130.77	0.32	501627.71	1680263.65	
6131.00	1.50	268.93	6120.61	79.64	-163.69	130.89	3.30	501627.64	1680263.11	
6162.00	4.21	275.31	6151.57	79.74	-165.23	131.51	8.79	501627.74	1680261.57	
6193.00	6.11	279.73	6182.45	80.12	-167.99	132.82	6.26	501628.12	1680258.81	
6225.00	8.35	287.63	6214.19	81.12	-171.89	135.08	7.64	501629.12	1680254.91	
6256.00	10.71	292.73	6244.76	82.91	-176.69	138.41	8.08	501630.91	1680250.11	
6288.00	12.63	291.72	6276.10	85.35	-182.68	142.76	6.03	501633.35	1680244.12	
6319.00	15.32	290.14	6306.18	88.02	-189.68	147.66	8.76	501636.02	1680237.12	
6351.00	18.25	287.50	6336.81	90.98	-198.43	153.44	9.46	501638.98	1680228.37	
6382.00	21.07	285.15	6366.00	93.90	-208.44	159.61	9.45	501641.90	1680218.36	
6414.00	23.37	283.81	6395.62	96.92	-220.15	166.46	7.36	501644.92	1680206.65	
6445.00	24.84	283.23	6423.92	99.88	-232.46	173.46	4.80	501647.88	1680194.34	
6463.00	26.97	282.58	6440.11	101.63	-240.13	177.73	11.94	501649.63	1680186.67	
6494.00	29.85	281.87	6467.37	104.75	-254.54	185.60	9.35	501652.75	1680172.26	
6525.00	32.14	284.91	6493.95	108.46	-270.06	194.40	8.95	501656.46	1680156.74	
6557.00	34.99	290.86	6520.62	113.92	-286.87	205.28	13.59	501661.92	1680139.93	
6588.00	37.98	295.58	6545.54	121.20	-303.79	217.92	13.22	501669.20	1680123.01	
6620.00	40.55	300.92	6570.32	130.80	-321.60	233.04	13.26	501678.80	1680105.20	
6651.00	43.00	305.99	6593.45	142.20	-338.80	249.64	13.46	501690.20	1680088.00	
6683.00	44.58	308.89	6616.55	155.66	-356.38	268.31	7.98	501703.66	1680070.42	
6714.00	46.67	311.94	6638.23	170.03	-373.24	287.59	9.74	501718.03	1680053.56	
6746.00	49.78	312.87	6659.55	186.13	-390.85	308.74	9.96	501734.13	1680035.95	
6777.00	53.82	314.30	6678.71	202.93	-408.49	330.56	13.53	501750.93	1680018.31	
6809.00	58.21	316.26	6696.60	221.78	-427.14	354.67	14.63	501769.78	1679999.66	
6840.00	61.31	317.37	6712.21	241.31	-445.47	379.29	10.47	501789.31	1679981.33	
6872.00	64.59	318.61	6726.76	262.49	-464.53	405.72	10.82	501810.49	1679962.27	
6903.00	67.42	319.61	6739.37	283.89	-483.07	432.18	9.59	501831.89	1679943.73	
6935.00	68.79	320.02	6751.30	306.58	-502.23	460.05	4.44	501854.58	1679924.57	
6966.00	70.93	320.40	6761.97	328.94	-520.85	487.44	7.00	501876.94	1679905.95	
6998.00	73.25	322.40	6771.81	352.74	-539.84	516.30	9.38	501900.74	1679886.96	
7029.00	75.28	324.19	6780.22	376.66	-557.67	544.88	8.59	501924.66	1679869.13	
7060.00	76.72	324.97	6787.72	401.17	-575.11	573.88	5.25	501949.17	1679851.69	
7092.00	79.04	324.93	6794.44	426.78	-593.07	604.10	7.25	501974.78	1679833.73	
7123.00	81.72	325.76	6799.62	451.92	-610.45	633.67	9.04	501999.92	1679816.35	
7155.00	84.88	327.55	6803.35	478.47	-627.91	664.59	11.33	502026.47	1679798.89	
7186.00	86.43	328.19	6805.70	504.64	-644.35	694.82	5.41	502052.64	1679782.45	
7279.00	88.81	328.83	6809.56	583.87	-692.89	785.88	2.65	502131.87	1679733.91	
7374.00	88.88	328.14	6811.48	664.84	-742.53	878.96	0.73	502212.84	1679684.27	
7469.00	90.28	329.86	6812.17	746.27	-791.46	972.21	2.33	502294.27	1679635.34	
7564.00	90.21	329.46	6811.77	828.25	-839.45	1065.68	0.43	502376.25	1679587.35	
7659.00	92.03	330.84	6809.91	910.63	-886.72	1159.26	2.40	502458.63	1679540.08	
7753.00	92.17	330.85	6806.46	992.66	-932.48	1252.01	0.15	502540.66	1679494.32	
7848.00	90.42	332.04	6804.32	1076.08	-977.88	1345.93	2.23	502624.08	1679448.92	
7947.00	88.88	335.71	6804.92	1164.95	-1021.46	1444.35	4.02	502712.95	1679405.34	
8037.00	90.00	337.93	6805.80	1247.67	-1056.88	1534.20	2.76	502795.67	1679369.92	
8131.00	90.07	338.24	6805.74	1334.88	-1091.97	1628.15	0.34	502882.88	1679334.83	
8226.00	89.72	338.29	6805.92	1423.13	-1127.15	1723.11	0.37	502971.13	1679299.65	
8320.00	90.98	340.53	6805.34	1511.11	-1160.20	1817.09	2.73	503059.11	1679266.60	
8414.00	91.19	340.73	6803.56	1599.78	-1191.37	1911.07	0.31	503147.78	1679235.43	
8509.00	90.70	339.94	6802.00	1689.22	-1223.34	2006.05	0.98	503237.22	1679203.46	
8602.00	90.63	339.67	6800.92	1776.50	-1255.44	2099.05	0.30	503324.50	1679171.36	
8696.00	90.28	339.35	6800.17	1864.55	-1288.34	2193.04	0.50	503412.55	1679138.46	
8790.00	90.28	338.96	6799.71	1952.39	-1321.79	2287.03	0.41	503500.39	1679105.01	

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Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,339.97Azi)		
Wellpath: HORIZONTAL	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8885.00	90.42	339.30	6799.13	2041.16	-1355.63	2382.02	0.39	503589.16	1679071.17	
8978.00	90.98	339.91	6798.00	2128.32	-1388.04	2475.01	0.89	503676.32	1679038.76	
9073.00	91.26	339.75	6796.14	2217.48	-1420.79	2569.99	0.34	503765.48	1679006.01	
9167.00	91.12	339.20	6794.19	2305.49	-1453.74	2663.97	0.60	503853.49	1678973.06	
9262.00	92.17	339.22	6791.46	2394.27	-1487.45	2758.92	1.11	503942.27	1678939.35	
9356.00	91.12	338.50	6788.76	2481.91	-1521.33	2852.86	1.35	504029.91	1678905.47	
9451.00	89.23	338.68	6788.47	2570.35	-1556.01	2947.83	2.00	504118.35	1678870.79	
9546.00	89.51	338.56	6789.52	2658.80	-1590.64	3042.79	0.32	504206.80	1678836.16	
9640.00	89.02	340.33	6790.72	2746.81	-1623.64	3136.78	1.95	504294.81	1678803.16	
9735.00	89.65	340.59	6791.82	2836.33	-1655.41	3231.77	0.72	504384.33	1678771.39	
9829.00	89.72	339.89	6792.34	2924.79	-1687.19	3325.76	0.75	504472.79	1678739.61	
9923.00	91.75	341.45	6791.14	3013.48	-1718.30	3419.74	2.72	504561.48	1678708.50	
10018.00	90.21	338.86	6789.51	3102.81	-1750.54	3514.72	3.17	504650.81	1678676.26	
10112.00	90.63	338.82	6788.82	3190.47	-1784.47	3608.70	0.45	504738.47	1678642.33	PLAN 6 TIE IN
10207.00	90.28	340.68	6788.07	3279.59	-1817.35	3703.69	1.99	504827.59	1678609.45	
10301.00	90.63	340.73	6787.32	3368.31	-1848.41	3797.68	0.38	504916.31	1678578.39	
10395.00	90.84	339.74	6786.11	3456.76	-1880.20	3891.67	1.08	505004.76	1678546.60	
10490.00	91.75	339.75	6783.97	3545.87	-1913.08	3986.64	0.96	505093.87	1678513.72	
10584.00	92.73	339.53	6780.29	3633.93	-1945.76	4080.57	1.07	505181.93	1678481.04	
10679.00	91.26	339.23	6776.99	3722.78	-1979.19	4175.50	1.58	505270.78	1678447.61	
10774.00	90.49	337.58	6775.54	3811.10	-2014.15	4270.45	1.92	505359.10	1678412.65	
10868.00	88.67	339.23	6776.22	3898.49	-2048.74	4364.41	2.61	505446.49	1678378.06	
10963.00	90.91	341.96	6776.57	3988.08	-2080.30	4459.38	3.72	505536.08	1678346.50	
11057.00	91.54	341.00	6774.56	4077.19	-2110.15	4553.33	1.22	505625.19	1678316.65	
11152.00	92.73	341.24	6771.02	4167.02	-2140.87	4648.24	1.28	505715.02	1678285.93	
11247.00	92.09	340.80	6767.03	4256.77	-2171.74	4743.14	0.82	505804.77	1678255.06	
11342.00	90.49	342.11	6764.89	4346.81	-2201.94	4838.08	2.18	505894.81	1678224.86	
11436.00	90.42	342.15	6764.14	4436.27	-2230.79	4932.01	0.09	505984.27	1678196.01	
11530.00	90.63	342.30	6763.28	4525.78	-2259.48	5025.93	0.27	506073.78	1678167.32	
11623.00	90.84	342.02	6762.09	4614.30	-2287.97	5118.86	0.38	506162.30	1678138.83	
11715.00	91.40	342.52	6760.29	4701.92	-2315.98	5210.77	0.82	506249.92	1678110.82	
11810.00	92.03	342.60	6757.45	4792.51	-2344.44	5305.63	0.67	506340.51	1678082.36	
11904.00	91.68	342.67	6754.41	4882.18	-2372.48	5399.47	0.38	506430.18	1678054.32	
12017.00	92.87	343.07	6749.92	4990.08	-2405.74	5512.24	1.11	506538.08	1678021.06	LAST MWD SVY
12076.00	92.87	343.07	6746.97	5046.45	-2422.90	5571.08	0.00	506594.45	1678003.90	PROJ TO BIT

Targets

Name	Description Dip.	TVD	+N/-S	+E/-W	Map		Latitude		Longitude	
					Map Northing	Map Easting	Deg Min	Sec	Deg Min	Sec

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
761.00	760.99	13.375	17.500	SURFACE
2450.00	2439.81	9.625	12.250	INTERMEDIATE

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV



Weatherford International Ltd.

DIRECTIONAL REPORT



Company: CHESAPEAKE	Date: 3/14/2013	Time: 10:38:56	Page: 5
Field: MARSHALL COUNTY (NAD 27)	Co-ordinate(NE) Reference: Well: 1H, Grid North		
Site: FORK RIDGE PAD	Vertical (TVD) Reference: SITE 1413.0		
Well: 1H	Section (VS) Reference: Well (0.00N,0.00E,339.97Azi)		
Wellpath: HORIZONTAL	Survey Calculation Method: Minimum Curvature		Db: Sybase

Annotation

MD ft	TVD ft	
836.00	835.99	FIRST MWD SVY
12017.00	6749.92	LAST MWD SVY
12076.00	6746.97	PROJ TO BIT
10112.00	6788.82	PLAN 6 TIE IN

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
6620.89	6571.00	MIDDLESEX		0.00	0.00
6720.99	6643.00	GENESEO		0.00	0.00
6765.82	6672.00	TULLY		0.00	0.00
7125.70	6800.00	MARCELLUS		0.00	0.00
	0.00	ONONDAGA		0.00	0.00

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