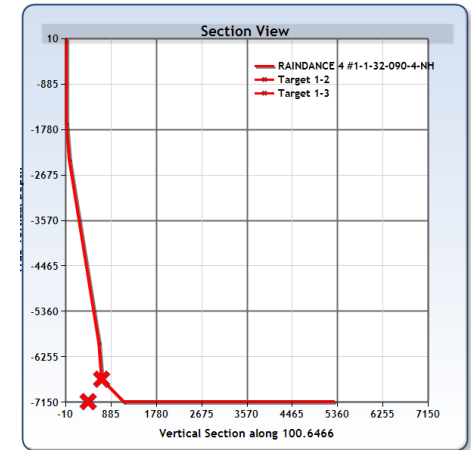
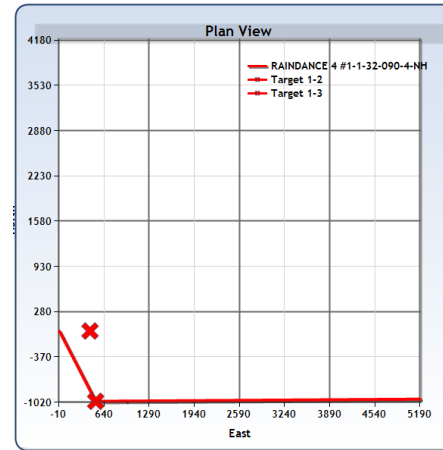


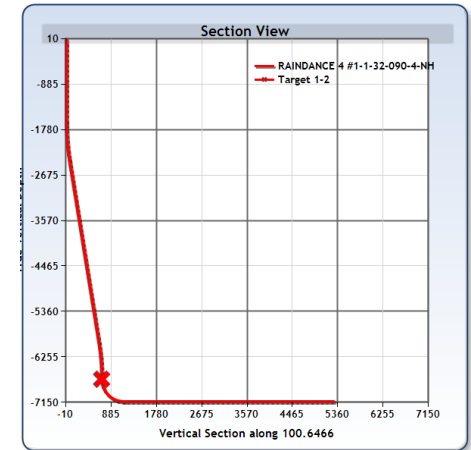
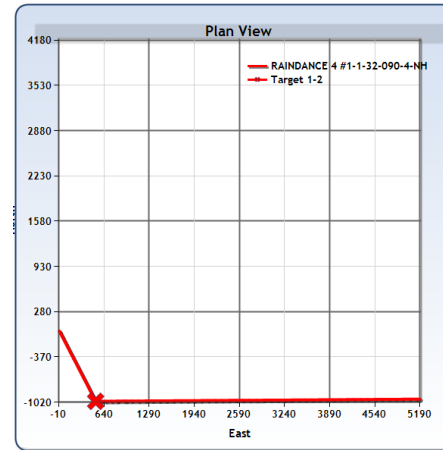
**Company:** Tekton Windsor, LLC  
**Well Name:** RAINDANCE 4 #1-1-32-090-4-NH  
**Location:** SESE Sec. 30 T6N R67W  
**Info:** North Reference is True North  
**Info:**  
**Vertical Section Calculated on an Azimuth of:** 100.6466  
**Survey Calculation method:** Minimum Curvature  
**File Name:** raindance 4 #1-1-32-090-4-nh, directional proposal, 09-12-12.pl6



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
	Feet	Degrees	Degrees	Feet	Feet	Feet	Feet	Feet	/100f	/100f	/100f	
0	0.00	0.00	152.61	0.00	0.00	0.00	4996.00	0.00	0.00	0.00	0.00	
1	1636.50	0.00	152.61	1636.50	0.00	0.00	3359.50	0.00	0.00	0.00	0.00	
2	2371.50	14.70	152.61	2363.46	-83.26	43.14	2632.54	57.78	2.00	2.00	0.00	
3	6100.50	14.70	152.61	5970.40	-923.46	478.43	-974.40	640.81	0.00	0.00	0.00	
4	6835.50	0.00	89.62	6697.37	-1006.72	521.57	-1701.37	698.58	2.00	2.00	0.00	
5	7527.81	90.00	89.62	7138.10	-1003.83	962.30	-2142.10	1131.19	13.00	13.00	0.00	
6	11758.00	90.00	89.62	7138.10	-976.10	5192.40	-2142.10	5283.35	0.00	0.00	0.00	

Closure is 5283.3465 feet on an Azimuth of 100.6466

**Company:** Tekton Windsor, LLC  
**Well Name:** RAINDANCE 4 #1-1-32-090-4-NH  
**Location:** SESE Sec. 30 T6N R67W  
**Info:** North Reference is True North  
**Info:**  
**Vertical Section Calculated on an Azimuth of:** 152.6119  
**Survey Calculation method:** Minimum Curvature  
**File Name:** Raindance 4 #1-1-32-090-4-NH, Directional Surveys V1.0, 09-12-12.sr6



#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	North Feet	East Feet	SubSea Feet	Section Feet	Dogleg /100f	BldRate /100f	Trnrate /100f	Comment
0	0.00	0.00	152.61	0.00	0.00	0.00	4996.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	152.61	100.00	0.00	0.00	4896.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	152.61	200.00	0.00	0.00	4796.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	152.61	300.00	0.00	0.00	4696.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	152.61	400.00	0.00	0.00	4596.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	152.61	500.00	0.00	0.00	4496.00	0.00	0.00	0.00	0.00	
6	600.00	0.00	152.61	600.00	0.00	0.00	4396.00	0.00	0.00	0.00	0.00	
7	700.00	0.00	152.61	700.00	0.00	0.00	4296.00	0.00	0.00	0.00	0.00	
8	800.00	0.00	152.61	800.00	0.00	0.00	4196.00	0.00	0.00	0.00	0.00	
9	900.00	0.00	152.61	900.00	0.00	0.00	4096.00	0.00	0.00	0.00	0.00	
10	1000.00	0.00	152.61	1000.00	0.00	0.00	3996.00	0.00	0.00	0.00	0.00	
11	1100.00	0.00	152.61	1100.00	0.00	0.00	3896.00	0.00	0.00	0.00	0.00	
12	1200.00	0.00	152.61	1200.00	0.00	0.00	3796.00	0.00	0.00	0.00	0.00	
13	1300.00	0.00	152.61	1300.00	0.00	0.00	3696.00	0.00	0.00	0.00	0.00	
14	1400.00	0.00	152.61	1400.00	0.00	0.00	3596.00	0.00	0.00	0.00	0.00	
15	1500.00	0.00	152.61	1500.00	0.00	0.00	3496.00	0.00	0.00	0.00	0.00	
16	1600.00	0.00	152.61	1600.00	0.00	0.00	3396.00	0.00	0.00	0.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
<b>KOP, B.G.=2°/100'</b>												
17	1636.50	0.00	152.61	1636.50	0.00	0.00	3359.50	0.00	0.00	0.00	0.00	
18	1700.00	1.27	152.61	1699.99	-0.62	0.32	3296.01	0.70	2.00	2.00	0.00	
19	1800.00	3.27	152.61	1799.91	-4.14	2.15	3196.09	4.66	2.00	2.00	0.00	
20	1900.00	5.27	152.61	1899.63	-10.75	5.57	3096.37	12.11	2.00	2.00	0.00	
21	2000.00	7.27	152.61	1999.03	-20.45	10.59	2996.97	23.03	2.00	2.00	0.00	
22	2100.00	9.27	152.61	2097.98	-33.22	17.21	2898.02	37.41	2.00	2.00	0.00	
23	2200.00	11.27	152.61	2196.37	-49.05	25.41	2799.63	55.24	2.00	2.00	0.00	
24	2300.00	13.27	152.61	2294.08	-67.92	35.19	2701.92	76.49	2.00	2.00	0.00	
<b>EOB, Hold 14.7°</b>												
25	2371.50	14.70	152.61	2363.46	-83.26	43.14	2632.54	93.77	2.00	2.00	0.00	
26	2400.00	14.70	152.61	2391.03	-89.68	46.46	2604.97	101.00	0.00	0.00	0.00	
27	2500.00	14.70	152.61	2487.76	-112.21	58.14	2508.24	126.38	0.00	0.00	0.00	
28	2600.00	14.70	152.61	2584.48	-134.74	69.81	2411.52	151.75	0.00	0.00	0.00	
29	2700.00	14.70	152.61	2681.21	-157.28	81.48	2314.79	177.13	0.00	0.00	0.00	
30	2800.00	14.70	152.61	2777.94	-179.81	93.16	2218.06	202.51	0.00	0.00	0.00	
31	2900.00	14.70	152.61	2874.66	-202.34	104.83	2121.34	227.88	0.00	0.00	0.00	
32	3000.00	14.70	152.61	2971.39	-224.87	116.50	2024.61	253.26	0.00	0.00	0.00	
33	3100.00	14.70	152.61	3068.12	-247.40	128.18	1927.88	278.63	0.00	0.00	0.00	
34	3200.00	14.70	152.61	3164.84	-269.93	139.85	1831.16	304.01	0.00	0.00	0.00	
35	3300.00	14.70	152.61	3261.57	-292.46	151.52	1734.43	329.39	0.00	0.00	0.00	
36	3400.00	14.70	152.61	3358.30	-315.00	163.20	1637.70	354.76	0.00	0.00	0.00	
37	3500.00	14.70	152.61	3455.02	-337.53	174.87	1540.98	380.14	0.00	0.00	0.00	
38	3600.00	14.70	152.61	3551.75	-360.06	186.54	1444.25	405.51	0.00	0.00	0.00	
39	3700.00	14.70	152.61	3648.48	-382.59	198.22	1347.52	430.89	0.00	0.00	0.00	
40	3800.00	14.70	152.61	3745.20	-405.12	209.89	1250.80	456.26	0.00	0.00	0.00	
41	3900.00	14.70	152.61	3841.93	-427.65	221.56	1154.07	481.64	0.00	0.00	0.00	
42	4000.00	14.70	152.61	3938.66	-450.18	233.24	1057.34	507.02	0.00	0.00	0.00	
43	4100.00	14.70	152.61	4035.39	-472.72	244.91	960.61	532.39	0.00	0.00	0.00	
44	4200.00	14.70	152.61	4132.11	-495.25	256.58	863.89	557.77	0.00	0.00	0.00	
45	4300.00	14.70	152.61	4228.84	-517.78	268.25	767.16	583.14	0.00	0.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
46	4400.00	14.70	152.61	4325.57	-540.31	279.93	670.43	608.52	0.00	0.00	0.00	
47	4500.00	14.70	152.61	4422.29	-562.84	291.60	573.71	633.89	0.00	0.00	0.00	
48	4600.00	14.70	152.61	4519.02	-585.37	303.27	476.98	659.27	0.00	0.00	0.00	
49	4700.00	14.70	152.61	4615.75	-607.90	314.95	380.25	684.65	0.00	0.00	0.00	
50	4800.00	14.70	152.61	4712.47	-630.44	326.62	283.53	710.02	0.00	0.00	0.00	
51	4900.00	14.70	152.61	4809.20	-652.97	338.29	186.80	735.40	0.00	0.00	0.00	
52	5000.00	14.70	152.61	4905.93	-675.50	349.97	90.07	760.77	0.00	0.00	0.00	
53	5100.00	14.70	152.61	5002.65	-698.03	361.64	-6.65	786.15	0.00	0.00	0.00	
54	5200.00	14.70	152.61	5099.38	-720.56	373.31	-103.38	811.53	0.00	0.00	0.00	
55	5300.00	14.70	152.61	5196.11	-743.09	384.99	-200.11	836.90	0.00	0.00	0.00	
56	5400.00	14.70	152.61	5292.83	-765.63	396.66	-296.83	862.28	0.00	0.00	0.00	
57	5500.00	14.70	152.61	5389.56	-788.16	408.33	-393.56	887.65	0.00	0.00	0.00	
58	5600.00	14.70	152.61	5486.29	-810.69	420.01	-490.29	913.03	0.00	0.00	0.00	
59	5700.00	14.70	152.61	5583.01	-833.22	431.68	-587.01	938.40	0.00	0.00	0.00	
60	5800.00	14.70	152.61	5679.74	-855.75	443.35	-683.74	963.78	0.00	0.00	0.00	
61	5900.00	14.70	152.61	5776.47	-878.28	455.03	-780.47	989.16	0.00	0.00	0.00	
62	6000.00	14.70	152.61	5873.19	-900.81	466.70	-877.19	1014.53	0.00	0.00	0.00	
<b>TOD,</b> <b>D.G.=2°/100'</b>												
63	6100.00	14.70	152.61	5969.92	-923.35	478.37	-973.92	1039.91	0.00	0.00	0.00	
64	6100.50	14.70	152.61	5970.40	-923.46	478.43	-974.40	1040.03	0.00	0.00	0.00	
65	6200.00	12.71	152.61	6067.07	-944.39	489.28	-1071.07	1063.61	2.00	2.00	0.00	
66	6300.00	10.71	152.61	6164.98	-962.41	498.61	-1168.98	1083.90	2.00	2.00	0.00	
67	6400.00	8.71	152.61	6263.54	-977.38	506.37	-1267.54	1100.77	2.00	2.00	0.00	
68	6500.00	6.71	152.61	6362.63	-989.29	512.54	-1366.63	1114.18	2.00	2.00	0.00	
69	6600.00	4.71	152.61	6462.13	-998.13	517.12	-1466.13	1124.13	2.00	2.00	0.00	
70	6700.00	2.71	152.61	6561.92	-1003.87	520.09	-1565.92	1130.60	2.00	2.00	0.00	
71	6800.00	0.71	152.61	6661.87	-1006.52	521.47	-1665.87	1133.59	2.00	2.00	0.00	
<b>EOD, KOP#2,</b> <b>B.G.=13°</b>												
72	6835.50	0.00	89.62	6697.37	-1006.72	521.57	-1701.37	1133.81	2.00	2.00	0.00	
73	6900.00	8.39	89.62	6761.64	-1006.69	526.28	-1765.64	1135.95	13.00	13.00	0.00	
74	7000.00	21.39	89.62	6858.07	-1006.52	551.91	-1862.07	1147.59	13.00	13.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
75	7100.00	34.39	89.62	6946.27	-1006.21	598.58	-1950.27	1168.78	13.00	13.00	0.00	
76	7200.00	47.39	89.62	7021.71	-1005.79	663.89	-2025.71	1198.45	13.00	13.00	0.00	
77	7300.00	60.39	89.62	7080.53	-1005.26	744.50	-2084.53	1235.06	13.00	13.00	0.00	
Int	7390.87	72.20	89.62	7117.00	-1004.71	827.55	-2121.00	1272.78	---	---	---	
CODL												
79	7400.00	73.39	89.62	7119.70	-1004.66	836.27	-2123.70	1276.74	13.00	13.00	0.00	
80	7500.00	86.39	89.62	7137.23	-1004.01	934.51	-2141.23	1321.36	13.00	13.00	0.00	
81	7527.81	90.00	89.62	7138.10	-1003.83	962.30	-2142.10	1333.98	13.00	13.00	0.00	
82	7600.00	90.00	89.62	7138.10	-1003.36	1034.49	-2142.10	1366.77	0.00	0.00	0.00	
83	7700.00	90.00	89.62	7138.10	-1002.70	1134.48	-2142.10	1412.19	0.00	0.00	0.00	
84	7800.00	90.00	89.62	7138.10	-1002.04	1234.48	-2142.10	1457.61	0.00	0.00	0.00	
85	7900.00	90.00	89.62	7138.10	-1001.39	1334.48	-2142.10	1503.03	0.00	0.00	0.00	
86	8000.00	90.00	89.62	7138.10	-1000.73	1434.48	-2142.10	1548.44	0.00	0.00	0.00	
87	8100.00	90.00	89.62	7138.10	-1000.08	1534.48	-2142.10	1593.86	0.00	0.00	0.00	
88	8200.00	90.00	89.62	7138.10	-999.42	1634.47	-2142.10	1639.28	0.00	0.00	0.00	
89	8300.00	90.00	89.62	7138.10	-998.77	1734.47	-2142.10	1684.70	0.00	0.00	0.00	
90	8400.00	90.00	89.62	7138.10	-998.11	1834.47	-2142.10	1730.12	0.00	0.00	0.00	
91	8500.00	90.00	89.62	7138.10	-997.46	1934.47	-2142.10	1775.54	0.00	0.00	0.00	
92	8600.00	90.00	89.62	7138.10	-996.80	2034.46	-2142.10	1820.95	0.00	0.00	0.00	
93	8700.00	90.00	89.62	7138.10	-996.14	2134.46	-2142.10	1866.37	0.00	0.00	0.00	
94	8800.00	90.00	89.62	7138.10	-995.49	2234.46	-2142.10	1911.79	0.00	0.00	0.00	
95	8900.00	90.00	89.62	7138.10	-994.83	2334.46	-2142.10	1957.21	0.00	0.00	0.00	
96	9000.00	90.00	89.62	7138.10	-994.18	2434.46	-2142.10	2002.63	0.00	0.00	0.00	
97	9100.00	90.00	89.62	7138.10	-993.52	2534.45	-2142.10	2048.05	0.00	0.00	0.00	
98	9200.00	90.00	89.62	7138.10	-992.87	2634.45	-2142.10	2093.47	0.00	0.00	0.00	
99	9300.00	90.00	89.62	7138.10	-992.21	2734.45	-2142.10	2138.88	0.00	0.00	0.00	
100	9400.00	90.00	89.62	7138.10	-991.56	2834.45	-2142.10	2184.30	0.00	0.00	0.00	
101	9500.00	90.00	89.62	7138.10	-990.90	2934.45	-2142.10	2229.72	0.00	0.00	0.00	
102	9600.00	90.00	89.62	7138.10	-990.24	3034.44	-2142.10	2275.14	0.00	0.00	0.00	
103	9700.00	90.00	89.62	7138.10	-989.59	3134.44	-2142.10	2320.56	0.00	0.00	0.00	
104	9800.00	90.00	89.62	7138.10	-988.93	3234.44	-2142.10	2365.98	0.00	0.00	0.00	
105	9900.00	90.00	89.62	7138.10	-988.28	3334.44	-2142.10	2411.40	0.00	0.00	0.00	



#	Depth	Inc	Azimuth	TVD	North	East	SubSea	Section	Dogleg	BldRate	Trnrate	Comment
106	10000.00	90.00	89.62	7138.10	-987.62	3434.43	-2142.10	2456.81	0.00	0.00	0.00	
107	10100.00	90.00	89.62	7138.10	-986.97	3534.43	-2142.10	2502.23	0.00	0.00	0.00	
108	10200.00	90.00	89.62	7138.10	-986.31	3634.43	-2142.10	2547.65	0.00	0.00	0.00	
109	10300.00	90.00	89.62	7138.10	-985.66	3734.43	-2142.10	2593.07	0.00	0.00	0.00	
110	10400.00	90.00	89.62	7138.10	-985.00	3834.43	-2142.10	2638.49	0.00	0.00	0.00	
111	10500.00	90.00	89.62	7138.10	-984.35	3934.42	-2142.10	2683.91	0.00	0.00	0.00	
112	10600.00	90.00	89.62	7138.10	-983.69	4034.42	-2142.10	2729.32	0.00	0.00	0.00	
113	10700.00	90.00	89.62	7138.10	-983.03	4134.42	-2142.10	2774.74	0.00	0.00	0.00	
114	10800.00	90.00	89.62	7138.10	-982.38	4234.42	-2142.10	2820.16	0.00	0.00	0.00	
115	10900.00	90.00	89.62	7138.10	-981.72	4334.42	-2142.10	2865.58	0.00	0.00	0.00	
116	11000.00	90.00	89.62	7138.10	-981.07	4434.41	-2142.10	2911.00	0.00	0.00	0.00	
117	11100.00	90.00	89.62	7138.10	-980.41	4534.41	-2142.10	2956.42	0.00	0.00	0.00	
118	11200.00	90.00	89.62	7138.10	-979.76	4634.41	-2142.10	3001.84	0.00	0.00	0.00	
119	11300.00	90.00	89.62	7138.10	-979.10	4734.41	-2142.10	3047.25	0.00	0.00	0.00	
120	11400.00	90.00	89.62	7138.10	-978.45	4834.40	-2142.10	3092.67	0.00	0.00	0.00	
121	11500.00	90.00	89.62	7138.10	-977.79	4934.40	-2142.10	3138.09	0.00	0.00	0.00	
122	11600.00	90.00	89.62	7138.10	-977.13	5034.40	-2142.10	3183.51	0.00	0.00	0.00	
123	11700.00	90.00	89.62	7138.10	-976.48	5134.40	-2142.10	3228.93	0.00	0.00	0.00	
124	11758.00	90.00	89.62	7138.10	-976.10	5192.40	-2142.10	3255.27	0.00	0.00	0.00	

Closure is 5283.3465 feet on an Azimuth of 100.6466