



Company: Baker Hughes, a GE Company
Customer/Operator: ConocoPhillips
Date Range: 4/17/2019 - 4/22/2019
Rig Name: Nabors B16
Rig Elv/Dat: 25.00 (ft) / GL
Well: Tiberius_4-64_8-7_2DH
Wellbore: Tiberius_4-64_8-7_2DH

Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature(degF)	True Vertical Depth(ft)	Northing(ft)	Easting(ft)	DLS(deg/100ft)	Vertical Section(ft)	Build Rate(deg/100ft)
0.00	0.00	0.00					0.00		
25.00	0.00	0.00		25.00	0.00	0.00	0.00	0.00	0.00
55.51	0.53	200.41		55.51	-0.13	-0.05	1.74	0.06	1.74
154.82	0.76	203.30		154.81	-1.17	-0.47	0.23	0.56	0.23
243.61	0.69	198.63		243.60	-2.22	-0.87	0.10	1.05	-0.08
334.59	0.57	198.50		334.57	-3.16	-1.19	0.13	1.45	-0.13
428.11	0.54	195.47		428.09	-4.03	-1.46	0.04	1.78	-0.03
518.98	0.54	190.36		518.95	-4.86	-1.65	0.05	2.04	0.00
610.47	0.45	188.82		610.44	-5.64	-1.78	0.10	2.24	-0.10
700.97	0.40	192.41		700.94	-6.30	-1.90	0.06	2.41	-0.06
791.22	0.38	208.66		791.18	-6.87	-2.11	0.12	2.67	-0.02
882.65	0.29	172.84		882.61	-7.37	-2.23	0.24	2.83	-0.10
973.76	0.24	171.34		973.72	-7.79	-2.17	0.06	2.80	-0.05
1065.61	0.19	190.21		1065.57	-8.13	-2.17	0.09	2.83	-0.05
1157.18	0.07	204.96		1157.14	-8.33	-2.22	0.13	2.89	-0.13
1246.79	0.10	237.04		1246.75	-8.42	-2.31	0.06	2.99	0.03
1336.84	0.25	130.05		1336.80	-8.59	-2.23	0.33	2.92	0.17
1428.88	0.43	132.26		1428.84	-8.95	-1.82	0.20	2.54	0.20
1520.12	0.81	135.00		1520.07	-9.63	-1.11	0.42	1.89	0.42
1614.64	1.10	135.49		1614.58	-10.75	0.00	0.31	0.88	0.31
1709.65	1.11	135.10		1709.57	-12.06	1.29	0.01	-0.30	0.01
1804.00	1.02	129.92		1803.91	-13.24	2.58	0.14	-1.49	-0.10
1898.40	0.95	125.39		1898.29	-14.23	3.86	0.11	-2.69	-0.07
1993.06	0.94	123.90		1992.94	-15.12	5.15	0.03	-3.89	-0.01
2037.75	0.92	124.01		2037.62	-15.53	5.75	0.04	-4.46	-0.04
2162.00	0.03	270.51	106.77	2161.87	-16.09	6.54	0.76	-5.21	-0.72
2256.00	0.03	311.11	109.47	2255.87	-16.07	6.50	0.02	-5.17	0.00
2351.00	0.04	336.93	112.17	2350.87	-16.02	6.47	0.02	-5.14	0.01
2445.00	0.06	157.33	112.17	2444.87	-16.04	6.47	0.11	-5.14	0.02
2539.00	0.03	234.29	114.87	2538.87	-16.10	6.47	0.06	-5.14	-0.03
2634.00	0.00	98.46	114.87	2633.87	-16.11	6.45	0.03	-5.12	-0.03
2728.00	0.06	208.36	114.87	2727.87	-16.15	6.43	0.06	-5.09	0.06
2822.00	0.07	54.00	117.58	2821.87	-16.16	6.45	0.13	-5.11	0.01
2917.00	0.04	164.55	120.28	2916.87	-16.16	6.51	0.10	-5.17	-0.03
3011.00	0.07	227.44	120.28	3010.87	-16.23	6.47	0.07	-5.13	0.03
3105.00	0.03	247.68	120.28	3104.87	-16.28	6.41	0.05	-5.06	-0.04
3200.00	0.03	275.76	122.98	3199.87	-16.29	6.36	0.02	-5.01	0.00
3294.00	0.11	158.35	122.98	3293.87	-16.37	6.37	0.13	-5.01	0.09
3389.00	0.65	116.02	125.69	3388.87	-16.69	6.89	0.60	-5.50	0.57
3484.00	2.65	119.67	128.39	3483.82	-18.01	9.28	2.11	-7.78	2.11
3578.00	3.71	94.61	131.09	3577.68	-19.33	14.20	1.83	-12.57	1.13
3672.00	4.69	97.13	133.80	3671.43	-20.06	21.04	1.06	-19.34	1.04
3767.00	5.55	100.09	136.50	3766.05	-21.34	29.42	0.95	-27.58	0.91
3861.00	6.52	101.46	139.20	3859.52	-23.20	39.13	1.04	-37.10	1.03



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Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature(degF)	True Vertical Depth(ft)	Northing(ft)	Easting(ft)	DLS(deg/100ft)	Vertical Section(ft)	Build Rate(deg/100ft)
3955.00	7.75	107.29	139.20	3952.80	-26.14	50.41	1.52	-48.11	1.31
4050.00	9.29	110.51	141.91	4046.75	-30.73	63.71	1.70	-60.99	1.62
4144.00	10.61	109.58	144.61	4139.33	-36.29	78.97	1.41	-75.74	1.40
4239.00	11.54	114.59	144.61	4232.56	-43.18	95.85	1.41	-92.01	0.98
4333.00	12.75	115.67	144.61	4324.46	-51.58	113.75	1.31	-109.16	1.29
4427.00	13.95	114.03	147.31	4415.91	-60.69	133.45	1.34	-128.05	1.28
4522.00	15.35	116.67	147.31	4507.82	-71.00	155.14	1.63	-148.83	1.47
4616.00	17.03	116.81	144.61	4598.09	-82.79	178.55	1.79	-171.20	1.79
4710.00	18.35	116.70	144.61	4687.65	-95.65	204.05	1.40	-195.57	1.40
4805.00	21.27	116.59	147.31	4777.02	-110.09	232.83	3.07	-223.07	3.07
4899.00	23.98	117.57	147.31	4863.77	-126.56	265.01	2.91	-253.80	2.88
4994.00	23.92	120.00	150.02	4950.60	-145.13	298.81	1.04	-285.97	-0.06
5088.00	25.03	122.73	152.72	5036.15	-165.41	332.04	1.69	-317.44	1.18
5182.00	28.32	125.80	155.42	5120.14	-189.21	366.86	3.79	-350.20	3.50
5276.00	29.92	126.57	155.42	5202.25	-216.22	403.78	1.75	-384.79	1.70
5371.00	30.04	126.87	155.42	5284.54	-244.60	441.83	0.20	-420.40	0.13
5465.00	29.78	126.16	158.12	5366.02	-272.50	479.50	0.47	-455.67	-0.28
5559.00	29.88	126.25	160.83	5447.57	-300.11	517.23	0.12	-491.02	0.11
5654.00	29.84	125.08	160.83	5529.96	-327.69	555.65	0.61	-527.07	-0.04
5748.00	29.66	123.98	160.83	5611.57	-354.13	594.08	0.61	-563.20	-0.19
5842.00	29.56	122.57	163.53	5693.30	-379.61	632.91	0.75	-599.82	-0.11
5937.00	29.33	121.01	166.23	5776.03	-404.21	672.60	0.84	-637.37	-0.24
6031.00	29.81	119.08	166.23	5857.78	-427.43	712.75	1.13	-675.50	0.51
6125.00	30.07	117.31	168.94	5939.24	-449.59	754.10	0.98	-714.90	0.28
6220.00	30.29	117.41	168.94	6021.36	-471.54	796.51	0.24	-755.38	0.23
6314.00	29.93	117.28	171.64	6102.68	-493.20	838.40	0.39	-795.36	-0.38
6408.00	30.06	117.51	171.64	6184.09	-514.83	880.12	0.18	-835.18	0.14
6503.00	29.99	118.70	171.64	6266.34	-537.22	922.05	0.63	-875.14	-0.07
6597.00	29.64	119.78	171.64	6347.90	-560.05	962.83	0.68	-913.93	-0.37
6692.00	29.84	121.48	174.34	6430.39	-584.06	1003.38	0.91	-952.38	0.21
6786.00	29.72	122.00	177.05	6511.98	-608.62	1043.08	0.30	-989.95	-0.13
6880.00	30.20	121.82	174.34	6593.41	-633.43	1082.93	0.52	-1027.64	0.51
6975.00	29.24	122.84	177.05	6675.92	-658.61	1122.73	1.14	-1065.25	-1.01
7069.00	30.18	122.93	177.05	6757.56	-683.90	1161.85	1.00	-1102.18	1.00
7164.00	26.86	129.21	177.05	6841.04	-710.47	1198.54	4.70	-1136.58	-3.49
7258.00	18.87	150.14	177.05	6927.72	-737.16	1222.64	12.01	-1158.42	-8.50
7352.00	14.57	180.71	177.05	7017.90	-762.22	1230.08	10.26	-1163.79	-4.57
7446.00	17.34	216.83	177.05	7108.49	-785.32	1221.51	10.77	-1153.37	2.95
7540.00	23.79	242.23	179.75	7196.62	-805.42	1196.27	11.57	-1126.56	6.86
7635.00	31.65	254.89	179.75	7280.73	-820.89	1155.15	10.30	-1084.32	8.27
7729.00	40.26	258.88	179.75	7356.76	-833.20	1101.43	9.49	-1029.77	9.16
7824.00	48.30	261.76	185.16	7424.72	-844.22	1036.09	8.72	-963.76	8.46
7918.00	56.40	261.61	187.86	7482.09	-854.98	962.51	8.62	-889.54	8.62
8012.00	65.93	262.11	187.86	7527.37	-866.61	881.09	10.15	-807.44	10.14



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Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature(degF)	True Vertical Depth(ft)	Northing(ft)	Easting(ft)	DLS(deg/100ft)	Vertical Section(ft)	Build Rate(deg/100ft)	
8107.00		73.52	264.96	190.56	7560.28	-876.58	792.61	8.47	-718.45	7.99
8201.00		81.97	267.51	193.27	7580.21	-882.57	701.04	9.37	-626.69	8.99
8296.00		89.32	269.68	193.27	7587.42	-884.89	606.41	8.06	-532.19	7.74
8390.00		89.17	270.26	195.97	7588.66	-884.94	512.42	0.64	-438.51	-0.16
8484.00		89.29	269.90	198.67	7589.93	-884.80	418.43	0.40	-344.84	0.13
8579.00		88.68	270.08	198.67	7591.61	-884.82	323.45	0.67	-250.17	-0.64
8673.00		88.58	269.81	201.37	7593.86	-884.91	229.47	0.31	-156.51	-0.11
8768.00		90.18	272.04	201.37	7594.88	-883.38	134.50	2.89	-61.98	1.68
8862.00		88.49	273.09	204.08	7595.98	-879.17	40.61	2.12	31.26	-1.80
8956.00		88.65	271.38	204.08	7598.32	-875.51	-53.29	1.83	124.55	0.17
9051.00		89.72	272.59	206.78	7599.67	-872.22	-148.22	1.70	218.89	1.13
9145.00		88.58	271.63	206.78	7601.07	-868.76	-242.14	1.59	312.22	-1.21
9239.00		88.89	268.75	209.48	7603.14	-868.44	-336.11	3.08	405.85	0.33
9334.00		88.55	266.66	206.78	7605.26	-872.25	-431.00	2.23	500.74	-0.36
9429.00		88.71	266.01	212.19	7607.54	-878.32	-525.78	0.70	595.69	0.17
9523.00		89.91	268.86	212.19	7608.67	-882.52	-619.67	3.29	689.61	1.28
9617.00		88.68	272.18	212.19	7609.83	-881.67	-713.64	3.77	783.20	-1.31
9712.00		88.71	269.53	214.89	7611.99	-880.25	-808.60	2.79	877.73	0.03
9806.00		88.62	269.41	214.89	7614.18	-881.12	-902.57	0.16	971.45	-0.10
9901.00		88.49	266.39	217.59	7616.58	-884.60	-997.47	3.18	1066.32	-0.14
9995.00		88.71	269.22	217.59	7618.87	-888.20	-1091.36	3.02	1160.19	0.23
10090.00		88.71	269.20	220.30	7621.01	-889.51	-1186.33	0.02	1254.95	0.00
10184.00		88.65	268.90	220.30	7623.18	-891.07	-1280.29	0.33	1348.72	-0.06
10279.00		88.83	268.62	223.00	7625.27	-893.12	-1375.24	0.35	1443.53	0.19
10373.00		88.77	268.62	220.30	7627.23	-895.39	-1469.20	0.06	1537.35	-0.06
10468.00		88.68	268.03	223.00	7629.35	-898.16	-1564.13	0.63	1632.20	-0.09
10562.00		88.68	267.30	223.00	7631.51	-901.99	-1658.03	0.78	1726.09	0.00
10657.00		88.74	267.44	223.00	7633.65	-906.35	-1752.90	0.16	1821.01	0.06
10751.00		88.68	268.49	223.00	7635.77	-909.69	-1846.82	1.12	1914.88	-0.06
10845.00		88.71	270.01	225.70	7637.91	-910.92	-1940.78	1.62	2008.64	0.03
10939.00		88.74	272.31	225.70	7640.00	-909.02	-2034.73	2.45	2102.12	0.03
11034.00		89.14	271.97	225.70	7641.76	-905.47	-2129.65	0.55	2196.43	0.42
11128.00		89.54	272.01	228.41	7642.84	-902.21	-2223.59	0.43	2289.79	0.43
11223.00		89.45	271.87	228.41	7643.68	-898.99	-2318.53	0.18	2384.15	-0.09
11317.00		89.23	272.42	231.11	7644.76	-895.47	-2412.46	0.63	2477.48	-0.23
11411.00		89.14	272.99	231.11	7646.10	-891.04	-2506.34	0.61	2570.69	-0.10
11505.00		89.11	274.11	231.11	7647.53	-885.22	-2600.15	1.19	2663.71	-0.03
11600.00		89.26	274.07	233.81	7648.89	-878.44	-2694.90	0.16	2757.59	0.16
11694.00		89.17	272.35	231.11	7650.17	-873.18	-2788.74	1.83	2850.68	-0.10
11788.00		89.23	269.85	233.81	7651.49	-871.37	-2882.71	2.66	2944.19	0.06
11882.00		89.38	271.09	236.52	7652.63	-870.60	-2976.69	1.33	3037.80	0.16
11976.00		89.45	270.33	236.52	7653.59	-869.44	-3070.68	0.81	3131.38	0.07
12071.00		89.23	268.56	236.52	7654.68	-870.36	-3165.67	1.88	3226.12	-0.23
12165.00		89.35	268.13	236.52	7655.85	-873.07	-3259.62	0.47	3319.99	0.13



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12259.00	89.26	267.93	233.81	7656.99	-876.30	-3353.56	0.23	3413.87	-0.10
12354.00	89.42	271.62	236.52	7658.08	-876.68	-3448.53	3.89	3508.56	0.17
12448.00	89.05	273.01	239.22	7659.34	-872.88	-3542.45	1.53	3601.85	-0.39
12543.00	89.14	271.64	239.22	7660.84	-869.03	-3637.35	1.45	3696.13	0.09
12637.00	89.20	268.84	236.52	7662.20	-868.63	-3731.33	2.98	3789.77	0.06
12731.00	89.23	271.71	239.22	7663.49	-868.18	-3825.31	3.05	3883.40	0.03
12826.00	89.26	273.43	239.22	7664.74	-863.92	-3920.21	1.81	3977.62	0.03
12920.00	89.26	274.15	241.92	7665.95	-857.71	-4013.99	0.77	4070.59	0.00
13015.00	89.26	274.86	239.22	7667.18	-850.25	-4108.69	0.75	4164.36	0.00
13109.00	89.35	274.75	236.52	7668.32	-842.38	-4202.35	0.15	4257.07	0.10
13203.00	89.32	274.69	239.22	7669.41	-834.64	-4296.03	0.07	4349.80	-0.03
13297.00	89.85	278.17	239.22	7670.09	-824.12	-4389.42	3.74	4442.02	0.56
13392.00	89.14	277.90	239.22	7670.93	-810.84	-4483.48	0.80	4534.69	-0.75
13486.00	89.20	276.07	239.22	7672.29	-799.41	-4576.77	1.95	4626.74	0.06
13581.00	89.26	272.64	241.92	7673.57	-792.20	-4671.47	3.61	4720.53	0.06
13676.00	89.14	269.42	241.92	7674.89	-790.49	-4766.44	3.39	4815.04	-0.13
13770.00	89.23	267.63	241.92	7676.23	-792.91	-4860.39	1.91	4908.88	0.10
13864.00	89.20	265.84	241.92	7677.52	-798.26	-4954.23	1.90	5002.84	-0.03
13959.00	89.17	265.37	241.92	7678.87	-805.54	-5048.94	0.50	5097.83	-0.03
14053.00	89.23	265.85	244.62	7680.18	-812.73	-5142.65	0.51	5191.82	0.06
14147.00	89.32	268.95	241.92	7681.37	-817.00	-5236.54	3.30	5285.74	0.10
14242.00	89.23	270.90	244.62	7682.57	-817.12	-5331.52	2.05	5380.42	-0.09
14336.00	89.23	270.28	244.62	7683.84	-816.15	-5425.51	0.66	5474.01	0.00
14430.00	89.23	269.46	247.33	7685.10	-816.37	-5519.50	0.87	5567.71	0.00
14524.00	89.29	268.73	247.33	7686.32	-817.85	-5613.48	0.78	5661.49	0.06
14619.00	89.26	267.29	247.33	7687.52	-821.15	-5708.41	1.52	5756.38	-0.03
14713.00	89.23	266.26	244.62	7688.76	-826.44	-5802.26	1.10	5850.34	-0.03
14807.00	89.23	266.49	247.33	7690.02	-832.38	-5896.06	0.24	5944.32	0.00
14902.00	89.29	268.08	247.33	7691.25	-836.88	-5990.94	1.67	6039.25	0.06
14996.00	89.29	269.61	247.33	7692.41	-838.77	-6084.91	1.63	6133.06	0.00
15090.00	89.23	274.64	250.03	7693.63	-835.29	-6178.81	5.35	6226.36	-0.06
15185.00	89.23	273.85	250.03	7694.90	-828.26	-6273.54	0.83	6320.20	0.00
15279.00	89.26	271.47	250.03	7696.14	-823.90	-6367.42	2.53	6413.42	0.03
15373.00	89.26	272.73	250.03	7697.36	-820.45	-6461.35	1.34	6506.75	0.00
15467.00	89.26	272.42	250.03	7698.57	-816.23	-6555.25	0.33	6599.99	0.00
15562.00	89.17	269.41	252.73	7699.87	-814.71	-6650.22	3.17	6694.52	-0.09
15656.00	89.23	267.79	252.73	7701.18	-817.01	-6744.18	1.72	6788.35	0.06
15751.00	89.14	267.41	255.44	7702.54	-820.99	-6839.08	0.41	6883.27	-0.09
15845.00	89.20	267.29	255.44	7703.90	-825.33	-6932.97	0.14	6977.20	0.06
15940.00	89.26	268.98	255.44	7705.17	-828.43	-7027.91	1.78	7072.07	0.06
16033.00	89.23	273.20	255.44	7706.40	-826.66	-7120.86	4.54	7164.57	-0.03
16128.00	89.29	274.84	255.44	7707.63	-820.00	-7215.62	1.73	7258.47	0.06
16222.00	89.35	274.27	258.14	7708.74	-812.53	-7309.31	0.61	7351.24	0.06
16316.00	89.20	278.91	255.44	7709.93	-801.75	-7402.66	4.94	7443.39	-0.16



Company: Baker Hughes, a GE Company
Customer/Operator: ConocoPhillips
Date Range: 4/17/2019 - 4/22/2019
Rig Name: Nabors B16
Rig Elv/Dat: 25.00 (ft) / GL
Well: Tiberius_4-64_8-7_2DH
Wellbore: Tiberius_4-64_8-7_2DH

Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature(degF)	True Vertical Depth(ft)	Northing(ft)	Easting(ft)	DLS(deg/100ft)	Vertical Section(ft)	Build Rate(deg/100ft)	
16410.00		89.32	279.82	258.14	7711.15	-786.45	-7495.40	0.98	7534.58	0.13
16505.00		89.26	280.54	255.44	7712.32	-769.67	-7588.90	0.76	7626.39	-0.06
16599.00		89.23	276.06	258.14	7713.56	-756.10	-7681.88	4.77	7717.96	-0.03
16693.00		89.32	272.69	255.44	7714.75	-748.93	-7775.58	3.59	7810.77	0.10
16787.00		89.26	271.30	258.14	7715.92	-745.66	-7869.52	1.48	7904.12	-0.06
16881.00		89.17	271.56	260.84	7717.21	-743.31	-7963.48	0.29	7997.58	-0.10
16976.00		89.26	271.84	260.84	7718.51	-740.50	-8058.43	0.31	8091.98	0.09
17070.00		89.17	272.67	260.84	7719.79	-736.80	-8152.35	0.89	8185.28	-0.10
17164.00		89.20	272.20	260.84	7721.13	-732.80	-8246.25	0.50	8278.55	0.03
17258.00		89.32	270.08	260.84	7722.35	-730.93	-8340.22	2.26	8372.05	0.13
17353.00		89.29	268.25	263.55	7723.50	-732.32	-8435.20	1.93	8466.83	-0.03
17447.00		89.35	266.76	263.55	7724.61	-736.41	-8529.10	1.59	8560.75	0.06
17541.00		89.26	266.40	263.55	7725.75	-742.02	-8622.93	0.39	8654.72	-0.10
17636.00		89.29	266.73	263.55	7726.96	-747.71	-8717.75	0.35	8749.69	0.03
17730.00		89.32	266.48	263.55	7728.10	-753.28	-8811.58	0.27	8843.66	0.03
17824.00		89.32	264.94	266.25	7729.21	-760.31	-8905.30	1.64	8937.65	0.00
17918.00		89.17	265.73	266.25	7730.45	-767.95	-8998.98	0.86	9031.64	-0.16
17957.00		89.23	267.38	263.55	7731.00	-770.29	-9037.91	4.23	9070.62	0.15
17981.00		89.23	267.38		7731.32	-771.39	-9061.88	0.00	9094.61	0.00



ConocoPhillips

Arapahoe County, Colorado

Tiberius 4-64 8-7 2DH

Tiberius 4-64 8-7 2DH

Casing Depths

TVD	MD	Name	Size
125.00	125.00	Conductor	16
2069.37	2069.50	Surface	9-5/8
7731.17	17970.30	Production	5-1/2

Ground Level: 5600.40
Surface Location Latitude: 39° 43' 13.640 N
Surface Location Longitude: 104° 34' 11.560 W
North Reference: True
NBR B16 RKB @ 5627.40ft (NBR B16)

North American Datum 1983
GRS 1980
US State Plane 1983
Colorado Central Zone

