



Planned Wellpath Report

Guttersen YY18-715 (REV-B.1) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Guenaler
Scale	0.999959	Report Generated	2/5/2024 at 1:33:52 PM
Convergence at slot	0.66° East	Database	WA_Denver

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.01	157.42	3285269.77	1295942.63	40.1412510°	-104.4796020°
Facility Reference Pt			3285112.36	1295942.64	40.1412560°	-104.4801650°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Facility Vertical Datum	4926.00ft
Horizontal Reference Pt	Slot	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Mean Sea Level	4926.00ft
Vertical Reference Pt	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB)	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Ground Level at Slot (SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18))	4926.00ft
MD Reference Pt	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	16.68°



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Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

WELLPATH DATA (163 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	128.892	0.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
30.00	0.000	128.892	30.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	Tie On
130.00†	0.000	128.892	130.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
230.00†	0.000	128.892	230.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
330.00†	0.000	128.892	330.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
430.00†	0.000	128.892	430.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
530.00†	0.000	128.892	530.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
630.00†	0.000	128.892	630.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
730.00†	0.000	128.892	730.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
830.00†	0.000	128.892	830.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
930.00†	0.000	128.892	930.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1030.00†	0.000	128.892	1030.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1130.00†	0.000	128.892	1130.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1230.00†	0.000	128.892	1230.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1330.00†	0.000	128.892	1330.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1430.00†	0.000	128.892	1430.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1530.00†	0.000	128.892	1530.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1630.00†	0.000	128.892	1630.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1730.00†	0.000	128.892	1730.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1830.00†	0.000	128.892	1830.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
1930.00†	0.000	128.892	1930.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	
2000.00	0.000	128.892	2000.00	0.00	0.00	0.00	40.1412510	-104.4796020	0.00	End of Tangent
2030.00†	0.600	128.892	2030.00	-0.06	-0.10	0.12	40.1412507	-104.4796016	2.00	
2130.00†	2.600	128.892	2129.96	-1.12	-1.85	2.30	40.1412458	-104.4795939	2.00	
2230.00†	4.600	128.892	2229.75	-3.49	-5.79	7.18	40.1412349	-104.4795766	2.00	
2330.00†	6.600	128.892	2329.27	-7.18	-11.92	14.78	40.1412178	-104.4795496	2.00	
2430.00†	8.600	128.892	2428.39	-12.18	-20.22	25.07	40.1411947	-104.4795132	2.00	
2530.00†	10.600	128.892	2526.98	-18.48	-30.69	38.05	40.1411655	-104.4794672	2.00	
2630.00†	12.600	128.892	2624.93	-26.09	-43.32	53.70	40.1411304	-104.4794117	2.00	
2730.00†	14.600	128.892	2722.13	-34.98	-58.08	72.00	40.1410893	-104.4793469	2.00	
2830.00†	16.600	128.892	2818.44	-45.14	-74.96	92.93	40.1410423	-104.4792727	2.00	
2930.00†	18.600	128.892	2913.75	-56.58	-93.95	116.46	40.1409895	-104.4791893	2.00	
3030.00†	20.600	128.892	3007.95	-69.26	-115.01	142.57	40.1409308	-104.4790968	2.00	
3130.00†	22.600	128.892	3100.93	-83.18	-138.12	171.22	40.1408665	-104.4789953	2.00	
3230.00†	24.600	128.892	3192.56	-98.31	-163.25	202.38	40.1407965	-104.4788849	2.00	
3330.00†	26.600	128.892	3282.74	-114.65	-190.38	236.01	40.1407210	-104.4787657	2.00	
3430.00†	28.600	128.892	3371.35	-132.17	-219.47	272.07	40.1406400	-104.4786380	2.00	
3530.00†	30.600	128.892	3458.30	-150.84	-250.48	310.51	40.1405537	-104.4785018	2.00	
3630.00†	32.600	128.892	3543.46	-170.65	-283.37	351.29	40.1404621	-104.4783573	2.00	
3730.00†	34.600	128.892	3626.75	-191.58	-318.12	394.36	40.1403654	-104.4782047	2.00	
3750.06	35.001	128.892	3643.22	-195.91	-325.30	403.27	40.1403453	-104.4781731	2.00	Build (XS)
3830.00†	35.001	128.892	3708.71	-213.24	-354.09	438.96	40.1402652	-104.4780466	0.00	
3930.00†	35.001	128.892	3790.62	-234.93	-390.11	483.61	40.1401649	-104.4778885	0.00	
4030.00†	35.001	128.892	3872.53	-256.62	-426.12	528.25	40.1400647	-104.4777303	0.00	
4130.00†	35.001	128.892	3954.45	-278.31	-462.13	572.90	40.1399644	-104.4775721	0.00	



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Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

WELLPATH DATA (163 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4230.00†	35.001	128.892	4036.36	-300.00	-498.14	617.54	40.1398641	-104.4774139	0.00	
4330.00†	35.001	128.892	4118.28	-321.68	-534.16	662.19	40.1397639	-104.4772557	0.00	
4430.00†	35.001	128.892	4200.19	-343.37	-570.17	706.83	40.1396636	-104.4770975	0.00	
4530.00†	35.001	128.892	4282.11	-365.06	-606.18	751.48	40.1395634	-104.4769394	0.00	
4630.00†	35.001	128.892	4364.02	-386.75	-642.20	796.12	40.1394631	-104.4767812	0.00	
4730.00†	35.001	128.892	4445.93	-408.43	-678.21	840.77	40.1393628	-104.4766230	0.00	
4830.00†	35.001	128.892	4527.85	-430.12	-714.22	885.41	40.1392626	-104.4764648	0.00	
4930.00†	35.001	128.892	4609.76	-451.81	-750.23	930.06	40.1391623	-104.4763066	0.00	
5030.00†	35.001	128.892	4691.68	-473.50	-786.25	974.70	40.1390620	-104.4761485	0.00	
5130.00†	35.001	128.892	4773.59	-495.19	-822.26	1019.35	40.1389618	-104.4759903	0.00	
5230.00†	35.001	128.892	4855.50	-516.87	-858.27	1063.99	40.1388615	-104.4758321	0.00	
5330.00†	35.001	128.892	4937.42	-538.56	-894.29	1108.64	40.1387612	-104.4756739	0.00	
5430.00†	35.001	128.892	5019.33	-560.25	-930.30	1153.28	40.1386610	-104.4755157	0.00	
5530.00†	35.001	128.892	5101.25	-581.94	-966.31	1197.93	40.1385607	-104.4753576	0.00	
5630.00†	35.001	128.892	5183.16	-603.63	-1002.32	1242.57	40.1384604	-104.4751994	0.00	
5730.00†	35.001	128.892	5265.07	-625.31	-1038.34	1287.22	40.1383602	-104.4750412	0.00	
5830.00†	35.001	128.892	5346.99	-647.00	-1074.35	1331.86	40.1382599	-104.4748830	0.00	
5930.00†	35.001	128.892	5428.90	-668.69	-1110.36	1376.51	40.1381596	-104.4747249	0.00	
6030.00†	35.001	128.892	5510.82	-690.38	-1146.38	1421.15	40.1380594	-104.4745667	0.00	
6130.00†	35.001	128.892	5592.73	-712.07	-1182.39	1465.79	40.1379591	-104.4744085	0.00	
6230.00†	35.001	128.892	5674.64	-733.75	-1218.40	1510.44	40.1378588	-104.4742503	0.00	
6330.00†	35.001	128.892	5756.56	-755.44	-1254.41	1555.08	40.1377586	-104.4740922	0.00	
6430.00†	35.001	128.892	5838.47	-777.13	-1290.43	1599.73	40.1376583	-104.4739340	0.00	
6530.00†	35.001	128.892	5920.39	-798.82	-1326.44	1644.37	40.1375580	-104.4737758	0.00	
6630.00†	35.001	128.892	6002.30	-820.50	-1362.45	1689.02	40.1374578	-104.4736177	0.00	
6713.47	35.001	128.892	6070.67	-838.61	-1392.51	1726.28	40.1373741	-104.4734856	0.00	KOP
6730.00†	34.140	126.577	6084.29	-841.98	-1398.25	1733.70	40.1373581	-104.4734593	9.50	
6830.00†	30.026	110.386	6169.15	-853.18	-1423.75	1779.79	40.1372866	-104.4732956	9.50	
6930.00†	28.337	91.136	6256.65	-848.43	-1432.96	1827.08	40.1372599	-104.4731268	9.50	
7030.00†	29.494	71.558	6344.38	-827.86	-1425.62	1874.27	40.1372785	-104.4729578	9.50	
7130.00†	33.199	54.671	6429.94	-792.04	-1401.95	1920.06	40.1373420	-104.4727930	9.50	
7230.00†	38.722	41.455	6510.97	-741.96	-1362.59	1963.20	40.1374487	-104.4726371	9.50	
7330.00†	45.396	31.329	6585.26	-678.97	-1308.61	2002.51	40.1375956	-104.4724943	9.50	
7430.00†	52.775	23.390	6650.77	-604.82	-1241.51	2036.90	40.1377787	-104.4723685	9.50	
7530.00†	60.587	16.907	6705.70	-521.54	-1163.12	2065.44	40.1379930	-104.4722632	9.50	
7630.00†	68.667	11.369	6748.54	-431.40	-1075.58	2087.34	40.1382325	-104.4721813	9.50	
7730.00†	76.909	6.418	6778.12	-336.89	-981.31	2102.00	40.1384908	-104.4721249	9.50	
7830.00†	85.239	1.791	6793.63	-240.59	-882.89	2109.02	40.1387608	-104.4720957	9.50	
7886.95†	90.000	359.218	6796.00	-185.96	-826.01	2109.51	40.1389169	-104.4720916	9.50	TPZ
7886.95	90.000	359.218	6796.00 ¹	-185.96	-826.01	2109.51	40.1389169	-104.4720916	9.50	LP/TPZ
7930.00†	90.000	359.218	6796.00	-144.89	-782.96	2108.93	40.1390350	-104.4720919	0.00	
8030.00†	90.000	359.218	6796.00	-49.50	-682.97	2107.56	40.1393095	-104.4720927	0.00	
8130.00†	90.000	359.218	6796.00	45.89	-582.98	2106.20	40.1395840	-104.4720934	0.00	
8230.00†	90.000	359.218	6796.00	141.29	-482.99	2104.83	40.1398585	-104.4720941	0.00	
8330.00†	90.000	359.218	6796.00	236.68	-383.00	2103.47	40.1401330	-104.4720949	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8430.00†	90.000	359.218	6796.00	332.08	-283.01	2102.10	40.1404075	-104.4720956	0.00	
8530.00†	90.000	359.218	6796.00	427.47	-183.02	2100.74	40.1406820	-104.4720963	0.00	
8630.00†	90.000	359.218	6796.00	522.86	-83.03	2099.37	40.1409565	-104.4720971	0.00	
8730.00†	90.000	359.218	6796.00	618.26	16.96	2098.01	40.1412310	-104.4720978	0.00	
8830.00†	90.000	359.218	6796.00	713.65	116.95	2096.64	40.1415055	-104.4720985	0.00	
8930.00†	90.000	359.218	6796.00	809.05	216.94	2095.28	40.1417800	-104.4720993	0.00	
9030.00†	90.000	359.218	6796.00	904.44	316.93	2093.91	40.1420545	-104.4721000	0.00	
9130.00†	90.000	359.218	6796.00	999.84	416.92	2092.55	40.1423290	-104.4721007	0.00	
9230.00†	90.000	359.218	6796.00	1095.23	516.91	2091.18	40.1426036	-104.4721015	0.00	
9330.00†	90.000	359.218	6796.00	1190.62	616.91	2089.82	40.1428781	-104.4721022	0.00	
9430.00†	90.000	359.218	6796.00	1286.02	716.90	2088.45	40.1431526	-104.4721030	0.00	
9530.00†	90.000	359.218	6796.00	1381.41	816.89	2087.09	40.1434271	-104.4721037	0.00	
9630.00†	90.000	359.218	6796.00	1476.81	916.88	2085.72	40.1437016	-104.4721044	0.00	
9730.00†	90.000	359.218	6796.00	1572.20	1016.87	2084.36	40.1439761	-104.4721052	0.00	
9830.00†	90.000	359.218	6796.00	1667.59	1116.86	2082.99	40.1442506	-104.4721059	0.00	
9930.00†	90.000	359.218	6796.00	1762.99	1216.85	2081.63	40.1445251	-104.4721066	0.00	
10030.00†	90.000	359.218	6796.00	1858.38	1316.84	2080.26	40.1447996	-104.4721074	0.00	
10130.00†	90.000	359.218	6796.00	1953.78	1416.83	2078.90	40.1450741	-104.4721081	0.00	
10230.00†	90.000	359.218	6796.00	2049.17	1516.82	2077.53	40.1453486	-104.4721088	0.00	
10286.82	90.000	359.218	6796.00 ²	2103.37	1573.63	2076.76	40.1455045	-104.4721093	0.00	VS Target 2100'
10320.46	90.673	359.218	6795.80	2135.46	1607.27	2076.30	40.1455969	-104.4721095	2.00	3D Arc (J)
10330.00†	90.673	359.218	6795.69	2144.56	1616.81	2076.17	40.1456231	-104.4721096	0.00	
10430.00†	90.673	359.218	6794.52	2239.95	1716.79	2074.81	40.1458975	-104.4721103	0.00	
10530.00†	90.673	359.218	6793.34	2335.34	1816.78	2073.44	40.1461720	-104.4721111	0.00	
10630.00†	90.673	359.218	6792.17	2430.73	1916.76	2072.08	40.1464465	-104.4721118	0.00	
10730.00†	90.673	359.218	6790.99	2526.11	2016.75	2070.71	40.1467210	-104.4721125	0.00	
10830.00†	90.673	359.218	6789.82	2621.50	2116.73	2069.35	40.1469955	-104.4721133	0.00	
10930.00†	90.673	359.218	6788.65	2716.89	2216.71	2067.98	40.1472700	-104.4721140	0.00	
11030.00†	90.673	359.218	6787.47	2812.28	2316.70	2066.62	40.1475444	-104.4721147	0.00	
11130.00†	90.673	359.218	6786.30	2907.66	2416.68	2065.25	40.1478189	-104.4721155	0.00	
11230.00†	90.673	359.218	6785.12	3003.05	2516.66	2063.89	40.1480934	-104.4721162	0.00	
11330.00†	90.673	359.218	6783.95	3098.44	2616.65	2062.52	40.1483679	-104.4721169	0.00	
11430.00†	90.673	359.218	6782.77	3193.83	2716.63	2061.16	40.1486424	-104.4721177	0.00	
11530.00†	90.673	359.218	6781.60	3289.21	2816.62	2059.79	40.1489169	-104.4721184	0.00	
11630.00†	90.673	359.218	6780.43	3384.60	2916.60	2058.43	40.1491913	-104.4721192	0.00	
11730.00†	90.673	359.218	6779.25	3479.99	3016.58	2057.06	40.1494658	-104.4721199	0.00	
11830.00†	90.673	359.218	6778.08	3575.38	3116.57	2055.70	40.1497403	-104.4721206	0.00	
11930.00†	90.673	359.218	6776.90	3670.77	3216.55	2054.33	40.1500148	-104.4721214	0.00	
12030.00†	90.673	359.218	6775.73	3766.15	3316.54	2052.97	40.1502893	-104.4721221	0.00	
12130.00†	90.673	359.218	6774.56	3861.54	3416.52	2051.60	40.1505637	-104.4721228	0.00	
12230.00†	90.673	359.218	6773.38	3956.93	3516.50	2050.24	40.1508382	-104.4721236	0.00	
12330.00†	90.673	359.218	6772.21	4052.32	3616.49	2048.87	40.1511127	-104.4721243	0.00	
12430.00†	90.673	359.218	6771.03	4147.70	3716.47	2047.51	40.1513872	-104.4721250	0.00	
12530.00†	90.673	359.218	6769.86	4243.09	3816.45	2046.14	40.1516617	-104.4721258	0.00	
12630.00†	90.673	359.218	6768.68	4338.48	3916.44	2044.78	40.1519362	-104.4721265	0.00	



Planned Wellpath Report

Guttersen YY18-715 (REV-B.1) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

WELLPATH DATA (163 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12730.00†	90.673	359.218	6767.51	4433.87	4016.42	2043.41	40.1522106	-104.4721273	0.00	
12830.00†	90.673	359.218	6766.34	4529.25	4116.41	2042.05	40.1524851	-104.4721280	0.00	
12930.00†	90.673	359.218	6765.16	4624.64	4216.39	2040.68	40.1527596	-104.4721287	0.00	
13030.00†	90.673	359.218	6763.99	4720.03	4316.37	2039.32	40.1530341	-104.4721295	0.00	
13130.00†	90.673	359.218	6762.81	4815.42	4416.36	2037.95	40.1533086	-104.4721302	0.00	
13230.00†	90.673	359.218	6761.64	4910.80	4516.34	2036.59	40.1535831	-104.4721309	0.00	
13330.00†	90.673	359.218	6760.46	5006.19	4616.32	2035.22	40.1538575	-104.4721317	0.00	
13430.00†	90.673	359.218	6759.29	5101.58	4716.31	2033.86	40.1541320	-104.4721324	0.00	
13530.00†	90.673	359.218	6758.12	5196.97	4816.29	2032.49	40.1544065	-104.4721331	0.00	
13630.00†	90.673	359.218	6756.94	5292.35	4916.28	2031.13	40.1546810	-104.4721339	0.00	
13730.00†	90.673	359.218	6755.77	5387.74	5016.26	2029.76	40.1549555	-104.4721346	0.00	
13830.00†	90.673	359.218	6754.59	5483.13	5116.24	2028.40	40.1552299	-104.4721354	0.00	
13930.00†	90.673	359.218	6753.42	5578.52	5216.23	2027.03	40.1555044	-104.4721361	0.00	
14030.00†	90.673	359.218	6752.25	5673.90	5316.21	2025.67	40.1557789	-104.4721368	0.00	
14130.00†	90.673	359.218	6751.07	5769.29	5416.19	2024.30	40.1560534	-104.4721376	0.00	
14230.00†	90.673	359.218	6749.90	5864.68	5516.18	2022.94	40.1563279	-104.4721383	0.00	
14330.00†	90.673	359.218	6748.72	5960.07	5616.16	2021.57	40.1566024	-104.4721390	0.00	
14430.00†	90.673	359.218	6747.55	6055.45	5716.15	2020.21	40.1568768	-104.4721398	0.00	
14530.00†	90.673	359.218	6746.37	6150.84	5816.13	2018.84	40.1571513	-104.4721405	0.00	
14630.00†	90.673	359.218	6745.20	6246.23	5916.11	2017.48	40.1574258	-104.4721412	0.00	
14730.00†	90.673	359.218	6744.03	6341.62	6016.10	2016.12	40.1577003	-104.4721420	0.00	
14830.00†	90.673	359.218	6742.85	6437.00	6116.08	2014.75	40.1579748	-104.4721427	0.00	
14930.00†	90.673	359.218	6741.68	6532.39	6216.06	2013.39	40.1582492	-104.4721435	0.00	
15030.00†	90.673	359.218	6740.50	6627.78	6316.05	2012.02	40.1585237	-104.4721442	0.00	
15130.00†	90.673	359.218	6739.33	6723.17	6416.03	2010.66	40.1587982	-104.4721449	0.00	
15230.00†	90.673	359.218	6738.16	6818.55	6516.02	2009.29	40.1590727	-104.4721457	0.00	
15330.00†	90.673	359.218	6736.98	6913.94	6616.00	2007.93	40.1593472	-104.4721464	0.00	
15413.56	90.673	359.218	6736.00‡	6993.64	6699.54	2006.79	40.1595765	-104.4721470	0.00	BHL

HOLE & CASING SECTIONS - Ref Wellbore: Guttersen YY18-715 PWB Ref Wellpath: Guttersen YY18-715 (REV-B.1) PWP									
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]
9.625in Casing Surface	30.00	1950.00	1920.00	30.00	1950.00	0.00	0.00	0.00	0.00

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
DP 455 Sec.07-T02N-R63W	N/A	0.00	0.01	-157.42	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
DP 455 Sec.18-T02N-R63W	N/A	0.00	0.01	-157.42	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
DP 455 Section 18 half section	N/A	0.00	0.01	-157.42	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
3) Guttersen YY18-715 BHL (200'FNL & 350'FEL,SEC.07)	15413.56	6736.00	6699.54	2006.79	3287276.47	1302641.88	40.1595765	-104.4721470	point
Guttersen YY18-715 BPZ (200'FNL & 350'FEL,SEC.07)	N/A	6736.00	6699.54	2006.79	3287276.47	1302641.88	40.1595765	-104.4721470	point
1) Guttersen YY18-715 LP (2435'FNL & 330'FEL,SEC.18)	7886.95	6796.00	-826.01	2109.51	3287379.19	1295116.66	40.1389169	-104.4720916	point
2) Guttersen YY18-715 VS Target 2100'	10286.82	6796.00	1573.63	2076.76	3287346.44	1297516.19	40.1455045	-104.4721093	point
DP455 East Hardline (200'FNL/FSL&300'FEL/FWL)	N/A	6933.00	2149.12	-5368.88	3279901.12	1298091.66	40.1473180	-104.4987170	polygon
2D Polygon: dimensions not calculated									

SURVEY PROGRAM - Ref Wellbore: Guttersen YY18-715 PWB Ref Wellpath: Guttersen YY18-715 (REV-B.1) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	1950.00	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-715 PWB
1950.00	15413.56	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-715 PWB



Planned Wellpath Report

Guttersen YY18-715 (REV-B.1) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7886.95	90.000	359.218	6796.00	TPZ

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	128.892	30.00	Tie On
2000.00	0.000	128.892	2000.00	End of Tangent
3750.06	35.001	128.892	3643.22	Build (XS)
6713.47	35.001	128.892	6070.67	KOP
7886.95	90.000	359.218	6796.00	LP/TPZ
10286.82	90.000	359.218	6796.00	VS Target 2100'
10320.46	90.673	359.218	6795.80	3D Arc (J)
15413.56	90.673	359.218	6736.00	BHL



Closest Approach Clearance Summary Report

Guttersen YY18-715 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Guenaler
Scale	0.999959	Report Generated	2/5/2024 at 2:39:23 PM
Convergence at slot	0.66° East	Database	WA_Denver

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.01	157.42	3285269.77	1295942.63	40°08'28.5036"N	104°28'46.5672"W
Facility Reference Pt			3285112.36	1295942.64	40°08'28.5216"N	104°28'48.5940"W
Field Reference Pt			3000000.00	4454105.15	48°46'34.3150"N	105°30'0.0000"W

WELLPATH DATUM			
Calculation method	Minimum Curvature	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Facility Vertical Datum	4926.00ft
Horizontal Reference Pt	Slot	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Mean Sea Level	4926.00ft
Vertical Reference Pt	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB)	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB) to Ground Level at Slot (SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18))	4926.00ft
MD Reference Pt	Rig on SLOT#08 Guttersen YY18-01 (1583'FNL & 2453'FEL,SEC.18) (RKB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS					
Ellipse Confidence Limit	3.50 Std Dev	Ellipse Start MD	30.00ft	Surface Position Uncertainty	included
Declination	7.62° East of TN	Dip Angle	66.36°	Mag Field Strength	51733 nT
Slot Surface Uncertainty @1SD		Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft	Vertical	3.000ft
Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes					



Closest Approach Clearance Summary Report

Guttersen YY18-715 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL, SEC.18)		

PROXIMITY-SCAN RULE			
Rule Name	SPE WPTS Stop Drilling HSE Risk (2017)	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.00
Include Casing & Hole Size	yes	Apply Cone of Safety	no

HOLE & CASING SECTIONS - Ref Wellbore: Guttersen YY18-715 PWB Ref Wellpath: Guttersen YY18-715 (REV-B.1) PWP									
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]
9.625in Casing Surface	30.00	1950.00	1920.00	30.00	1950.00	0.00	0.00	0.00	0.00

SURVEY PROGRAM - Ref Wellbore: Guttersen YY18-715 PWB Ref Wellpath: Guttersen YY18-715 (REV-B.1) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	1950.00	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-715 PWB
1950.00	15413.56	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-715 PWB



Closest Approach Clearance Summary Report

Guttersen YY18-715 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 15413.56ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (30 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane												
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	Wellbore Status	C-C Clearance Distance			Rule Separation Ratio			
						Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	Rule Status
YY Section 18	ELMER KAUFMAN #3	ELMER KAUFMAN #3 (05-123-07865)	ELMER KAUFMAN #3	ELMER KAUFMAN #3\No Surveys	Drilling	8394.70	294.87	8394.70	8394.70	0.04	8394.70	FAIL
YY Section 18	ELMER KAUFMAN #1	ELMER KAUFMAN #1 (05-123-40000)	ELMER KAUFMAN #1	ELMER KAUFMAN #1\No Surveys	Drilling	5347.89	994.24	5347.89	5844.60	0.16	5844.60	FAIL
YY Section 18	CUYKENDALL-LAUCK #1	CUYKENDALL-LAUCK #1 (05-123-07705)	CUYKENDALL-LAUCK #1	CUYKENDALL-LAUCK #1\No Surveys	Drilling	30.00	1048.88	9672.52	9672.52	0.19	9672.52	FAIL
YY Section 07	J.H. CUYKENDALL B #1	J.H. CUYKENDALL B #1 (05-123-09705)	J.H. CUYKENDALL B #1	J.H. CUYKENDALL B #1\No Surveys	Drilling	12313.79	1609.01	12313.79	12309.30	0.19	12309.30	FAIL
YY Section 18	KAUFMAN #4	KAUFMAN #4 (05-123-07952)	KAUFMAN #4	KAUFMAN #4\No Surveys	Drilling	6930.00	1588.60	6930.00	7055.75	0.21	7055.75	FAIL
YY Section 18	ELMER KAUFMAN #2	ELMER KAUFMAN #2 (05-123-07611)	ELMER KAUFMAN #2	ELMER KAUFMAN #2\No Surveys	Drilling	6725.05	2043.05	6725.05	6925.77	0.27	6925.77	FAIL
YY Section 18	CUYKENDALL-LAUCK #2	CUYKENDALL-LAUCK #2 (05-123-07973)	CUYKENDALL-LAUCK #2	CUYKENDALL-LAUCK #2\No Surveys	Drilling	30.00	982.52	8330.00	3404.29	0.29	8330.00	FAIL
YY Section 18	CUYKENDALL-LAUCK #3	CUYKENDALL-LAUCK #3 (05-123-08387)	CUYKENDALL-LAUCK #3	CUYKENDALL-LAUCK #3\No Surveys	Drilling	30.00	1100.14	8130.00	3615.30	0.30	8130.00	FAIL
YY Section 07	CUYKENDALL #24-7	CUYKENDALL #24-7 (05-123-10357)	CUYKENDALL #24-7	CUYKENDALL #24-7\No Surveys	Drilling	30.00	2460.96	10966.85	10966.85	0.38	10966.85	FAIL
SEC.18-T02N-R63W	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)	Guttersen YY18-726	Guttersen YY18-726 PWB	Guttersen YY18-726 (REV-B.1) PWP	Planned	30.00	22.37	2000.00	2003.49	1.02	15413.56	WARN
YY Section 18	EWS #4	EWS #4 (05-123-44167)	EWS #4	EWS #4\MWD	Drilling	7007.97	86.48	7007.97	7020.17	1.23	7020.17	PASS
SEC.18-T02N-R63W	SLOT#06 Guttersen YY18-736 (1582'FNL & 2498'FEL,SEC.18)	Guttersen YY18-736	Guttersen YY18-736 PWB	Guttersen YY18-736 (REV-B.1) PWP	Planned	30.00	45.01	2000.00	2003.06	2.27	15413.56	PASS
SEC.18-T02N-R63W	SLOT#05 Guttersen YY18-746(1582'FNL & 2521'FEL,SEC.18)	Guttersen YY18-746	Guttersen YY18-746 PWB	Guttersen YY18-746 (REV-B.1) PWP	Planned	30.00	67.38	2000.00	2002.51	3.50	15413.56	PASS
SEC.18-T02N-R63W	SLOT#04 Guttersen YY18-754 (1582'FNL & 2543'FEL,SEC.18)	Guttersen YY18-754	Guttersen YY18-754 PWB	Guttersen YY18-754 (REV-B.1) PWP	Planned	30.00	90.03	2000.00	2057.43	4.68	15413.56	PASS
SEC.18-T02N-R63W	SLOT#03 Guttersen YY18-764 (1582'FNL & 2566'FEL,SEC.18)	Guttersen YY18-764	Guttersen YY18-764 PWB	Guttersen YY18-764 (REV-B.1) PWP	Planned	30.00	112.40	2000.00	2002.26	5.99	15413.56	PASS
SEC.06-T02N-R63W	SLOT#03 Guttersen #6R-323 (05-123-38275)	Guttersen #6R-323	Guttersen #6R-323 AWB	Guttersen #6R-323 AWP	Drilling	15413.56	888.39	15413.56	15413.56	6.26	15413.56	PASS
SEC.18-T02N-R63W	SLOT#02 Guttersen YY18-775 (1582'FNL & 2588'FEL,SEC.18)	Guttersen YY18-775	Guttersen YY18-775 PWB	Guttersen YY18-775 (REV-B.1) PWP	Planned	30.00	135.05	2000.00	2060.77	7.13	15413.56	PASS
SEC.06-T02N-R63W	SLOT#02 Guttersen #6U-443 (05-123-38274)	Guttersen #6U-443 (05-123-38274)	Guttersen #6U-443 AWB	Guttersen #6U-443 AWP	Drilling	15413.56	764.63	15413.56	15413.56	7.20	15413.56	PASS
SEC.06-T02N-R63W	SLOT#04 Guttersen #6R-403 (05-123-39169)	Guttersen #6R-403	Guttersen #6R-403 AWB	Guttersen #6R-403 AWP	Drilling	15413.56	1388.47	15413.56	15413.56	7.96	15413.56	PASS
SEC.18-T02N-R63W	SLOT#01 Guttersen YY18-785 (1582'FNL & 2611'FEL,SEC.18)	Guttersen YY18-785	Guttersen YY18-785 PWB	Guttersen YY18-785 (REV-B.1) PWP	Planned	30.00	157.42	8030.00	2002.67	8.47	15413.56	PASS
SEC.06-T02N-R63W	SLOT#01 Guttersen 6U-203(75'FNL&414'FEL,SEC.06)	Guttersen 6U-203 (05-123-38279)	Guttersen 6U-203 AWB	Guttersen 6U-203 AWP	Drilling	15413.56	734.00	15413.56	15413.56	9.12	15413.56	PASS
SEC.06-T02N-R63W	SLOT#05 Guttersen #6R-243 (05-123-38272)	Guttersen #6R-243	Guttersen #6R-243 AWB	Guttersen #6R-243 AWP	Drilling	15413.56	1649.87	15413.56	15413.56	9.18	15413.56	PASS
SEC.06-T02N-R63W	SLOT#06 Guttersen #6M-423 (05-123-38271)	Guttersen #6M-423	Guttersen #6M-423 AWB	Guttersen #6M-423 AWP	Drilling	15413.56	1948.48	15413.56	15413.56	10.31	15413.56	PASS
SEC.06-T02N-R63W	SLOT#07 Guttersen #6M-303 (05-123-38273)	Guttersen #6M-303	Guttersen #6M-303 AWB	Guttersen #6M-303 AWP	Drilling	15413.56	2280.50	15413.56	15413.56	11.87	15413.56	PASS
SEC.30-T03N-R63W	SLOT#12 GUTTERSEN YY06 -756 (600'FSL & 2615'FWL,SEC.30)	GUTTERSEN YY06 -756 (05-123-48641)	GUTTERSEN YY06 -756 AWB	GUTTERSEN YY06 -756 AWP	Drilling	15413.56	2931.51	15413.56	15413.56	14.47	15413.56	PASS



Closest Approach Clearance Summary Report

Guttersen YY18-715 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-715
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-715 PWB
Slot	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 15413.56ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (30 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane												
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	Wellbore Status	C-C Clearance Distance			Rule Separation Ratio			
						Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	Rule Status
SEC.30-T03N-R63W	SLOT#11 GUTTERSEN YY06 -766 (600'FSL & 2577'FWL,SEC.30)	GUTTERSEN YY06 -766 (05-123-48643)	GUTTERSEN YY06 -766 AWB	GUTTERSEN YY06 -766 AWP	Drilling	15413.56	3567.20	15413.56	15413.56	17.53	15413.56	PASS
SEC.30-T03N-R63W	SLOT#10 GUTTERSEN YY06 -775 (601'FSL & 2540'FWL,SEC.30)	GUTTERSEN YY06 -775 (05-123-48642)	GUTTERSEN YY06 -775 AWB	GUTTERSEN YY06 -775 AWP	Drilling	15413.56	4184.74	15413.56	15413.56	20.50	15413.56	PASS
SEC.30-T03N-R63W	SLOT#09 GUTTERSEN YY06 -785 (601'FSL & 2502'FWL,SEC.30)	GUTTERSEN YY06 -785 (05-123-48640)	GUTTERSEN YY06 -785 AWB	GUTTERSEN YY06 -785 AWP	Drilling	15413.56	4823.24	15413.56	15413.56	23.87	15413.56	PASS
YY Section 18	EWS #4B	EWS #4B ((05-123-48766)	Wellbore #1	Wellbore #1\As-Drilled	Drilling	206.59	2464.53	6830.00	7134.37	37.20	7134.37	PASS
YY Section 18	JOHN CUYKENDALL UNIT #2	JOHN CUYKENDALL UNIT #2 (05-123-08083)	JOHN CUYKENDALL UNIT #2	JOHN CUYKENDALL UNIT #2\As-Drilled	Drilling	308.74	2545.48	9630.00	11005.21	58.31	11005.21	PASS