

NOBLE ENERGY, INC



Location: COLORADO Slot: SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)
 Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: Guttersen Y12-754
 Facility: SEC.12-T02N-R64W Wellbore: Guttersen Y12-754 PWB

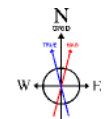
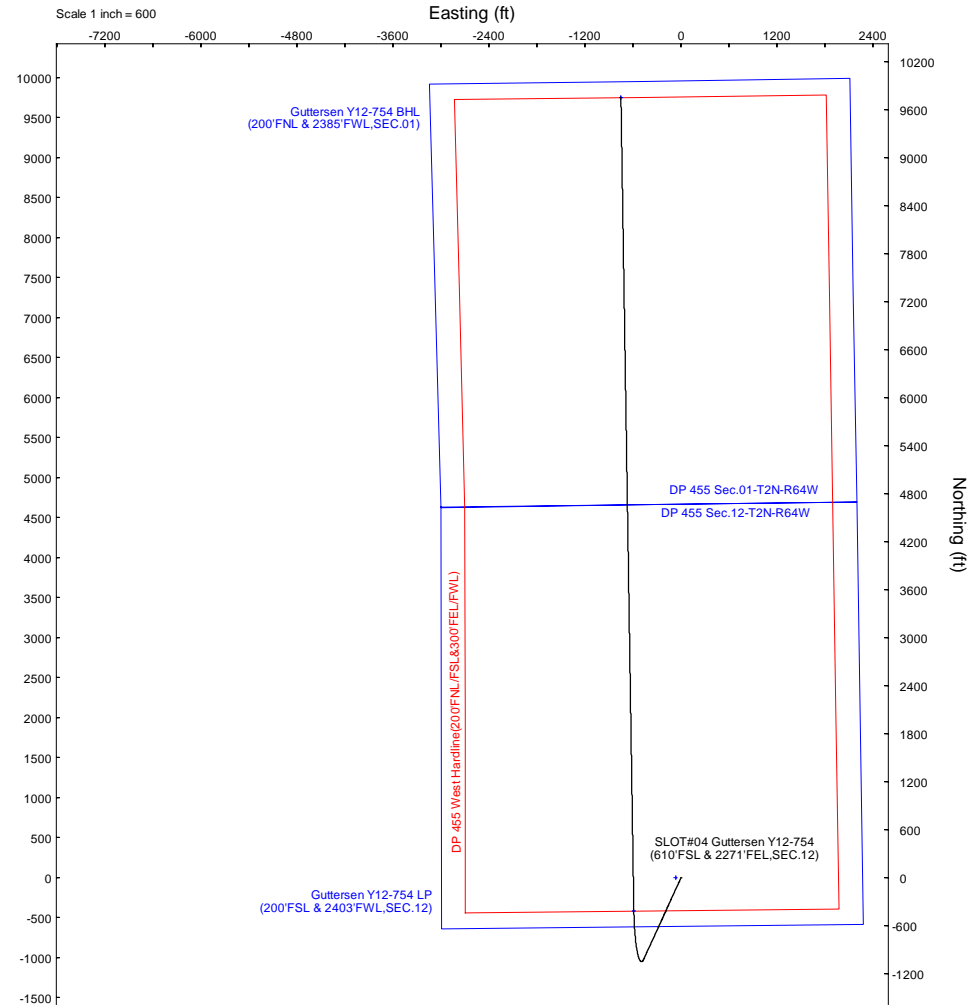
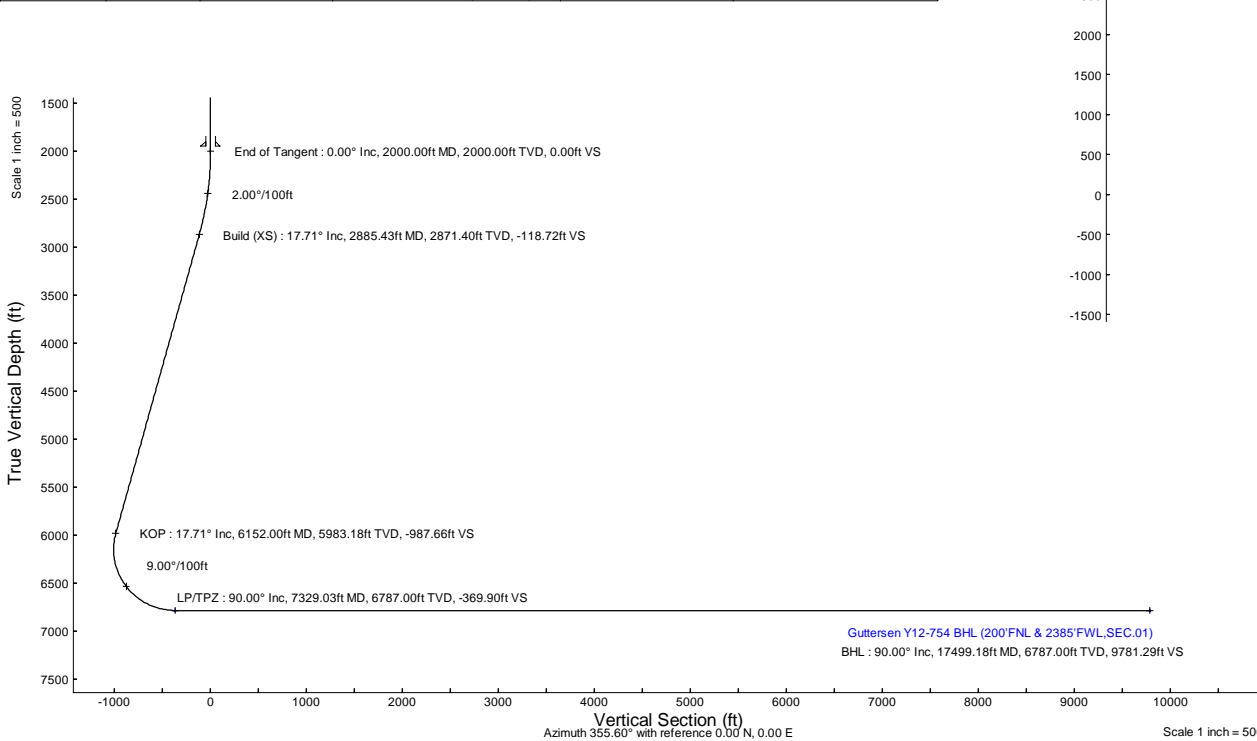
Plot reference wellpath is Guttersen Y12-754 (REV-B.1) PWP
 Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
 True vertical depths are referenced to RIG (4866'GL+30'KB@4896'RKB) (RKB)
 North Reference: Grid north
 Reference wellpath measured depths are referenced to RIG (4866'GL+30'KB@4896'RKB) (RKB)
 Scale: True distance
 RIG (4866'GL+30'KB@4896'RKB) to Mean Sea Level: 4894 feet
 Coordinates are in feet referenced to Slot
 Mean Sea Level to Ground level (At Slot: SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)): 0 feet
 Depths are in feet
 Offset wellpath MDs are referenced to each path's default MD datum
 Created by: gumaral on 2023-12-05; Database: WA_Denver

Location Information								
Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SEC.12-T02N-R64W				3279878.757	1298091.404	40°08'50.3448"N	104°29'55.6692"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)	0.40	67.37	3279946.128	1298091.801	40°08'50.3412"N	104°29'54.8018"W		
RIG (4866'GL+30'KB@4896'RKB) (RKB) to Ground level (At Slot: SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12))								4894ft
Mean Sea Level to Ground level (At Slot: SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12))								0ft
RIG (4866'GL+30'KB@4896'RKB) (RKB) to Mean Sea Level								4894ft

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	30.00	0.000	204.605	30.00	0.00	0.00	0.00	0.00
End of Tangent	2000.00	0.000	204.605	2000.00	0.00	0.00	0.00	0.00
Build (XS)	2885.43	17.709	204.605	2871.40	-123.42	-56.52	2.00	-118.72
KOP	6152.00	17.709	204.605	5983.18	-1026.81	-470.23	0.00	-987.66
LP/TPZ	7329.03	90.000	359.094	6787.00	-416.47	-590.43	9.00	-369.90
BHL	17499.18	90.000	359.094	6787.00	9752.40	-751.21	0.00	9781.29

Targets								
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
DP 455 Sec.01-T2N-R64W	N/A	-2.00	-0.40	-67.37	3279878.76	1298091.40	40°08'50.3448"N	104°29'55.6692"W
DP 455 Sec.12-T2N-R64W	N/A	-2.00	-0.40	-67.37	3279878.76	1298091.40	40°08'50.3448"N	104°29'55.6692"W
Guttersen Y12-754 BHL (200'FNL & 2385'FWL,SEC.01)	17499.18	6787.00	9752.40	-751.21	3279194.95	1307843.78	40°10'26.7928"N	104°30'3.0596"W
Guttersen Y12-754 LP (200'FSL & 2403'FWL,SEC.12)	7329.03	6787.00	-416.47	-590.43	3279355.72	1297675.34	40°08'46.2917"N	104°30'2.4648"W
DP 455 West Hardline(200'FNL/FSL&300'FEL/FWL)	N/A	6850.00	0.51	45.01	3279991.13	1298092.31	40°08'50.3412"N	104°29'54.2220"W

Survey Program					
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
30.00	1950.00	OWSG MWD rev2	OWSG MWD rev2 (MS+IFR1)		Guttersen Y12-754 PWB
1950.00	17499.18	OWSG MWD rev2	OWSG MWD rev2 (MS+IFR1)		Guttersen Y12-754 PWB



BGGM (1900.0 to 2024.0) Dip: 66.38° Field: 51693.3 nT
 Magnetic North is 7.63 degrees East of True North (at 3/31/2023)
 Grid North is 0.65 degrees East of True North
 To correct azimuth from True to Grid subtract 0.65 degrees
 To correct azimuth from Magnetic to Grid add 0.98 degrees



Planned Wellpath Report

Guttersen Y12-754 (REV-B.1) PWP

Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

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	0.999958	Report Generated	2/12/2024 at 10:54:56 AM
Convergence at slot	0.65° 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	0.40	67.37	3279946.13	1298091.80	40.1473170°	-104.4985560°
Facility Reference Pt			3279878.76	1298091.40	40.1473180°	-104.4987970°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

WELLPATH DATUM

Calculation method	Minimum curvature	RIG (4866'GL+30'KB@4896'RKB) (RKB) to Facility Vertical Datum	4894.00ft
Horizontal Reference Pt	Slot	RIG (4866'GL+30'KB@4896'RKB) (RKB) to Mean Sea Level	4894.00ft
Vertical Reference Pt	RIG (4866'GL+30'KB@4896'RKB) (RKB)	RIG (4866'GL+30'KB@4896'RKB) (RKB) to Ground Level at Slot (SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12))	4894.00ft
MD Reference Pt	RIG (4866'GL+30'KB@4896'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	355.60°



Planned Wellpath Report

Guttersen Y12-754 (REV-B.1) PWP

Page 2 of 8



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

WELLPATH DATA (191 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	204.605	0.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
30.00	0.000	204.605	30.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	Tie On
130.00†	0.000	204.605	130.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
230.00†	0.000	204.605	230.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
330.00†	0.000	204.605	330.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
430.00†	0.000	204.605	430.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
530.00†	0.000	204.605	530.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
630.00†	0.000	204.605	630.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
730.00†	0.000	204.605	730.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
830.00†	0.000	204.605	830.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
930.00†	0.000	204.605	930.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
935.33†	0.000	204.605	935.33	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	Upper Pierre Aquifer Top
1030.00†	0.000	204.605	1030.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1130.00†	0.000	204.605	1130.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1230.00†	0.000	204.605	1230.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1330.00†	0.000	204.605	1330.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1430.00†	0.000	204.605	1430.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1530.00†	0.000	204.605	1530.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1630.00†	0.000	204.605	1630.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1655.82†	0.000	204.605	1655.82	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	Upper Pierre Aquifer Base
1730.00†	0.000	204.605	1730.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1830.00†	0.000	204.605	1830.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
1930.00†	0.000	204.605	1930.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	
2000.00	0.000	204.605	2000.00	0.00	0.00	0.00	40.1473170	-104.4985560	0.00	End of Tangent
2030.00†	0.600	204.605	2030.00	-0.14	-0.14	-0.07	40.1473166	-104.4985562	2.00	
2130.00†	2.600	204.605	2129.96	-2.58	-2.68	-1.23	40.1473097	-104.4985605	2.00	
2230.00†	4.600	204.605	2229.75	-8.07	-8.39	-3.84	40.1472941	-104.4985701	2.00	
2330.00†	6.600	204.605	2329.27	-16.60	-17.26	-7.90	40.1472699	-104.4985850	2.00	
2430.00†	8.600	204.605	2428.39	-28.17	-29.29	-13.41	40.1472370	-104.4986052	2.00	
2530.00†	10.600	204.605	2526.98	-42.75	-44.45	-20.35	40.1471956	-104.4986306	2.00	
2630.00†	12.600	204.605	2624.93	-60.34	-62.73	-28.73	40.1471457	-104.4986613	2.00	
2730.00†	14.600	204.605	2722.13	-80.90	-84.11	-38.52	40.1470873	-104.4986972	2.00	
2830.00†	16.600	204.605	2818.44	-104.42	-108.56	-49.71	40.1470206	-104.4987382	2.00	
2885.43	17.709	204.605	2871.40	-118.72	-123.42	-56.52	40.1469800	-104.4987631	2.00	Build (XS)
2930.00†	17.709	204.605	2913.86	-130.57	-135.75	-62.16	40.1469463	-104.4987838	0.00	
3030.00†	17.709	204.605	3009.12	-157.17	-163.40	-74.83	40.1468708	-104.4988303	0.00	
3130.00†	17.709	204.605	3104.38	-183.77	-191.06	-87.49	40.1467953	-104.4988767	0.00	
3230.00†	17.709	204.605	3199.64	-210.37	-218.71	-100.16	40.1467198	-104.4989231	0.00	
3330.00†	17.709	204.605	3294.90	-236.98	-246.37	-112.82	40.1466443	-104.4989695	0.00	
3430.00†	17.709	204.605	3390.17	-263.58	-274.02	-125.49	40.1465687	-104.4990159	0.00	
3530.00†	17.709	204.605	3485.43	-290.18	-301.68	-138.15	40.1464932	-104.4990623	0.00	
3630.00†	17.709	204.605	3580.69	-316.78	-329.34	-150.82	40.1464177	-104.4991087	0.00	
3730.00†	17.709	204.605	3675.95	-343.38	-356.99	-163.48	40.1463422	-104.4991552	0.00	
3830.00†	17.709	204.605	3771.21	-369.98	-384.65	-176.15	40.1462667	-104.4992016	0.00	
3878.36†	17.709	204.605	3817.28	-382.85	-398.02	-182.27	40.1462301	-104.4992240	0.00	Parkman



Planned Wellpath Report

Guttersen Y12-754 (REV-B.1) PWP

Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3930.00†	17.709	204.605	3866.47	-396.58	-412.30	-188.81	40.1461911	-104.4992480	0.00	
4030.00†	17.709	204.605	3961.74	-423.19	-439.96	-201.48	40.1461156	-104.4992944	0.00	
4130.00†	17.709	204.605	4057.00	-449.79	-467.61	-214.14	40.1460401	-104.4993408	0.00	
4218.15†	17.709	204.605	4140.97	-473.24	-491.99	-225.31	40.1459735	-104.4993817	0.00	Sussex
4230.00†	17.709	204.605	4152.26	-476.39	-495.27	-226.81	40.1459646	-104.4993872	0.00	
4330.00†	17.709	204.605	4247.52	-502.99	-522.93	-239.47	40.1458891	-104.4994337	0.00	
4430.00†	17.709	204.605	4342.78	-529.59	-550.58	-252.14	40.1458136	-104.4994801	0.00	
4530.00†	17.709	204.605	4438.04	-556.19	-578.24	-264.80	40.1457380	-104.4995265	0.00	
4630.00†	17.709	204.605	4533.30	-582.79	-605.89	-277.47	40.1456625	-104.4995729	0.00	
4730.00†	17.709	204.605	4628.57	-609.39	-633.55	-290.13	40.1455870	-104.4996193	0.00	
4830.00†	17.709	204.605	4723.83	-636.00	-661.20	-302.80	40.1455115	-104.4996657	0.00	
4930.00†	17.709	204.605	4819.09	-662.60	-688.86	-315.46	40.1454360	-104.4997121	0.00	
5030.00†	17.709	204.605	4914.35	-689.20	-716.52	-328.13	40.1453604	-104.4997586	0.00	
5083.82†	17.709	204.605	4965.62	-703.52	-731.40	-334.94	40.1453198	-104.4997835	0.00	Shannon
5130.00†	17.709	204.605	5009.61	-715.80	-744.17	-340.79	40.1452849	-104.4998050	0.00	
5230.00†	17.709	204.605	5104.87	-742.40	-771.83	-353.46	40.1452094	-104.4998514	0.00	
5330.00†	17.709	204.605	5200.14	-769.00	-799.48	-366.12	40.1451339	-104.4998978	0.00	
5430.00†	17.709	204.605	5295.40	-795.60	-827.14	-378.79	40.1450584	-104.4999442	0.00	
5530.00†	17.709	204.605	5390.66	-822.21	-854.79	-391.45	40.1449828	-104.4999906	0.00	
5630.00†	17.709	204.605	5485.92	-848.81	-882.45	-404.12	40.1449073	-104.5000370	0.00	
5730.00†	17.709	204.605	5581.18	-875.41	-910.11	-416.78	40.1448318	-104.5000835	0.00	
5830.00†	17.709	204.605	5676.44	-902.01	-937.76	-429.45	40.1447563	-104.5001299	0.00	
5930.00†	17.709	204.605	5771.70	-928.61	-965.42	-442.11	40.1446808	-104.5001763	0.00	
6030.00†	17.709	204.605	5866.97	-955.21	-993.07	-454.78	40.1446053	-104.5002227	0.00	
6130.00†	17.709	204.605	5962.23	-981.81	-1020.73	-467.44	40.1445297	-104.5002691	0.00	
6152.00	17.709	204.605	5983.18	-987.66	-1026.81	-470.23	40.1445131	-104.5002793	0.00	KOP
6168.14†	16.422	206.907	5998.61	-991.76	-1031.08	-472.28	40.1445015	-104.5002868	9.00	Teepee Buttes
6230.00†	11.843	220.076	6058.60	-1003.77	-1043.74	-480.33	40.1444670	-104.5003162	9.00	
6330.00†	7.831	269.733	6157.27	-1010.62	-1051.64	-493.78	40.1444457	-104.5003646	9.00	
6430.00†	11.974	318.670	6255.92	-1001.81	-1043.87	-507.47	40.1444675	-104.5004132	9.00	
6530.00†	19.657	336.451	6352.12	-977.58	-1020.61	-521.07	40.1445317	-104.5004609	9.00	
6630.00†	28.114	344.178	6443.49	-938.52	-982.45	-534.24	40.1446369	-104.5005065	9.00	
6730.00†	36.814	348.507	6527.80	-885.58	-930.31	-546.66	40.1447804	-104.5005488	9.00	
6830.00†	45.617	351.359	6602.95	-820.08	-865.49	-558.02	40.1449586	-104.5005868	9.00	
6862.81†	48.519	352.110	6625.30	-796.11	-841.72	-561.47	40.1450240	-104.5005982	9.00	Sharon Springs
6922.98†	53.850	353.328	6663.00	-749.31	-795.24	-567.39	40.1451518	-104.5006175	9.00	Top A Chalk, Top A Marl
6930.00†	54.473	353.459	6667.11	-743.62	-789.58	-568.05	40.1451673	-104.5006196	9.00	
6990.10†	59.810	354.505	6699.71	-693.17	-739.39	-573.32	40.1453052	-104.5006365	9.00	Top B Chalk
7030.00†	63.358	355.138	6718.69	-658.09	-704.45	-576.49	40.1454013	-104.5006464	9.00	
7087.04†	68.434	355.978	6741.98	-606.05	-652.56	-580.51	40.1455438	-104.5006587	9.00	Top B Marl
7130.00†	72.260	356.573	6756.43	-565.60	-612.19	-583.13	40.1456547	-104.5006664	9.00	
7230.00†	81.171	357.870	6779.38	-468.41	-515.08	-587.83	40.1459214	-104.5006793	9.00	
7329.03	90.000	359.094	6787.00 ¹	-369.90	-416.47	-590.43	40.1461921	-104.5006847	9.00	LP/TPZ
7330.00†	90.000	359.094	6787.00	-368.93	-415.51	-590.45	40.1461948	-104.5006847	0.00	
7430.00†	90.000	359.094	6787.00	-269.12	-315.52	-592.03	40.1464693	-104.5006863	0.00	



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Page 4 of 8



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7530.00†	90.000	359.094	6787.00	-169.31	-215.53	-593.61	40.1467438	-104.5006879	0.00	
7630.00†	90.000	359.094	6787.00	-69.49	-115.55	-595.19	40.1470183	-104.5006895	0.00	
7730.00†	90.000	359.094	6787.00	30.32	-15.56	-596.77	40.1472928	-104.5006912	0.00	
7830.00†	90.000	359.094	6787.00	130.13	84.43	-598.35	40.1475673	-104.5006928	0.00	
7930.00†	90.000	359.094	6787.00	229.95	184.42	-599.93	40.1478418	-104.5006944	0.00	
8030.00†	90.000	359.094	6787.00	329.76	284.41	-601.52	40.1481163	-104.5006960	0.00	
8130.00†	90.000	359.094	6787.00	429.58	384.39	-603.10	40.1483908	-104.5006977	0.00	
8230.00†	90.000	359.094	6787.00	529.39	484.38	-604.68	40.1486653	-104.5006993	0.00	
8330.00†	90.000	359.094	6787.00	629.20	584.37	-606.26	40.1489398	-104.5007009	0.00	
8430.00†	90.000	359.094	6787.00	729.02	684.36	-607.84	40.1492143	-104.5007025	0.00	
8530.00†	90.000	359.094	6787.00	828.83	784.34	-609.42	40.1494888	-104.5007042	0.00	
8630.00†	90.000	359.094	6787.00	928.64	884.33	-611.00	40.1497633	-104.5007058	0.00	
8730.00†	90.000	359.094	6787.00	1028.46	984.32	-612.58	40.1500378	-104.5007074	0.00	
8830.00†	90.000	359.094	6787.00	1128.27	1084.31	-614.16	40.1503123	-104.5007090	0.00	
8930.00†	90.000	359.094	6787.00	1228.08	1184.29	-615.74	40.1505868	-104.5007107	0.00	
9030.00†	90.000	359.094	6787.00	1327.90	1284.28	-617.32	40.1508613	-104.5007123	0.00	
9130.00†	90.000	359.094	6787.00	1427.71	1384.27	-618.91	40.1511358	-104.5007139	0.00	
9230.00†	90.000	359.094	6787.00	1527.53	1484.26	-620.49	40.1514103	-104.5007155	0.00	
9330.00†	90.000	359.094	6787.00	1627.34	1584.24	-622.07	40.1516848	-104.5007172	0.00	
9430.00†	90.000	359.094	6787.00	1727.15	1684.23	-623.65	40.1519593	-104.5007188	0.00	
9530.00†	90.000	359.094	6787.00	1826.97	1784.22	-625.23	40.1522338	-104.5007204	0.00	
9630.00†	90.000	359.094	6787.00	1926.78	1884.21	-626.81	40.1525083	-104.5007220	0.00	
9730.00†	90.000	359.094	6787.00	2026.59	1984.19	-628.39	40.1527828	-104.5007237	0.00	
9830.00†	90.000	359.094	6787.00	2126.41	2084.18	-629.97	40.1530573	-104.5007253	0.00	
9930.00†	90.000	359.094	6787.00	2226.22	2184.17	-631.55	40.1533318	-104.5007269	0.00	
10030.00†	90.000	359.094	6787.00	2326.03	2284.16	-633.13	40.1536063	-104.5007285	0.00	
10130.00†	90.000	359.094	6787.00	2425.85	2384.14	-634.71	40.1538808	-104.5007302	0.00	
10230.00†	90.000	359.094	6787.00	2525.66	2484.13	-636.29	40.1541553	-104.5007318	0.00	
10330.00†	90.000	359.094	6787.00	2625.47	2584.12	-637.88	40.1544298	-104.5007334	0.00	
10430.00†	90.000	359.094	6787.00	2725.29	2684.11	-639.46	40.1547042	-104.5007350	0.00	
10530.00†	90.000	359.094	6787.00	2825.10	2784.09	-641.04	40.1549787	-104.5007367	0.00	
10630.00†	90.000	359.094	6787.00	2924.92	2884.08	-642.62	40.1552532	-104.5007383	0.00	
10730.00†	90.000	359.094	6787.00	3024.73	2984.07	-644.20	40.1555277	-104.5007399	0.00	
10830.00†	90.000	359.094	6787.00	3124.54	3084.06	-645.78	40.1558022	-104.5007415	0.00	
10930.00†	90.000	359.094	6787.00	3224.36	3184.04	-647.36	40.1560767	-104.5007431	0.00	
11030.00†	90.000	359.094	6787.00	3324.17	3284.03	-648.94	40.1563512	-104.5007448	0.00	
11130.00†	90.000	359.094	6787.00	3423.98	3384.02	-650.52	40.1566257	-104.5007464	0.00	
11230.00†	90.000	359.094	6787.00	3523.80	3484.01	-652.10	40.1569002	-104.5007480	0.00	
11330.00†	90.000	359.094	6787.00	3623.61	3583.99	-653.68	40.1571747	-104.5007496	0.00	
11430.00†	90.000	359.094	6787.00	3723.42	3683.98	-655.27	40.1574492	-104.5007513	0.00	
11530.00†	90.000	359.094	6787.00	3823.24	3783.97	-656.85	40.1577237	-104.5007529	0.00	
11630.00†	90.000	359.094	6787.00	3923.05	3883.96	-658.43	40.1579982	-104.5007545	0.00	
11730.00†	90.000	359.094	6787.00	4022.87	3983.94	-660.01	40.1582727	-104.5007561	0.00	
11830.00†	90.000	359.094	6787.00	4122.68	4083.93	-661.59	40.1585472	-104.5007578	0.00	
11930.00†	90.000	359.094	6787.00	4222.49	4183.92	-663.17	40.1588217	-104.5007594	0.00	



Planned Wellpath Report

Guttersen Y12-754 (REV-B.1) PWP

Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12030.00†	90.000	359.094	6787.00	4322.31	4283.91	-664.75	40.1590962	-104.5007610	0.00	
12130.00†	90.000	359.094	6787.00	4422.12	4383.89	-666.33	40.1593707	-104.5007626	0.00	
12230.00†	90.000	359.094	6787.00	4521.93	4483.88	-667.91	40.1596452	-104.5007643	0.00	
12330.00†	90.000	359.094	6787.00	4621.75	4583.87	-669.49	40.1599197	-104.5007659	0.00	
12430.00†	90.000	359.094	6787.00	4721.56	4683.86	-671.07	40.1601942	-104.5007675	0.00	
12530.00†	90.000	359.094	6787.00	4821.37	4783.84	-672.65	40.1604687	-104.5007691	0.00	
12630.00†	90.000	359.094	6787.00	4921.19	4883.83	-674.24	40.1607432	-104.5007708	0.00	
12730.00†	90.000	359.094	6787.00	5021.00	4983.82	-675.82	40.1610177	-104.5007724	0.00	
12830.00†	90.000	359.094	6787.00	5120.81	5083.81	-677.40	40.1612922	-104.5007740	0.00	
12930.00†	90.000	359.094	6787.00	5220.63	5183.79	-678.98	40.1615667	-104.5007756	0.00	
13030.00†	90.000	359.094	6787.00	5320.44	5283.78	-680.56	40.1618412	-104.5007773	0.00	
13130.00†	90.000	359.094	6787.00	5420.26	5383.77	-682.14	40.1621157	-104.5007789	0.00	
13230.00†	90.000	359.094	6787.00	5520.07	5483.76	-683.72	40.1623902	-104.5007805	0.00	
13330.00†	90.000	359.094	6787.00	5619.88	5583.74	-685.30	40.1626647	-104.5007821	0.00	
13430.00†	90.000	359.094	6787.00	5719.70	5683.73	-686.88	40.1629392	-104.5007838	0.00	
13530.00†	90.000	359.094	6787.00	5819.51	5783.72	-688.46	40.1632137	-104.5007854	0.00	
13630.00†	90.000	359.094	6787.00	5919.32	5883.71	-690.04	40.1634882	-104.5007870	0.00	
13730.00†	90.000	359.094	6787.00	6019.14	5983.69	-691.63	40.1637627	-104.5007886	0.00	
13830.00†	90.000	359.094	6787.00	6118.95	6083.68	-693.21	40.1640372	-104.5007903	0.00	
13930.00†	90.000	359.094	6787.00	6218.76	6183.67	-694.79	40.1643117	-104.5007919	0.00	
14030.00†	90.000	359.094	6787.00	6318.58	6283.66	-696.37	40.1645862	-104.5007935	0.00	
14130.00†	90.000	359.094	6787.00	6418.39	6383.64	-697.95	40.1648607	-104.5007951	0.00	
14230.00†	90.000	359.094	6787.00	6518.21	6483.63	-699.53	40.1651352	-104.5007968	0.00	
14330.00†	90.000	359.094	6787.00	6618.02	6583.62	-701.11	40.1654097	-104.5007984	0.00	
14430.00†	90.000	359.094	6787.00	6717.83	6683.61	-702.69	40.1656842	-104.5008000	0.00	
14530.00†	90.000	359.094	6787.00	6817.65	6783.59	-704.27	40.1659587	-104.5008016	0.00	
14630.00†	90.000	359.094	6787.00	6917.46	6883.58	-705.85	40.1662332	-104.5008033	0.00	
14730.00†	90.000	359.094	6787.00	7017.27	6983.57	-707.43	40.1665077	-104.5008049	0.00	
14830.00†	90.000	359.094	6787.00	7117.09	7083.56	-709.02	40.1667822	-104.5008065	0.00	
14930.00†	90.000	359.094	6787.00	7216.90	7183.54	-710.60	40.1670567	-104.5008081	0.00	
15030.00†	90.000	359.094	6787.00	7316.71	7283.53	-712.18	40.1673312	-104.5008098	0.00	
15130.00†	90.000	359.094	6787.00	7416.53	7383.52	-713.76	40.1676057	-104.5008114	0.00	
15230.00†	90.000	359.094	6787.00	7516.34	7483.51	-715.34	40.1678802	-104.5008130	0.00	
15330.00†	90.000	359.094	6787.00	7616.15	7583.49	-716.92	40.1681547	-104.5008146	0.00	
15430.00†	90.000	359.094	6787.00	7715.97	7683.48	-718.50	40.1684292	-104.5008163	0.00	
15530.00†	90.000	359.094	6787.00	7815.78	7783.47	-720.08	40.1687037	-104.5008179	0.00	
15630.00†	90.000	359.094	6787.00	7915.60	7883.46	-721.66	40.1689782	-104.5008195	0.00	
15730.00†	90.000	359.094	6787.00	8015.41	7983.44	-723.24	40.1692527	-104.5008211	0.00	
15830.00†	90.000	359.094	6787.00	8115.22	8083.43	-724.82	40.1695272	-104.5008228	0.00	
15930.00†	90.000	359.094	6787.00	8215.04	8183.42	-726.40	40.1698017	-104.5008244	0.00	
16030.00†	90.000	359.094	6787.00	8314.85	8283.41	-727.99	40.1700762	-104.5008260	0.00	
16130.00†	90.000	359.094	6787.00	8414.66	8383.39	-729.57	40.1703507	-104.5008276	0.00	
16230.00†	90.000	359.094	6787.00	8514.48	8483.38	-731.15	40.1706252	-104.5008293	0.00	
16330.00†	90.000	359.094	6787.00	8614.29	8583.37	-732.73	40.1708997	-104.5008309	0.00	
16430.00†	90.000	359.094	6787.00	8714.10	8683.36	-734.31	40.1711742	-104.5008325	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16530.00†	90.000	359.094	6787.00	8813.92	8783.34	-735.89	40.1714487	-104.5008341	0.00	
16630.00†	90.000	359.094	6787.00	8913.73	8883.33	-737.47	40.1717232	-104.5008358	0.00	
16730.00†	90.000	359.094	6787.00	9013.54	8983.32	-739.05	40.1719977	-104.5008374	0.00	
16830.00†	90.000	359.094	6787.00	9113.36	9083.31	-740.63	40.1722722	-104.5008390	0.00	
16930.00†	90.000	359.094	6787.00	9213.17	9183.29	-742.21	40.1725466	-104.5008406	0.00	
17030.00†	90.000	359.094	6787.00	9312.99	9283.28	-743.79	40.1728211	-104.5008423	0.00	
17130.00†	90.000	359.094	6787.00	9412.80	9383.27	-745.38	40.1730956	-104.5008439	0.00	
17230.00†	90.000	359.094	6787.00	9512.61	9483.26	-746.96	40.1733701	-104.5008455	0.00	
17330.00†	90.000	359.094	6787.00	9612.43	9583.24	-748.54	40.1736446	-104.5008471	0.00	
17430.00†	90.000	359.094	6787.00	9712.24	9683.23	-750.12	40.1739191	-104.5008488	0.00	
17499.18	90.000	359.094	6787.00‡	9781.29	9752.40	-751.21	40.1741090	-104.5008499	0.00	BHL

HOLE & CASING SECTIONS - Ref Wellbore: Guttersen Y12-754 PWB Ref Wellpath: Guttersen Y12-754 (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

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
DP 455 Sec.01-T2N-R64W	N/A	-2.00	-0.40	-67.37	3279878.76	1298091.40	40.1473180	-104.4987970	polygon
2D Polygon: dimensions not calculated									
DP 455 Sec.12-T2N-R64W	N/A	-2.00	-0.40	-67.37	3279878.76	1298091.40	40.1473180	-104.4987970	polygon
2D Polygon: dimensions not calculated									
2) Guttersen Y12-754 BHL (200'FNL & 2385'FWL,SEC.01)	17499.18	6787.00	9752.40	-751.21	3279194.95	1307843.78	40.1741090	-104.5008499	point
Guttersen Y12-754 BPZ (200'FNL & 2385'FWL,SEC.01)	N/A	6787.00	9752.40	-751.21	3279194.95	1307843.78	40.1741090	-104.5008499	point
1) Guttersen Y12-754 LP (200'FSL & 2403'FWL,SEC.12)	7329.03	6787.00	-416.47	-590.43	3279355.72	1297675.34	40.1461921	-104.5006847	point
DP 455 West Hardline(200'FNL/FSL&300'FEL/FWL)	N/A	6850.00	0.51	45.01	3279991.13	1298092.31	40.1473170	-104.4983950	polygon
2D Polygon: dimensions not calculated									



Planned Wellpath Report

Guttersen Y12-754 (REV-B.1) PWP

Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

SURVEY PROGRAM - Ref Wellbore: Guttersen Y12-754 PWB Ref Wellpath: Guttersen Y12-754 (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 Y12-754 PWB
1950.00	17499.18	OWSG MWD rev2 (MS+IFR1)		Guttersen Y12-754 PWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL, SEC.12)		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
935.33	0.000	204.605	935.33	Upper Pierre Aquifer Top
1655.82	0.000	204.605	1655.82	Upper Pierre Aquifer Base
3878.36	17.709	204.605	3817.28	Parkman
4218.15	17.709	204.605	4140.97	Sussex
5083.82	17.709	204.605	4965.62	Shannon
6168.14	16.422	206.907	5998.61	Teepee Buttes
6862.81	48.519	352.110	6625.30	Sharon Springs
6922.98	53.850	353.328	6663.00	Top A Chalk, Top A Marl
6990.10	59.810	354.505	6699.71	Top B Chalk
7087.04	68.434	355.978	6741.98	Top B Marl

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	204.605	30.00	Tie On
2000.00	0.000	204.605	2000.00	End of Tangent
2885.43	17.709	204.605	2871.40	Build (XS)
6152.00	17.709	204.605	5983.18	KOP
7329.03	90.000	359.094	6787.00	LP/TPZ
17499.18	90.000	359.094	6787.00	BHL



Closest Approach Clearance Summary Report

Guttersen Y12-754 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
Page 1 of 3



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

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	0.999958	Report Generated	2/12/2024 at 10:40:12 AM
Convergence at slot	0.65° 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	0.40	67.37	3279946.13	1298091.80	40°08'50.3412"N	104°29'54.8016"W
Facility Reference Pt			3279878.76	1298091.40	40°08'50.3448"N	104°29'55.6692"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 (4866'GL+30'KB@4896'RKB) (RKB) to Facility Vertical Datum	4894.00ft
Horizontal Reference Pt	Slot	RIG (4866'GL+30'KB@4896'RKB) (RKB) to Mean Sea Level	4894.00ft
Vertical Reference Pt	RIG (4866'GL+30'KB@4896'RKB) (RKB)	RIG (4866'GL+30'KB@4896'RKB) (RKB) to Ground Level at Slot (SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12))	4894.00ft
MD Reference Pt	RIG (4866'GL+30'KB@4896'RKB) (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	7.63° East of TN	Dip Angle	66.38°	Mag Field Strength	51693 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 Y12-754 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

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 Y12-754 PWB Ref Wellpath: Guttersen Y12-754 (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 Y12-754 PWB Ref Wellpath: Guttersen Y12-754 (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 Y12-754 PWB
1950.00	17499.18	OWSG MWD rev2 (MS+IFR1)		Guttersen Y12-754 PWB



Closest Approach Clearance Summary Report

Guttersen Y12-754 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
Page 3 of 3



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen Y12-754
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T02N-R64W	Wellbore	Guttersen Y12-754 PWB
Slot	SLOT#04 Guttersen Y12-754 (610'FSL & 2271'FEL,SEC.12)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 17499.18ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (17 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.12-T02N-R64W	SLOT#03 Guttersen Y12-763 (610'FSL & 2293'FEL,SEC.12)	Guttersen Y12-763	Guttersen Y12-763 PWB	Guttersen Y12-763 (REV-B.1) PWP	Planned	30.00	22.37	17499.18	2001.90	1.02	17499.18	WARN
SEC.12-T02N-R64W	SLOT#05 Guttersen Y12-744 (610'FSL & 2248'FEL,SEC.12)	Guttersen Y12-744	Guttersen Y12-744 PWB	Guttersen Y12-744 (REV-B.1) PWP	Planned	30.00	22.64	17499.18	2001.30	1.16	17499.18	PASS
SEC.12-T02N-R64W	SLOT#02 Guttersen Y12-773 (610'FSL & 2316'FEL,SEC.12)	Guttersen Y12-773	Guttersen Y12-773 PWB	Guttersen Y12-773 (REV-B.1) PWP	Planned	2002.07	45.01	17499.18	2074.08	2.23	17499.18	PASS
SEC.12-T02N-R64W	SLOT#06 Guttersen Y12-734 (610'FSL & 2226'FEL,SEC.12)	Guttersen Y12-734	Guttersen Y12-734 PWB	Guttersen Y12-734 (REV-B.1) PWP	Planned	30.00	45.01	17499.18	2001.36	2.39	17499.18	PASS
SEC.12-T02N-R64W	SLOT#01 Guttersen Y12-782 (610'FSL & 2338'FEL,SEC.12)	Guttersen Y12-782	Guttersen Y12-782 PWB	Guttersen Y12-782 (REV-B.1) PWP	Planned	2001.94	67.37	17499.18	2005.75	3.50	17499.18	PASS
SEC.12-T02N-R64W	SLOT#07 Guttersen Y12-725 (610'FSL & 2203'FEL,SEC.12)	Guttersen Y12-725	Guttersen Y12-725 PWB	Guttersen Y12-725 (REV-B.1) PWP	Planned	30.00	67.65	17499.18	2001.61	3.64	17499.18	PASS
SEC.25-T03N-R64W	SLOT#29 GUTTERSEN STATE D36-762 (1295'FNL & 2062'FWL,SEC.25)	GUTTERSEN STATE D36-762 (05-123-48632)	GUTTERSEN STATE D36-762 AWB	GUTTERSEN STATE D36-762 AWP	Drilling	17499.18	624.90	17499.18	17499.18	3.76	17499.18	PASS
SEC.24-T02N-R64W	SLOT#04 BOYD 24-4H (1441'FSL&2275'FWL,SEC.24)	BOYD 24-4H (05-123-46596)	BOYD 24-4H AWB	BOYD 24-4H AWP	Drilling	6883.49	1319.31	6883.49	6883.55	4.01	6883.55	PASS
SEC.25-T03N-R64W	SLOT#27 GUTTERSEN STATE D36-743 (1729'FNL & 1206'FEL,SEC.25)	GUTTERSEN STATE D36-743 (05-123-48638)	GUTTERSEN STATE D36-743 AWB	GUTTERSEN STATE D36-743 AWP	Drilling	17499.18	836.98	17499.18	17499.18	4.60	17499.18	PASS
SEC.25-T03N-R64W	SLOT#28 GUTTERSEN STATE D36-752 (1322'FNL & 2088'FWL,SEC.25)	GUTTERSEN STATE D36-752 (05-123-48625)	GUTTERSEN STATE D36-752 AWB	GUTTERSEN STATE D36-752 AWP	Drilling	17499.18	410.52	17499.18	17499.18	4.66	17499.18	PASS
SEC.12-T02N-R64W	SLOT#08 Guttersen Y12-715 (610'FSL & 2181'FEL,SEC.12)	Guttersen Y12-715	Guttersen Y12-715 PWB	Guttersen Y12-715 (REV-B.1) PWP	Planned	30.00	90.02	17499.18	2001.94	4.88	17499.18	PASS
SEC.24-T02N-R64W	SLOT#03 BOYD 24-1H(1441'FSL&2255'FWL,SEC.24)	BOYD 24-1H (05-123-46594)	BOYD 24-1H AWB	BOYD 24-1H AWP	Drilling	6881.80	1930.56	6881.80	6925.62	5.73	6925.62	PASS
SEC.25-T03N-R64W	SLOT#30 GUTTERSEN STATE D36-771 (1268'FNL & 2035'FWL,SEC.25)	GUTTERSEN STATE D36-771 (05-123-48629)	GUTTERSEN STATE D36-771 AWB	GUTTERSEN STATE D36-771 AWP	Drilling	17499.18	1225.04	17499.18	17499.18	6.14	17499.18	PASS
SEC.25-T03N-R64W	SLOT#26 GUTTERSEN STATE D36-733 (1729'FNL & 1169'FEL,SEC.25)	GUTTERSEN STATE D36-733 (05-123-48639)	GUTTERSEN STATE D36-733 AWB	GUTTERSEN STATE D36-733 AWP	Drilling	17499.18	1430.13	17499.18	17499.18	7.22	17499.18	PASS
SEC.25-T03N-R64W	SLOT#31 GUTTERSEN STATE D36-781 (1242'FNL & 2009'FWL,SEC.25)	GUTTERSEN STATE D36-781 (05-123-48626)	GUTTERSEN STATE D36-781 AWB	GUTTERSEN STATE D36-781 AWP	Drilling	17499.18	1809.63	17499.18	17499.18	8.77	17499.18	PASS
SEC.25-T03N-R64W	SLOT#25 GUTTERSEN STATE D36-724 (1730'FNL & 1131'FEL,SEC.25)	GUTTERSEN STATE D36-724 (05-123-48633)	GUTTERSEN STATE D36-724 AWB	GUTTERSEN STATE D36-724 AWP	Drilling	17499.18	2014.00	17499.18	17499.18	9.95	17499.18	PASS
SEC.25-T03N-R64W	SLOT#24 GUTTERSEN STATE D36-714 (1730'FNL & 1094'FEL,SEC.25)	GUTTERSEN STATE D36-714 (05-123-48842)	GUTTERSEN STATE D36-714 AWB	GUTTERSEN STATE D36-714 AWP	Drilling	17499.18	2630.60	17499.18	17499.18	12.90	17499.18	PASS