

NOBLE ENERGY, INC



Location: COLORADO Slot: SLOTH07 Guttersten YY18-726 (1583FNL & 2476FEL, SEC.18)
 Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: Guttersten YY18-726
 Facility: SEC.18-T02N-R63W Wellbore: Guttersten YY18-726 PWB

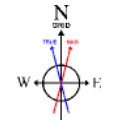
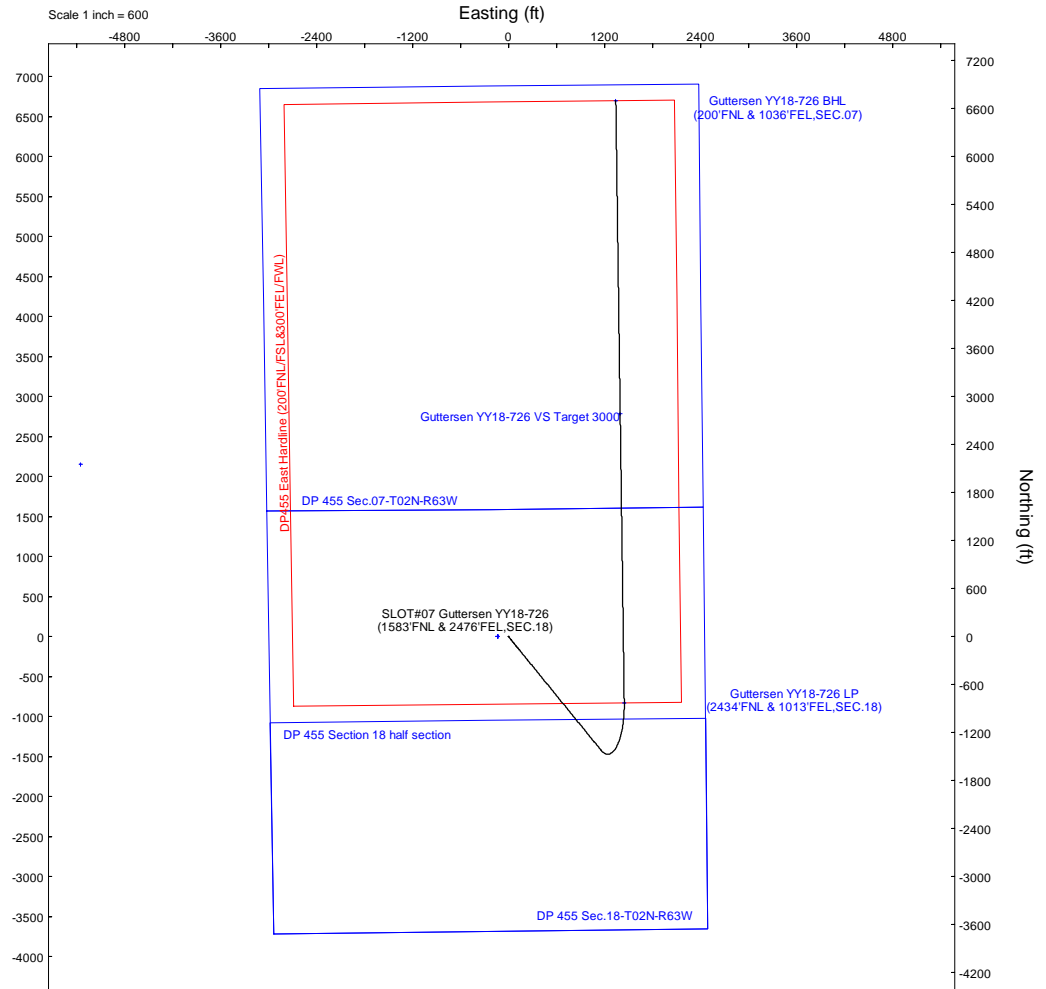
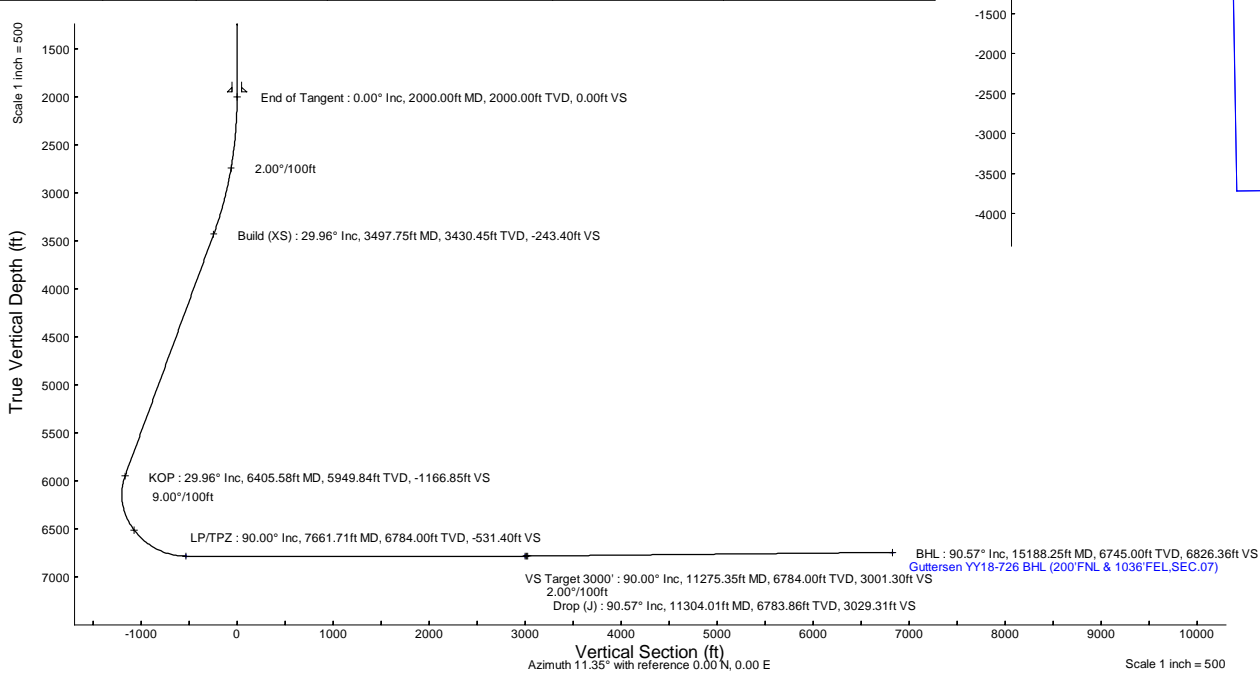
Plot reference wellpath is Guttersten YY18-726 (REV-B.1) PWP
 True vertical depths are referenced to Rig on SLOTH07 Guttersten YY18-02 (1583FNL & 2476FEL, SEC.18) (RKB)
 Reference wellpath measured depths are referenced to Rig on SLOTH07 Guttersten YY18-02 (1583FNL & 2476FEL, SEC.18) (RKB)
 Rig on SLOTH07 Guttersten YY18-02 (1583FNL & 2476FEL, SEC.18) (RKB) to Mean Sea Level: 4926 feet
 Mean Sea Level to Ground level (At Slot: SLOTH07 Guttersten YY18-726 (1583FNL & 2476FEL, SEC.18)): 0 feet
 Offset wellpath MDs are referenced to each path's default MD datum
 Grid System: NAD83 / Lambert Colorado SP, Northern Zone (S01), US feet
 North Reference: Grid north
 Scale: True distance
 Coordinates are in feet referenced to Slot
 Depths are in feet
 Created by: guenaler on 2023-12-04; Database: WA_Denver

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.18-T02N-R63W	328512.361	1295942.638	40°08'28.5216"N	104°28'48.5940"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
SLOTH07 Guttersten YY18-726 (1583FNL & 2476FEL, SEC.18)	-0.27	135.05	328547.407	1295942.371
Latitude	Longitude	40°08'28.5036"N	104°28'48.8552"W	
Rig on SLOTH07 Guttersten YY18-02 (1583FNL & 2476FEL, SEC.18) (RKB) to Ground level (At Slot: SLOTH07 Guttersten YY18-726 (1583FNL & 2476FEL, SEC.18))				
				4926ft
Mean Sea Level to Ground level (At Slot: SLOTH07 Guttersten YY18-726 (1583FNL & 2476FEL, SEC.18))				
				0ft
Rig on SLOTH07 Guttersten YY18-02 (1583FNL & 2476FEL, SEC.18) (RKB) to Mean Sea Level				
				4926ft

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	140.842	30.00	0.00	0.00	0.00	0.00
End of Tangent	2000.00	0.000	140.842	2000.00	0.00	0.00	0.00	0.00
Build (XS)	3497.75	29.955	140.842	3430.45	-296.74	241.65	2.00	-243.40
KOP	6405.58	29.955	140.842	5949.84	-1422.59	1158.48	0.00	-1166.85
LP/TPZ	7661.71	90.000	359.197	6784.00	-832.68	1448.55	9.00	-531.40
VS Target 3000'	11275.35	90.000	359.197	6784.00	2780.61	1397.92	0.00	3001.30
Drop (J)	11304.01	90.573	359.197	6783.86	2809.26	1397.52	2.00	3029.31
BHL	15188.25	90.573	359.197	6745.00	6692.93	1343.09	0.00	6826.36

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.07-T02N-R63W	N/A	0.00	0.27	-135.05	328512.36	1295942.64	40°08'28.5216"N	104°28'48.5940"W
DP 455 Sec.18-T02N-R63W	N/A	0.00	0.27	-135.05	328512.36	1295942.64	40°08'28.5216"N	104°28'48.5940"W
DP 455 Section 18 half section	N/A	0.00	0.27	-135.05	328512.36	1295942.64	40°08'28.5216"N	104°28'48.5940"W
Guttersten YY18-726 BHL (200FNL & 1036FEL, SEC.07)	15188.25	6745.00	6692.93	1343.09	328650.44	1302635.01	40°09'34.4860"N	104°28'28.5659"W
Guttersten YY18-726 LP (2434FNL & 1013FEL, SEC.18)	7661.71	6784.00	-832.68	1448.55	328695.90	1295109.72	40°09'20.1104"N	104°28'28.3298"W
Guttersten YY18-726 VS Target 3000'	11275.35	6784.00	2780.61	1397.92	3286645.27	1298722.86	40°08'55.6208"N	104°28'28.4425"W
DP 455 East Hardline (200FNL/FSL&300FEL/FWL)	N/A	6933.00	2149.38	-5346.52	3279901.12	1298091.66	40°08'50.3448"N	104°29'55.3812"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)		Guttersten YY18-726 PWB
1950.00	15188.25	OWSG MWD rev2	OWSG MWD rev2 (MS+IFR1)		Guttersten YY18-726 PWB



BGGM (1900.0 to 2024.0) Dip: 66.36° Field: 51732.8 nT
 Magnetic North is 7.62 degrees East of True North (at 3/29/2023)
 Grid North is 0.66 degrees East of True North
 To correct azimuth from True to Grid subtract 0.66 degrees
 To correct azimuth from Magnetic to Grid add 6.96 degrees



Planned Wellpath Report

Guttersen YY18-726 (REV-B.1) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'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 1:33:43 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	-0.27	135.05	3285247.41	1295942.37	40.1412510°	-104.4796820°
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#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Facility Vertical Datum	4926.00ft
Horizontal Reference Pt	Slot	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Mean Sea Level	4926.00ft
Vertical Reference Pt	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB)	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Ground Level at Slot (SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18))	4926.00ft
MD Reference Pt	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	11.35°



Planned Wellpath Report

Guttersen YY18-726 (REV-B.1) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL, SEC.18)		

WELLPATH DATA (172 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	140.842	0.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
30.00	0.000	140.842	30.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	Tie On
130.00†	0.000	140.842	130.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
230.00†	0.000	140.842	230.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
330.00†	0.000	140.842	330.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
430.00†	0.000	140.842	430.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
530.00†	0.000	140.842	530.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
630.00†	0.000	140.842	630.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
730.00†	0.000	140.842	730.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
830.00†	0.000	140.842	830.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
930.00†	0.000	140.842	930.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
948.22†	0.000	140.842	948.22	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	Upper Pierre Aquifer Top
1030.00†	0.000	140.842	1030.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1130.00†	0.000	140.842	1130.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1230.00†	0.000	140.842	1230.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1330.00†	0.000	140.842	1330.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1430.00†	0.000	140.842	1430.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1530.00†	0.000	140.842	1530.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1620.22†	0.000	140.842	1620.22	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	Upper Pierre Aquifer Base
1630.00†	0.000	140.842	1630.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1730.00†	0.000	140.842	1730.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1830.00†	0.000	140.842	1830.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
1930.00†	0.000	140.842	1930.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	
2000.00	0.000	140.842	2000.00	0.00	0.00	0.00	40.1412510	-104.4796820	0.00	End of Tangent
2030.00†	0.600	140.842	2030.00	-0.10	-0.12	0.10	40.1412507	-104.4796817	2.00	
2130.00†	2.600	140.842	2129.96	-1.88	-2.29	1.86	40.1412447	-104.4796754	2.00	
2230.00†	4.600	140.842	2229.75	-5.87	-7.16	5.83	40.1412312	-104.4796615	2.00	
2330.00†	6.600	140.842	2329.27	-12.08	-14.72	11.99	40.1412102	-104.4796397	2.00	
2430.00†	8.600	140.842	2428.39	-20.49	-24.98	20.34	40.1411818	-104.4796103	2.00	
2530.00†	10.600	140.842	2526.98	-31.09	-37.91	30.87	40.1411460	-104.4795732	2.00	
2630.00†	12.600	140.842	2624.93	-43.88	-53.50	43.57	40.1411028	-104.4795284	2.00	
2730.00†	14.600	140.842	2722.13	-58.84	-71.73	58.41	40.1410523	-104.4794760	2.00	
2830.00†	16.600	140.842	2818.44	-75.94	-92.58	75.39	40.1409945	-104.4794162	2.00	
2930.00†	18.600	140.842	2913.75	-95.17	-116.03	94.49	40.1409295	-104.4793488	2.00	
3030.00†	20.600	140.842	3007.95	-116.50	-142.04	115.67	40.1408575	-104.4792742	2.00	
3130.00†	22.600	140.842	3100.93	-139.92	-170.58	138.91	40.1407784	-104.4791922	2.00	
3230.00†	24.600	140.842	3192.56	-165.38	-201.62	164.19	40.1406924	-104.4791031	2.00	
3330.00†	26.600	140.842	3282.74	-192.86	-235.13	191.47	40.1405996	-104.4790069	2.00	
3430.00†	28.600	140.842	3371.35	-222.32	-271.05	220.73	40.1405000	-104.4789037	2.00	
3497.75	29.955	140.842	3430.45	-243.40	-296.74	241.65	40.1404289	-104.4788300	2.00	Build (XS)
3530.00†	29.955	140.842	3458.39	-253.64	-309.23	251.82	40.1403943	-104.4787941	0.00	
3630.00†	29.955	140.842	3545.03	-285.39	-347.94	283.35	40.1402870	-104.4786829	0.00	
3730.00†	29.955	140.842	3631.67	-317.15	-386.66	314.88	40.1401797	-104.4785718	0.00	
3830.00†	29.955	140.842	3718.31	-348.91	-425.38	346.41	40.1400725	-104.4784606	0.00	
3930.00†	29.955	140.842	3804.95	-380.67	-464.10	377.94	40.1399652	-104.4783494	0.00	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)		

WELLPATH DATA (172 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3935.66†	29.955	140.842	3809.86	-382.46	-466.29	379.72	40.1399591	-104.4783431	0.00	Parkman
4030.00†	29.955	140.842	3891.60	-412.42	-502.82	409.47	40.1398579	-104.4782383	0.00	
4130.00†	29.955	140.842	3978.24	-444.18	-541.53	441.00	40.1397506	-104.4781271	0.00	
4230.00†	29.955	140.842	4064.88	-475.94	-580.25	472.53	40.1396434	-104.4780159	0.00	
4320.00†	29.955	140.842	4142.86	-504.52	-615.10	500.90	40.1395468	-104.4779159	0.00	Sussex
4330.00†	29.955	140.842	4151.52	-507.70	-618.97	504.06	40.1395361	-104.4779048	0.00	
4430.00†	29.955	140.842	4238.16	-539.45	-657.69	535.59	40.1394288	-104.4777936	0.00	
4530.00†	29.955	140.842	4324.80	-571.21	-696.40	567.12	40.1393215	-104.4776824	0.00	
4630.00†	29.955	140.842	4411.45	-602.97	-735.12	598.64	40.1392143	-104.4775713	0.00	
4730.00†	29.955	140.842	4498.09	-634.73	-773.84	630.17	40.1391070	-104.4774601	0.00	
4830.00†	29.955	140.842	4584.73	-666.49	-812.56	661.70	40.1389997	-104.4773489	0.00	
4930.00†	29.955	140.842	4671.37	-698.24	-851.28	693.23	40.1388925	-104.4772378	0.00	
5030.00†	29.955	140.842	4758.01	-730.00	-889.99	724.76	40.1387852	-104.4771266	0.00	
5130.00†	29.955	140.842	4844.65	-761.76	-928.71	756.29	40.1386779	-104.4770154	0.00	
5230.00†	29.955	140.842	4931.30	-793.52	-967.43	787.82	40.1385706	-104.4769043	0.00	
5256.77†	29.955	140.842	4954.49	-802.02	-977.80	796.26	40.1385419	-104.4768745	0.00	Shannon
5330.00†	29.955	140.842	5017.94	-825.27	-1006.15	819.35	40.1384634	-104.4767931	0.00	
5430.00†	29.955	140.842	5104.58	-857.03	-1044.87	850.88	40.1383561	-104.4766820	0.00	
5530.00†	29.955	140.842	5191.22	-888.79	-1083.58	882.41	40.1382488	-104.4765708	0.00	
5630.00†	29.955	140.842	5277.86	-920.55	-1122.30	913.94	40.1381415	-104.4764596	0.00	
5730.00†	29.955	140.842	5364.51	-952.30	-1161.02	945.47	40.1380343	-104.4763485	0.00	
5830.00†	29.955	140.842	5451.15	-984.06	-1199.74	977.00	40.1379270	-104.4762373	0.00	
5930.00†	29.955	140.842	5537.79	-1015.82	-1238.46	1008.53	40.1378197	-104.4761261	0.00	
6030.00†	29.955	140.842	5624.43	-1047.58	-1277.17	1040.06	40.1377125	-104.4760150	0.00	
6130.00†	29.955	140.842	5711.07	-1079.33	-1315.89	1071.59	40.1376052	-104.4759038	0.00	
6230.00†	29.955	140.842	5797.71	-1111.09	-1354.61	1103.12	40.1374979	-104.4757927	0.00	
6330.00†	29.955	140.842	5884.36	-1142.85	-1393.33	1134.65	40.1373906	-104.4756815	0.00	
6398.93†	29.955	140.842	5944.08	-1164.74	-1420.02	1156.39	40.1373167	-104.4756049	0.00	Teepee Buttes
6405.58	29.955	140.842	5949.84	-1166.85	-1422.59	1158.48	40.1373095	-104.4755975	0.00	KOP
6430.00†	28.368	137.722	5971.16	-1174.17	-1431.61	1166.24	40.1372845	-104.4755701	9.00	
6530.00†	22.850	121.134	6061.42	-1194.88	-1459.29	1198.90	40.1372075	-104.4754544	9.00	
6630.00†	19.875	97.618	6154.71	-1200.35	-1471.60	1232.44	40.1371727	-104.4753350	9.00	
6730.00†	20.579	71.463	6248.74	-1190.47	-1468.26	1266.02	40.1371808	-104.4752148	9.00	
6830.00†	24.647	50.403	6341.18	-1165.47	-1449.35	1298.82	40.1372317	-104.4750967	9.00	
6930.00†	30.771	36.109	6429.77	-1125.97	-1415.32	1330.03	40.1373241	-104.4749837	9.00	
7030.00†	37.965	26.474	6512.32	-1072.94	-1367.02	1358.87	40.1374557	-104.4748785	9.00	
7117.27†	44.714	20.371	6577.83	-1016.62	-1314.13	1381.56	40.1376002	-104.4747952	9.00	Sharon Springs
7130.00†	45.722	19.606	6586.80	-1007.69	-1305.64	1384.65	40.1376234	-104.4747838	9.00	
7168.62†	48.810	17.434	6613.00	-979.55	-1278.74	1393.65	40.1376969	-104.4747505	9.00	Top A Chalk, Top A Marl
7230.00†	53.793	14.374	6651.37	-931.81	-1232.68	1406.72	40.1378229	-104.4747019	9.00	
7246.34†	55.132	13.626	6660.87	-918.53	-1219.78	1409.94	40.1378583	-104.4746898	9.00	Top B Chalk
7313.18†	60.651	10.798	6696.39	-861.95	-1164.46	1421.87	40.1380097	-104.4746449	9.00	Top B Marl
7330.00†	62.049	10.136	6704.45	-847.19	-1149.95	1424.55	40.1380495	-104.4746347	9.00	
7430.00†	70.415	6.507	6744.73	-755.91	-1059.49	1437.69	40.1382974	-104.4745840	9.00	
7498.13†	76.155	4.253	6764.32	-691.05	-994.55	1443.78	40.1384754	-104.4745595	9.00	Top C Chalk



Planned Wellpath Report

Guttersen YY18-726 (REV-B.1) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL, SEC.18)		

WELLPATH DATA (172 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7530.00†	78.847	3.240	6771.22	-660.21	-963.51	1445.81	40.1385605	-104.4745509	9.00	
7630.00†	87.313	0.159	6783.26	-562.45	-864.38	1448.73	40.1388325	-104.4745364	9.00	
7661.71	90.000	359.197	6784.00 ¹	-531.40	-832.68	1448.55	40.1389196	-104.4745357	9.00	LP/TPZ
7730.00†	90.000	359.197	6784.00	-464.64	-764.40	1447.60	40.1391070	-104.4745363	0.00	
7830.00†	90.000	359.197	6784.00	-366.88	-664.41	1446.19	40.1393815	-104.4745372	0.00	
7930.00†	90.000	359.197	6784.00	-269.12	-564.42	1444.79	40.1396560	-104.4745381	0.00	
8030.00†	90.000	359.197	6784.00	-171.36	-464.43	1443.39	40.1399305	-104.4745389	0.00	
8130.00†	90.000	359.197	6784.00	-73.60	-364.44	1441.99	40.1402050	-104.4745398	0.00	
8230.00†	90.000	359.197	6784.00	24.16	-264.45	1440.59	40.1404795	-104.4745407	0.00	
8330.00†	90.000	359.197	6784.00	121.92	-164.46	1439.19	40.1407540	-104.4745416	0.00	
8430.00†	90.000	359.197	6784.00	219.68	-64.47	1437.79	40.1410285	-104.4745424	0.00	
8530.00†	90.000	359.197	6784.00	317.44	35.52	1436.39	40.1413030	-104.4745433	0.00	
8630.00†	90.000	359.197	6784.00	415.20	135.51	1434.98	40.1415775	-104.4745442	0.00	
8730.00†	90.000	359.197	6784.00	512.96	235.50	1433.58	40.1418520	-104.4745451	0.00	
8830.00†	90.000	359.197	6784.00	610.72	335.49	1432.18	40.1421265	-104.4745459	0.00	
8930.00†	90.000	359.197	6784.00	708.48	435.48	1430.78	40.1424010	-104.4745468	0.00	
9030.00†	90.000	359.197	6784.00	806.24	535.47	1429.38	40.1426755	-104.4745477	0.00	
9130.00†	90.000	359.197	6784.00	904.00	635.46	1427.98	40.1429500	-104.4745486	0.00	
9230.00†	90.000	359.197	6784.00	1001.76	735.45	1426.58	40.1432245	-104.4745494	0.00	
9330.00†	90.000	359.197	6784.00	1099.52	835.44	1425.18	40.1434990	-104.4745503	0.00	
9430.00†	90.000	359.197	6784.00	1197.28	935.43	1423.78	40.1437735	-104.4745512	0.00	
9530.00†	90.000	359.197	6784.00	1295.04	1035.42	1422.37	40.1440480	-104.4745521	0.00	
9630.00†	90.000	359.197	6784.00	1392.80	1135.41	1420.97	40.1443225	-104.4745529	0.00	
9730.00†	90.000	359.197	6784.00	1490.56	1235.40	1419.57	40.1445970	-104.4745538	0.00	
9830.00†	90.000	359.197	6784.00	1588.32	1335.39	1418.17	40.1448715	-104.4745547	0.00	
9930.00†	90.000	359.197	6784.00	1686.08	1435.38	1416.77	40.1451460	-104.4745556	0.00	
10030.00†	90.000	359.197	6784.00	1783.84	1535.37	1415.37	40.1454205	-104.4745565	0.00	
10130.00†	90.000	359.197	6784.00	1881.60	1635.36	1413.97	40.1456950	-104.4745573	0.00	
10230.00†	90.000	359.197	6784.00	1979.36	1735.35	1412.57	40.1459695	-104.4745582	0.00	
10330.00†	90.000	359.197	6784.00	2077.12	1835.35	1411.16	40.1462440	-104.4745591	0.00	
10430.00†	90.000	359.197	6784.00	2174.88	1935.34	1409.76	40.1465185	-104.4745600	0.00	
10530.00†	90.000	359.197	6784.00	2272.64	2035.33	1408.36	40.1467930	-104.4745608	0.00	
10630.00†	90.000	359.197	6784.00	2370.40	2135.32	1406.96	40.1470675	-104.4745617	0.00	
10730.00†	90.000	359.197	6784.00	2468.16	2235.31	1405.56	40.1473420	-104.4745626	0.00	
10830.00†	90.000	359.197	6784.00	2565.92	2335.30	1404.16	40.1476165	-104.4745635	0.00	
10930.00†	90.000	359.197	6784.00	2663.68	2435.29	1402.76	40.1478911	-104.4745643	0.00	
11030.00†	90.000	359.197	6784.00	2761.44	2535.28	1401.36	40.1481656	-104.4745652	0.00	
11130.00†	90.000	359.197	6784.00	2859.20	2635.27	1399.96	40.1484401	-104.4745661	0.00	
11230.00†	90.000	359.197	6784.00	2956.96	2735.26	1398.55	40.1487146	-104.4745670	0.00	
11275.35	90.000	359.197	6784.00 ²	3001.30	2780.61	1397.92	40.1488391	-104.4745674	0.00	VS Target 3000'
11304.01	90.573	359.197	6783.86	3029.31	2809.26	1397.52	40.1489177	-104.4745676	2.00	Drop (J)
11330.00†	90.573	359.197	6783.60	3054.72	2835.25	1397.15	40.1489891	-104.4745678	0.00	
11430.00†	90.573	359.197	6782.60	3152.47	2935.23	1395.75	40.1492635	-104.4745687	0.00	
11530.00†	90.573	359.197	6781.60	3250.23	3035.22	1394.35	40.1495380	-104.4745696	0.00	
11630.00†	90.573	359.197	6780.60	3347.98	3135.20	1392.95	40.1498125	-104.4745705	0.00	



Planned Wellpath Report

Guttersen YY18-726 (REV-B.1) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)		

WELLPATH DATA (172 stations) † = interpolated, ‡ = extrapolated station											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments	
11730.00†	90.573	359.197	6779.60	3445.74	3235.19	1391.55	40.1500870	-104.4745713	0.00		
11830.00†	90.573	359.197	6778.59	3543.49	3335.17	1390.15	40.1503615	-104.4745722	0.00		
11930.00†	90.573	359.197	6777.59	3641.25	3435.16	1388.75	40.1506360	-104.4745731	0.00		
12030.00†	90.573	359.197	6776.59	3739.00	3535.14	1387.34	40.1509105	-104.4745740	0.00		
12130.00†	90.573	359.197	6775.59	3836.76	3635.13	1385.94	40.1511849	-104.4745748	0.00		
12230.00†	90.573	359.197	6774.59	3934.51	3735.11	1384.54	40.1514594	-104.4745757	0.00		
12330.00†	90.573	359.197	6773.59	4032.27	3835.10	1383.14	40.1517339	-104.4745766	0.00		
12430.00†	90.573	359.197	6772.59	4130.02	3935.08	1381.74	40.1520084	-104.4745775	0.00		
12530.00†	90.573	359.197	6771.59	4227.78	4035.07	1380.34	40.1522829	-104.4745783	0.00		
12630.00†	90.573	359.197	6770.59	4325.53	4135.05	1378.94	40.1525574	-104.4745792	0.00		
12730.00†	90.573	359.197	6769.59	4423.29	4235.04	1377.54	40.1528319	-104.4745801	0.00		
12830.00†	90.573	359.197	6768.59	4521.04	4335.02	1376.14	40.1531064	-104.4745810	0.00		
12930.00†	90.573	359.197	6767.59	4618.80	4435.01	1374.73	40.1533808	-104.4745819	0.00		
13030.00†	90.573	359.197	6766.59	4716.55	4534.99	1373.33	40.1536553	-104.4745827	0.00		
13130.00†	90.573	359.197	6765.59	4814.31	4634.98	1371.93	40.1539298	-104.4745836	0.00		
13230.00†	90.573	359.197	6764.59	4912.07	4734.96	1370.53	40.1542043	-104.4745845	0.00		
13256.96†	90.573	359.197	6764.32	4938.42	4761.92	1370.15	40.1542783	-104.4745847	0.00	Top C Chalk	
13330.00†	90.573	359.197	6763.59	5009.82	4834.95	1369.13	40.1544788	-104.4745854	0.00		
13430.00†	90.573	359.197	6762.59	5107.58	4934.93	1367.73	40.1547533	-104.4745862	0.00		
13530.00†	90.573	359.197	6761.59	5205.33	5034.92	1366.33	40.1550278	-104.4745871	0.00		
13630.00†	90.573	359.197	6760.59	5303.09	5134.90	1364.93	40.1553023	-104.4745880	0.00		
13730.00†	90.573	359.197	6759.59	5400.84	5234.89	1363.53	40.1555767	-104.4745889	0.00		
13830.00†	90.573	359.197	6758.59	5498.60	5334.87	1362.12	40.1558512	-104.4745897	0.00		
13930.00†	90.573	359.197	6757.59	5596.35	5434.86	1360.72	40.1561257	-104.4745906	0.00		
14030.00†	90.573	359.197	6756.59	5694.11	5534.85	1359.32	40.1564002	-104.4745915	0.00		
14130.00†	90.573	359.197	6755.59	5791.86	5634.83	1357.92	40.1566747	-104.4745924	0.00		
14230.00†	90.573	359.197	6754.59	5889.62	5734.82	1356.52	40.1569492	-104.4745932	0.00		
14330.00†	90.573	359.197	6753.59	5987.37	5834.80	1355.12	40.1572237	-104.4745941	0.00		
14430.00†	90.573	359.197	6752.59	6085.13	5934.79	1353.72	40.1574982	-104.4745950	0.00		
14530.00†	90.573	359.197	6751.58	6182.88	6034.77	1352.32	40.1577726	-104.4745959	0.00		
14630.00†	90.573	359.197	6750.58	6280.64	6134.76	1350.92	40.1580471	-104.4745967	0.00		
14730.00†	90.573	359.197	6749.58	6378.39	6234.74	1349.51	40.1583216	-104.4745976	0.00		
14830.00†	90.573	359.197	6748.58	6476.15	6334.73	1348.11	40.1585961	-104.4745985	0.00		
14930.00†	90.573	359.197	6747.58	6573.90	6434.71	1346.71	40.1588706	-104.4745994	0.00		
15030.00†	90.573	359.197	6746.58	6671.66	6534.70	1345.31	40.1591451	-104.4746002	0.00		
15130.00†	90.573	359.197	6745.58	6769.41	6634.68	1343.91	40.1594196	-104.4746011	0.00		
15188.25	90.573	359.197	6745.00‡	6826.36	6692.93	1343.09	40.1595795	-104.4746016	0.00	BHL	

HOLE & CASING SECTIONS - Ref Wellbore: Guttersen YY18-726 PWB Ref Wellpath: Guttersen YY18-726 (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 YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'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	0.27	-135.05	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
DP 455 Sec.18-T02N-R63W	N/A	0.00	0.27	-135.05	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
DP 455 Section 18 half section	N/A	0.00	0.27	-135.05	3285112.36	1295942.64	40.1412560	-104.4801650	polygon
2D Polygon: dimensions not calculated									
3) Guttersen YY18-726 BHL (200'FNL & 1036'FEL,SEC.07)	15188.25	6745.00	6692.93	1343.09	3286590.44	1302635.01	40.1595795	-104.4746016	point
Guttersen YY18-726 BPZ (200'FNL & 1036'FEL,SEC.07)	N/A	6745.00	6692.93	1343.09	3286590.44	1302635.01	40.1595795	-104.4746016	point
1) Guttersen YY18-726 LP (2434'FNL & 1013'FEL,SEC.18)	7661.71	6784.00	-832.68	1448.55	3286695.90	1295109.72	40.1389196	-104.4745357	point
2) Guttersen YY18-726 VS Target 3000'	11275.35	6784.00	2780.61	1397.92	3286645.27	1298722.86	40.1488391	-104.4745674	point
DP455 East Hardline (200'FNL/FSL&300'FEL/FWL)	N/A	6933.00	2149.38	-5346.52	3279901.12	1298091.66	40.1473180	-104.4987170	polygon
2D Polygon: dimensions not calculated									

SURVEY PROGRAM - Ref Wellbore: Guttersen YY18-726 PWB Ref Wellpath: Guttersen YY18-726 (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 YY18-726 PWB
1950.00	15188.25	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-726 PWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
948.22	0.000	140.842	948.22	Upper Pierre Aquifer Top
1620.22	0.000	140.842	1620.22	Upper Pierre Aquifer Base
3935.66	29.955	140.842	3809.86	Parkman
4320.00	29.955	140.842	4142.86	Sussex
5256.77	29.955	140.842	4954.49	Shannon
6398.93	29.955	140.842	5944.08	Teepee Buttes
7117.27	44.714	20.371	6577.83	Sharon Springs
7168.62	48.810	17.434	6613.00	Top A Chalk, Top A Marl
7246.34	55.132	13.626	6660.87	Top B Chalk
7313.18	60.651	10.798	6696.39	Top B Marl
7498.13	76.155	4.253	6764.32	Top C Chalk
13256.96	90.573	359.197	6764.32	Top C Chalk

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	140.842	30.00	Tie On
2000.00	0.000	140.842	2000.00	End of Tangent
3497.75	29.955	140.842	3430.45	Build (XS)
6405.58	29.955	140.842	5949.84	KOP
7661.71	90.000	359.197	6784.00	LP/TPZ
11275.35	90.000	359.197	6784.00	VS Target 3000'
11304.01	90.573	359.197	6783.86	Drop (J)
15188.25	90.573	359.197	6745.00	BHL



Closest Approach Clearance Summary Report

Guttersen YY18-726 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'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 2:39:57 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	-0.27	135.05	3285247.41	1295942.37	40°08'28.5036"N	104°28'46.8552"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#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Facility Vertical Datum	4926.00ft
Horizontal Reference Pt	Slot	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Mean Sea Level	4926.00ft
Vertical Reference Pt	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB)	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'FEL,SEC.18) (RKB) to Ground Level at Slot (SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18))	4926.00ft
MD Reference Pt	Rig on SLOT#07 Guttersen YY18-02 (1583'FNL & 2476'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 YY18-726 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'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 YY18-726 PWB Ref Wellpath: Guttersen YY18-726 (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 YY18-726 PWB Ref Wellpath: Guttersen YY18-726 (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 YY18-726 PWB
1950.00	15188.25	OWSG MWD rev2 (MS+IFR1)		Guttersen YY18-726 PWB



Closest Approach Clearance Summary Report

Guttersen YY18-726 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 15188.25ft 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	8166.93	388.67	8166.93	8166.92	0.05	8166.92	FAIL
YY Section 18	ELMER KAUFMAN #1	ELMER KAUFMAN #1 (05-123-40000)	ELMER KAUFMAN #1	ELMER KAUFMAN #1\No Surveys	Drilling	5982.43	658.11	5982.43	6251.20	0.09	6251.20	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	12086.39	924.05	12086.39	12085.13	0.11	12085.13	FAIL
YY Section 18	CUYKENDALL-LAUCK #1	CUYKENDALL-LAUCK #1 (05-123-07705)	CUYKENDALL-LAUCK #1	CUYKENDALL-LAUCK #1\No Surveys	Drilling	9445.21	930.62	9445.21	9445.21	0.11	9445.21	FAIL
YY Section 18	KAUFMAN #4	KAUFMAN #4 (05-123-07952)	KAUFMAN #4	KAUFMAN #4\No Surveys	Drilling	6730.00	1654.34	6730.00	6884.17	0.21	6884.17	FAIL
YY Section 18	ELMER KAUFMAN #2	ELMER KAUFMAN #2 (05-123-07611)	ELMER KAUFMAN #2	ELMER KAUFMAN #2\No Surveys	Drilling	6563.35	1704.37	6563.35	6739.10	0.23	6739.10	FAIL
YY Section 18	CUYKENDALL-LAUCK #2	CUYKENDALL-LAUCK #2 (05-123-07973)	CUYKENDALL-LAUCK #2	CUYKENDALL-LAUCK #2\No Surveys	Drilling	30.00	962.14	8130.00	3562.36	0.27	8130.00	FAIL
YY Section 18	CUYKENDALL-LAUCK #3	CUYKENDALL-LAUCK #3 (05-123-08387)	CUYKENDALL-LAUCK #3	CUYKENDALL-LAUCK #3\No Surveys	Drilling	30.00	1081.64	7930.00	4122.53	0.27	7930.00	FAIL
YY Section 07	CUYKENDALL #24-7	CUYKENDALL #24-7 (05-123-10357)	CUYKENDALL #24-7	CUYKENDALL #24-7\No Surveys	Drilling	10756.80	2428.60	10756.80	10756.85	0.29	10756.85	FAIL
SEC.18-T02N-R63W	SLOT#08 Guttersen YY18-715 (1583'FNL & 2453'FEL,SEC.18)	Guttersen YY18-715	Guttersen YY18-715 PWB	Guttersen YY18-715 (REV-B.1) PWP	Planned	30.00	22.37	2000.00	2003.49	1.02	15188.25	WARN
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	22.65	2000.00	2002.30	1.03	15188.25	WARN
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	45.02	2000.00	2002.05	2.27	15188.25	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	67.66	2000.00	2049.51	3.47	15188.25	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	90.03	2000.00	2002.02	4.75	15188.25	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	112.68	2000.00	2056.13	5.92	15188.25	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	15188.25	883.21	15188.25	15188.25	6.77	15188.25	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	15188.25	1074.69	15188.25	15188.25	7.04	15188.25	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	15188.25	1080.10	15188.25	15188.25	7.05	15188.25	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	15188.25	879.98	15188.25	15188.25	7.18	15188.25	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	135.05	2000.00	2002.50	7.24	15188.25	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	15188.25	1337.93	15188.25	15188.25	7.65	15188.25	PASS
YY Section 18	EWS #4	EWS #4 (05-123-44167)	EWS #4	EWS #4\MWD	Drilling	7116.62	562.09	7116.62	7112.53	8.47	7112.53	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	15188.25	1642.04	15188.25	15188.25	8.89	15188.25	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	15188.25	735.90	15188.25	15188.25	9.30	15188.25	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	15188.25	2253.98	15188.25	15188.25	11.19	15188.25	PASS



Closest Approach Clearance Summary Report

Guttersen YY18-726 (REV-B.1) PWP - SPE WPTS Stop Drilling HSE Risk (2017)



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Guttersen YY18-726
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T02N-R63W	Wellbore	Guttersen YY18-726 PWB
Slot	SLOT#07 Guttersen YY18-726 (1583'FNL & 2476'FEL,SEC.18)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 15188.25ft 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	15188.25	2886.49	15188.25	15188.25	14.22	15188.25	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	15188.25	3502.38	15188.25	15188.25	17.18	15188.25	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	15188.25	4144.91	15188.25	15188.25	20.56	15188.25	PASS
YY Section 18	EWS #4B	EWS #4B ((05-123-48766)	Wellbore #1	Wellbore #1\As-Drilled	Drilling	206.52	2482.36	6530.00	6649.08	42.76	7330.00	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	308.90	2524.64	9430.00	10395.12	51.02	10395.12	PASS