

NOBLE ENERGY, INC



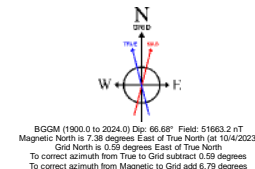
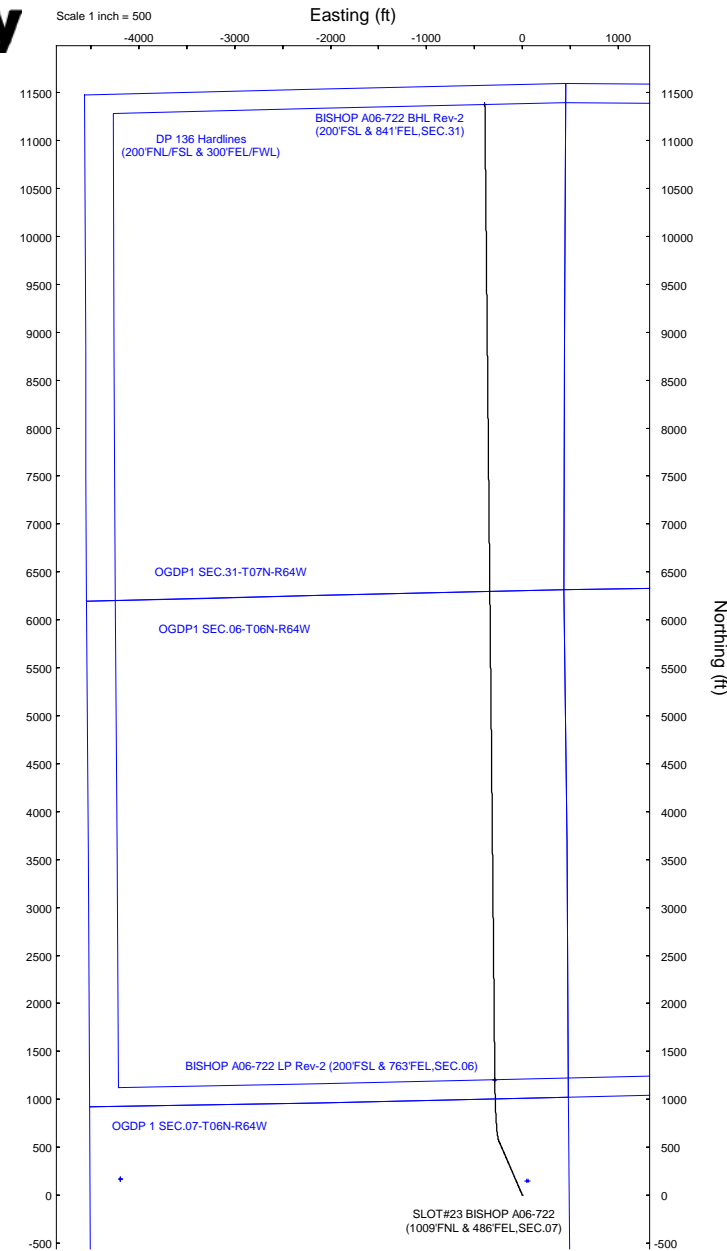
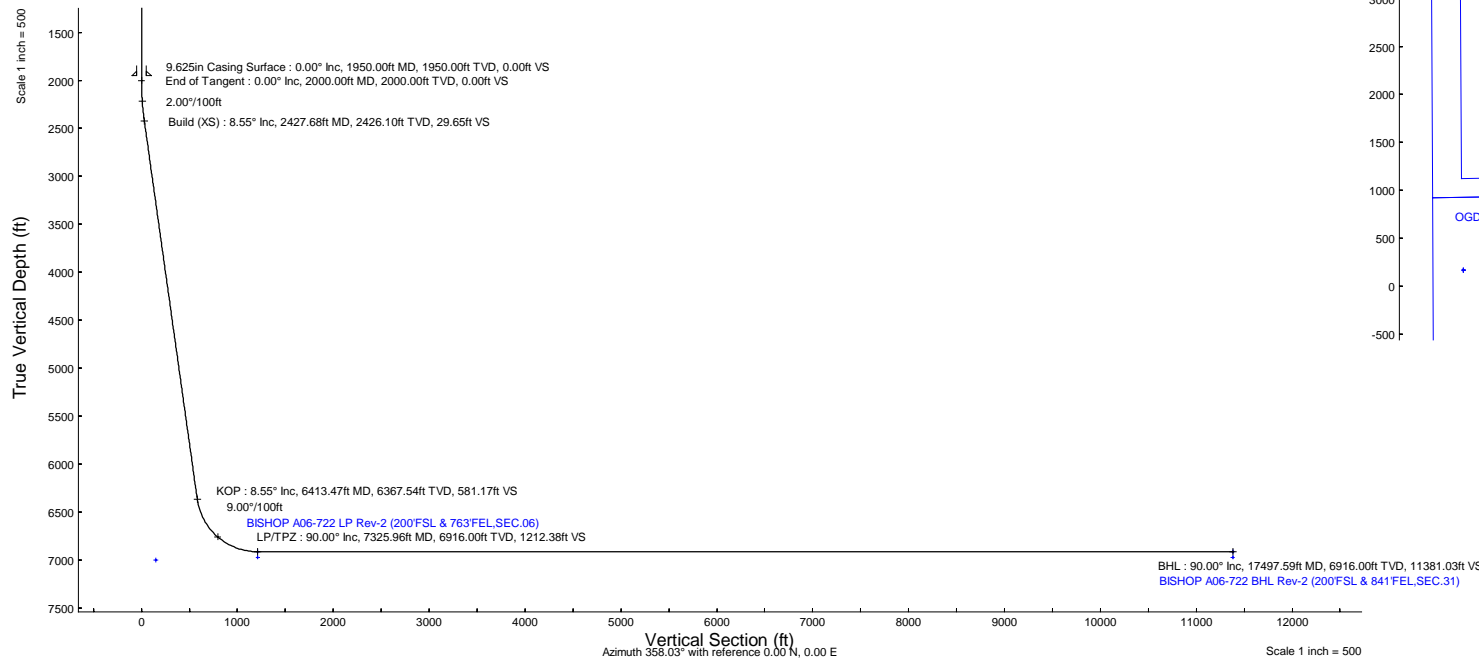
Location:	COLORADO	Slot:	SLOT#23 BISHOP A06-722 (1009FNL & 486FEL, SEC.07)
Field:	WELD COUNTY (NOBLE NAD 83 GRID)	Well:	BISHOP A06-722
Facility:	SEC.07-T06N-R64W	Wellbore:	BISHOP A06-722 PWB
Plot reference wellpath is BISHOP A06-722 (REV-C.0) PWP			
True vertical depths are referenced to RIG (4744GL+30KB@4774RKB) (RKB)		Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	
Reference wellpath measured depths are referenced to RIG (4744GL+30KB@4774RKB) (RKB)		North Reference: Grid north	
RIG (4744GL+30KB@4774RKB) (RKB) to Mean Sea Level: 4774 feet		Scale: True distance	
Mean Sea Level to Ground level (At Slot: SLOT#23 BISHOP A06-722 (1009FNL & 486FEL, SEC.07): 0 feet		Coordinates are in feet referenced to Slot	
Offset wellpath MDs are referenced to each path's default MD datum		Depths are in feet	
		Created by: martsam01 on 2023-10-06; Database: WA_Denver	

Location Information							
Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.07-T06N-R64W				3254380.716	1428262.811	40°30'19.3680"N	104°35'6.7200"W
Slot				Local N (ft)	Local E (ft)	Latitude	Longitude
SLOT#23 BISHOP A06-722 (1009FNL & 486FEL, SEC.07)				-149.84	-61.03	40°30'17.8956"N	104°35'7.5300"W
RIG (4744GL+30KB@4774RKB) (RKB) to Ground level (At Slot: SLOT#23 BISHOP A06-722 (1009FNL & 486FEL, SEC.07))				4774ft			
Mean Sea Level to Ground level (At Slot: SLOT#23 BISHOP A06-722 (1009FNL & 486FEL, SEC.07))				0ft			
RIG (4744GL+30KB@4774RKB) (RKB) to Mean Sea Level				4774ft			

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
SHL	30.00	0.000	336.512	30.00	0.00	0.00	0.00
End of Tangent	2000.00	0.000	336.512	2000.00	0.00	0.00	0.00
Build (XS)	2427.68	8.554	336.512	2426.10	29.23	-12.70	29.65
KOP	6413.47	8.554	336.512	6367.54	572.94	-248.97	581.17
LP/TPZ	7325.96	90.000	359.412	6916.00	1203.19	-287.54	1212.38
BHL	17497.59	90.000	359.412	6916.00	11374.28	-391.91	11381.03

Targets							
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
OGDP 1 SEC.07-T06N-R64W	N/A	2.00	149.84	61.03	3254380.72	1428262.81	40°30'19.3680"N
OGDP1 SEC.05-T06N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40°30'19.9800"N
OGDP1 SEC.06-T06N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40°30'19.9800"N
OGDP1 SEC.31-T07N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40°30'19.9800"N
OGDP1 SEC.32-T07N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40°30'19.9800"N
BISHOP A06-722 BHL Rev2 (200FSL & 841FEL, SEC.31)	17497.59	6916.00	11374.28	-391.91	3253927.79	1439486.85	40°32'10.3236"N
BISHOP A06-722 LP Rev2 (200FSL & 763FEL, SEC.06)	7325.96	6916.00	1203.19	-287.54	3254032.16	1429316.12	40°30'28.8135"N
BISHOP A06-722 BHL Rev1 (200FSL & 841FEL, SEC.31)	N/A	6974.00	11374.28	-391.91	3253927.79	1439486.85	40°32'10.3236"N
BISHOP A06-722 LP Rev1 (200FSL & 763FEL, SEC.06)	N/A	6974.00	1203.19	-287.54	3254032.16	1429316.12	40°30'28.8135"N
DP 136 Hardlines (200FNL/FSL & 300FEL/FWL)	N/A	7003.00	149.84	44.90	3254364.58	1428262.81	40°30'19.3716"N

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)		BISHOP A06-722 PWB
1950.00	17497.59	OWSG MWD rev2	OWSG MWD rev2 (MS+IFR1)		BISHOP A06-722 PWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Martsam01
Scale	0.999967	Report Generated	10/6/2023 at 11:27:10 AM
Convergence at slot	0.59° 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	-149.64	-61.03	3254319.69	1428112.97	40.5049710°	-104.5854250°
Facility Reference Pt			3254380.72	1428262.61	40.5053800°	-104.5852000°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

WELLPATH DATUM			
Calculation method	Minimum curvature	RIG (4744'GL+30'KB@4774'RKB) (RKB) to Facility Vertical Datum	4774.00ft
Horizontal Reference Pt	Slot	RIG (4744'GL+30'KB@4774'RKB) (RKB) to Mean Sea Level	4774.00ft
Vertical Reference Pt	RIG (4744'GL+30'KB@4774'RKB) (RKB)	RIG (4744'GL+30'KB@4774'RKB) (RKB) to Ground Level at Slot (SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07))	4774.00ft
MD Reference Pt	RIG (4744'GL+30'KB@4774'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.03°



Planned Wellpath Report

BISHOP A06-722 (REV-C.0) PWP



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

WELLPATH DATA (181 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	336.512	0.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
30.00	0.000	336.512	30.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	SHL
130.00†	0.000	336.512	130.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
230.00†	0.000	336.512	230.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
330.00†	0.000	336.512	330.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
430.00†	0.000	336.512	430.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
530.00†	0.000	336.512	530.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
630.00†	0.000	336.512	630.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
730.00†	0.000	336.512	730.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
830.00†	0.000	336.512	830.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
930.00†	0.000	336.512	930.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1030.00†	0.000	336.512	1030.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1130.00†	0.000	336.512	1130.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1230.00†	0.000	336.512	1230.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1330.00†	0.000	336.512	1330.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1430.00†	0.000	336.512	1430.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1530.00†	0.000	336.512	1530.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1630.00†	0.000	336.512	1630.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1730.00†	0.000	336.512	1730.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1830.00†	0.000	336.512	1830.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
1930.00†	0.000	336.512	1930.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	
2000.00	0.000	336.512	2000.00	0.00	0.00	0.00	40.5049710	-104.5854250	0.00	End of Tangent
2030.00†	0.600	336.512	2030.00	0.15	0.14	-0.06	40.5049714	-104.5854252	2.00	
2130.00†	2.600	336.512	2129.96	2.74	2.70	-1.18	40.5049785	-104.5854291	2.00	
2230.00†	4.600	336.512	2229.75	8.58	8.46	-3.68	40.5049943	-104.5854379	2.00	
2330.00†	6.600	336.512	2329.27	17.66	17.41	-7.57	40.5050190	-104.5854516	2.00	
2427.68	8.554	336.512	2426.10	29.65	29.23	-12.70	40.5050516	-104.5854696	2.00	Build (XS)
2430.00†	8.554	336.512	2428.39	29.97	29.54	-12.84	40.5050524	-104.5854701	0.00	
2530.00†	8.554	336.512	2527.28	43.80	43.18	-18.77	40.5050901	-104.5854909	0.00	
2630.00†	8.554	336.512	2626.16	57.64	56.82	-24.69	40.5051277	-104.5855117	0.00	
2730.00†	8.554	336.512	2725.05	71.48	70.46	-30.62	40.5051653	-104.5855325	0.00	
2830.00†	8.554	336.512	2823.94	85.31	84.11	-36.55	40.5052029	-104.5855533	0.00	
2930.00†	8.554	336.512	2922.83	99.15	97.75	-42.48	40.5052405	-104.5855741	0.00	
3030.00†	8.554	336.512	3021.71	112.99	111.39	-48.40	40.5052781	-104.5855949	0.00	
3130.00†	8.554	336.512	3120.60	126.83	125.03	-54.33	40.5053157	-104.5856157	0.00	
3230.00†	8.554	336.512	3219.49	140.66	138.67	-60.26	40.5053533	-104.5856365	0.00	
3330.00†	8.554	336.512	3318.38	154.50	152.31	-66.19	40.5053909	-104.5856574	0.00	
3430.00†	8.554	336.512	3417.26	168.34	165.95	-72.12	40.5054285	-104.5856782	0.00	
3530.00†	8.554	336.512	3516.15	182.18	179.59	-78.04	40.5054661	-104.5856990	0.00	
3630.00†	8.554	336.512	3615.04	196.01	193.24	-83.97	40.5055038	-104.5857198	0.00	
3730.00†	8.554	336.512	3713.93	209.85	206.88	-89.90	40.5055414	-104.5857406	0.00	
3830.00†	8.554	336.512	3812.82	223.69	220.52	-95.83	40.5055790	-104.5857614	0.00	
3930.00†	8.554	336.512	3911.70	237.52	234.16	-101.76	40.5056166	-104.5857822	0.00	
4030.00†	8.554	336.512	4010.59	251.36	247.80	-107.68	40.5056542	-104.5858030	0.00	
4130.00†	8.554	336.512	4109.48	265.20	261.44	-113.61	40.5056918	-104.5858238	0.00	



Planned Wellpath Report

BISHOP A06-722 (REV-C.0) PWP



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

WELLPATH DATA (181 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4230.00†	8.554	336.512	4208.37	279.04	275.08	-119.54	40.5057294	-104.5858446	0.00	
4330.00†	8.554	336.512	4307.25	292.87	288.72	-125.47	40.5057670	-104.5858655	0.00	
4430.00†	8.554	336.512	4406.14	306.71	302.37	-131.40	40.5058046	-104.5858863	0.00	
4530.00†	8.554	336.512	4505.03	320.55	316.01	-137.32	40.5058422	-104.5859071	0.00	
4630.00†	8.554	336.512	4603.92	334.39	329.65	-143.25	40.5058798	-104.5859279	0.00	
4730.00†	8.554	336.512	4702.80	348.22	343.29	-149.18	40.5059175	-104.5859487	0.00	
4830.00†	8.554	336.512	4801.69	362.06	356.93	-155.11	40.5059551	-104.5859695	0.00	
4930.00†	8.554	336.512	4900.58	375.90	370.57	-161.03	40.5059927	-104.5859903	0.00	
5030.00†	8.554	336.512	4999.47	389.73	384.21	-166.96	40.5060303	-104.5860111	0.00	
5130.00†	8.554	336.512	5098.36	403.57	397.85	-172.89	40.5060679	-104.5860319	0.00	
5230.00†	8.554	336.512	5197.24	417.41	411.50	-178.82	40.5061055	-104.5860527	0.00	
5330.00†	8.554	336.512	5296.13	431.25	425.14	-184.75	40.5061431	-104.5860736	0.00	
5430.00†	8.554	336.512	5395.02	445.08	438.78	-190.67	40.5061807	-104.5860944	0.00	
5530.00†	8.554	336.512	5493.91	458.92	452.42	-196.60	40.5062183	-104.5861152	0.00	
5630.00†	8.554	336.512	5592.79	472.76	466.06	-202.53	40.5062559	-104.5861360	0.00	
5730.00†	8.554	336.512	5691.68	486.60	479.70	-208.46	40.5062935	-104.5861568	0.00	
5830.00†	8.554	336.512	5790.57	500.43	493.34	-214.39	40.5063311	-104.5861776	0.00	
5930.00†	8.554	336.512	5889.46	514.27	506.98	-220.31	40.5063688	-104.5861984	0.00	
6030.00†	8.554	336.512	5988.34	528.11	520.63	-226.24	40.5064064	-104.5862192	0.00	
6130.00†	8.554	336.512	6087.23	541.95	534.27	-232.17	40.5064440	-104.5862400	0.00	
6230.00†	8.554	336.512	6186.12	555.78	547.91	-238.10	40.5064816	-104.5862608	0.00	
6330.00†	8.554	336.512	6285.01	569.62	561.55	-244.03	40.5065192	-104.5862817	0.00	
6413.47	8.554	336.512	6367.54	581.17	572.94	-248.97	40.5065506	-104.5862990	0.00	KOP
6430.00†	9.939	339.901	6383.86	583.67	575.40	-249.95	40.5065574	-104.5863025	9.00	
6530.00†	18.656	349.429	6480.69	607.74	599.28	-255.87	40.5066231	-104.5863228	9.00	
6630.00†	27.552	352.971	6572.58	646.67	638.04	-261.64	40.5067296	-104.5863422	9.00	
6730.00†	36.496	354.875	6657.28	699.51	690.72	-267.14	40.5068744	-104.5863600	9.00	
6830.00†	45.460	356.110	6732.70	764.95	756.03	-272.22	40.5070538	-104.5863759	9.00	
6930.00†	54.433	357.014	6796.98	841.39	832.36	-276.77	40.5072634	-104.5863894	9.00	
7030.00†	63.412	357.734	6848.55	926.95	917.83	-280.67	40.5074981	-104.5864002	9.00	
7130.00†	72.394	358.348	6886.13	1019.51	1010.33	-283.81	40.5077521	-104.5864081	9.00	
7230.00†	81.378	358.904	6908.79	1116.79	1107.60	-286.14	40.5080191	-104.5864129	9.00	
7325.96	90.000	359.412	6916.00 [†]	1212.38	1203.19	-287.54	40.5082815	-104.5864144	9.00	LP/TPZ
7330.00†	90.000	359.412	6916.00	1216.41	1207.22	-287.58	40.5082926	-104.5864144	0.00	
7430.00†	90.000	359.412	6916.00	1316.38	1307.22	-288.61	40.5085671	-104.5864143	0.00	
7530.00†	90.000	359.412	6916.00	1416.35	1407.21	-289.64	40.5088416	-104.5864143	0.00	
7630.00†	90.000	359.412	6916.00	1516.32	1507.21	-290.66	40.5091161	-104.5864143	0.00	
7730.00†	90.000	359.412	6916.00	1616.29	1607.20	-291.69	40.5093905	-104.5864143	0.00	
7830.00†	90.000	359.412	6916.00	1716.26	1707.20	-292.71	40.5096650	-104.5864143	0.00	
7930.00†	90.000	359.412	6916.00	1816.24	1807.19	-293.74	40.5099395	-104.5864143	0.00	
8030.00†	90.000	359.412	6916.00	1916.21	1907.19	-294.77	40.5102140	-104.5864143	0.00	
8130.00†	90.000	359.412	6916.00	2016.18	2007.18	-295.79	40.5104885	-104.5864142	0.00	
8230.00†	90.000	359.412	6916.00	2116.15	2107.18	-296.82	40.5107630	-104.5864142	0.00	
8330.00†	90.000	359.412	6916.00	2216.12	2207.17	-297.84	40.5110375	-104.5864142	0.00	
8430.00†	90.000	359.412	6916.00	2316.09	2307.17	-298.87	40.5113119	-104.5864142	0.00	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

WELLPATH DATA (181 stations) † = interpolated, ‡ = extrapolated station											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude		Longitude	DLS [°/100ft]	Comments
8530.00†	90.000	359.412	6916.00	2416.06	2407.16	-299.90	40.5115864		-104.5864142	0.00	
8630.00†	90.000	359.412	6916.00	2516.03	2507.16	-300.92	40.5118609		-104.5864142	0.00	
8730.00†	90.000	359.412	6916.00	2616.00	2607.15	-301.95	40.5121354		-104.5864142	0.00	
8830.00†	90.000	359.412	6916.00	2715.97	2707.15	-302.97	40.5124099		-104.5864141	0.00	
8930.00†	90.000	359.412	6916.00	2815.94	2807.14	-304.00	40.5126844		-104.5864141	0.00	
9030.00†	90.000	359.412	6916.00	2915.91	2907.13	-305.03	40.5129588		-104.5864141	0.00	
9130.00†	90.000	359.412	6916.00	3015.88	3007.13	-306.05	40.5132333		-104.5864141	0.00	
9230.00†	90.000	359.412	6916.00	3115.86	3107.12	-307.08	40.5135078		-104.5864141	0.00	
9330.00†	90.000	359.412	6916.00	3215.83	3207.12	-308.11	40.5137823		-104.5864141	0.00	
9430.00†	90.000	359.412	6916.00	3315.80	3307.11	-309.13	40.5140568		-104.5864140	0.00	
9530.00†	90.000	359.412	6916.00	3415.77	3407.11	-310.16	40.5143313		-104.5864140	0.00	
9630.00†	90.000	359.412	6916.00	3515.74	3507.10	-311.18	40.5146058		-104.5864140	0.00	
9730.00†	90.000	359.412	6916.00	3615.71	3607.10	-312.21	40.5148802		-104.5864140	0.00	
9830.00†	90.000	359.412	6916.00	3715.68	3707.09	-313.24	40.5151547		-104.5864140	0.00	
9930.00†	90.000	359.412	6916.00	3815.65	3807.09	-314.26	40.5154292		-104.5864140	0.00	
10030.00†	90.000	359.412	6916.00	3915.62	3907.08	-315.29	40.5157037		-104.5864140	0.00	
10130.00†	90.000	359.412	6916.00	4015.59	4007.08	-316.31	40.5159782		-104.5864139	0.00	
10230.00†	90.000	359.412	6916.00	4115.56	4107.07	-317.34	40.5162527		-104.5864139	0.00	
10330.00†	90.000	359.412	6916.00	4215.53	4207.07	-318.37	40.5165271		-104.5864139	0.00	
10430.00†	90.000	359.412	6916.00	4315.50	4307.06	-319.39	40.5168016		-104.5864139	0.00	
10530.00†	90.000	359.412	6916.00	4415.48	4407.06	-320.42	40.5170761		-104.5864139	0.00	
10630.00†	90.000	359.412	6916.00	4515.45	4507.05	-321.44	40.5173506		-104.5864139	0.00	
10730.00†	90.000	359.412	6916.00	4615.42	4607.05	-322.47	40.5176251		-104.5864139	0.00	
10830.00†	90.000	359.412	6916.00	4715.39	4707.04	-323.50	40.5178996		-104.5864138	0.00	
10930.00†	90.000	359.412	6916.00	4815.36	4807.03	-324.52	40.5181740		-104.5864138	0.00	
11030.00†	90.000	359.412	6916.00	4915.33	4907.03	-325.55	40.5184485		-104.5864138	0.00	
11130.00†	90.000	359.412	6916.00	5015.30	5007.02	-326.57	40.5187230		-104.5864138	0.00	
11230.00†	90.000	359.412	6916.00	5115.27	5107.02	-327.60	40.5189975		-104.5864138	0.00	
11330.00†	90.000	359.412	6916.00	5215.24	5207.01	-328.63	40.5192720		-104.5864138	0.00	
11430.00†	90.000	359.412	6916.00	5315.21	5307.01	-329.65	40.5195465		-104.5864137	0.00	
11530.00†	90.000	359.412	6916.00	5415.18	5407.00	-330.68	40.5198209		-104.5864137	0.00	
11630.00†	90.000	359.412	6916.00	5515.15	5507.00	-331.71	40.5200954		-104.5864137	0.00	
11730.00†	90.000	359.412	6916.00	5615.12	5606.99	-332.73	40.5203699		-104.5864137	0.00	
11830.00†	90.000	359.412	6916.00	5715.10	5706.99	-333.76	40.5206444		-104.5864137	0.00	
11930.00†	90.000	359.412	6916.00	5815.07	5806.98	-334.78	40.5209189		-104.5864137	0.00	
12030.00†	90.000	359.412	6916.00	5915.04	5906.98	-335.81	40.5211934		-104.5864137	0.00	
12130.00†	90.000	359.412	6916.00	6015.01	6006.97	-336.84	40.5214679		-104.5864136	0.00	
12230.00†	90.000	359.412	6916.00	6114.98	6106.97	-337.86	40.5217423		-104.5864136	0.00	
12330.00†	90.000	359.412	6916.00	6214.95	6206.96	-338.89	40.5220168		-104.5864136	0.00	
12430.00†	90.000	359.412	6916.00	6314.92	6306.96	-339.91	40.5222913		-104.5864136	0.00	
12530.00†	90.000	359.412	6916.00	6414.89	6406.95	-340.94	40.5225658		-104.5864136	0.00	
12630.00†	90.000	359.412	6916.00	6514.86	6506.95	-341.97	40.5228403		-104.5864136	0.00	
12730.00†	90.000	359.412	6916.00	6614.83	6606.94	-342.99	40.5231148		-104.5864136	0.00	
12830.00†	90.000	359.412	6916.00	6714.80	6706.93	-344.02	40.5233892		-104.5864135	0.00	
12930.00†	90.000	359.412	6916.00	6814.77	6806.93	-345.04	40.5236637		-104.5864135	0.00	



Planned Wellpath Report

BISHOP A06-722 (REV-C.0) PWP



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

WELLPATH DATA (181 stations) † = interpolated, ‡ = extrapolated station											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments	
13030.00†	90.000	359.412	6916.00	6914.74	6906.92	-346.07	40.5239382	-104.5864135	0.00		
13130.00†	90.000	359.412	6916.00	7014.72	7006.92	-347.10	40.5242127	-104.5864135	0.00		
13230.00†	90.000	359.412	6916.00	7114.69	7106.91	-348.12	40.5244872	-104.5864135	0.00		
13330.00†	90.000	359.412	6916.00	7214.66	7206.91	-349.15	40.5247617	-104.5864135	0.00		
13430.00†	90.000	359.412	6916.00	7314.63	7306.90	-350.17	40.5250361	-104.5864134	0.00		
13530.00†	90.000	359.412	6916.00	7414.60	7406.90	-351.20	40.5253106	-104.5864134	0.00		
13630.00†	90.000	359.412	6916.00	7514.57	7506.89	-352.23	40.5255851	-104.5864134	0.00		
13730.00†	90.000	359.412	6916.00	7614.54	7606.89	-353.25	40.5258596	-104.5864134	0.00		
13830.00†	90.000	359.412	6916.00	7714.51	7706.88	-354.28	40.5261341	-104.5864134	0.00		
13930.00†	90.000	359.412	6916.00	7814.48	7806.88	-355.31	40.5264086	-104.5864134	0.00		
14030.00†	90.000	359.412	6916.00	7914.45	7906.87	-356.33	40.5266830	-104.5864134	0.00		
14130.00†	90.000	359.412	6916.00	8014.42	8006.87	-357.36	40.5269575	-104.5864133	0.00		
14230.00†	90.000	359.412	6916.00	8114.39	8106.86	-358.38	40.5272320	-104.5864133	0.00		
14330.00†	90.000	359.412	6916.00	8214.36	8206.86	-359.41	40.5275065	-104.5864133	0.00		
14430.00†	90.000	359.412	6916.00	8314.34	8306.85	-360.44	40.5277810	-104.5864133	0.00		
14530.00†	90.000	359.412	6916.00	8414.31	8406.85	-361.46	40.5280555	-104.5864133	0.00		
14630.00†	90.000	359.412	6916.00	8514.28	8506.84	-362.49	40.5283299	-104.5864133	0.00		
14730.00†	90.000	359.412	6916.00	8614.25	8606.83	-363.51	40.5286044	-104.5864133	0.00		
14830.00†	90.000	359.412	6916.00	8714.22	8706.83	-364.54	40.5288789	-104.5864132	0.00		
14930.00†	90.000	359.412	6916.00	8814.19	8806.82	-365.57	40.5291534	-104.5864132	0.00		
15030.00†	90.000	359.412	6916.00	8914.16	8906.82	-366.59	40.5294279	-104.5864132	0.00		
15130.00†	90.000	359.412	6916.00	9014.13	9006.81	-367.62	40.5297024	-104.5864132	0.00		
15230.00†	90.000	359.412	6916.00	9114.10	9106.81	-368.64	40.5299768	-104.5864132	0.00		
15330.00†	90.000	359.412	6916.00	9214.07	9206.80	-369.67	40.5302513	-104.5864132	0.00		
15430.00†	90.000	359.412	6916.00	9314.04	9306.80	-370.70	40.5305258	-104.5864132	0.00		
15530.00†	90.000	359.412	6916.00	9414.01	9406.79	-371.72	40.5308003	-104.5864131	0.00		
15630.00†	90.000	359.412	6916.00	9513.98	9506.79	-372.75	40.5310748	-104.5864131	0.00		
15730.00†	90.000	359.412	6916.00	9613.96	9606.78	-373.77	40.5313493	-104.5864131	0.00		
15830.00†	90.000	359.412	6916.00	9713.93	9706.78	-374.80	40.5316237	-104.5864131	0.00		
15930.00†	90.000	359.412	6916.00	9813.90	9806.77	-375.83	40.5318982	-104.5864131	0.00		
16030.00†	90.000	359.412	6916.00	9913.87	9906.77	-376.85	40.5321727	-104.5864131	0.00		
16130.00†	90.000	359.412	6916.00	10013.84	10006.76	-377.88	40.5324472	-104.5864130	0.00		
16230.00†	90.000	359.412	6916.00	10113.81	10106.76	-378.91	40.5327217	-104.5864130	0.00		
16330.00†	90.000	359.412	6916.00	10213.78	10206.75	-379.93	40.5329962	-104.5864130	0.00		
16430.00†	90.000	359.412	6916.00	10313.75	10306.74	-380.96	40.5332706	-104.5864130	0.00		
16530.00†	90.000	359.412	6916.00	10413.72	10406.74	-381.98	40.5335451	-104.5864130	0.00		
16630.00†	90.000	359.412	6916.00	10513.69	10506.73	-383.01	40.5338196	-104.5864130	0.00		
16730.00†	90.000	359.412	6916.00	10613.66	10606.73	-384.04	40.5340941	-104.5864130	0.00		
16830.00†	90.000	359.412	6916.00	10713.63	10706.72	-385.06	40.5343686	-104.5864129	0.00		
16930.00†	90.000	359.412	6916.00	10813.60	10806.72	-386.09	40.5346430	-104.5864129	0.00		
17030.00†	90.000	359.412	6916.00	10913.58	10906.71	-387.11	40.5349175	-104.5864129	0.00		
17130.00†	90.000	359.412	6916.00	11013.55	11006.71	-388.14	40.5351920	-104.5864129	0.00		
17230.00†	90.000	359.412	6916.00	11113.52	11106.70	-389.17	40.5354665	-104.5864129	0.00		
17330.00†	90.000	359.412	6916.00	11213.49	11206.70	-390.19	40.5357410	-104.5864129	0.00		
17430.00†	90.000	359.412	6916.00	11313.46	11306.69	-391.22	40.5360155	-104.5864129	0.00		

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

WELLPATH DATA (181 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17497.59	90.000	359.412	6916.00 ²	11381.03	11374.28	-391.91	40.5362010	-104.5864128	0.00	BHL

HOLE & CASING SECTIONS - Ref Wellbore: BISHOP A06-722 PWB Ref Wellpath: BISHOP A06-722 (REV-C.0) 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	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OGDP 1 SEC.07-T06N-R64W	N/A	2.00	149.64	61.03	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
	2D Polygon: dimensions not calculated								
OGDP1 SEC.05-T06N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40.5055500	-104.6004900	polygon
	2D Polygon: dimensions not calculated								
OGDP1 SEC.06-T06N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40.5055500	-104.6004900	polygon
	2D Polygon: dimensions not calculated								
OGDP1 SEC.31-T07N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40.5055500	-104.6004900	polygon
	2D Polygon: dimensions not calculated								
OGDP1 SEC.32-T07N-R64W	N/A	20.00	168.08	-4191.33	3250128.51	1428281.04	40.5055500	-104.6004900	polygon
	2D Polygon: dimensions not calculated								
2) BISHOP A06-722 BHL Rev-2 (200'FSL & 841'FEL,SEC.31)	17497.59	6916.00	11374.28	-391.91	3253927.79	1439486.85	40.5362010	-104.5864128	point
1) BISHOP A06-722 LP Rev-2 (200'FSL & 763'FEL,SEC.06)	7325.96	6916.00	1203.19	-287.54	3254032.16	1429316.12	40.5082815	-104.5864144	point
BISHOP A06-722 BHL Rev-1 (200'FSL & 841'FEL,SEC.31)	N/A	6974.00	11374.28	-391.91	3253927.79	1439486.85	40.5362010	-104.5864128	point
BISHOP A06-722 LP Rev-1 (200'FSL & 763'FEL,SEC.06)	N/A	6974.00	1203.19	-287.54	3254032.16	1429316.12	40.5082815	-104.5864144	point
DP 136 Hardlines (200'FNL/FSL & 300'FEL/FWL)	N/A	7003.00	149.84	44.90	3254364.58	1428262.81	40.5053810	-104.5852580	polygon
	2D Polygon: dimensions not calculated								

SURVEY PROGRAM - Ref Wellbore: BISHOP A06-722 PWB Ref Wellpath: BISHOP A06-722 (REV-C.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	1950.00	OWSG MWD rev2 (MS+IFR1)		BISHOP A06-722 PWB
1950.00	17497.59	OWSG MWD rev2 (MS+IFR1)		BISHOP A06-722 PWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	336.512	30.00	SHL
2000.00	0.000	336.512	2000.00	End of Tangent
2427.68	8.554	336.512	2426.10	Build (XS)
6413.47	8.554	336.512	6367.54	KOP
7325.96	90.000	359.412	6916.00	LP/TPZ
17497.59	90.000	359.412	6916.00	BHL



Closest Approach Clearance Summary Report

BISHOP A06-722 (REV-C.0) PWP - SPE WPTS Stop Drilling HSE Risk (2017)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Martsam01
Scale	0.999967	Report Generated	10/6/2023 at 11:07:31 AM
Convergence at slot	0.59° 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	-149.64	-61.03	3254319.69	1428112.97	40°30'17.8956"N	104°35'7.5300"W
Facility Reference Pt			3254380.72	1428262.61	40°30'19.3680"N	104°35'6.7200"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 (4744'GL+30'KB@4774'RKB) (RKB) to Facility Vertical Datum	4774.00ft
Horizontal Reference Pt	Slot	RIG (4744'GL+30'KB@4774'RKB) (RKB) to Mean Sea Level	4774.00ft
Vertical Reference Pt	RIG (4744'GL+30'KB@4774'RKB) (RKB)	RIG (4744'GL+30'KB@4774'RKB) (RKB) to Ground Level at Slot (SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07))	4774.00ft
MD Reference Pt	RIG (4744'GL+30'KB@4774'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	7.38° East of TN	Dip Angle	66.68°	Mag Field Strength	51663 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					

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

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: BISHOP A06-722 PWB Ref Wellpath: BISHOP A06-722 (REV-C.0) 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: BISHOP A06-722 PWB Ref Wellpath: BISHOP A06-722 (REV-C.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	1950.00	OWSG MWD rev2 (MS+IFR1)		BISHOP A06-722 PWB
1950.00	17497.59	OWSG MWD rev2 (MS+IFR1)		BISHOP A06-722 PWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 17497.59ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (73 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.31-T07N-R64W	SLOT#02 PFENNING #43-31 (05-123-22378)	PFENNING #43-31	PFENNING #43-31 AWB	PFENNING #43-31 AWP	Drilling	14207.41	54.67	14207.41	14207.41	0.01	14207.41	FAIL
SEC.31-T07N-R64W	SLOT#10 PFENNING #44-31 (05-123-22574)	PFENNING #44-31	PFENNING #44-31 AWB	PFENNING #44-31 AWP	Drilling	13274.75	62.98	13274.75	13274.75	0.01	13274.75	FAIL
SEC.06-T06N-R64W	SLOT#02 KREPS #43-6 (05-123-22600)	KREPS #43-6	KREPS #43-6 AWB	KREPS #43-6 AWP	Drilling	8932.07	301.45	8932.07	8932.07	0.04	8932.07	FAIL
SEC.06-T06N-R64W	SLOT#08 KREPS TRUST #44-6 (05-123-21722)	KREPS TRUST #44-6	KREPS TRUST #44-6 AWB	KREPS TRUST #44-6 AWP	Drilling	7930.19	307.06	7930.19	7930.19	0.04	7930.19	FAIL
SEC.06-T06N-R64W	SLOT#13 KREPS TRUST #34-6 (05-123-21723)	KREPS TRUST #34-6	KREPS TRUST #34-6 AWB	KREPS TRUST #34-6 AWP	Drilling	7587.70	935.90	7587.70	7587.70	0.11	7587.70	FAIL
SEC.06-T06N-R64W	SLOT#05 KREPS #33-6 (05-123-22597)	KREPS #33-6	KREPS #33-6 AWB	KREPS #33-6 AWP	Drilling	9146.98	997.08	9146.98	9146.99	0.12	9146.99	FAIL
SEC.06-T06N-R64W	SLOT#04 KREPS #31-6 (05-123-22628)	KREPS #31-6	KREPS #31-6 AWB	KREPS #31-6 AWP	Drilling	11799.23	1136.09	11799.23	11799.25	0.13	11799.25	FAIL
SEC.31-T07N-R64W	SLOT#05 UYEMURA #33-31 (05-123-22441)	UYEMURA #33-31	UYEMURA #33-31 AWB	UYEMURA #33-31 AWP	Drilling	14196.46	1152.76	14196.46	14196.46	0.14	14196.46	FAIL
SEC.31-T07N-R64W	SLOT#14 UYEMURA #34-31 (05-123-21921)	UYEMURA #34-31	UYEMURA #34-31 AWB	UYEMURA #34-31 AWP	Drilling	12972.34	1175.01	12972.34	12972.34	0.14	12972.34	FAIL
SEC.07-T06N-R64W	SLOT#37 DYER #42-7 (05-123-13959)	DYER #42-7 (05-123-13959)	DYER #42-7 AWB	DYER #42-7 AWP (05-123-13959)	Drilling	30.00	1083.32	2000.00	6486.03	0.20	6486.03	FAIL
SEC.06-T06N-R64W	SLOT#12 Stille #12-6H (05-123-34410)	Stille #12-6H	Stille #12-6H AWB	Stille #12-6H AWP	Drilling	11037.32	32.19	11037.32	11060.79	0.25	11060.79	FAIL
SEC.07-T06N-R64W	SLOT#41 Ehrlich #32-7 (05-123-20196)	Ehrlich #32-7 (05-123-20196)	Ehrlich #32-7 AWB	Ehrlich #32-7 AWP	Drilling	30.00	1739.92	2000.00	6569.71	0.26	6569.71	FAIL
SEC.06-T06N-R64W	SLOT#09 KREPS #24-6 (05-123-23621)	KREPS #24-6	KREPS #24-6 AWB	KREPS #24-6 AWP	Drilling	7667.87	2256.74	7667.87	7667.90	0.27	7667.90	FAIL
SEC.06-T06N-R64W	SLOT#03 STEPHENSON #6-31 (05-123-22625)	STEPHENSON #6-31	STEPHENSON #6-31 AWB	STEPHENSON #6-31 AWP	Drilling	9070.51	2290.04	9070.51	9070.55	0.27	9070.55	FAIL
SEC.07-T06N-R64W	SLOT#30 KREPS #21-7 (05-123-20207)	KREPS #21-7 (05-123-20207)	KREPS #21-7 AWB	KREPS #21-7 AWP	Drilling	6682.97	2602.42	6682.97	7057.90	0.31	7057.90	FAIL
SEC.31-T07N-R64W	SLOT#08 BAY-USX AB #31-19 (05-123-24610)	BAY-USX AB #31-19	BAY-USX AB #31-19 AWB	BAY-USX AB #31-19 AWP	Drilling	16203.59	3043.26	16203.59	16203.86	0.36	16203.86	FAIL
SEC.07-T06N-R64W	SLOT#35 CARLSON #33-7 (05-123-19548)	CARLSON #33-7 (05-123-19548)	CARLSON #33-7 AWB	CARLSON #33-7 AWP	Drilling	130.00	2582.04	2000.00	6631.05	0.38	6631.05	FAIL
SEC.31-T07N-R64W	SLOT#15 OWL CREEK #9 (05-123-11935)	OWL CREEK #9	OWL CREEK #9 AWB	OWL CREEK #9 AWP	Drilling	13016.19	3554.79	13016.19	13016.45	0.42	13016.45	FAIL
SEC.07-T06N-R64W	SLOT#38 EHRLICH #22-7 (05-123-14184)	EHRLICH #22-7 (05-123-14184)	EHRLICH #22-7 AWB	EHRLICH #22-7 AWP	Drilling	130.00	3432.48	2000.00	6801.27	0.44	6801.27	FAIL
SEC.07-T06N-R64W	SLOT#34 KREPS #11-7 (05-123-14166)	KREPS #11-7 (05-123-14166)	KREPS #11-7 AWB	KREPS #11-7 AWP	Drilling	6709.29	3746.34	6709.29	7146.51	0.45	7146.51	FAIL
SEC.07-T06N-R64W	SLOT#32 EHRLICH #3 (05-123-12737)	EHRLICH #3 (05-123-12737)	EHRLICH #3 AWB	EHRLICH #3 AWP	Drilling	130.00	3575.38	2000.00	6756.14	0.48	6756.14	FAIL
SEC.07-T06N-R64W	SLOT#42 EHRLICH #4 (05-123-12738)	EHRLICH #4 (05-123-12738)	EHRLICH #4 AWB	EHRLICH #4 AWP	Drilling	6157.55	3992.24	6157.55	6940.15	0.49	6940.15	FAIL
SEC.31-T07N-R64W	SLOT#07 ROUSE USX AB #31-08 (05-123-29406)	ROUSE USX AB #31-08	ROUSE USX AB #31-08 AWB	ROUSE USX AB #31-08 AWP	Drilling	15583.10	237.43	15583.10	15583.30	0.72	15583.30	FAIL
SEC.07-T06N-R64W	SLOT#22 BISHOP A06-731 (1009'FNL & 508'FEL,SEC.07)	BISHOP A06-731	BISHOP A06-731 PWB	BISHOP A06-731 (REV-B.0) PWP	Planned	2001.95	22.53	17430.00	2033.21	1.01	17497.59	WARN
SEC.31-T07N-R64W	SLOT#01 ROUSE USX AB #31-01 (05-123-29401)	ROUSE USX AB #31-01	ROUSE USX AB #31-01 AWB	ROUSE USX AB #31-01 AWP	Drilling	17213.80	306.01	17213.80	17214.60	1.06	17214.60	WARN

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 17497.59ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (73 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.31-T07N-R64W	SLOT#06 ROUSE-USX AB #31-17 (05-123-24694)	ROUSE-USX AB #31-17	ROUSE-USX AB #31-17 AWB	ROUSE-USX AB #31-17 AWP	Drilling	16362.72	317.72	16362.72	16366.17	1.14	16366.17	PASS
SEC.07-T06N-R64W	SLOT#29 DYER #41-7 (05-123-20669)	DYER #41-7 (05-123-20669)	DYER #41-7 AWB	DYER #41-7 AWP	Drilling	4575.71	71.53	4575.71	4629.40	1.92	4629.40	PASS
SEC.07-T06N-R64W	SLOT#21 BISHOP A06-740 (1008'FNL & 531'FEL,SEC.07)	BISHOP A06-740	BISHOP A06-740 PWB	BISHOP A06-740 (REV-C.0) PWP	Planned	2001.77	45.05	17430.00	2003.95	2.27	17497.59	PASS
SEC.07-T06N-R64W	SLOT#24 BISHOP A06-712 (1010'FNL & 463'FEL,SEC.07)	BISHOP A06-712	BISHOP A06-712 PWB	BISHOP A06-712 (REV-C.0) PWP	Planned	30.00	22.53	17497.59	788.29	2.42	17497.59	PASS
SEC.07-T06N-R64W	SLOT#15 BISHOP A18-724 (859'FNL & 484'FEL,SEC.07)	BISHOP A18-724	BISHOP A18-724 PWB	BISHOP A18-724 (REV-C.0) PWP	Planned	30.00	150.11	7075.35	7075.35	2.92	7075.35	PASS
SEC.31-T07N-R64W	SLOT#03 ROUSE USX AB #31-02 (05-123-29402)	ROUSE USX AB #31-02	ROUSE USX AB #31-02 AWB	ROUSE USX AB #31-02 AWP	Drilling	17171.51	1315.91	17171.51	17205.80	4.02	17205.80	PASS
SEC.07-T06N-R64W	SLOT#03 BISHOP A08-665 (861'FNL & 394'FEL,SEC.07)	BISHOP A08-665	BISHOP A08-665 PWB	BISHOP A08-665 (REV-C.0) PWP	Planned	2055.16	82.51	2055.16	2061.35	4.28	2061.35	PASS
SEC.31-T07N-R64W	SLOT#12 ROUSE USX AB #31-07 (05-123-29400)	ROUSE USX AB #31-07	ROUSE USX AB #31-07 AWB	ROUSE USX AB #31-07 AWP	Drilling	15522.95	1336.23	15522.95	15563.12	4.71	15563.12	PASS
SEC.07-T06N-R64W	SLOT#25 BISHOP A05-783 (1010'FNL & 441'FEL,SEC.07)	BISHOP A05-783	BISHOP A05-783 PWB	BISHOP A05-783 (REV-C.0) PWP	Planned	30.00	45.05	17497.59	17497.59	5.23	17497.59	PASS
SEC.07-T06N-R64W	SLOT#02 BISHOP A08-675 (861'FNL & 417'FEL,SEC.07)	BISHOP A08-675	BISHOP A08-675 PWB	BISHOP A08-675 (REV-C.0) PWP	Planned	2958.18	121.65	2958.18	3094.14	5.77	3094.14	PASS
SEC.07-T06N-R64W	SLOT#04 BISHOP A08-655 (862'FNL & 372'FEL,SEC.07)	BISHOP A08-655	BISHOP A08-655 PWB	BISHOP A08-655 (REV-C.0) PWP	Planned	1675.07	106.13	1675.07	1775.20	6.39	1775.20	PASS
SEC.07-T06N-R64W	SLOT#01 BISHOP A08-685 (860'FNL & 439'FEL,SEC.07)	BISHOP A08-685	BISHOP A08-685 PWB	BISHOP A08-685 (REV-C.0) PWP	Planned	30.00	156.42	4030.00	6262.60	6.72	6262.60	PASS
SEC.07-T06N-R64W	SLOT#16 BISHOP A18-715 (860'FNL & 462'FEL,SEC.07)	BISHOP A18-715	BISHOP A18-715 PWB	BISHOP A18-715 (REV-C.0) PWP	Planned	30.00	151.63	7111.38	7111.38	7.10	7111.38	PASS
SEC.31-T07N-R64W	SLOT#09 BAY-USX AB #31-6 (05-123-26532)	BAY-USX AB #31-6	BAY-USX AB #31-6 AWB	BAY-USX AB #31-6 AWP	Drilling	15529.91	2288.59	15529.91	15629.41	7.50	15629.41	PASS
SEC.07-T06N-R64W	SLOT#26 BISHOP A05-773 (1011'FNL & 418'FEL,SEC.07)	BISHOP A05-773	BISHOP A05-773 PWB	BISHOP A05-773 (REV-C.0) PWP	Planned	30.00	67.58	17497.59	17497.59	7.85	17497.59	PASS
SEC.07-T06N-R64W	SLOT#20 BRASKALAND A06-756 (642'FNL & 320'FWL,SEC.07)	BRASKALAND A06-756	BRASKALAND A06-756 PWB	BRASKALAND A06-756 (REV-C.0) PWP	Planned	17472.60	1833.67	17472.60	17497.59	7.87	17497.59	PASS
SEC.07-T06N-R64W	SLOT#27 BISHOP A05-764 (1011'FNL & 396'FEL,SEC.07)	BISHOP A05-764	BISHOP A05-764 PWB	BISHOP A05-764 (REV-C.0) PWP	Planned	30.00	90.11	17497.59	17497.59	10.37	17497.59	PASS
SEC.07-T06N-R64W	SLOT#19 BRASKALAND A06-765 (665'FNL & 319'FWL,SEC.07)	BRASKALAND A06-765	BRASKALAND A06-765 PWB	BRASKALAND A06-765 (REV-C.0) PWP	Planned	17464.35	2446.73	17464.35	17497.59	10.49	17497.59	PASS
SEC.31-T07N-R64W	SLOT#13 BAY USX #AB31-05 (05-123-34163)	BAY USX #AB31-05	BAY USX #AB31-05 AWB	BAY USX #AB31-05 AWP	Drilling	15672.10	3643.47	15672.10	15895.29	11.18	15895.29	PASS
SEC.06-T06N-R64W	SLOT#10 KREPS #32-6 (05-123-22629)	KREPS #32-6	KREPS #32-6 AWB	KREPS #32-6 AWP	Drilling	10608.70	1058.10	10608.70	10702.89	11.36	10702.89	PASS
SEC.31-T07N-R64W	SLOT#04 BAY USX #AB31-04 (05-123-34162)	BAY USX #AB31-04	BAY USX #AB31-04 AWB	BAY USX #AB31-04 AWP	Drilling	16950.86	3621.09	16950.86	17218.23	11.87	17218.23	PASS
SEC.07-T06N-R64W	SLOT#28 BISHOP A05-755 (1012'FNL & 373'FEL,SEC.07)	BISHOP A05-755	BISHOP A05-755 PWB	BISHOP A05-755 (REV-C.0) PWP	Planned	30.00	112.63	17430.00	17497.59	13.03	17497.59	PASS
SEC.07-T06N-R64W	SLOT#18 BRASKALAND A06-773 (687'FNL & 319'FWL,SEC.07)	BRASKALAND A06-773	BRASKALAND A06-773 PWB	BRASKALAND A06-773 (REV-C.0) PWP	Planned	17456.10	3056.19	17456.10	17497.59	13.14	17497.59	PASS
SEC.07-T06N-R64W	SLOT#14 BISHOP A18-733 (859'FNL & 507'FEL,SEC.07)	BISHOP A18-733	BISHOP A18-733 PWB	BISHOP A18-733 (REV-C.0) PWP	Planned	30.00	151.54	7230.00	7286.15	13.86	7286.15	PASS
SEC.07-T06N-R64W	SLOT#17 BRASKALAND A06-782 (710'FNL & 319'FWL,SEC.07)	BRASKALAND A06-782	BRASKALAND A06-782 PWB	BRASKALAND A06-782 (REV-C.0) PWP	Planned	17447.85	3668.53	17447.85	17497.59	15.80	17497.59	PASS

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A06-722
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A06-722 PWB
Slot	SLOT#23 BISHOP A06-722 (1009'FNL & 486'FEL,SEC.07)		

CALCULATION RANGE & CUTOFF		
From: 30.00ft MD	To: 17497.59ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (73 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.07-T06N-R64W	SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07)	BISHOP A18-742	BISHOP A18-742 PWB	BISHOP A18-742 (REV-C.0) PWP	Planned	30.00	156.59	7530.00	957.62	18.59	7530.00	PASS
SEC.31-T07N-R64W	SLOT#11 ARY-USX AB #31-14 (05-123-24611)	ARY-USX AB #31-14	ARY-USX AB #31-14 AWB	ARY-USX AB #31-14 AWP	Drilling	12987.21	2405.74	12987.21	13357.05	19.94	13357.05	PASS
SEC.07-T06N-R64W	SLOT#33 KREPS #1 (05-123-12736)	KREPS #1 (05-123-12736)	KREPS #1 AWB	KREPS #1 AWP	Drilling	6536.12	1164.81	6536.12	6789.10	22.12	6789.10	PASS
SEC.06-T06N-R64W	SLOT#01 MOODY #21-6 (05-123-23586)	MOODY #21-6	MOODY #21-6 AWB	MOODY #21-6 AWP	Drilling	11529.38	2517.89	11529.38	11988.22	24.08	11988.22	PASS
SEC.06-T06N-R64W	SLOT#07 MOODY #22-6 (05-123-22579)	MOODY #22-6	MOODY #22-6 AWB	MOODY #22-6 AWP	Drilling	10215.61	2229.95	10215.61	10612.40	24.52	10612.40	PASS
SEC.07-T06N-R64W	SLOT#12 BRASKALAND A18-755 (800'FNL & 319'FWL,SEC.07)	BRASKALAND A18-755	BRASKALAND A18-755 PWB	BRASKALAND A18-755 (REV-C.0) PWP	Planned	7028.32	1898.89	7028.32	7137.51	34.91	7137.51	PASS
SEC.06-T06N-R64W	SLOT#11 MOODY #12-6 (05-123-22569)	MOODY #12-6	MOODY #12-6 AWB	MOODY #12-6 AWP	Drilling	10233.04	3658.57	10233.04	11271.68	38.77	11271.68	PASS
SEC.06-T06N-R64W	SLOT#15 KREPS #6-35 (05-123-24937)	KREPS #6-35	KREPS #6-35 AWB	KREPS #6-35 AWP	Drilling	8384.78	3237.93	8384.78	9249.61	42.07	9249.61	PASS
SEC.06-T06N-R64W	SLOT#06 STEPHENSON #6-32 (05-123-22622)	STEPHENSON #6-32	STEPHENSON #6-32 AWB	STEPHENSON #6-32 AWP	Drilling	8895.87	3551.74	8895.87	9954.01	43.40	9954.01	PASS
SEC.07-T06N-R64W	SLOT#11 BRASKALAND A18-764 (777'FNL & 319'FWL,SEC.07)	BRASKALAND A18-764	BRASKALAND A18-764 PWB	BRASKALAND A18-764 (REV-C.0) PWP	Planned	7076.58	2480.09	7076.58	7743.55	46.18	7743.55	PASS
SEC.07-T06N-R64W	SLOT#05 CARLSON A08-645 (1424'FSL & 919'FEL,SEC.07)	CARLSON A08-645	CARLSON A08-645 PWB	CARLSON A08-645 (REV-C.0) PWP	Planned	6122.86	2606.68	6122.86	6518.97	48.45	6518.97	PASS
SEC.06-T06N-R64W	SLOT#14 STEPHENSON #6-33 (05-123-22623)	STEPHENSON #6-33	STEPHENSON #6-33 AWB	STEPHENSON #6-33 AWP	Drilling	7881.35	3842.23	7881.35	9078.81	51.56	9078.81	PASS
SEC.07-T06N-R64W	SLOT#10 BRASKALAND A18-773 (755'FNL & 319'FWL,SEC.07)	BRASKALAND A18-773	BRASKALAND A18-773 PWB	BRASKALAND A18-773 (REV-C.0) PWP	Planned	7101.71	3059.29	7101.71	8459.09	56.80	8459.09	PASS
SEC.07-T06N-R64W	SLOT#31 ROY CARLSON #43-7 (05-123-21867)	ROY CARLSON #43-7 (05-123-21867)	ROY CARLSON #43-7 AWB	ROY CARLSON #43-7 AWP	Drilling	30.00	2292.42	30.00	6638.63	59.53	6638.63	PASS
SEC.07-T06N-R64W	SLOT#06 CARLSON A08-635 (1423'FSL & 882'FEL,SEC.07)	CARLSON A08-635	CARLSON A08-635 PWB	CARLSON A08-635 (REV-C.0) PWP	Planned	2212.50	2865.66	2212.50	6579.57	61.77	6579.57	PASS
SEC.07-T06N-R64W	SLOT#09 BRASKALAND A18-782 (732'FNL & 319'FWL,SEC.07)	BRASKALAND A18-782	BRASKALAND A18-782 PWB	BRASKALAND A18-782 (REV-C.0) PWP	Planned	7182.44	3636.63	7182.44	9075.55	65.37	9075.55	PASS
SEC.07-T06N-R64W	SLOT#07 CARLSON A08-625 (1423'FSL & 844'FEL,SEC.07)	CARLSON A08-625	CARLSON A08-625 PWB	CARLSON A08-625 (REV-C.0) PWP	Planned	30.00	2861.51	2000.00	6660.08	75.57	6660.08	PASS
SEC.07-T06N-R64W	SLOT#39 CARLSON #44-7 (05-123-14171)	CARLSON #44-7 (05-123-14171)	CARLSON #44-7 AWB	CARLSON #44-7 AWP (05-123-14171)	Drilling	30.00	3510.50	30.00	6730.59	83.12	6730.59	PASS
SEC.07-T06N-R64W	SLOT#43 CARLSON #34-7 (05-123-14251)	CARLSON #34-7 (05-123-14251)	CARLSON #34-7 AWB	CARLSON #34-7 AWP	Drilling	409.54	3909.86	1230.00	6811.12	84.42	6811.12	PASS
SEC.07-T06N-R64W	SLOT#36 EHRLICH #1 (05-123-12382)	EHRLICH #1 (05-123-12382)	EHRLICH #1 AWB	EHRLICH #1 AWP	Drilling	71.00	4549.14	730.00	7001.42	90.43	7001.42	PASS
SEC.07-T06N-R64W	SLOT#08 CARLSON A08-615 (1422'FSL & 807'FEL,SEC.07)	CARLSON A08-615	CARLSON A08-615 PWB	CARLSON A08-615 (REV-C.0) PWP	Planned	30.00	2856.84	2000.00	6639.87	90.82	6639.87	PASS
SEC.07-T06N-R64W	SLOT#40 EHRLICH #24-7 (05-123-20469)	EHRLICH #24-7 (05-123-20469)	EHRLICH #24-7 AWB	EHRLICH #24-7 AWP	Drilling	316.25	4568.56	316.25	6832.01	94.51	6832.01	PASS
SEC.07-T06N-R64W	SLOT#44 EHRLICH #2 (05-123-12460)	EHRLICH #2 (05-123-12460)	EHRLICH #2 AWB	EHRLICH #2 AWP	Drilling	1702.21	5380.05	1702.21	6922.19	106.25	6922.19	PASS