



Planned Wellpath Report

BISHOP A08-685 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	BISHOP A08-685
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A08-685 PWB
Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'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	Guenaler
Scale	0.999967	Report Generated	1/13/2023 at 1:36:39 PM
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	0.00	0.00	3254380.72	1428262.61	40.5053800°	-104.5852000°
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	(4742'GL+30'KB = 4772'RKB) (RKB) to Facility Vertical Datum	4772.00ft
Horizontal Reference Pt	Slot	(4742'GL+30'KB = 4772'RKB) (RKB) to Mean Sea Level	4772.00ft
Vertical Reference Pt	(4742'GL+30'KB = 4772'RKB) (RKB)	(4742'GL+30'KB = 4772'RKB) (RKB) to Ground Level at Slot (SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07))	4772.00ft
MD Reference Pt	(4742'GL+30'KB = 4772'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	86.32°



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
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Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

WELLPATH DATA (180 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	357.832	0.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
30.00	0.000	357.832	30.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	SHL
130.00†	0.000	357.832	130.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
230.00†	0.000	357.832	230.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
330.00†	0.000	357.832	330.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
430.00†	0.000	357.832	430.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
530.00†	0.000	357.832	530.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
630.00†	0.000	357.832	630.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
730.00†	0.000	357.832	730.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
830.00†	0.000	357.832	830.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
930.00†	0.000	357.832	930.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1030.00†	0.000	357.832	1030.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1130.00†	0.000	357.832	1130.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1230.00†	0.000	357.832	1230.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1330.00†	0.000	357.832	1330.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1430.00†	0.000	357.832	1430.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1530.00†	0.000	357.832	1530.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1630.00†	0.000	357.832	1630.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1730.00†	0.000	357.832	1730.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1830.00†	0.000	357.832	1830.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
1930.00†	0.000	357.832	1930.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	
2000.00	0.000	357.832	2000.00	0.00	0.00	0.00	40.5053800	-104.5852000	0.00	End of Tangent
2030.00†	0.600	357.832	2030.00	0.00	0.16	-0.01	40.5053804	-104.5852000	2.00	
2130.00†	2.600	357.832	2129.96	0.08	2.95	-0.11	40.5053881	-104.5852003	2.00	
2230.00†	4.600	357.832	2229.75	0.24	9.22	-0.35	40.5054053	-104.5852009	2.00	
2315.44	6.309	357.832	2314.80	0.46	17.34	-0.66	40.5054276	-104.5852017	2.00	Build (XS)
2330.00†	6.309	357.832	2329.27	0.50	18.94	-0.72	40.5054320	-104.5852019	0.00	
2430.00†	6.309	357.832	2428.67	0.79	29.92	-1.13	40.5054621	-104.5852030	0.00	
2530.00†	6.309	357.832	2528.06	1.08	40.90	-1.55	40.5054923	-104.5852040	0.00	
2630.00†	6.309	357.832	2627.46	1.37	51.88	-1.96	40.5055224	-104.5852051	0.00	
2730.00†	6.309	357.832	2726.85	1.66	62.86	-2.38	40.5055526	-104.5852062	0.00	
2830.00†	6.309	357.832	2826.25	1.95	73.84	-2.79	40.5055827	-104.5852073	0.00	
2930.00†	6.309	357.832	2925.64	2.23	84.82	-3.21	40.5056129	-104.5852084	0.00	
3030.00†	6.309	357.832	3025.04	2.52	95.80	-3.63	40.5056430	-104.5852095	0.00	
3130.00†	6.309	357.832	3124.43	2.81	106.78	-4.04	40.5056732	-104.5852106	0.00	
3230.00†	6.309	357.832	3223.82	3.10	117.76	-4.46	40.5057034	-104.5852117	0.00	
3330.00†	6.309	357.832	3323.22	3.39	128.74	-4.87	40.5057335	-104.5852127	0.00	
3430.00†	6.309	357.832	3422.61	3.68	139.72	-5.29	40.5057637	-104.5852138	0.00	
3530.00†	6.309	357.832	3522.01	3.97	150.71	-5.70	40.5057938	-104.5852149	0.00	
3630.00†	6.309	357.832	3621.40	4.26	161.69	-6.12	40.5058240	-104.5852160	0.00	
3730.00†	6.309	357.832	3720.80	4.55	172.67	-6.54	40.5058541	-104.5852171	0.00	
3830.00†	6.309	357.832	3820.19	4.84	183.65	-6.95	40.5058843	-104.5852182	0.00	
3930.00†	6.309	357.832	3919.59	5.13	194.63	-7.37	40.5059144	-104.5852193	0.00	
4030.00†	6.309	357.832	4018.98	5.42	205.61	-7.78	40.5059446	-104.5852204	0.00	
4130.00†	6.309	357.832	4118.37	5.71	216.59	-8.20	40.5059747	-104.5852214	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A08-685 PWB
Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

WELLPATH DATA (180 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4230.00†	6.309	357.832	4217.77	6.00	227.57	-8.61	40.5060049	-104.5852225	0.00	
4330.00†	6.309	357.832	4317.16	6.28	238.55	-9.03	40.5060350	-104.5852236	0.00	
4430.00†	6.309	357.832	4416.56	6.57	249.53	-9.44	40.5060652	-104.5852247	0.00	
4530.00†	6.309	357.832	4515.95	6.86	260.51	-9.86	40.5060953	-104.5852258	0.00	
4630.00†	6.309	357.832	4615.35	7.15	271.49	-10.28	40.5061255	-104.5852269	0.00	
4730.00†	6.309	357.832	4714.74	7.44	282.48	-10.69	40.5061556	-104.5852280	0.00	
4830.00†	6.309	357.832	4814.14	7.73	293.46	-11.11	40.5061858	-104.5852291	0.00	
4930.00†	6.309	357.832	4913.53	8.02	304.44	-11.52	40.5062159	-104.5852301	0.00	
5030.00†	6.309	357.832	5012.92	8.31	315.42	-11.94	40.5062461	-104.5852312	0.00	
5130.00†	6.309	357.832	5112.32	8.60	326.40	-12.35	40.5062762	-104.5852323	0.00	
5230.00†	6.309	357.832	5211.71	8.89	337.38	-12.77	40.5063064	-104.5852334	0.00	
5330.00†	6.309	357.832	5311.11	9.18	348.36	-13.19	40.5063365	-104.5852345	0.00	
5430.00†	6.309	357.832	5410.50	9.47	359.34	-13.60	40.5063667	-104.5852356	0.00	
5530.00†	6.309	357.832	5509.90	9.76	370.32	-14.02	40.5063968	-104.5852367	0.00	
5630.00†	6.309	357.832	5609.29	10.05	381.30	-14.43	40.5064270	-104.5852378	0.00	
5730.00†	6.309	357.832	5708.68	10.33	392.28	-14.85	40.5064571	-104.5852388	0.00	
5830.00†	6.309	357.832	5808.08	10.62	403.26	-15.26	40.5064873	-104.5852399	0.00	
5930.00†	6.309	357.832	5907.47	10.91	414.25	-15.68	40.5065174	-104.5852410	0.00	
6030.00†	6.309	357.832	6006.87	11.20	425.23	-16.10	40.5065476	-104.5852421	0.00	
6130.00†	6.309	357.832	6106.26	11.49	436.21	-16.51	40.5065777	-104.5852432	0.00	
6204.95	6.309	357.832	6180.76	11.71	444.44	-16.82	40.5066003	-104.5852440	0.00	KOP
6230.00†	6.653	17.675	6205.65	12.27	447.20	-16.43	40.5066079	-104.5852425	9.00	
6330.00†	12.765	59.846	6304.28	24.30	458.29	-5.10	40.5066380	-104.5852013	9.00	
6430.00†	21.047	72.353	6399.91	51.67	469.30	21.62	40.5066675	-104.5851048	9.00	
6530.00†	29.738	77.890	6490.17	93.71	479.97	63.07	40.5066956	-104.5849554	9.00	
6630.00†	38.561	81.076	6572.85	149.40	490.03	118.22	40.5067216	-104.5847567	9.00	
6730.00†	47.442	83.221	6645.92	217.35	499.23	185.72	40.5067450	-104.5845136	9.00	
6830.00†	56.353	84.827	6707.57	295.90	507.35	263.91	40.5067650	-104.5842322	9.00	
6930.00†	65.282	86.130	6756.28	383.10	514.18	350.86	40.5067813	-104.5839193	9.00	
7030.00†	74.220	87.256	6790.85	476.82	519.56	444.42	40.5067934	-104.5835826	9.00	
7130.00†	83.163	88.287	6810.44	574.75	523.36	542.31	40.5068011	-104.5832305	9.00	
7206.43	90.000	89.046	6815.00†	650.94	525.13	618.54	40.5068038	-104.5829563	9.00	LP/TPZ
7230.00†	90.000	89.046	6815.00	674.48	525.52	642.10	40.5068042	-104.5828716	0.00	
7330.00†	90.000	89.046	6815.00	774.36	527.19	742.09	40.5068059	-104.5825120	0.00	
7430.00†	90.000	89.046	6815.00	874.25	528.85	842.08	40.5068077	-104.5821524	0.00	
7530.00†	90.000	89.046	6815.00	974.14	530.52	942.06	40.5068094	-104.5817928	0.00	
7630.00†	90.000	89.046	6815.00	1074.03	532.18	1042.05	40.5068111	-104.5814332	0.00	
7730.00†	90.000	89.046	6815.00	1173.91	533.84	1142.03	40.5068128	-104.5810736	0.00	
7830.00†	90.000	89.046	6815.00	1273.80	535.51	1242.02	40.5068146	-104.5807140	0.00	
7930.00†	90.000	89.046	6815.00	1373.69	537.17	1342.01	40.5068163	-104.5803544	0.00	
8030.00†	90.000	89.046	6815.00	1473.57	538.84	1441.99	40.5068180	-104.5799948	0.00	
8130.00†	90.000	89.046	6815.00	1573.46	540.50	1541.98	40.5068197	-104.5796352	0.00	
8230.00†	90.000	89.046	6815.00	1673.35	542.17	1641.96	40.5068214	-104.5792756	0.00	
8330.00†	90.000	89.046	6815.00	1773.24	543.83	1741.95	40.5068232	-104.5789160	0.00	
8430.00†	90.000	89.046	6815.00	1873.12	545.50	1841.94	40.5068249	-104.5785564	0.00	

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Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

WELLPATH DATA (180 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	89.046	6815.00	1973.01	547.16	1941.92	40.5068266	-104.5781968	0.00	
8630.00†	90.000	89.046	6815.00	2072.90	548.83	2041.91	40.5068283	-104.5778372	0.00	
8730.00†	90.000	89.046	6815.00	2172.78	550.49	2141.90	40.5068300	-104.5774776	0.00	
8830.00†	90.000	89.046	6815.00	2272.67	552.16	2241.88	40.5068317	-104.5771180	0.00	
8930.00†	90.000	89.046	6815.00	2372.56	553.82	2341.87	40.5068335	-104.5767584	0.00	
9030.00†	90.000	89.046	6815.00	2472.45	555.49	2441.85	40.5068352	-104.5763988	0.00	
9130.00†	90.000	89.046	6815.00	2572.33	557.15	2541.84	40.5068369	-104.5760392	0.00	
9230.00†	90.000	89.046	6815.00	2672.22	558.82	2641.83	40.5068386	-104.5756796	0.00	
9330.00†	90.000	89.046	6815.00	2772.11	560.48	2741.81	40.5068403	-104.5753200	0.00	
9430.00†	90.000	89.046	6815.00	2871.99	562.14	2841.80	40.5068420	-104.5749604	0.00	
9530.00†	90.000	89.046	6815.00	2971.88	563.81	2941.78	40.5068437	-104.5746008	0.00	
9630.00†	90.000	89.046	6815.00	3071.77	565.47	3041.77	40.5068454	-104.5742412	0.00	
9730.00†	90.000	89.046	6815.00	3171.66	567.14	3141.76	40.5068471	-104.5738816	0.00	
9830.00†	90.000	89.046	6815.00	3271.54	568.80	3241.74	40.5068488	-104.5735220	0.00	
9930.00†	90.000	89.046	6815.00	3371.43	570.47	3341.73	40.5068505	-104.5731624	0.00	
10030.00†	90.000	89.046	6815.00	3471.32	572.13	3441.71	40.5068522	-104.5728028	0.00	
10130.00†	90.000	89.046	6815.00	3571.20	573.80	3541.70	40.5068539	-104.5724432	0.00	
10230.00†	90.000	89.046	6815.00	3671.09	575.46	3641.69	40.5068556	-104.5720836	0.00	
10330.00†	90.000	89.046	6815.00	3770.98	577.13	3741.67	40.5068573	-104.5717240	0.00	
10430.00†	90.000	89.046	6815.00	3870.87	578.79	3841.66	40.5068590	-104.5713644	0.00	
10530.00†	90.000	89.046	6815.00	3970.75	580.46	3941.65	40.5068607	-104.5710048	0.00	
10630.00†	90.000	89.046	6815.00	4070.64	582.12	4041.63	40.5068624	-104.5706452	0.00	
10730.00†	90.000	89.046	6815.00	4170.53	583.79	4141.62	40.5068641	-104.5702856	0.00	
10830.00†	90.000	89.046	6815.00	4270.41	585.45	4241.60	40.5068658	-104.5699260	0.00	
10930.00†	90.000	89.046	6815.00	4370.30	587.12	4341.59	40.5068675	-104.5695664	0.00	
11030.00†	90.000	89.046	6815.00	4470.19	588.78	4441.58	40.5068692	-104.5692068	0.00	
11130.00†	90.000	89.046	6815.00	4570.08	590.44	4541.56	40.5068708	-104.5688472	0.00	
11230.00†	90.000	89.046	6815.00	4669.96	592.11	4641.55	40.5068725	-104.5684876	0.00	
11330.00†	90.000	89.046	6815.00	4769.85	593.77	4741.53	40.5068742	-104.5681280	0.00	
11430.00†	90.000	89.046	6815.00	4869.74	595.44	4841.52	40.5068759	-104.5677684	0.00	
11530.00†	90.000	89.046	6815.00	4969.62	597.10	4941.51	40.5068776	-104.5674088	0.00	
11630.00†	90.000	89.046	6815.00	5069.51	598.77	5041.49	40.5068793	-104.5670492	0.00	
11730.00†	90.000	89.046	6815.00	5169.40	600.43	5141.48	40.5068809	-104.5666896	0.00	
11830.00†	90.000	89.046	6815.00	5269.29	602.10	5241.47	40.5068826	-104.5663300	0.00	
11930.00†	90.000	89.046	6815.00	5369.17	603.76	5341.45	40.5068843	-104.5659704	0.00	
12030.00†	90.000	89.046	6815.00	5469.06	605.43	5441.44	40.5068860	-104.5656108	0.00	
12130.00†	90.000	89.046	6815.00	5568.95	607.09	5541.42	40.5068877	-104.5652512	0.00	
12230.00†	90.000	89.046	6815.00	5668.83	608.76	5641.41	40.5068893	-104.5648916	0.00	
12330.00†	90.000	89.046	6815.00	5768.72	610.42	5741.40	40.5068910	-104.5645320	0.00	
12430.00†	90.000	89.046	6815.00	5868.61	612.09	5841.38	40.5068927	-104.5641724	0.00	
12530.00†	90.000	89.046	6815.00	5968.50	613.75	5941.37	40.5068944	-104.5638128	0.00	
12630.00†	90.000	89.046	6815.00	6068.38	615.42	6041.35	40.5068960	-104.5634532	0.00	
12730.00†	90.000	89.046	6815.00	6168.27	617.08	6141.34	40.5068977	-104.5630936	0.00	
12830.00†	90.000	89.046	6815.00	6268.16	618.74	6241.33	40.5068994	-104.5627340	0.00	
12930.00†	90.000	89.046	6815.00	6368.04	620.41	6341.31	40.5069010	-104.5623744	0.00	



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BISHOP A08-685 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	BISHOP A08-685
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A08-685 PWB
Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

WELLPATH DATA (180 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	89.046	6815.00	6467.93	622.07	6441.30	40.5069027	-104.5620148	0.00	
13130.00†	90.000	89.046	6815.00	6567.82	623.74	6541.29	40.5069044	-104.5616552	0.00	
13230.00†	90.000	89.046	6815.00	6667.71	625.40	6641.27	40.5069060	-104.5612956	0.00	
13330.00†	90.000	89.046	6815.00	6767.59	627.07	6741.26	40.5069077	-104.5609360	0.00	
13430.00†	90.000	89.046	6815.00	6867.48	628.73	6841.24	40.5069094	-104.5605764	0.00	
13530.00†	90.000	89.046	6815.00	6967.37	630.40	6941.23	40.5069110	-104.5602168	0.00	
13630.00†	90.000	89.046	6815.00	7067.25	632.06	7041.22	40.5069127	-104.5598572	0.00	
13730.00†	90.000	89.046	6815.00	7167.14	633.73	7141.20	40.5069143	-104.5594976	0.00	
13830.00†	90.000	89.046	6815.00	7267.03	635.39	7241.19	40.5069160	-104.5591380	0.00	
13930.00†	90.000	89.046	6815.00	7366.92	637.06	7341.17	40.5069177	-104.5587784	0.00	
14030.00†	90.000	89.046	6815.00	7466.80	638.72	7441.16	40.5069193	-104.5584188	0.00	
14130.00†	90.000	89.046	6815.00	7566.69	640.39	7541.15	40.5069210	-104.5580592	0.00	
14230.00†	90.000	89.046	6815.00	7666.58	642.05	7641.13	40.5069226	-104.5576995	0.00	
14330.00†	90.000	89.046	6815.00	7766.46	643.72	7741.12	40.5069243	-104.5573399	0.00	
14430.00†	90.000	89.046	6815.00	7866.35	645.38	7841.11	40.5069259	-104.5569803	0.00	
14530.00†	90.000	89.046	6815.00	7966.24	647.04	7941.09	40.5069276	-104.5566207	0.00	
14630.00†	90.000	89.046	6815.00	8066.13	648.71	8041.08	40.5069292	-104.5562611	0.00	
14730.00†	90.000	89.046	6815.00	8166.01	650.37	8141.06	40.5069309	-104.5559015	0.00	
14830.00†	90.000	89.046	6815.00	8265.90	652.04	8241.05	40.5069325	-104.5555419	0.00	
14930.00†	90.000	89.046	6815.00	8365.79	653.70	8341.04	40.5069342	-104.5551823	0.00	
15030.00†	90.000	89.046	6815.00	8465.67	655.37	8441.02	40.5069358	-104.5548227	0.00	
15130.00†	90.000	89.046	6815.00	8565.56	657.03	8541.01	40.5069374	-104.5544631	0.00	
15230.00†	90.000	89.046	6815.00	8665.45	658.70	8640.99	40.5069391	-104.5541035	0.00	
15330.00†	90.000	89.046	6815.00	8765.34	660.36	8740.98	40.5069407	-104.5537439	0.00	
15430.00†	90.000	89.046	6815.00	8865.22	662.03	8840.97	40.5069424	-104.5533843	0.00	
15530.00†	90.000	89.046	6815.00	8965.11	663.69	8940.95	40.5069440	-104.5530247	0.00	
15630.00†	90.000	89.046	6815.00	9065.00	665.36	9040.94	40.5069456	-104.5526651	0.00	
15730.00†	90.000	89.046	6815.00	9164.88	667.02	9140.93	40.5069473	-104.5523055	0.00	
15830.00†	90.000	89.046	6815.00	9264.77	668.69	9240.91	40.5069489	-104.5519459	0.00	
15930.00†	90.000	89.046	6815.00	9364.66	670.35	9340.90	40.5069506	-104.5515863	0.00	
16030.00†	90.000	89.046	6815.00	9464.55	672.02	9440.88	40.5069522	-104.5512267	0.00	
16130.00†	90.000	89.046	6815.00	9564.43	673.68	9540.87	40.5069538	-104.5508671	0.00	
16230.00†	90.000	89.046	6815.00	9664.32	675.34	9640.86	40.5069554	-104.5505075	0.00	
16330.00†	90.000	89.046	6815.00	9764.21	677.01	9740.84	40.5069571	-104.5501479	0.00	
16430.00†	90.000	89.046	6815.00	9864.09	678.67	9840.83	40.5069587	-104.5497883	0.00	
16530.00†	90.000	89.046	6815.00	9963.98	680.34	9940.81	40.5069603	-104.5494287	0.00	
16630.00†	90.000	89.046	6815.00	10063.87	682.00	10040.80	40.5069620	-104.5490691	0.00	
16730.00†	90.000	89.046	6815.00	10163.76	683.67	10140.79	40.5069636	-104.5487095	0.00	
16830.00†	90.000	89.046	6815.00	10263.64	685.33	10240.77	40.5069652	-104.5483499	0.00	
16930.00†	90.000	89.046	6815.00	10363.53	687.00	10340.76	40.5069668	-104.5479903	0.00	
17030.00†	90.000	89.046	6815.00	10463.42	688.66	10440.74	40.5069685	-104.5476307	0.00	
17130.00†	90.000	89.046	6815.00	10563.30	690.33	10540.73	40.5069701	-104.5472711	0.00	
17230.00†	90.000	89.046	6815.00	10663.19	691.99	10640.72	40.5069717	-104.5469115	0.00	
17330.00†	90.000	89.046	6815.00	10763.08	693.66	10740.70	40.5069733	-104.5465519	0.00	
17405.20	90.000	89.046	6815.00‡	10838.19	694.91	10815.89	40.5069745	-104.5462815	0.00	BHL

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A08-685
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A08-685 PWB
Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

HOLE & CASING SECTIONS - Ref Wellbore: BISHOP A08-685 PWB Ref Wellpath: BISHOP A08-685 (REV-A.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

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	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.08-T06N-R64W	N/A	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.09-T06N-R64W	N/A	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.16-T06N-R64W	N/A	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.17-T06N-R64W	N/A	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.18-T06N-R64W	N/A	0.00	0.00	0.00	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
2) BISHOP A08-685 BHL Rev-1 (350'FSL & 200'FEL,SEC.09)	17405.20	6815.00	694.91	10815.89	3265196.22	1428957.50	40.5069745	-104.5462815	point
1) BISHOP A08-685 LP Rev-1 (350'FNL & 200'FWL,SEC.08)	7206.43	6815.00	525.13	618.54	3254999.23	1428787.72	40.5068038	-104.5829563	point

SURVEY PROGRAM - Ref Wellbore: BISHOP A08-685 PWB Ref Wellpath: BISHOP A08-685 (REV-A.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 A08-685 PWB
1950.00	17405.20	OWSG MWD rev2 (MS+IFR1)		BISHOP A08-685 PWB



Planned Wellpath Report

BISHOP A08-685 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	BISHOP A08-685
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.07-T06N-R64W	Wellbore	BISHOP A08-685 PWB
Slot	SLOT#01 BISHOP A08-685 (861'FNL & 424'FEL,SEC.07)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	357.832	30.00	SHL
2000.00	0.000	357.832	2000.00	End of Tangent
2315.44	6.309	357.832	2314.80	Build (XS)
6204.95	6.309	357.832	6180.76	KOP
7206.43	90.000	89.046	6815.00	LP/TPZ
17405.20	90.000	89.046	6815.00	BHL