



Planned Wellpath Report

GABEL A12-668 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	GABEL A12-668
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Guenaler
Scale	0.999967	Report Generated	1/20/2023 at 1:31:01 PM
Convergence at slot	0.65° East	Database	WA_Denver

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-99.52	-101.77	3278821.30	1429106.16	40.5069700°	-104.4972800°
Facility Reference Pt			3278923.07	1429205.68	40.5072400°	-104.4969100°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

WELLPATH DATUM

Calculation method	Minimum curvature	(4720'GL+30'KB@4750'RKB) (RKB) to Facility Vertical Datum	4750.00ft
Horizontal Reference Pt	Slot	(4720'GL+30'KB@4750'RKB) (RKB) to Mean Sea Level	4750.00ft
Vertical Reference Pt	(4720'GL+30'KB@4750'RKB) (RKB)	(4720'GL+30'KB@4750'RKB) (RKB) to Ground Level at Slot (SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12))	4750.00ft
MD Reference Pt	(4720'GL+30'KB@4750'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	93.45°



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WELLPATH DATA (207 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	218.601	0.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
30.00	0.000	218.601	30.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	SHL
130.00†	0.000	218.601	130.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
230.00†	0.000	218.601	230.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
330.00†	0.000	218.601	330.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
430.00†	0.000	218.601	430.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
530.00†	0.000	218.601	530.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
630.00†	0.000	218.601	630.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
730.00†	0.000	218.601	730.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
830.00†	0.000	218.601	830.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
930.00†	0.000	218.601	930.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1030.00†	0.000	218.601	1030.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1130.00†	0.000	218.601	1130.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1230.00†	0.000	218.601	1230.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1330.00†	0.000	218.601	1330.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1430.00†	0.000	218.601	1430.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1530.00†	0.000	218.601	1530.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1630.00†	0.000	218.601	1630.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1730.00†	0.000	218.601	1730.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1830.00†	0.000	218.601	1830.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
1930.00†	0.000	218.601	1930.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	
2000.00	0.000	218.601	2000.00	0.00	0.00	0.00	40.5069700	-104.4972800	0.00	End of Tangent
2030.00†	0.600	218.601	2030.00	-0.09	-0.12	-0.10	40.5069697	-104.4972804	2.00	
2130.00†	2.600	218.601	2129.96	-1.70	-2.30	-1.84	40.5069637	-104.4972867	2.00	
2230.00†	4.600	218.601	2229.75	-5.31	-7.21	-5.76	40.5069504	-104.4973010	2.00	
2330.00†	6.600	218.601	2329.27	-10.93	-14.84	-11.84	40.5069296	-104.4973232	2.00	
2430.00†	8.600	218.601	2428.39	-18.54	-25.17	-20.10	40.5069015	-104.4973533	2.00	
2530.00†	10.600	218.601	2526.98	-28.14	-38.21	-30.50	40.5068661	-104.4973912	2.00	
2630.00†	12.600	218.601	2624.93	-39.72	-53.92	-43.04	40.5068233	-104.4974370	2.00	
2730.00†	14.600	218.601	2722.13	-53.26	-72.29	-57.71	40.5067734	-104.4974905	2.00	
2830.00†	16.600	218.601	2818.44	-68.74	-93.31	-74.49	40.5067162	-104.4975517	2.00	
2873.82	17.476	218.601	2860.34	-76.13	-103.35	-82.50	40.5066889	-104.4975809	2.00	Build (XS)
2930.00†	17.476	218.601	2913.92	-85.84	-116.53	-93.03	40.5066531	-104.4976192	0.00	
3030.00†	17.476	218.601	3009.30	-103.13	-140.00	-111.76	40.5065892	-104.4976876	0.00	
3130.00†	17.476	218.601	3104.69	-120.42	-163.47	-130.50	40.5065254	-104.4977559	0.00	
3230.00†	17.476	218.601	3200.07	-137.71	-186.94	-149.24	40.5064615	-104.4978242	0.00	
3330.00†	17.476	218.601	3295.46	-155.00	-210.41	-167.97	40.5063977	-104.4978926	0.00	
3430.00†	17.476	218.601	3390.84	-172.29	-233.88	-186.71	40.5063339	-104.4979609	0.00	
3530.00†	17.476	218.601	3486.22	-189.58	-257.35	-205.45	40.5062700	-104.4980292	0.00	
3630.00†	17.476	218.601	3581.61	-206.86	-280.82	-224.18	40.5062062	-104.4980975	0.00	
3730.00†	17.476	218.601	3676.99	-224.15	-304.29	-242.92	40.5061424	-104.4981659	0.00	
3830.00†	17.476	218.601	3772.38	-241.44	-327.76	-261.65	40.5060785	-104.4982342	0.00	
3930.00†	17.476	218.601	3867.76	-258.73	-351.23	-280.39	40.5060147	-104.4983025	0.00	
4030.00†	17.476	218.601	3963.14	-276.02	-374.70	-299.13	40.5059509	-104.4983708	0.00	
4130.00†	17.476	218.601	4058.53	-293.31	-398.17	-317.86	40.5058870	-104.4984392	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

WELLPATH DATA (207 stations) † = interpolated, ‡ = extrapolated station											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments	
4230.00†	17.476	218.601	4153.91	-310.60	-421.64	-336.60	40.5058232	-104.4985075	0.00		
4330.00†	17.476	218.601	4249.30	-327.89	-445.11	-355.34	40.5057593	-104.4985758	0.00		
4430.00†	17.476	218.601	4344.68	-345.18	-468.58	-374.07	40.5056955	-104.4986441	0.00		
4530.00†	17.476	218.601	4440.06	-362.47	-492.05	-392.81	40.5056317	-104.4987125	0.00		
4630.00†	17.476	218.601	4535.45	-379.76	-515.52	-411.55	40.5055678	-104.4987808	0.00		
4730.00†	17.476	218.601	4630.83	-397.04	-538.99	-430.28	40.5055040	-104.4988491	0.00		
4830.00†	17.476	218.601	4726.22	-414.33	-562.46	-449.02	40.5054402	-104.4989174	0.00		
4930.00†	17.476	218.601	4821.60	-431.62	-585.93	-467.75	40.5053763	-104.4989858	0.00		
5030.00†	17.476	218.601	4916.98	-448.91	-609.40	-486.49	40.5053125	-104.4990541	0.00		
5130.00†	17.476	218.601	5012.37	-466.20	-632.87	-505.23	40.5052487	-104.4991224	0.00		
5230.00†	17.476	218.601	5107.75	-483.49	-656.34	-523.96	40.5051848	-104.4991907	0.00		
5330.00†	17.476	218.601	5203.14	-500.78	-679.81	-542.70	40.5051210	-104.4992591	0.00		
5430.00†	17.476	218.601	5298.52	-518.07	-703.28	-561.44	40.5050571	-104.4993274	0.00		
5530.00†	17.476	218.601	5393.90	-535.36	-726.75	-580.17	40.5049933	-104.4993957	0.00		
5630.00†	17.476	218.601	5489.29	-552.65	-750.22	-598.91	40.5049295	-104.4994640	0.00		
5730.00†	17.476	218.601	5584.67	-569.94	-773.69	-617.65	40.5048656	-104.4995323	0.00		
5830.00†	17.476	218.601	5680.06	-587.22	-797.16	-636.38	40.5048018	-104.4996007	0.00		
5930.00†	17.476	218.601	5775.44	-604.51	-820.63	-655.12	40.5047380	-104.4996690	0.00		
6030.00†	17.476	218.601	5870.82	-621.80	-844.10	-673.85	40.5046741	-104.4997373	0.00		
6130.00†	17.476	218.601	5966.21	-639.09	-867.57	-692.59	40.5046103	-104.4998056	0.00		
6183.33	17.476	218.601	6017.07	-648.31	-880.08	-702.58	40.5045762	-104.4998421	0.00		KOP
6230.00†	15.207	205.984	6061.87	-654.69	-891.07	-709.64	40.5045463	-104.4998679	9.00		
6330.00†	13.744	169.854	6158.89	-656.93	-914.60	-713.30	40.5044818	-104.4998820	9.00		
6430.00†	17.479	138.860	6255.35	-643.57	-937.65	-701.30	40.5044182	-104.4998398	9.00		
6530.00†	24.104	121.428	6348.87	-614.93	-959.65	-673.94	40.5043570	-104.4997423	9.00		
6630.00†	31.864	111.615	6437.16	-571.73	-980.06	-631.89	40.5042996	-104.4995920	9.00		
6730.00†	40.102	105.411	6518.04	-515.03	-998.38	-576.19	40.5042476	-104.4993924	9.00		
6830.00†	48.574	101.048	6589.51	-446.21	-1014.16	-508.21	40.5042022	-104.4991486	9.00		
6930.00†	57.173	97.704	6649.82	-366.99	-1027.00	-429.61	40.5041645	-104.4988665	9.00		
7030.00†	65.844	94.957	6697.49	-279.30	-1036.60	-342.35	40.5041355	-104.4985531	9.00		
7130.00†	74.558	92.563	6731.33	-185.31	-1042.71	-248.55	40.5041158	-104.4982161	9.00		
7230.00†	83.296	90.363	6750.52	-87.34	-1045.18	-150.55	40.5041060	-104.4978638	9.00		
7306.64	90.000	88.735	6755.00 ¹	-11.05	-1044.58	-74.08	40.5041053	-104.4975889	9.00		LP/TPZ
7330.00†	90.000	88.735	6755.00	12.23	-1044.06	-50.73	40.5041060	-104.4975049	0.00		
7430.00†	90.000	88.735	6755.00	111.89	-1041.85	49.24	40.5041089	-104.4971453	0.00		
7530.00†	90.000	88.735	6755.00	211.55	-1039.64	149.22	40.5041119	-104.4967857	0.00		
7630.00†	90.000	88.735	6755.00	311.21	-1037.44	249.19	40.5041148	-104.4964262	0.00		
7730.00†	90.000	88.735	6755.00	410.87	-1035.23	349.17	40.5041178	-104.4960666	0.00		
7830.00†	90.000	88.735	6755.00	510.53	-1033.02	449.14	40.5041207	-104.4957070	0.00		
7930.00†	90.000	88.735	6755.00	610.20	-1030.81	549.12	40.5041237	-104.4953474	0.00		
8030.00†	90.000	88.735	6755.00	709.86	-1028.61	649.10	40.5041266	-104.4949879	0.00		
8130.00†	90.000	88.735	6755.00	809.52	-1026.40	749.07	40.5041296	-104.4946283	0.00		
8230.00†	90.000	88.735	6755.00	909.18	-1024.19	849.05	40.5041325	-104.4942687	0.00		
8330.00†	90.000	88.735	6755.00	1008.84	-1021.98	949.02	40.5041355	-104.4939092	0.00		
8430.00†	90.000	88.735	6755.00	1108.50	-1019.78	1049.00	40.5041384	-104.4935496	0.00		



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8530.00†	90.000	88.735	6755.00	1208.16	-1017.57	1148.97	40.5041414	-104.4931900	0.00	
8630.00†	90.000	88.735	6755.00	1307.82	-1015.36	1248.95	40.5041443	-104.4928304	0.00	
8730.00†	90.000	88.735	6755.00	1407.49	-1013.15	1348.92	40.5041473	-104.4924709	0.00	
8830.00†	90.000	88.735	6755.00	1507.15	-1010.94	1448.90	40.5041502	-104.4921113	0.00	
8930.00†	90.000	88.735	6755.00	1606.81	-1008.74	1548.88	40.5041531	-104.4917517	0.00	
9030.00†	90.000	88.735	6755.00	1706.47	-1006.53	1648.85	40.5041561	-104.4913922	0.00	
9130.00†	90.000	88.735	6755.00	1806.13	-1004.32	1748.83	40.5041590	-104.4910326	0.00	
9230.00†	90.000	88.735	6755.00	1905.79	-1002.11	1848.80	40.5041620	-104.4906730	0.00	
9330.00†	90.000	88.735	6755.00	2005.45	-999.91	1948.78	40.5041649	-104.4903134	0.00	
9430.00†	90.000	88.735	6755.00	2105.11	-997.70	2048.75	40.5041678	-104.4899539	0.00	
9530.00†	90.000	88.735	6755.00	2204.78	-995.49	2148.73	40.5041708	-104.4895943	0.00	
9630.00†	90.000	88.735	6755.00	2304.44	-993.28	2248.71	40.5041737	-104.4892347	0.00	
9730.00†	90.000	88.735	6755.00	2404.10	-991.08	2348.68	40.5041766	-104.4888751	0.00	
9830.00†	90.000	88.735	6755.00	2503.76	-988.87	2448.66	40.5041795	-104.4885156	0.00	
9930.00†	90.000	88.735	6755.00	2603.42	-986.66	2548.63	40.5041825	-104.4881560	0.00	
10030.00†	90.000	88.735	6755.00	2703.08	-984.45	2648.61	40.5041854	-104.4877964	0.00	
10130.00†	90.000	88.735	6755.00	2802.74	-982.24	2748.58	40.5041883	-104.4874369	0.00	
10230.00†	90.000	88.735	6755.00	2902.40	-980.04	2848.56	40.5041913	-104.4870773	0.00	
10330.00†	90.000	88.735	6755.00	3002.07	-977.83	2948.53	40.5041942	-104.4867177	0.00	
10430.00†	90.000	88.735	6755.00	3101.73	-975.62	3048.51	40.5041971	-104.4863581	0.00	
10530.00†	90.000	88.735	6755.00	3201.39	-973.41	3148.49	40.5042000	-104.4859986	0.00	
10630.00†	90.000	88.735	6755.00	3301.05	-971.21	3248.46	40.5042029	-104.4856390	0.00	
10730.00†	90.000	88.735	6755.00	3400.71	-969.00	3348.44	40.5042059	-104.4852794	0.00	
10830.00†	90.000	88.735	6755.00	3500.37	-966.79	3448.41	40.5042088	-104.4849198	0.00	
10930.00†	90.000	88.735	6755.00	3600.03	-964.58	3548.39	40.5042117	-104.4845603	0.00	
11030.00†	90.000	88.735	6755.00	3699.69	-962.38	3648.36	40.5042146	-104.4842007	0.00	
11130.00†	90.000	88.735	6755.00	3799.36	-960.17	3748.34	40.5042175	-104.4838411	0.00	
11230.00†	90.000	88.735	6755.00	3899.02	-957.96	3848.32	40.5042205	-104.4834816	0.00	
11330.00†	90.000	88.735	6755.00	3998.68	-955.75	3948.29	40.5042234	-104.4831220	0.00	
11430.00†	90.000	88.735	6755.00	4098.34	-953.54	4048.27	40.5042263	-104.4827624	0.00	
11530.00†	90.000	88.735	6755.00	4198.00	-951.34	4148.24	40.5042292	-104.4824028	0.00	
11630.00†	90.000	88.735	6755.00	4297.66	-949.13	4248.22	40.5042321	-104.4820433	0.00	
11730.00†	90.000	88.735	6755.00	4397.32	-946.92	4348.19	40.5042350	-104.4816837	0.00	
11830.00†	90.000	88.735	6755.00	4496.98	-944.71	4448.17	40.5042379	-104.4813241	0.00	
11930.00†	90.000	88.735	6755.00	4596.65	-942.51	4548.14	40.5042408	-104.4809645	0.00	
12030.00†	90.000	88.735	6755.00	4696.31	-940.30	4648.12	40.5042437	-104.4806050	0.00	
12130.00†	90.000	88.735	6755.00	4795.97	-938.09	4748.10	40.5042466	-104.4802454	0.00	
12230.00†	90.000	88.735	6755.00	4895.63	-935.88	4848.07	40.5042495	-104.4798858	0.00	
12330.00†	90.000	88.735	6755.00	4995.29	-933.68	4948.05	40.5042524	-104.4795262	0.00	
12430.00†	90.000	88.735	6755.00	5094.95	-931.47	5048.02	40.5042553	-104.4791667	0.00	
12530.00†	90.000	88.735	6755.00	5194.61	-929.26	5148.00	40.5042582	-104.4788071	0.00	
12630.00†	90.000	88.735	6755.00	5294.27	-927.05	5247.97	40.5042611	-104.4784475	0.00	
12730.00†	90.000	88.735	6755.00	5393.94	-924.84	5347.95	40.5042640	-104.4780880	0.00	
12830.00†	90.000	88.735	6755.00	5493.60	-922.64	5447.93	40.5042669	-104.4777284	0.00	
12930.00†	90.000	88.735	6755.00	5593.26	-920.43	5547.90	40.5042698	-104.4773688	0.00	



Planned Wellpath Report

GABEL A12-668 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	GABEL A12-668
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

WELLPATH DATA (207 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	88.735	6755.00	5692.92	-918.22	5647.88	40.5042727	-104.4770092	0.00	
13130.00†	90.000	88.735	6755.00	5792.58	-916.01	5747.85	40.5042756	-104.4766497	0.00	
13230.00†	90.000	88.735	6755.00	5892.24	-913.81	5847.83	40.5042785	-104.4762901	0.00	
13330.00†	90.000	88.735	6755.00	5991.90	-911.60	5947.80	40.5042814	-104.4759305	0.00	
13430.00†	90.000	88.735	6755.00	6091.56	-909.39	6047.78	40.5042843	-104.4755709	0.00	
13530.00†	90.000	88.735	6755.00	6191.23	-907.18	6147.75	40.5042872	-104.4752114	0.00	
13630.00†	90.000	88.735	6755.00	6290.89	-904.98	6247.73	40.5042901	-104.4748518	0.00	
13730.00†	90.000	88.735	6755.00	6390.55	-902.77	6347.71	40.5042929	-104.4744922	0.00	
13830.00†	90.000	88.735	6755.00	6490.21	-900.56	6447.68	40.5042958	-104.4741326	0.00	
13930.00†	90.000	88.735	6755.00	6589.87	-898.35	6547.66	40.5042987	-104.4737731	0.00	
14030.00†	90.000	88.735	6755.00	6689.53	-896.14	6647.63	40.5043016	-104.4734135	0.00	
14130.00†	90.000	88.735	6755.00	6789.19	-893.94	6747.61	40.5043045	-104.4730539	0.00	
14230.00†	90.000	88.735	6755.00	6888.86	-891.73	6847.58	40.5043074	-104.4726944	0.00	
14330.00†	90.000	88.735	6755.00	6988.52	-889.52	6947.56	40.5043102	-104.4723348	0.00	
14430.00†	90.000	88.735	6755.00	7088.18	-887.31	7047.54	40.5043131	-104.4719752	0.00	
14530.00†	90.000	88.735	6755.00	7187.84	-885.11	7147.51	40.5043160	-104.4716156	0.00	
14630.00†	90.000	88.735	6755.00	7287.50	-882.90	7247.49	40.5043189	-104.4712561	0.00	
14730.00†	90.000	88.735	6755.00	7387.16	-880.69	7347.46	40.5043217	-104.4708965	0.00	
14830.00†	90.000	88.735	6755.00	7486.82	-878.48	7447.44	40.5043246	-104.4705369	0.00	
14930.00†	90.000	88.735	6755.00	7586.48	-876.28	7547.41	40.5043275	-104.4701773	0.00	
15030.00†	90.000	88.735	6755.00	7686.15	-874.07	7647.39	40.5043304	-104.4698178	0.00	
15130.00†	90.000	88.735	6755.00	7785.81	-871.86	7747.36	40.5043332	-104.4694582	0.00	
15230.00†	90.000	88.735	6755.00	7885.47	-869.65	7847.34	40.5043361	-104.4690986	0.00	
15330.00†	90.000	88.735	6755.00	7985.13	-867.44	7947.32	40.5043390	-104.4687390	0.00	
15430.00†	90.000	88.735	6755.00	8084.79	-865.24	8047.29	40.5043418	-104.4683795	0.00	
15530.00†	90.000	88.735	6755.00	8184.45	-863.03	8147.27	40.5043447	-104.4680199	0.00	
15630.00†	90.000	88.735	6755.00	8284.11	-860.82	8247.24	40.5043476	-104.4676603	0.00	
15730.00†	90.000	88.735	6755.00	8383.77	-858.61	8347.22	40.5043504	-104.4673007	0.00	
15830.00†	90.000	88.735	6755.00	8483.44	-856.41	8447.19	40.5043533	-104.4669412	0.00	
15930.00†	90.000	88.735	6755.00	8583.10	-854.20	8547.17	40.5043562	-104.4665816	0.00	
16030.00†	90.000	88.735	6755.00	8682.76	-851.99	8647.15	40.5043590	-104.4662220	0.00	
16130.00†	90.000	88.735	6755.00	8782.42	-849.78	8747.12	40.5043619	-104.4658624	0.00	
16230.00†	90.000	88.735	6755.00	8882.08	-847.58	8847.10	40.5043647	-104.4655029	0.00	
16330.00†	90.000	88.735	6755.00	8981.74	-845.37	8947.07	40.5043676	-104.4651433	0.00	
16430.00†	90.000	88.735	6755.00	9081.40	-843.16	9047.05	40.5043705	-104.4647837	0.00	
16530.00†	90.000	88.735	6755.00	9181.06	-840.95	9147.02	40.5043733	-104.4644241	0.00	
16630.00†	90.000	88.735	6755.00	9280.73	-838.75	9247.00	40.5043762	-104.4640646	0.00	
16730.00†	90.000	88.735	6755.00	9380.39	-836.54	9346.97	40.5043790	-104.4637050	0.00	
16830.00†	90.000	88.735	6755.00	9480.05	-834.33	9446.95	40.5043819	-104.4633454	0.00	
16930.00†	90.000	88.735	6755.00	9579.71	-832.12	9546.93	40.5043847	-104.4629858	0.00	
17030.00†	90.000	88.735	6755.00	9679.37	-829.91	9646.90	40.5043876	-104.4626263	0.00	
17130.00†	90.000	88.735	6755.00	9779.03	-827.71	9746.88	40.5043904	-104.4622667	0.00	
17230.00†	90.000	88.735	6755.00	9878.69	-825.50	9846.85	40.5043933	-104.4619071	0.00	
17330.00†	90.000	88.735	6755.00	9978.35	-823.29	9946.83	40.5043961	-104.4615475	0.00	
17430.00†	90.000	88.735	6755.00	10078.02	-821.08	10046.80	40.5043990	-104.4611880	0.00	



Planned Wellpath Report

GABEL A12-668 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	GABEL A12-668
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

WELLPATH DATA (207 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17530.00†	90.000	88.735	6755.00	10177.68	-818.88	10146.78	40.5044018	-104.4608284	0.00	
17630.00†	90.000	88.735	6755.00	10277.34	-816.67	10246.76	40.5044046	-104.4604688	0.00	
17730.00†	90.000	88.735	6755.00	10377.00	-814.46	10346.73	40.5044075	-104.4601092	0.00	
17830.00†	90.000	88.735	6755.00	10476.66	-812.25	10446.71	40.5044103	-104.4597497	0.00	
17930.00†	90.000	88.735	6755.00	10576.32	-810.05	10546.68	40.5044132	-104.4593901	0.00	
18030.00†	90.000	88.735	6755.00	10675.98	-807.84	10646.66	40.5044160	-104.4590305	0.00	
18130.00†	90.000	88.735	6755.00	10775.64	-805.63	10746.63	40.5044188	-104.4586709	0.00	
18230.00†	90.000	88.735	6755.00	10875.31	-803.42	10846.61	40.5044217	-104.4583114	0.00	
18330.00†	90.000	88.735	6755.00	10974.97	-801.21	10946.58	40.5044245	-104.4579518	0.00	
18430.00†	90.000	88.735	6755.00	11074.63	-799.01	11046.56	40.5044273	-104.4575922	0.00	
18530.00†	90.000	88.735	6755.00	11174.29	-796.80	11146.54	40.5044302	-104.4572326	0.00	
18630.00†	90.000	88.735	6755.00	11273.95	-794.59	11246.51	40.5044330	-104.4568731	0.00	
18730.00†	90.000	88.735	6755.00	11373.61	-792.38	11346.49	40.5044358	-104.4565135	0.00	
18830.00†	90.000	88.735	6755.00	11473.27	-790.18	11446.46	40.5044387	-104.4561539	0.00	
18930.00†	90.000	88.735	6755.00	11572.93	-787.97	11546.44	40.5044415	-104.4557943	0.00	
19030.00†	90.000	88.735	6755.00	11672.60	-785.76	11646.41	40.5044443	-104.4554348	0.00	
19130.00†	90.000	88.735	6755.00	11772.26	-783.55	11746.39	40.5044472	-104.4550752	0.00	
19230.00†	90.000	88.735	6755.00	11871.92	-781.35	11846.37	40.5044500	-104.4547156	0.00	
19330.00†	90.000	88.735	6755.00	11971.58	-779.14	11946.34	40.5044528	-104.4543560	0.00	
19430.00†	90.000	88.735	6755.00	12071.24	-776.93	12046.32	40.5044556	-104.4539965	0.00	
19530.00†	90.000	88.735	6755.00	12170.90	-774.72	12146.29	40.5044585	-104.4536369	0.00	
19630.00†	90.000	88.735	6755.00	12270.56	-772.51	12246.27	40.5044613	-104.4532773	0.00	
19730.00†	90.000	88.735	6755.00	12370.22	-770.31	12346.24	40.5044641	-104.4529177	0.00	
19830.00†	90.000	88.735	6755.00	12469.89	-768.10	12446.22	40.5044669	-104.4525582	0.00	
19930.00†	90.000	88.735	6755.00	12569.55	-765.89	12546.19	40.5044697	-104.4521986	0.00	
20030.00†	90.000	88.735	6755.00	12669.21	-763.68	12646.17	40.5044725	-104.4518390	0.00	
20039.52	90.000	88.735	6755.00 [‡]	12678.70	-763.47	12655.69	40.5044728	-104.4518048	0.00	BHL

HOLE & CASING SECTIONS - Ref Wellbore: GABEL A12-668 PWB Ref Wellpath: GABEL A12-668 (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

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	GABEL A12-668
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OGPD 2 SEC. 07-T07N-R63W	N/A	-4.00	99.52	101.77	3278923.07	1429205.68	40.5072400	-104.4969100	polygon
	2D Polygon: dimensions not calculated								
OGPD 2 SEC. 08-T07N-R63W	N/A	-4.00	99.52	101.77	3278923.07	1429205.68	40.5072400	-104.4969100	polygon
	2D Polygon: dimensions not calculated								
OGPD 2 SEC.12-T06N-R64W	N/A	-4.00	99.52	101.77	3278923.07	1429205.68	40.5072400	-104.4969100	polygon
	2D Polygon: dimensions not calculated								
2) GABEL A12-668 BHL Rev-1 (1440'FSL & 200'FEL,SEC.08)	20039.52	6755.00	-763.47	12655.69	3291476.55	1428342.71	40.5044728	-104.4518048	point
1) GABEL A12-668 LP Rev-1 (1433'FNL & 2444'FEL,SEC.12)	7306.64	6755.00	-1044.58	-74.08	3278747.22	1428061.62	40.5041053	-104.4975889	point

SURVEY PROGRAM - Ref Wellbore: GABEL A12-668 PWB Ref Wellpath: GABEL A12-668 (REV-A.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	20039.52	OWSG MWD rev2 (MS+IFR1)		GABEL A12-668 PWB



Planned Wellpath Report

GABEL A12-668 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	GABEL A12-668
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.12-T06N-R64W	Wellbore	GABEL A12-668 PWB
Slot	SLOT#06 GABEL A12-668 (389'FNL & 2358'FEL,SEC.12)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	218.601	30.00	SHL
2000.00	0.000	218.601	2000.00	End of Tangent
2873.82	17.476	218.601	2860.34	Build (XS)
6183.33	17.476	218.601	6017.07	KOP
7306.64	90.000	88.735	6755.00	LP/TPZ
20039.52	90.000	88.735	6755.00	BHL