





# Planned Wellpath Report

Foose State A17-675 (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-675
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-675 PWB
Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'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	0.999965	Report Generated	1/13/2023 at 5:41:18 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	0.37	36.16	3253956.05	1420891.60	40.4851600°	-104.5870000°
Facility Reference Pt			3253919.89	1420891.22	40.4851600°	-104.5871300°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

## WELLPATH DATUM

Calculation method	Minimum curvature	(4702'GL+30'KB@4732'RKB) (RKB) to Facility Vertical Datum	4732.00ft
Horizontal Reference Pt	Slot	(4702'GL+30'KB@4732'RKB) (RKB) to Mean Sea Level	4732.00ft
Vertical Reference Pt	(4702'GL+30'KB@4732'RKB) (RKB)	(4702'GL+30'KB@4732'RKB) (RKB) to Ground Level at Slot (SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18))	4732.00ft
MD Reference Pt	(4702'GL+30'KB@4732'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	79.31°



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WELLPATH DATA (184 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	15.006	0.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
30.00	0.000	15.006	30.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	SHL
130.00†	0.000	15.006	130.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
230.00†	0.000	15.006	230.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
330.00†	0.000	15.006	330.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
430.00†	0.000	15.006	430.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
530.00†	0.000	15.006	530.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
630.00†	0.000	15.006	630.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
730.00†	0.000	15.006	730.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
830.00†	0.000	15.006	830.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
930.00†	0.000	15.006	930.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1030.00†	0.000	15.006	1030.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1130.00†	0.000	15.006	1130.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1230.00†	0.000	15.006	1230.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1330.00†	0.000	15.006	1330.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1430.00†	0.000	15.006	1430.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1530.00†	0.000	15.006	1530.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1630.00†	0.000	15.006	1630.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1730.00†	0.000	15.006	1730.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1830.00†	0.000	15.006	1830.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
1930.00†	0.000	15.006	1930.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	
2000.00	0.000	15.006	2000.00	0.00	0.00	0.00	40.4851600	-104.5870000	0.00	End of Tangent
2030.00†	0.600	15.006	2030.00	0.07	0.15	0.04	40.4851604	-104.5869998	2.00	
2130.00†	2.600	15.006	2129.96	1.28	2.85	0.76	40.4851678	-104.5869971	2.00	
2230.00†	4.600	15.006	2229.75	4.00	8.91	2.39	40.4851844	-104.5869911	2.00	
2330.00†	6.600	15.006	2329.27	8.23	18.34	4.92	40.4852102	-104.5869817	2.00	
2430.00†	8.600	15.006	2428.39	13.97	31.11	8.34	40.4852452	-104.5869689	2.00	
2530.00†	10.600	15.006	2526.98	21.20	47.22	12.66	40.4852892	-104.5869528	2.00	
2630.00†	12.600	15.006	2624.93	29.92	66.64	17.86	40.4853424	-104.5869333	2.00	
2730.00†	14.600	15.006	2722.13	40.12	89.35	23.95	40.4854046	-104.5869106	2.00	
2830.00†	16.600	15.006	2818.44	51.78	115.33	30.91	40.4854757	-104.5868846	2.00	
2930.00†	18.600	15.006	2913.75	64.89	144.53	38.74	40.4855556	-104.5868554	2.00	
3030.00†	20.600	15.006	3007.95	79.44	176.93	47.43	40.4856443	-104.5868230	2.00	
3130.00†	22.600	15.006	3100.93	95.40	212.48	56.96	40.4857416	-104.5867874	2.00	
3230.00†	24.600	15.006	3192.56	112.76	251.15	67.32	40.4858474	-104.5867487	2.00	
3303.22	26.064	15.006	3258.73	126.34	281.41	75.43	40.4859303	-104.5867184	2.00	Build (XS)
3330.00†	26.064	15.006	3282.79	131.45	292.78	78.48	40.4859614	-104.5867070	0.00	
3430.00†	26.064	15.006	3372.62	150.50	335.22	89.86	40.4860775	-104.5866646	0.00	
3530.00†	26.064	15.006	3462.45	169.56	377.66	101.23	40.4861937	-104.5866221	0.00	
3630.00†	26.064	15.006	3552.28	188.61	420.10	112.61	40.4863099	-104.5865796	0.00	
3730.00†	26.064	15.006	3642.11	207.66	462.54	123.99	40.4864260	-104.5865372	0.00	
3830.00†	26.064	15.006	3731.94	226.72	504.98	135.36	40.4865422	-104.5864947	0.00	
3930.00†	26.064	15.006	3821.77	245.77	547.41	146.74	40.4866583	-104.5864522	0.00	
4030.00†	26.064	15.006	3911.60	264.83	589.85	158.12	40.4867745	-104.5864098	0.00	
4130.00†	26.064	15.006	4001.43	283.88	632.29	169.49	40.4868907	-104.5863673	0.00	



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Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18)		

WELLPATH DATA (184 stations) † = interpolated, ‡ = extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4230.00†	26.064	15.006	4091.26	302.94	674.73	180.87	40.4870068	-104.5863248	0.00	
4330.00†	26.064	15.006	4181.09	321.99	717.17	192.25	40.4871230	-104.5862824	0.00	
4430.00†	26.064	15.006	4270.92	341.04	759.61	203.62	40.4872392	-104.5862399	0.00	
4530.00†	26.064	15.006	4360.75	360.10	802.05	215.00	40.4873553	-104.5861974	0.00	
4630.00†	26.064	15.006	4450.58	379.15	844.49	226.37	40.4874715	-104.5861550	0.00	
4730.00†	26.064	15.006	4540.41	398.21	886.93	237.75	40.4875877	-104.5861125	0.00	
4830.00†	26.064	15.006	4630.24	417.26	929.37	249.13	40.4877038	-104.5860700	0.00	
4930.00†	26.064	15.006	4720.07	436.31	971.81	260.50	40.4878200	-104.5860276	0.00	
5030.00†	26.064	15.006	4809.90	455.37	1014.25	271.88	40.4879361	-104.5859851	0.00	
5130.00†	26.064	15.006	4899.73	474.42	1056.69	283.26	40.4880523	-104.5859426	0.00	
5230.00†	26.064	15.006	4989.56	493.48	1099.13	294.63	40.4881685	-104.5859001	0.00	
5330.00†	26.064	15.006	5079.39	512.53	1141.57	306.01	40.4882846	-104.5858577	0.00	
5430.00†	26.064	15.006	5169.22	531.59	1184.01	317.39	40.4884008	-104.5858152	0.00	
5530.00†	26.064	15.006	5259.05	550.64	1226.45	328.76	40.4885170	-104.5857727	0.00	
5630.00†	26.064	15.006	5348.88	569.69	1268.89	340.14	40.4886331	-104.5857303	0.00	
5730.00†	26.064	15.006	5438.71	588.75	1311.33	351.51	40.4887493	-104.5856878	0.00	
5830.00†	26.064	15.006	5528.54	607.80	1353.77	362.89	40.4888654	-104.5856453	0.00	
5930.00†	26.064	15.006	5618.37	626.86	1396.21	374.27	40.4889816	-104.5856029	0.00	
6030.00†	26.064	15.006	5708.20	645.91	1438.65	385.64	40.4890978	-104.5855604	0.00	
6130.00†	26.064	15.006	5798.03	664.96	1481.09	397.02	40.4892139	-104.5855179	0.00	
6230.00†	26.064	15.006	5887.86	684.02	1523.53	408.40	40.4893301	-104.5854754	0.00	
6330.00†	26.064	15.006	5977.70	703.07	1565.97	419.77	40.4894463	-104.5854330	0.00	
6430.00†	26.064	15.006	6067.53	722.13	1608.41	431.15	40.4895624	-104.5853905	0.00	
6530.00†	26.064	15.006	6157.36	741.18	1650.85	442.53	40.4896786	-104.5853480	0.00	
6630.00†	26.064	15.006	6247.19	760.23	1693.29	453.90	40.4897947	-104.5853056	0.00	
6730.00†	26.064	15.006	6337.02	779.29	1735.72	465.28	40.4899109	-104.5852631	0.00	
6744.22	26.064	15.006	6349.79	782.00	1741.76	466.90	40.4899274	-104.5852571	0.00	KOP
6830.00†	28.879	30.648	6425.99	803.89	1777.84	482.36	40.4900260	-104.5852001	9.00	
6930.00†	33.980	44.937	6511.41	842.98	1818.48	514.47	40.4901366	-104.5850832	9.00	
7030.00†	40.323	55.553	6591.16	895.77	1856.64	560.99	40.4902401	-104.5849145	9.00	
7130.00†	47.405	63.592	6663.26	960.95	1891.38	620.76	40.4903337	-104.5846984	9.00	
7230.00†	54.932	69.941	6725.96	1036.92	1921.85	692.31	40.4904153	-104.5844400	9.00	
7330.00†	62.733	75.195	6777.70	1121.80	1947.30	773.89	40.4904829	-104.5841458	9.00	
7430.00†	70.705	79.750	6817.21	1213.51	1967.09	863.48	40.4905347	-104.5838230	9.00	
7530.00†	78.778	83.877	6843.52	1309.79	1980.75	958.88	40.4905694	-104.5834795	9.00	
7630.00†	86.905	87.777	6855.97	1408.26	1987.93	1057.74	40.4905863	-104.5831238	9.00	
7668.01	90.000	89.235	6857.00	1445.76	1988.92	1095.72	40.4905880	-104.5829873	9.00	LP/TPZ
7730.00†	90.000	89.235	6857.00	1506.82	1989.75	1157.70	40.4905885	-104.5827644	0.00	
7830.00†	90.000	89.235	6857.00	1605.33	1991.08	1257.69	40.4905893	-104.5824049	0.00	
7930.00†	90.000	89.235	6857.00	1703.83	1992.42	1357.68	40.4905901	-104.5820454	0.00	
8030.00†	90.000	89.235	6857.00	1802.33	1993.75	1457.67	40.4905910	-104.5816858	0.00	
8130.00†	90.000	89.235	6857.00	1900.83	1995.09	1557.67	40.4905918	-104.5813263	0.00	
8230.00†	90.000	89.235	6857.00	1999.33	1996.42	1657.66	40.4905926	-104.5809668	0.00	
8330.00†	90.000	89.235	6857.00	2097.84	1997.76	1757.65	40.4905934	-104.5806073	0.00	
8430.00†	90.000	89.235	6857.00	2196.34	1999.09	1857.64	40.4905942	-104.5802478	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-675 PWB
Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18)		

## WELLPATH DATA (184 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	89.235	6857.00	2294.84	2000.43	1957.63	40.4905950	-104.5798883	0.00	
8630.00†	90.000	89.235	6857.00	2393.34	2001.76	2057.62	40.4905959	-104.5795287	0.00	
8730.00†	90.000	89.235	6857.00	2491.84	2003.09	2157.61	40.4905967	-104.5791692	0.00	
8830.00†	90.000	89.235	6857.00	2590.35	2004.43	2257.60	40.4905975	-104.5788097	0.00	
8930.00†	90.000	89.235	6857.00	2688.85	2005.76	2357.59	40.4905983	-104.5784502	0.00	
9030.00†	90.000	89.235	6857.00	2787.35	2007.10	2457.59	40.4905991	-104.5780907	0.00	
9130.00†	90.000	89.235	6857.00	2885.85	2008.43	2557.58	40.4905999	-104.5777311	0.00	
9230.00†	90.000	89.235	6857.00	2984.35	2009.77	2657.57	40.4906007	-104.5773716	0.00	
9330.00†	90.000	89.235	6857.00	3082.86	2011.10	2757.56	40.4906015	-104.5770121	0.00	
9430.00†	90.000	89.235	6857.00	3181.36	2012.44	2857.55	40.4906023	-104.5766526	0.00	
9530.00†	90.000	89.235	6857.00	3279.86	2013.77	2957.54	40.4906031	-104.5762931	0.00	
9630.00†	90.000	89.235	6857.00	3378.36	2015.11	3057.53	40.4906039	-104.5759335	0.00	
9730.00†	90.000	89.235	6857.00	3476.87	2016.44	3157.52	40.4906047	-104.5755740	0.00	
9830.00†	90.000	89.235	6857.00	3575.37	2017.77	3257.51	40.4906056	-104.5752145	0.00	
9930.00†	90.000	89.235	6857.00	3673.87	2019.11	3357.50	40.4906063	-104.5748550	0.00	
10030.00†	90.000	89.235	6857.00	3772.37	2020.44	3457.50	40.4906071	-104.5744955	0.00	
10130.00†	90.000	89.235	6857.00	3870.87	2021.78	3557.49	40.4906079	-104.5741359	0.00	
10230.00†	90.000	89.235	6857.00	3969.38	2023.11	3657.48	40.4906087	-104.5737764	0.00	
10330.00†	90.000	89.235	6857.00	4067.88	2024.45	3757.47	40.4906095	-104.5734169	0.00	
10430.00†	90.000	89.235	6857.00	4166.38	2025.78	3857.46	40.4906103	-104.5730574	0.00	
10530.00†	90.000	89.235	6857.00	4264.88	2027.12	3957.45	40.4906111	-104.5726979	0.00	
10630.00†	90.000	89.235	6857.00	4363.38	2028.45	4057.44	40.4906119	-104.5723384	0.00	
10730.00†	90.000	89.235	6857.00	4461.89	2029.78	4157.43	40.4906127	-104.5719788	0.00	
10830.00†	90.000	89.235	6857.00	4560.39	2031.12	4257.42	40.4906135	-104.5716193	0.00	
10930.00†	90.000	89.235	6857.00	4658.89	2032.45	4357.42	40.4906143	-104.5712598	0.00	
11030.00†	90.000	89.235	6857.00	4757.39	2033.79	4457.41	40.4906151	-104.5709003	0.00	
11130.00†	90.000	89.235	6857.00	4855.89	2035.12	4557.40	40.4906159	-104.5705408	0.00	
11230.00†	90.000	89.235	6857.00	4954.40	2036.46	4657.39	40.4906166	-104.5701812	0.00	
11330.00†	90.000	89.235	6857.00	5052.90	2037.79	4757.38	40.4906174	-104.5698217	0.00	
11430.00†	90.000	89.235	6857.00	5151.40	2039.13	4857.37	40.4906182	-104.5694622	0.00	
11530.00†	90.000	89.235	6857.00	5249.90	2040.46	4957.36	40.4906190	-104.5691027	0.00	
11630.00†	90.000	89.235	6857.00	5348.40	2041.79	5057.35	40.4906198	-104.5687432	0.00	
11730.00†	90.000	89.235	6857.00	5446.91	2043.13	5157.34	40.4906206	-104.5683836	0.00	
11830.00†	90.000	89.235	6857.00	5545.41	2044.46	5257.34	40.4906213	-104.5680241	0.00	
11930.00†	90.000	89.235	6857.00	5643.91	2045.80	5357.33	40.4906221	-104.5676646	0.00	
12030.00†	90.000	89.235	6857.00	5742.41	2047.13	5457.32	40.4906229	-104.5673051	0.00	
12130.00†	90.000	89.235	6857.00	5840.91	2048.47	5557.31	40.4906237	-104.5669456	0.00	
12230.00†	90.000	89.235	6857.00	5939.42	2049.80	5657.30	40.4906244	-104.5665861	0.00	
12330.00†	90.000	89.235	6857.00	6037.92	2051.14	5757.29	40.4906252	-104.5662265	0.00	
12430.00†	90.000	89.235	6857.00	6136.42	2052.47	5857.28	40.4906260	-104.5658670	0.00	
12530.00†	90.000	89.235	6857.00	6234.92	2053.81	5957.27	40.4906268	-104.5655075	0.00	
12630.00†	90.000	89.235	6857.00	6333.42	2055.14	6057.26	40.4906275	-104.5651480	0.00	
12730.00†	90.000	89.235	6857.00	6431.93	2056.47	6157.26	40.4906283	-104.5647885	0.00	
12830.00†	90.000	89.235	6857.00	6530.43	2057.81	6257.25	40.4906291	-104.5644289	0.00	
12930.00†	90.000	89.235	6857.00	6628.93	2059.14	6357.24	40.4906298	-104.5640694	0.00	



# Planned Wellpath Report

Foose State A17-675 (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-675
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-675 PWB
Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18)		

## WELLPATH DATA (184 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	89.235	6857.00	6727.43	2060.48	6457.23	40.4906306	-104.5637099	0.00	
13130.00†	90.000	89.235	6857.00	6825.94	2061.81	6557.22	40.4906314	-104.5633504	0.00	
13230.00†	90.000	89.235	6857.00	6924.44	2063.15	6657.21	40.4906321	-104.5629909	0.00	
13330.00†	90.000	89.235	6857.00	7022.94	2064.48	6757.20	40.4906329	-104.5626313	0.00	
13430.00†	90.000	89.235	6857.00	7121.44	2065.82	6857.19	40.4906336	-104.5622718	0.00	
13530.00†	90.000	89.235	6857.00	7219.94	2067.15	6957.18	40.4906344	-104.5619123	0.00	
13630.00†	90.000	89.235	6857.00	7318.45	2068.48	7057.18	40.4906352	-104.5615528	0.00	
13730.00†	90.000	89.235	6857.00	7416.95	2069.82	7157.17	40.4906359	-104.5611933	0.00	
13830.00†	90.000	89.235	6857.00	7515.45	2071.15	7257.16	40.4906367	-104.5608337	0.00	
13930.00†	90.000	89.235	6857.00	7613.95	2072.49	7357.15	40.4906374	-104.5604742	0.00	
14030.00†	90.000	89.235	6857.00	7712.45	2073.82	7457.14	40.4906382	-104.5601147	0.00	
14130.00†	90.000	89.235	6857.00	7810.96	2075.16	7557.13	40.4906389	-104.5597552	0.00	
14230.00†	90.000	89.235	6857.00	7909.46	2076.49	7657.12	40.4906397	-104.5593957	0.00	
14330.00†	90.000	89.235	6857.00	8007.96	2077.83	7757.11	40.4906404	-104.5590361	0.00	
14430.00†	90.000	89.235	6857.00	8106.46	2079.16	7857.10	40.4906412	-104.5586766	0.00	
14530.00†	90.000	89.235	6857.00	8204.96	2080.49	7957.10	40.4906419	-104.5583171	0.00	
14630.00†	90.000	89.235	6857.00	8303.47	2081.83	8057.09	40.4906427	-104.5579576	0.00	
14730.00†	90.000	89.235	6857.00	8401.97	2083.16	8157.08	40.4906434	-104.5575981	0.00	
14830.00†	90.000	89.235	6857.00	8500.47	2084.50	8257.07	40.4906442	-104.5572386	0.00	
14930.00†	90.000	89.235	6857.00	8598.97	2085.83	8357.06	40.4906449	-104.5568790	0.00	
15030.00†	90.000	89.235	6857.00	8697.47	2087.17	8457.05	40.4906457	-104.5565195	0.00	
15130.00†	90.000	89.235	6857.00	8795.98	2088.50	8557.04	40.4906464	-104.5561600	0.00	
15230.00†	90.000	89.235	6857.00	8894.48	2089.84	8657.03	40.4906472	-104.5558005	0.00	
15330.00†	90.000	89.235	6857.00	8992.98	2091.17	8757.02	40.4906479	-104.5554410	0.00	
15430.00†	90.000	89.235	6857.00	9091.48	2092.50	8857.02	40.4906486	-104.5550814	0.00	
15530.00†	90.000	89.235	6857.00	9189.98	2093.84	8957.01	40.4906494	-104.5547219	0.00	
15630.00†	90.000	89.235	6857.00	9288.49	2095.17	9057.00	40.4906501	-104.5543624	0.00	
15730.00†	90.000	89.235	6857.00	9386.99	2096.51	9156.99	40.4906508	-104.5540029	0.00	
15830.00†	90.000	89.235	6857.00	9485.49	2097.84	9256.98	40.4906516	-104.5536434	0.00	
15930.00†	90.000	89.235	6857.00	9583.99	2099.18	9356.97	40.4906523	-104.5532838	0.00	
16030.00†	90.000	89.235	6857.00	9682.49	2100.51	9456.96	40.4906530	-104.5529243	0.00	
16130.00†	90.000	89.235	6857.00	9781.00	2101.85	9556.95	40.4906538	-104.5525648	0.00	
16230.00†	90.000	89.235	6857.00	9879.50	2103.18	9656.94	40.4906545	-104.5522053	0.00	
16330.00†	90.000	89.235	6857.00	9978.00	2104.52	9756.93	40.4906552	-104.5518458	0.00	
16430.00†	90.000	89.235	6857.00	10076.50	2105.85	9856.93	40.4906560	-104.5514862	0.00	
16530.00†	90.000	89.235	6857.00	10175.01	2107.18	9956.92	40.4906567	-104.5511267	0.00	
16630.00†	90.000	89.235	6857.00	10273.51	2108.52	10056.91	40.4906574	-104.5507672	0.00	
16730.00†	90.000	89.235	6857.00	10372.01	2109.85	10156.90	40.4906581	-104.5504077	0.00	
16830.00†	90.000	89.235	6857.00	10470.51	2111.19	10256.89	40.4906589	-104.5500482	0.00	
16930.00†	90.000	89.235	6857.00	10569.01	2112.52	10356.88	40.4906596	-104.5496886	0.00	
17030.00†	90.000	89.235	6857.00	10667.52	2113.86	10456.87	40.4906603	-104.5493291	0.00	
17130.00†	90.000	89.235	6857.00	10766.02	2115.19	10556.86	40.4906610	-104.5489696	0.00	
17230.00†	90.000	89.235	6857.00	10864.52	2116.53	10656.85	40.4906617	-104.5486101	0.00	
17330.00†	90.000	89.235	6857.00	10963.02	2117.86	10756.85	40.4906625	-104.5482506	0.00	
17430.00†	90.000	89.235	6857.00	11061.52	2119.19	10856.84	40.4906632	-104.5478911	0.00	

## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-675
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-675 PWB
Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18)		

## WELLPATH DATA (184 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	89.235	6857.00	11160.03	2120.53	10956.83	40.4906639	-104.5475315	0.00	
17630.00†	90.000	89.235	6857.00	11258.53	2121.86	11056.82	40.4906646	-104.5471720	0.00	
17730.00†	90.000	89.235	6857.00	11357.03	2123.20	11156.81	40.4906653	-104.5468125	0.00	
17822.75	90.000	89.235	6857.00‡	11448.39	2124.44	11249.55	40.4906660	-104.5464790	0.00	BHL

## HOLE & CASING SECTIONS - Ref Wellbore: Foose State A17-675 PWB Ref Wellpath: Foose State A17-675 (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.16-T06N-R64W	N/A	-40.00	7371.29	424.69	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.17-T06N-R64W	N/A	-40.00	7371.29	424.69	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.18-T06N-R64W	N/A	-40.00	7371.29	424.69	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
2) Foose State A17-675 BHL Rev-1 (991'FSL & 200'FEL,SEC.16)	17822.75	6857.00	2124.44	11249.55	3265205.19	1423015.95	40.4906660	-104.5464790	point
1) Foose State A17-675 LP Rev-1 (985'FNL & 200'FWL,SEC.17)	7668.01	6857.00	1988.92	1095.72	3255051.72	1422880.45	40.4905880	-104.5829873	point

## SURVEY PROGRAM - Ref Wellbore: Foose State A17-675 PWB Ref Wellpath: Foose State A17-675 (REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	17822.75	OWSG MWD rev2 (MS+IFR1)		Foose State A17-675 PWB



# Planned Wellpath Report

Foose State A17-675 (REV-A.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Foose State A17-675
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-675 PWB
Slot	SLOT#02 Foose State A17-675 (2351'FSL & 912'FEL,SEC.18)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	15.006	30.00	SHL
2000.00	0.000	15.006	2000.00	End of Tangent
3303.22	26.064	15.006	3258.73	Build (XS)
6744.22	26.064	15.006	6349.79	KOP
7668.01	90.000	89.235	6857.00	LP/TPZ
17822.75	90.000	89.235	6857.00	BHL