





# Planned Wellpath Report

Foose State A17-656 (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-656
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'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 5:41:27 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	1.15	111.26	3254031.15	1420892.37	40.4851600°	-104.5867300°
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	(4703'GL+30'KB@4733'RKB) (RKB) to Facility Vertical Datum	4733.00ft
Horizontal Reference Pt	Slot	(4703'GL+30'KB@4733'RKB) (RKB) to Mean Sea Level	4733.00ft
Vertical Reference Pt	(4703'GL+30'KB@4733'RKB) (RKB)	(4703'GL+30'KB@4733'RKB) (RKB) to Ground Level at Slot (SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18))	4733.00ft
MD Reference Pt	(4703'GL+30'KB@4733'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	85.69°



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Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

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	32.613	0.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
30.00	0.000	32.613	30.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	SHL
130.00†	0.000	32.613	130.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
230.00†	0.000	32.613	230.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
330.00†	0.000	32.613	330.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
430.00†	0.000	32.613	430.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
530.00†	0.000	32.613	530.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
630.00†	0.000	32.613	630.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
730.00†	0.000	32.613	730.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
830.00†	0.000	32.613	830.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
930.00†	0.000	32.613	930.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1030.00†	0.000	32.613	1030.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1130.00†	0.000	32.613	1130.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1230.00†	0.000	32.613	1230.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1330.00†	0.000	32.613	1330.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1430.00†	0.000	32.613	1430.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1530.00†	0.000	32.613	1530.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1630.00†	0.000	32.613	1630.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1730.00†	0.000	32.613	1730.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1830.00†	0.000	32.613	1830.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
1930.00†	0.000	32.613	1930.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	
2000.00	0.000	32.613	2000.00	0.00	0.00	0.00	40.4851600	-104.5867300	0.00	End of Tangent
2030.00†	0.600	32.613	2030.00	0.09	0.13	0.08	40.4851604	-104.5867297	2.00	
2130.00†	2.600	32.613	2129.96	1.77	2.48	1.59	40.4851668	-104.5867242	2.00	
2230.00†	4.600	32.613	2229.75	5.54	7.77	4.97	40.4851812	-104.5867118	2.00	
2330.00†	6.600	32.613	2329.27	11.40	15.99	10.23	40.4852036	-104.5866926	2.00	
2430.00†	8.600	32.613	2428.39	19.35	27.13	17.36	40.4852340	-104.5866666	2.00	
2520.32	10.406	32.613	2517.46	28.30	39.69	25.40	40.4852682	-104.5866372	2.00	Build (XS)
2530.00†	10.406	32.613	2526.98	29.36	41.17	26.34	40.4852722	-104.5866338	0.00	
2630.00†	10.406	32.613	2625.34	40.21	56.38	36.07	40.4853137	-104.5865982	0.00	
2730.00†	10.406	32.613	2723.70	51.06	71.60	45.81	40.4853552	-104.5865627	0.00	
2830.00†	10.406	32.613	2822.05	61.90	86.81	55.54	40.4853967	-104.5865271	0.00	
2930.00†	10.406	32.613	2920.41	72.75	102.02	65.28	40.4854382	-104.5864916	0.00	
3030.00†	10.406	32.613	3018.76	83.60	117.24	75.02	40.4854797	-104.5864560	0.00	
3130.00†	10.406	32.613	3117.12	94.45	132.45	84.75	40.4855212	-104.5864204	0.00	
3230.00†	10.406	32.613	3215.47	105.30	147.67	94.49	40.4855626	-104.5863849	0.00	
3330.00†	10.406	32.613	3313.83	116.15	162.88	104.22	40.4856041	-104.5863493	0.00	
3430.00†	10.406	32.613	3412.18	127.00	178.10	113.96	40.4856456	-104.5863138	0.00	
3530.00†	10.406	32.613	3510.54	137.85	193.31	123.69	40.4856871	-104.5862782	0.00	
3630.00†	10.406	32.613	3608.89	148.70	208.53	133.43	40.4857286	-104.5862426	0.00	
3730.00†	10.406	32.613	3707.25	159.55	223.74	143.16	40.4857701	-104.5862071	0.00	
3830.00†	10.406	32.613	3805.60	170.40	238.96	152.90	40.4858116	-104.5861715	0.00	
3930.00†	10.406	32.613	3903.96	181.25	254.17	162.63	40.4858530	-104.5861360	0.00	
4030.00†	10.406	32.613	4002.31	192.10	269.39	172.37	40.4858945	-104.5861004	0.00	
4130.00†	10.406	32.613	4100.67	202.95	284.60	182.10	40.4859360	-104.5860648	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

## 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†	10.406	32.613	4199.02	213.80	299.82	191.84	40.4859775	-104.5860293	0.00	
4330.00†	10.406	32.613	4297.38	224.65	315.03	201.57	40.4860190	-104.5859937	0.00	
4430.00†	10.406	32.613	4395.73	235.50	330.25	211.31	40.4860605	-104.5859582	0.00	
4530.00†	10.406	32.613	4494.09	246.35	345.46	221.04	40.4861019	-104.5859226	0.00	
4630.00†	10.406	32.613	4592.44	257.20	360.68	230.78	40.4861434	-104.5858870	0.00	
4730.00†	10.406	32.613	4690.80	268.05	375.89	240.51	40.4861849	-104.5858515	0.00	
4830.00†	10.406	32.613	4789.15	278.90	391.11	250.25	40.4862264	-104.5858159	0.00	
4930.00†	10.406	32.613	4887.51	289.75	406.32	259.98	40.4862679	-104.5857804	0.00	
5030.00†	10.406	32.613	4985.86	300.60	421.54	269.72	40.4863094	-104.5857448	0.00	
5130.00†	10.406	32.613	5084.22	311.45	436.75	279.45	40.4863509	-104.5857093	0.00	
5230.00†	10.406	32.613	5182.57	322.30	451.97	289.19	40.4863923	-104.5856737	0.00	
5330.00†	10.406	32.613	5280.93	333.15	467.18	298.92	40.4864338	-104.5856381	0.00	
5430.00†	10.406	32.613	5379.28	344.00	482.40	308.66	40.4864753	-104.5856026	0.00	
5530.00†	10.406	32.613	5477.64	354.85	497.61	318.39	40.4865168	-104.5855670	0.00	
5630.00†	10.406	32.613	5575.99	365.70	512.83	328.13	40.4865583	-104.5855315	0.00	
5730.00†	10.406	32.613	5674.35	376.55	528.04	337.87	40.4865998	-104.5854959	0.00	
5830.00†	10.406	32.613	5772.70	387.40	543.26	347.60	40.4866413	-104.5854603	0.00	
5930.00†	10.406	32.613	5871.06	398.25	558.47	357.34	40.4866827	-104.5854248	0.00	
6030.00†	10.406	32.613	5969.41	409.10	573.69	367.07	40.4867242	-104.5853892	0.00	
6130.00†	10.406	32.613	6067.77	419.95	588.90	376.81	40.4867657	-104.5853537	0.00	
6230.00†	10.406	32.613	6166.12	430.80	604.12	386.54	40.4868072	-104.5853181	0.00	
6330.00†	10.406	32.613	6264.48	441.65	619.33	396.28	40.4868487	-104.5852825	0.00	
6357.14	10.406	32.613	6291.17	444.60	623.46	398.92	40.4868599	-104.5852729	0.00	KOP
6430.00†	15.002	54.360	6362.27	456.62	634.51	410.14	40.4868899	-104.5852321	9.00	
6530.00†	22.895	67.989	6456.82	486.26	649.37	438.75	40.4869299	-104.5851287	9.00	
6630.00†	31.369	74.718	6545.76	530.44	663.55	481.98	40.4869676	-104.5849728	9.00	
6730.00†	40.055	78.780	6626.89	588.05	676.70	538.77	40.4870021	-104.5847682	9.00	
6830.00†	48.840	81.588	6698.21	657.68	688.49	607.71	40.4870325	-104.5845199	9.00	
6930.00†	57.676	83.725	6757.98	737.62	698.64	687.11	40.4870581	-104.5842341	9.00	
7030.00†	66.542	85.479	6804.71	825.90	706.89	775.02	40.4870783	-104.5839178	9.00	
7130.00†	75.425	87.011	6837.27	920.34	713.04	869.26	40.4870925	-104.5835788	9.00	
7230.00†	84.318	88.423	6854.83	1018.61	716.94	967.52	40.4871004	-104.5832254	9.00	
7293.88	90.000	89.298	6858.00 <sup>1</sup>	1082.29	718.21	1031.28	40.4871021	-104.5829961	9.00	LP/TPZ
7330.00†	90.000	89.298	6858.00	1118.34	718.65	1067.40	40.4871023	-104.5828663	0.00	
7430.00†	90.000	89.298	6858.00	1218.14	719.88	1167.39	40.4871028	-104.5825068	0.00	
7530.00†	90.000	89.298	6858.00	1317.94	721.10	1267.39	40.4871033	-104.5821473	0.00	
7630.00†	90.000	89.298	6858.00	1417.75	722.33	1367.38	40.4871038	-104.5817878	0.00	
7730.00†	90.000	89.298	6858.00	1517.55	723.55	1467.37	40.4871043	-104.5814283	0.00	
7830.00†	90.000	89.298	6858.00	1617.35	724.78	1567.36	40.4871049	-104.5810688	0.00	
7930.00†	90.000	89.298	6858.00	1717.15	726.00	1667.36	40.4871054	-104.5807093	0.00	
8030.00†	90.000	89.298	6858.00	1816.96	727.23	1767.35	40.4871059	-104.5803498	0.00	
8130.00†	90.000	89.298	6858.00	1916.76	728.45	1867.34	40.4871064	-104.5799903	0.00	
8230.00†	90.000	89.298	6858.00	2016.56	729.68	1967.33	40.4871069	-104.5796308	0.00	
8330.00†	90.000	89.298	6858.00	2116.36	730.91	2067.33	40.4871074	-104.5792713	0.00	
8430.00†	90.000	89.298	6858.00	2216.17	732.13	2167.32	40.4871080	-104.5789118	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

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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	89.298	6858.00	2315.97	733.36	2267.31	40.4871085	-104.5785523	0.00	
8630.00†	90.000	89.298	6858.00	2415.77	734.58	2367.30	40.4871090	-104.5781928	0.00	
8730.00†	90.000	89.298	6858.00	2515.57	735.81	2467.30	40.4871095	-104.5778332	0.00	
8830.00†	90.000	89.298	6858.00	2615.37	737.03	2567.29	40.4871100	-104.5774737	0.00	
8930.00†	90.000	89.298	6858.00	2715.18	738.26	2667.28	40.4871105	-104.5771142	0.00	
9030.00†	90.000	89.298	6858.00	2814.98	739.48	2767.27	40.4871110	-104.5767547	0.00	
9130.00†	90.000	89.298	6858.00	2914.78	740.71	2867.27	40.4871115	-104.5763952	0.00	
9230.00†	90.000	89.298	6858.00	3014.58	741.93	2967.26	40.4871120	-104.5760357	0.00	
9330.00†	90.000	89.298	6858.00	3114.39	743.16	3067.25	40.4871125	-104.5756762	0.00	
9430.00†	90.000	89.298	6858.00	3214.19	744.39	3167.24	40.4871130	-104.5753167	0.00	
9530.00†	90.000	89.298	6858.00	3313.99	745.61	3267.24	40.4871135	-104.5749572	0.00	
9630.00†	90.000	89.298	6858.00	3413.79	746.84	3367.23	40.4871140	-104.5745977	0.00	
9730.00†	90.000	89.298	6858.00	3513.60	748.06	3467.22	40.4871145	-104.5742382	0.00	
9830.00†	90.000	89.298	6858.00	3613.40	749.29	3567.21	40.4871150	-104.5738787	0.00	
9930.00†	90.000	89.298	6858.00	3713.20	750.51	3667.21	40.4871155	-104.5735192	0.00	
10030.00†	90.000	89.298	6858.00	3813.00	751.74	3767.20	40.4871160	-104.5731597	0.00	
10130.00†	90.000	89.298	6858.00	3912.80	752.96	3867.19	40.4871165	-104.5728002	0.00	
10230.00†	90.000	89.298	6858.00	4012.61	754.19	3967.18	40.4871170	-104.5724407	0.00	
10330.00†	90.000	89.298	6858.00	4112.41	755.41	4067.18	40.4871175	-104.5720812	0.00	
10430.00†	90.000	89.298	6858.00	4212.21	756.64	4167.17	40.4871180	-104.5717217	0.00	
10530.00†	90.000	89.298	6858.00	4312.01	757.86	4267.16	40.4871185	-104.5713622	0.00	
10630.00†	90.000	89.298	6858.00	4411.82	759.09	4367.15	40.4871190	-104.5710027	0.00	
10730.00†	90.000	89.298	6858.00	4511.62	760.32	4467.15	40.4871195	-104.5706432	0.00	
10830.00†	90.000	89.298	6858.00	4611.42	761.54	4567.14	40.4871199	-104.5702837	0.00	
10930.00†	90.000	89.298	6858.00	4711.22	762.77	4667.13	40.4871204	-104.5699242	0.00	
11030.00†	90.000	89.298	6858.00	4811.03	763.99	4767.12	40.4871209	-104.5695647	0.00	
11130.00†	90.000	89.298	6858.00	4910.83	765.22	4867.12	40.4871214	-104.5692052	0.00	
11230.00†	90.000	89.298	6858.00	5010.63	766.44	4967.11	40.4871219	-104.5688457	0.00	
11330.00†	90.000	89.298	6858.00	5110.43	767.67	5067.10	40.4871224	-104.5684862	0.00	
11430.00†	90.000	89.298	6858.00	5210.24	768.89	5167.09	40.4871228	-104.5681267	0.00	
11530.00†	90.000	89.298	6858.00	5310.04	770.12	5267.09	40.4871233	-104.5677672	0.00	
11630.00†	90.000	89.298	6858.00	5409.84	771.34	5367.08	40.4871238	-104.5674077	0.00	
11730.00†	90.000	89.298	6858.00	5509.64	772.57	5467.07	40.4871243	-104.5670482	0.00	
11830.00†	90.000	89.298	6858.00	5609.44	773.80	5567.06	40.4871247	-104.5666887	0.00	
11930.00†	90.000	89.298	6858.00	5709.25	775.02	5667.06	40.4871252	-104.5663292	0.00	
12030.00†	90.000	89.298	6858.00	5809.05	776.25	5767.05	40.4871257	-104.5659697	0.00	
12130.00†	90.000	89.298	6858.00	5908.85	777.47	5867.04	40.4871262	-104.5656102	0.00	
12230.00†	90.000	89.298	6858.00	6008.65	778.70	5967.03	40.4871266	-104.5652507	0.00	
12330.00†	90.000	89.298	6858.00	6108.46	779.92	6067.03	40.4871271	-104.5648912	0.00	
12430.00†	90.000	89.298	6858.00	6208.26	781.15	6167.02	40.4871276	-104.5645317	0.00	
12530.00†	90.000	89.298	6858.00	6308.06	782.37	6267.01	40.4871280	-104.5641722	0.00	
12630.00†	90.000	89.298	6858.00	6407.86	783.60	6367.00	40.4871285	-104.5638127	0.00	
12730.00†	90.000	89.298	6858.00	6507.67	784.82	6467.00	40.4871290	-104.5634532	0.00	
12830.00†	90.000	89.298	6858.00	6607.47	786.05	6566.99	40.4871294	-104.5630937	0.00	
12930.00†	90.000	89.298	6858.00	6707.27	787.28	6666.98	40.4871299	-104.5627342	0.00	



# Planned Wellpath Report

Foose State A17-656 (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-656
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

## 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	89.298	6858.00	6807.07	788.50	6766.97	40.4871304	-104.5623747	0.00	
13130.00†	90.000	89.298	6858.00	6906.87	789.73	6866.97	40.4871308	-104.5620152	0.00	
13230.00†	90.000	89.298	6858.00	7006.68	790.95	6966.96	40.4871313	-104.5616557	0.00	
13330.00†	90.000	89.298	6858.00	7106.48	792.18	7066.95	40.4871317	-104.5612962	0.00	
13430.00†	90.000	89.298	6858.00	7206.28	793.40	7166.94	40.4871322	-104.5609367	0.00	
13530.00†	90.000	89.298	6858.00	7306.08	794.63	7266.94	40.4871327	-104.5605772	0.00	
13630.00†	90.000	89.298	6858.00	7405.89	795.85	7366.93	40.4871331	-104.5602177	0.00	
13730.00†	90.000	89.298	6858.00	7505.69	797.08	7466.92	40.4871336	-104.5598582	0.00	
13830.00†	90.000	89.298	6858.00	7605.49	798.30	7566.91	40.4871340	-104.5594987	0.00	
13930.00†	90.000	89.298	6858.00	7705.29	799.53	7666.91	40.4871345	-104.5591392	0.00	
14030.00†	90.000	89.298	6858.00	7805.10	800.75	7766.90	40.4871349	-104.5587797	0.00	
14130.00†	90.000	89.298	6858.00	7904.90	801.98	7866.89	40.4871354	-104.5584202	0.00	
14230.00†	90.000	89.298	6858.00	8004.70	803.21	7966.88	40.4871358	-104.5580607	0.00	
14330.00†	90.000	89.298	6858.00	8104.50	804.43	8066.88	40.4871363	-104.5577012	0.00	
14430.00†	90.000	89.298	6858.00	8204.31	805.66	8166.87	40.4871367	-104.5573417	0.00	
14530.00†	90.000	89.298	6858.00	8304.11	806.88	8266.86	40.4871372	-104.5569822	0.00	
14630.00†	90.000	89.298	6858.00	8403.91	808.11	8366.85	40.4871376	-104.5566227	0.00	
14730.00†	90.000	89.298	6858.00	8503.71	809.33	8466.85	40.4871380	-104.5562632	0.00	
14830.00†	90.000	89.298	6858.00	8603.51	810.56	8566.84	40.4871385	-104.5559037	0.00	
14930.00†	90.000	89.298	6858.00	8703.32	811.78	8666.83	40.4871389	-104.5555442	0.00	
15030.00†	90.000	89.298	6858.00	8803.12	813.01	8766.82	40.4871394	-104.5551847	0.00	
15130.00†	90.000	89.298	6858.00	8902.92	814.23	8866.82	40.4871398	-104.5548252	0.00	
15230.00†	90.000	89.298	6858.00	9002.72	815.46	8966.81	40.4871402	-104.5544657	0.00	
15330.00†	90.000	89.298	6858.00	9102.53	816.69	9066.80	40.4871407	-104.5541062	0.00	
15430.00†	90.000	89.298	6858.00	9202.33	817.91	9166.79	40.4871411	-104.5537467	0.00	
15530.00†	90.000	89.298	6858.00	9302.13	819.14	9266.79	40.4871415	-104.5533872	0.00	
15630.00†	90.000	89.298	6858.00	9401.93	820.36	9366.78	40.4871420	-104.5530277	0.00	
15730.00†	90.000	89.298	6858.00	9501.74	821.59	9466.77	40.4871424	-104.5526682	0.00	
15830.00†	90.000	89.298	6858.00	9601.54	822.81	9566.76	40.4871428	-104.5523087	0.00	
15930.00†	90.000	89.298	6858.00	9701.34	824.04	9666.76	40.4871433	-104.5519492	0.00	
16030.00†	90.000	89.298	6858.00	9801.14	825.26	9766.75	40.4871437	-104.5515896	0.00	
16130.00†	90.000	89.298	6858.00	9900.94	826.49	9866.74	40.4871441	-104.5512301	0.00	
16230.00†	90.000	89.298	6858.00	10000.75	827.71	9966.73	40.4871446	-104.5508706	0.00	
16330.00†	90.000	89.298	6858.00	10100.55	828.94	10066.73	40.4871450	-104.5505111	0.00	
16430.00†	90.000	89.298	6858.00	10200.35	830.16	10166.72	40.4871454	-104.5501516	0.00	
16530.00†	90.000	89.298	6858.00	10300.15	831.39	10266.71	40.4871458	-104.5497921	0.00	
16630.00†	90.000	89.298	6858.00	10399.96	832.62	10366.70	40.4871462	-104.5494326	0.00	
16730.00†	90.000	89.298	6858.00	10499.76	833.84	10466.70	40.4871467	-104.5490731	0.00	
16830.00†	90.000	89.298	6858.00	10599.56	835.07	10566.69	40.4871471	-104.5487136	0.00	
16930.00†	90.000	89.298	6858.00	10699.36	836.29	10666.68	40.4871475	-104.5483541	0.00	
17030.00†	90.000	89.298	6858.00	10799.17	837.52	10766.67	40.4871479	-104.5479946	0.00	
17130.00†	90.000	89.298	6858.00	10898.97	838.74	10866.67	40.4871483	-104.5476351	0.00	
17230.00†	90.000	89.298	6858.00	10998.77	839.97	10966.66	40.4871488	-104.5472756	0.00	
17330.00†	90.000	89.298	6858.00	11098.57	841.19	11066.65	40.4871492	-104.5469161	0.00	
17430.00†	90.000	89.298	6858.00	11198.38	842.42	11166.64	40.4871496	-104.5465566	0.00	

**REFERENCE WELLPATH IDENTIFICATION**

Operator	NOBLE ENERGY, INC	Well	Foose State A17-656
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

**WELLPATH DATA (181 stations)**

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17458.07	90.000	89.298	6858.00 <sup>2</sup>	11226.39	842.76	11194.72	40.4871497	-104.5464557	0.00	BHL

**HOLE & CASING SECTIONS - Ref Wellbore: Foose State A17-656 PWB    Ref Wellpath: Foose State A17-656 (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	-39.00	7370.51	349.58	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.17-T06N-R64W	N/A	-39.00	7370.51	349.58	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
OGDP 1 SEC.18-T06N-R64W	N/A	-39.00	7370.51	349.58	3254380.72	1428262.61	40.5053800	-104.5852000	polygon
2D Polygon: dimensions not calculated									
2) Foose State A17-656 BHL Rev-1 (2272'FSL & 200'FEL,SEC.16)	17458.07	6858.00	842.76	11194.72	3265225.45	1421735.10	40.4871497	-104.5464557	point
1) Foose State A17-656 LP Rev-1 (2255'FNL & 200'FWL,SEC.17)	7293.88	6858.00	718.21	1031.28	3255062.39	1421610.55	40.4871021	-104.5829961	point

**SURVEY PROGRAM - Ref Wellbore: Foose State A17-656 PWB    Ref Wellpath: Foose State A17-656 (REV-A.0) PWP**

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	17458.07	OWSG MWD rev2 (MS+IFR1)		Foose State A17-656 PWB



# Planned Wellpath Report

Foose State A17-656 (REV-A.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Foose State A17-656
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-656 PWB
Slot	SLOT#04 Foose State A17-656 (2350'FSL & 837'FEL,SEC.18)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	32.613	30.00	SHL
2000.00	0.000	32.613	2000.00	End of Tangent
2520.32	10.406	32.613	2517.46	Build (XS)
6357.14	10.406	32.613	6291.17	KOP
7293.88	90.000	89.298	6858.00	LP/TPZ
17458.07	90.000	89.298	6858.00	BHL