



Planned Wellpath Report

Foose State A17-637 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-637
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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 6:07:53 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	1.92	186.36	3254106.24	1420893.14	40.4851600°	-104.5864600°
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	(4704'GL+30'KB@4734'RKB) (RKB) to Facility Vertical Datum	4734.00ft
Horizontal Reference Pt	Slot	(4704'GL+30'KB@4734'RKB) (RKB) to Mean Sea Level	4734.00ft
Vertical Reference Pt	(4704'GL+30'KB@4734'RKB) (RKB)	(4704'GL+30'KB@4734'RKB) (RKB) to Ground Level at Slot (SLOT#06 Foose State A17-637 (2349'FSL & 762'FEL,SEC.18))	4734.00ft
MD Reference Pt	(4704'GL+30'KB@4734'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	92.28°



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Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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	145.865	0.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
30.00	0.000	145.865	30.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	SHL
130.00†	0.000	145.865	130.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
230.00†	0.000	145.865	230.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
330.00†	0.000	145.865	330.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
430.00†	0.000	145.865	430.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
530.00†	0.000	145.865	530.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
630.00†	0.000	145.865	630.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
730.00†	0.000	145.865	730.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
830.00†	0.000	145.865	830.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
930.00†	0.000	145.865	930.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1030.00†	0.000	145.865	1030.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1130.00†	0.000	145.865	1130.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1230.00†	0.000	145.865	1230.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1330.00†	0.000	145.865	1330.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1430.00†	0.000	145.865	1430.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1530.00†	0.000	145.865	1530.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1630.00†	0.000	145.865	1630.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1730.00†	0.000	145.865	1730.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1830.00†	0.000	145.865	1830.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
1930.00†	0.000	145.865	1930.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	
2000.00	0.000	145.865	2000.00	0.00	0.00	0.00	40.4851600	-104.5864600	0.00	End of Tangent
2030.00†	0.600	145.865	2030.00	0.09	-0.13	0.09	40.4851596	-104.5864597	2.00	
2130.00†	2.600	145.865	2129.96	1.75	-2.44	1.65	40.4851533	-104.5864541	2.00	
2230.00†	4.600	145.865	2229.75	5.48	-7.64	5.18	40.4851389	-104.5864417	2.00	
2330.00†	6.600	145.865	2329.27	11.27	-15.71	10.65	40.4851166	-104.5864223	2.00	
2412.89	8.258	145.865	2411.46	17.63	-24.59	16.67	40.4850920	-104.5864010	2.00	Build (XS)
2430.00†	8.258	145.865	2428.39	19.09	-26.62	18.05	40.4850864	-104.5863961	0.00	
2530.00†	8.258	145.865	2527.36	27.61	-38.51	26.11	40.4850536	-104.5863676	0.00	
2630.00†	8.258	145.865	2626.32	36.14	-50.40	34.17	40.4850207	-104.5863390	0.00	
2730.00†	8.258	145.865	2725.28	44.66	-62.28	42.23	40.4849879	-104.5863105	0.00	
2830.00†	8.258	145.865	2824.25	53.19	-74.17	50.29	40.4849550	-104.5862820	0.00	
2930.00†	8.258	145.865	2923.21	61.72	-86.06	58.34	40.4849221	-104.5862535	0.00	
3030.00†	8.258	145.865	3022.17	70.24	-97.95	66.40	40.4848893	-104.5862249	0.00	
3130.00†	8.258	145.865	3121.14	78.77	-109.84	74.46	40.4848564	-104.5861964	0.00	
3230.00†	8.258	145.865	3220.10	87.29	-121.72	82.52	40.4848236	-104.5861679	0.00	
3330.00†	8.258	145.865	3319.06	95.82	-133.61	90.58	40.4847907	-104.5861393	0.00	
3430.00†	8.258	145.865	3418.03	104.34	-145.50	98.64	40.4847579	-104.5861108	0.00	
3530.00†	8.258	145.865	3516.99	112.87	-157.39	106.70	40.4847250	-104.5860823	0.00	
3630.00†	8.258	145.865	3615.95	121.39	-169.28	114.76	40.4846921	-104.5860537	0.00	
3730.00†	8.258	145.865	3714.92	129.92	-181.17	122.82	40.4846593	-104.5860252	0.00	
3830.00†	8.258	145.865	3813.88	138.44	-193.05	130.88	40.4846264	-104.5859967	0.00	
3930.00†	8.258	145.865	3912.84	146.97	-204.94	138.94	40.4845936	-104.5859681	0.00	
4030.00†	8.258	145.865	4011.81	155.49	-216.83	147.00	40.4845607	-104.5859396	0.00	
4130.00†	8.258	145.865	4110.77	164.02	-228.72	155.06	40.4845278	-104.5859111	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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†	8.258	145.865	4209.73	172.54	-240.61	163.12	40.4844950	-104.5858825	0.00	
4330.00†	8.258	145.865	4308.70	181.07	-252.50	171.18	40.4844621	-104.5858540	0.00	
4430.00†	8.258	145.865	4407.66	189.59	-264.38	179.24	40.4844293	-104.5858255	0.00	
4530.00†	8.258	145.865	4506.62	198.12	-276.27	187.30	40.4843964	-104.5857970	0.00	
4630.00†	8.258	145.865	4605.58	206.64	-288.16	195.36	40.4843636	-104.5857684	0.00	
4730.00†	8.258	145.865	4704.55	215.17	-300.05	203.42	40.4843307	-104.5857399	0.00	
4830.00†	8.258	145.865	4803.51	223.70	-311.94	211.48	40.4842978	-104.5857114	0.00	
4930.00†	8.258	145.865	4902.47	232.22	-323.82	219.54	40.4842650	-104.5856828	0.00	
5030.00†	8.258	145.865	5001.44	240.75	-335.71	227.60	40.4842321	-104.5856543	0.00	
5130.00†	8.258	145.865	5100.40	249.27	-347.60	235.66	40.4841993	-104.5856258	0.00	
5230.00†	8.258	145.865	5199.36	257.80	-359.49	243.72	40.4841664	-104.5855972	0.00	
5330.00†	8.258	145.865	5298.33	266.32	-371.38	251.78	40.4841336	-104.5855687	0.00	
5430.00†	8.258	145.865	5397.29	274.85	-383.27	259.84	40.4841007	-104.5855402	0.00	
5530.00†	8.258	145.865	5496.25	283.37	-395.15	267.90	40.4840678	-104.5855116	0.00	
5630.00†	8.258	145.865	5595.22	291.90	-407.04	275.96	40.4840350	-104.5854831	0.00	
5730.00†	8.258	145.865	5694.18	300.42	-418.93	284.01	40.4840021	-104.5854546	0.00	
5830.00†	8.258	145.865	5793.14	308.95	-430.82	292.07	40.4839693	-104.5854260	0.00	
5930.00†	8.258	145.865	5892.11	317.47	-442.71	300.13	40.4839364	-104.5853975	0.00	
6030.00†	8.258	145.865	5991.07	326.00	-454.59	308.19	40.4839035	-104.5853690	0.00	
6130.00†	8.258	145.865	6090.03	334.52	-466.48	316.25	40.4838707	-104.5853405	0.00	
6230.00†	8.258	145.865	6189.00	343.05	-478.37	324.31	40.4838378	-104.5853119	0.00	
6319.04	8.258	145.865	6277.11	350.64	-488.96	331.49	40.4838086	-104.5852865	0.00	KOP
6330.00†	8.837	140.487	6287.95	351.67	-490.26	332.47	40.4838050	-104.5852831	9.00	
6430.00†	16.057	114.240	6385.61	369.65	-501.89	350.00	40.4837726	-104.5852205	9.00	
6530.00†	24.470	104.800	6479.36	402.76	-512.88	382.70	40.4837415	-104.5851033	9.00	
6630.00†	33.180	100.045	6566.90	450.19	-522.96	429.77	40.4837125	-104.5849345	9.00	
6730.00†	42.001	97.104	6646.06	510.77	-531.89	490.04	40.4836862	-104.5847182	9.00	
6830.00†	50.876	95.029	6714.91	583.00	-539.44	562.02	40.4836635	-104.5844597	9.00	
6930.00†	59.779	93.423	6771.74	665.11	-545.43	643.96	40.4836447	-104.5841654	9.00	
7030.00†	68.698	92.085	6815.17	755.07	-549.72	733.82	40.4836304	-104.5838425	9.00	
7130.00†	77.627	90.902	6844.10	850.68	-552.19	829.41	40.4836209	-104.5834990	9.00	
7230.00†	86.560	89.798	6857.84	949.57	-552.78	928.35	40.4836165	-104.5831434	9.00	
7268.50	90.000	89.381	6859.00	988.00	-552.51	966.83	40.4836161	-104.5830051	9.00	LP/TPZ
7330.00†	90.000	89.381	6859.00	1049.42	-551.84	1028.33	40.4836162	-104.5827840	0.00	
7430.00†	90.000	89.381	6859.00	1149.30	-550.76	1128.32	40.4836163	-104.5824245	0.00	
7530.00†	90.000	89.381	6859.00	1249.17	-549.68	1228.31	40.4836165	-104.5820650	0.00	
7630.00†	90.000	89.381	6859.00	1349.04	-548.60	1328.31	40.4836166	-104.5817055	0.00	
7730.00†	90.000	89.381	6859.00	1448.91	-547.52	1428.30	40.4836167	-104.5813460	0.00	
7830.00†	90.000	89.381	6859.00	1548.78	-546.44	1528.30	40.4836168	-104.5809866	0.00	
7930.00†	90.000	89.381	6859.00	1648.66	-545.36	1628.29	40.4836170	-104.5806271	0.00	
8030.00†	90.000	89.381	6859.00	1748.53	-544.28	1728.28	40.4836171	-104.5802676	0.00	
8130.00†	90.000	89.381	6859.00	1848.40	-543.20	1828.28	40.4836172	-104.5799081	0.00	
8230.00†	90.000	89.381	6859.00	1948.27	-542.12	1928.27	40.4836173	-104.5795486	0.00	
8330.00†	90.000	89.381	6859.00	2048.15	-541.04	2028.27	40.4836174	-104.5791891	0.00	
8430.00†	90.000	89.381	6859.00	2148.02	-539.96	2128.26	40.4836175	-104.5788297	0.00	



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Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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
8530.00†	90.000	89.381	6859.00	2247.89	-538.88	2228.26	40.4836176	-104.5784702	0.00	
8630.00†	90.000	89.381	6859.00	2347.76	-537.80	2328.25	40.4836178	-104.5781107	0.00	
8730.00†	90.000	89.381	6859.00	2447.64	-536.72	2428.24	40.4836179	-104.5777512	0.00	
8830.00†	90.000	89.381	6859.00	2547.51	-535.64	2528.24	40.4836180	-104.5773917	0.00	
8930.00†	90.000	89.381	6859.00	2647.38	-534.56	2628.23	40.4836181	-104.5770322	0.00	
9030.00†	90.000	89.381	6859.00	2747.25	-533.48	2728.23	40.4836182	-104.5766728	0.00	
9130.00†	90.000	89.381	6859.00	2847.13	-532.40	2828.22	40.4836183	-104.5763133	0.00	
9230.00†	90.000	89.381	6859.00	2947.00	-531.32	2928.21	40.4836184	-104.5759538	0.00	
9330.00†	90.000	89.381	6859.00	3046.87	-530.24	3028.21	40.4836185	-104.5755943	0.00	
9430.00†	90.000	89.381	6859.00	3146.74	-529.16	3128.20	40.4836186	-104.5752348	0.00	
9530.00†	90.000	89.381	6859.00	3246.62	-528.08	3228.20	40.4836187	-104.5748753	0.00	
9630.00†	90.000	89.381	6859.00	3346.49	-527.00	3328.19	40.4836188	-104.5745159	0.00	
9730.00†	90.000	89.381	6859.00	3446.36	-525.92	3428.19	40.4836189	-104.5741564	0.00	
9830.00†	90.000	89.381	6859.00	3546.23	-524.84	3528.18	40.4836190	-104.5737969	0.00	
9930.00†	90.000	89.381	6859.00	3646.11	-523.76	3628.17	40.4836191	-104.5734374	0.00	
10030.00†	90.000	89.381	6859.00	3745.98	-522.68	3728.17	40.4836192	-104.5730779	0.00	
10130.00†	90.000	89.381	6859.00	3845.85	-521.60	3828.16	40.4836193	-104.5727184	0.00	
10230.00†	90.000	89.381	6859.00	3945.72	-520.52	3928.16	40.4836194	-104.5723590	0.00	
10330.00†	90.000	89.381	6859.00	4045.60	-519.44	4028.15	40.4836195	-104.5719995	0.00	
10430.00†	90.000	89.381	6859.00	4145.47	-518.36	4128.14	40.4836196	-104.5716400	0.00	
10530.00†	90.000	89.381	6859.00	4245.34	-517.28	4228.14	40.4836197	-104.5712805	0.00	
10630.00†	90.000	89.381	6859.00	4345.21	-516.20	4328.13	40.4836198	-104.5709210	0.00	
10730.00†	90.000	89.381	6859.00	4445.09	-515.11	4428.13	40.4836199	-104.5705615	0.00	
10830.00†	90.000	89.381	6859.00	4544.96	-514.03	4528.12	40.4836199	-104.5702021	0.00	
10930.00†	90.000	89.381	6859.00	4644.83	-512.95	4628.12	40.4836200	-104.5698426	0.00	
11030.00†	90.000	89.381	6859.00	4744.70	-511.87	4728.11	40.4836201	-104.5694831	0.00	
11130.00†	90.000	89.381	6859.00	4844.58	-510.79	4828.10	40.4836202	-104.5691236	0.00	
11230.00†	90.000	89.381	6859.00	4944.45	-509.71	4928.10	40.4836203	-104.5687641	0.00	
11330.00†	90.000	89.381	6859.00	5044.32	-508.63	5028.09	40.4836204	-104.5684046	0.00	
11430.00†	90.000	89.381	6859.00	5144.19	-507.55	5128.09	40.4836204	-104.5680452	0.00	
11530.00†	90.000	89.381	6859.00	5244.07	-506.47	5228.08	40.4836205	-104.5676857	0.00	
11630.00†	90.000	89.381	6859.00	5343.94	-505.39	5328.07	40.4836206	-104.5673262	0.00	
11730.00†	90.000	89.381	6859.00	5443.81	-504.31	5428.07	40.4836207	-104.5669667	0.00	
11830.00†	90.000	89.381	6859.00	5543.68	-503.23	5528.06	40.4836208	-104.5666072	0.00	
11930.00†	90.000	89.381	6859.00	5643.56	-502.15	5628.06	40.4836208	-104.5662477	0.00	
12030.00†	90.000	89.381	6859.00	5743.43	-501.07	5728.05	40.4836209	-104.5658883	0.00	
12130.00†	90.000	89.381	6859.00	5843.30	-499.99	5828.05	40.4836210	-104.5655288	0.00	
12230.00†	90.000	89.381	6859.00	5943.17	-498.91	5928.04	40.4836210	-104.5651693	0.00	
12330.00†	90.000	89.381	6859.00	6043.05	-497.83	6028.03	40.4836211	-104.5648098	0.00	
12430.00†	90.000	89.381	6859.00	6142.92	-496.75	6128.03	40.4836212	-104.5644503	0.00	
12530.00†	90.000	89.381	6859.00	6242.79	-495.67	6228.02	40.4836213	-104.5640908	0.00	
12630.00†	90.000	89.381	6859.00	6342.66	-494.59	6328.02	40.4836213	-104.5637314	0.00	
12730.00†	90.000	89.381	6859.00	6442.54	-493.51	6428.01	40.4836214	-104.5633719	0.00	
12830.00†	90.000	89.381	6859.00	6542.41	-492.43	6528.00	40.4836215	-104.5630124	0.00	
12930.00†	90.000	89.381	6859.00	6642.28	-491.35	6628.00	40.4836215	-104.5626529	0.00	



Planned Wellpath Report

Foose State A17-637 (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Foose State A17-637
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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	89.381	6859.00	6742.15	-490.27	6727.99	40.4836216	-104.5622934	0.00	
13130.00†	90.000	89.381	6859.00	6842.02	-489.19	6827.99	40.4836216	-104.5619339	0.00	
13230.00†	90.000	89.381	6859.00	6941.90	-488.11	6927.98	40.4836217	-104.5615745	0.00	
13330.00†	90.000	89.381	6859.00	7041.77	-487.03	7027.98	40.4836218	-104.5612150	0.00	
13430.00†	90.000	89.381	6859.00	7141.64	-485.95	7127.97	40.4836218	-104.5608555	0.00	
13530.00†	90.000	89.381	6859.00	7241.51	-484.87	7227.96	40.4836219	-104.5604960	0.00	
13630.00†	90.000	89.381	6859.00	7341.39	-483.79	7327.96	40.4836219	-104.5601365	0.00	
13730.00†	90.000	89.381	6859.00	7441.26	-482.71	7427.95	40.4836220	-104.5597770	0.00	
13830.00†	90.000	89.381	6859.00	7541.13	-481.63	7527.95	40.4836220	-104.5594176	0.00	
13930.00†	90.000	89.381	6859.00	7641.00	-480.55	7627.94	40.4836221	-104.5590581	0.00	
14030.00†	90.000	89.381	6859.00	7740.88	-479.47	7727.93	40.4836222	-104.5586986	0.00	
14130.00†	90.000	89.381	6859.00	7840.75	-478.39	7827.93	40.4836222	-104.5583391	0.00	
14230.00†	90.000	89.381	6859.00	7940.62	-477.31	7927.92	40.4836223	-104.5579796	0.00	
14330.00†	90.000	89.381	6859.00	8040.49	-476.23	8027.92	40.4836223	-104.5576201	0.00	
14430.00†	90.000	89.381	6859.00	8140.37	-475.15	8127.91	40.4836223	-104.5572607	0.00	
14530.00†	90.000	89.381	6859.00	8240.24	-474.07	8227.91	40.4836224	-104.5569012	0.00	
14630.00†	90.000	89.381	6859.00	8340.11	-472.99	8327.90	40.4836224	-104.5565417	0.00	
14730.00†	90.000	89.381	6859.00	8439.98	-471.91	8427.89	40.4836225	-104.5561822	0.00	
14830.00†	90.000	89.381	6859.00	8539.86	-470.83	8527.89	40.4836225	-104.5558227	0.00	
14930.00†	90.000	89.381	6859.00	8639.73	-469.75	8627.88	40.4836226	-104.5554632	0.00	
15030.00†	90.000	89.381	6859.00	8739.60	-468.67	8727.88	40.4836226	-104.5551038	0.00	
15130.00†	90.000	89.381	6859.00	8839.47	-467.59	8827.87	40.4836226	-104.5547443	0.00	
15230.00†	90.000	89.381	6859.00	8939.35	-466.51	8927.86	40.4836227	-104.5543848	0.00	
15330.00†	90.000	89.381	6859.00	9039.22	-465.43	9027.86	40.4836227	-104.5540253	0.00	
15430.00†	90.000	89.381	6859.00	9139.09	-464.35	9127.85	40.4836228	-104.5536658	0.00	
15530.00†	90.000	89.381	6859.00	9238.96	-463.27	9227.85	40.4836228	-104.5533063	0.00	
15630.00†	90.000	89.381	6859.00	9338.84	-462.19	9327.84	40.4836228	-104.5529469	0.00	
15730.00†	90.000	89.381	6859.00	9438.71	-461.11	9427.84	40.4836229	-104.5525874	0.00	
15830.00†	90.000	89.381	6859.00	9538.58	-460.03	9527.83	40.4836229	-104.5522279	0.00	
15930.00†	90.000	89.381	6859.00	9638.45	-458.95	9627.82	40.4836229	-104.5518684	0.00	
16030.00†	90.000	89.381	6859.00	9738.33	-457.86	9727.82	40.4836230	-104.5515089	0.00	
16130.00†	90.000	89.381	6859.00	9838.20	-456.78	9827.81	40.4836230	-104.5511494	0.00	
16230.00†	90.000	89.381	6859.00	9938.07	-455.70	9927.81	40.4836230	-104.5507900	0.00	
16330.00†	90.000	89.381	6859.00	10037.94	-454.62	10027.80	40.4836230	-104.5504305	0.00	
16430.00†	90.000	89.381	6859.00	10137.82	-453.54	10127.79	40.4836231	-104.5500710	0.00	
16530.00†	90.000	89.381	6859.00	10237.69	-452.46	10227.79	40.4836231	-104.5497115	0.00	
16630.00†	90.000	89.381	6859.00	10337.56	-451.38	10327.78	40.4836231	-104.5493520	0.00	
16730.00†	90.000	89.381	6859.00	10437.43	-450.30	10427.78	40.4836231	-104.5489925	0.00	
16830.00†	90.000	89.381	6859.00	10537.31	-449.22	10527.77	40.4836232	-104.5486331	0.00	
16930.00†	90.000	89.381	6859.00	10637.18	-448.14	10627.77	40.4836232	-104.5482736	0.00	
17030.00†	90.000	89.381	6859.00	10737.05	-447.06	10727.76	40.4836232	-104.5479141	0.00	
17130.00†	90.000	89.381	6859.00	10836.92	-445.98	10827.75	40.4836232	-104.5475546	0.00	
17230.00†	90.000	89.381	6859.00	10936.80	-444.90	10927.75	40.4836232	-104.5471951	0.00	
17330.00†	90.000	89.381	6859.00	11036.67	-443.82	11027.74	40.4836232	-104.5468356	0.00	
17430.00†	90.000	89.381	6859.00	11136.54	-442.74	11127.74	40.4836233	-104.5464762	0.00	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Foose State A17-637
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'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
17442.27	90.000	89.381	6859.00 ²	11148.80	-442.61	11140.01	40.4836233	-104.5464320	0.00	BHL

HOLE & CASING SECTIONS - Ref Wellbore: Foose State A17-637 PWB Ref Wellpath: Foose State A17-637 (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 Production	30.00	1950.00	1920.00	30.00	1950.00	0.00	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	-38.00	7369.74	274.48	3254380.72	1428262.61	40.5053800	-104.5852000	polygon	2D Polygon: dimensions not calculated
OGDP 1 SEC.17-T06N-R64W	N/A	-38.00	7369.74	274.48	3254380.72	1428262.61	40.5053800	-104.5852000	polygon	2D Polygon: dimensions not calculated
OGDP 1 SEC.18-T06N-R64W	N/A	-38.00	7369.74	274.48	3254380.72	1428262.61	40.5053800	-104.5852000	polygon	2D Polygon: dimensions not calculated
2) Foose State A17-637 BHL Rev-1 (1792'FSL & 200'FEL,SEC.16)	17442.27	6859.00	-442.61	11140.01	3265245.84	1420450.55	40.4836233	-104.5464320	point	
1) Foose State A17-637 LP Rev-1 (1780'FSL & 200'FWL,SEC.17)	7268.50	6859.00	-552.51	966.83	3255073.04	1420340.66	40.4836161	-104.5830051	point	

SURVEY PROGRAM - Ref Wellbore: Foose State A17-637 PWB Ref Wellpath: Foose State A17-637 (REV-A.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	17442.27	OWSG MWD rev2 (MS+IFR1)		Foose State A17-637 PWB



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Foose State A17-637 (REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Well	Foose State A17-637
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API/Legal	
Facility	SEC.18-T06N-R64W	Wellbore	Foose State A17-637 PWB
Slot	SLOT#06 Foose State A17-637 (2349'FSL & 762'FEL,SEC.18)		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
30.00	0.000	145.865	30.00	SHL
2000.00	0.000	145.865	2000.00	End of Tangent
2412.89	8.258	145.865	2411.46	Build (XS)
6319.04	8.258	145.865	6277.11	KOP
7268.50	90.000	89.381	6859.00	LP/TPZ
17442.27	90.000	89.381	6859.00	BHL