



Planned Wellpath Report

STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999961	Report Generated	12/1/2017 at 10:48:11 AM
Convergence at slot	0.79° East	Database/Source file	Denver/STATE_ ANTELOPE_ O-2-14XRLNB_ PWP_ _REV-A.0_ .xml

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	3338687.26	1398848.45	40°25'18.709"N	104°17'00.609"W
Facility Reference Pt			3338687.26	1398848.45	40°25'18.709"N	104°17'00.609"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

WELLPATH DATUM			
Calculation method	Minimum curvature	RIG (17'KB) (RKB) to Facility Vertical Datum	4653.00ft
Horizontal Reference Pt	Slot	RIG (17'KB) (RKB) to Mean Sea Level	4653.00ft
Vertical Reference Pt	RIG (17'KB) (RKB)	RIG (17'KB) (RKB) to Mud Line at Slot (SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11))	4653.00ft
MD Reference Pt	RIG (17'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	190.46°



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Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

WELLPATH DATA (182 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	302.531	0.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	
17.00	0.000	302.531	17.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	Tie On
117.00†	0.000	302.531	117.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	
217.00†	0.000	302.531	217.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	
317.00†	0.000	302.531	317.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	
417.00†	0.000	302.531	417.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	
500.00	0.000	302.531	500.00	0.00	0.00	0.00	40°25'18.709"N	104°17'00.609"W	0.00	End of Tangent
517.00†	0.340	302.531	517.00	-0.02	0.03	-0.04	40°25'18.709"N	104°17'00.610"W	2.00	
617.00†	2.340	302.531	616.97	-0.90	1.28	-2.01	40°25'18.722"N	104°17'00.635"W	2.00	
717.00†	4.340	302.531	716.79	-3.09	4.42	-6.93	40°25'18.753"N	104°17'00.699"W	2.00	
817.00†	6.340	302.531	816.35	-6.58	9.42	-14.77	40°25'18.802"N	104°17'00.800"W	2.00	
917.00†	8.340	302.531	915.53	-11.38	16.29	-25.54	40°25'18.870"N	104°17'00.939"W	2.00	
1017.00†	10.340	302.531	1014.20	-17.48	25.02	-39.22	40°25'18.956"N	104°17'01.116"W	2.00	
1117.00†	12.340	302.531	1112.24	-24.87	35.59	-55.80	40°25'19.061"N	104°17'01.330"W	2.00	
1217.00†	14.340	302.531	1209.54	-33.54	48.00	-75.25	40°25'19.183"N	104°17'01.582"W	2.00	
1317.00†	16.340	302.531	1305.97	-43.48	62.22	-97.56	40°25'19.324"N	104°17'01.870"W	2.00	
1417.00†	18.340	302.531	1401.42	-54.67	78.25	-122.68	40°25'19.482"N	104°17'02.195"W	2.00	
1517.00†	20.340	302.531	1495.77	-67.12	96.06	-150.60	40°25'19.658"N	104°17'02.556"W	2.00	
1617.00†	22.340	302.531	1588.91	-80.79	115.63	-181.28	40°25'19.852"N	104°17'02.953"W	2.00	
1705.94	24.119	302.531	1670.64	-93.97	134.49	-210.86	40°25'20.038"N	104°17'03.335"W	2.00	End of Build (XS)
1717.00†	24.119	302.531	1680.73	-95.67	136.92	-214.67	40°25'20.062"N	104°17'03.385"W	0.00	
1817.00†	24.119	302.531	1772.00	-111.02	158.89	-249.12	40°25'20.279"N	104°17'03.830"W	0.00	
1917.00†	24.119	302.531	1863.27	-126.38	180.87	-283.57	40°25'20.496"N	104°17'04.275"W	0.00	
2017.00†	24.119	302.531	1954.54	-141.73	202.84	-318.02	40°25'20.713"N	104°17'04.721"W	0.00	
2117.00†	24.119	302.531	2045.81	-157.08	224.82	-352.47	40°25'20.931"N	104°17'05.166"W	0.00	
2217.00†	24.119	302.531	2137.08	-172.44	246.79	-386.93	40°25'21.148"N	104°17'05.612"W	0.00	
2317.00†	24.119	302.531	2228.35	-187.79	268.77	-421.38	40°25'21.365"N	104°17'06.057"W	0.00	
2417.00†	24.119	302.531	2319.62	-203.14	290.74	-455.83	40°25'21.582"N	104°17'06.503"W	0.00	
2517.00†	24.119	302.531	2410.89	-218.50	312.71	-490.28	40°25'21.799"N	104°17'06.948"W	0.00	
2617.00†	24.119	302.531	2502.16	-233.85	334.69	-524.73	40°25'22.016"N	104°17'07.394"W	0.00	



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Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

WELLPATH DATA (182 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS ["/100ft]	Comments
2717.00†	24.119	302.531	2593.43	-249.21	356.66	-559.18	40°25'22.233"N	104°17'07.839"W	0.00	
2817.00†	24.119	302.531	2684.70	-264.56	378.64	-593.64	40°25'22.450"N	104°17'08.285"W	0.00	
2917.00†	24.119	302.531	2775.97	-279.91	400.61	-628.09	40°25'22.668"N	104°17'08.730"W	0.00	
3017.00†	24.119	302.531	2867.24	-295.27	422.58	-662.54	40°25'22.885"N	104°17'09.175"W	0.00	
3117.00†	24.119	302.531	2958.51	-310.62	444.56	-696.99	40°25'23.102"N	104°17'09.621"W	0.00	
3217.00†	24.119	302.531	3049.78	-325.97	466.53	-731.44	40°25'23.319"N	104°17'10.066"W	0.00	
3317.00†	24.119	302.531	3141.05	-341.33	488.51	-765.90	40°25'23.536"N	104°17'10.512"W	0.00	
3417.00†	24.119	302.531	3232.32	-356.68	510.48	-800.35	40°25'23.753"N	104°17'10.957"W	0.00	
3517.00†	24.119	302.531	3323.59	-372.04	532.46	-834.80	40°25'23.970"N	104°17'11.403"W	0.00	
3617.00†	24.119	302.531	3414.86	-387.39	554.43	-869.25	40°25'24.188"N	104°17'11.848"W	0.00	
3717.00†	24.119	302.531	3506.13	-402.74	576.40	-903.70	40°25'24.405"N	104°17'12.294"W	0.00	
3817.00†	24.119	302.531	3597.40	-418.10	598.38	-938.15	40°25'24.622"N	104°17'12.739"W	0.00	
3917.00†	24.119	302.531	3688.67	-433.45	620.35	-972.61	40°25'24.839"N	104°17'13.185"W	0.00	
4017.00†	24.119	302.531	3779.94	-448.81	642.33	-1007.06	40°25'25.056"N	104°17'13.630"W	0.00	
4117.00†	24.119	302.531	3871.21	-464.16	664.30	-1041.51	40°25'25.273"N	104°17'14.076"W	0.00	
4217.00†	24.119	302.531	3962.48	-479.51	686.28	-1075.96	40°25'25.490"N	104°17'14.521"W	0.00	
4317.00†	24.119	302.531	4053.75	-494.87	708.25	-1110.41	40°25'25.707"N	104°17'14.967"W	0.00	
4417.00†	24.119	302.531	4145.02	-510.22	730.22	-1144.87	40°25'25.925"N	104°17'15.412"W	0.00	
4517.00†	24.119	302.531	4236.29	-525.57	752.20	-1179.32	40°25'26.142"N	104°17'15.858"W	0.00	
4617.00†	24.119	302.531	4327.56	-540.93	774.17	-1213.77	40°25'26.359"N	104°17'16.303"W	0.00	
4717.00†	24.119	302.531	4418.83	-556.28	796.15	-1248.22	40°25'26.576"N	104°17'16.748"W	0.00	
4817.00†	24.119	302.531	4510.10	-571.64	818.12	-1282.67	40°25'26.793"N	104°17'17.194"W	0.00	
4917.00†	24.119	302.531	4601.37	-586.99	840.10	-1317.12	40°25'27.010"N	104°17'17.639"W	0.00	
5017.00†	24.119	302.531	4692.64	-602.34	862.07	-1351.58	40°25'27.227"N	104°17'18.085"W	0.00	
5117.00†	24.119	302.531	4783.91	-617.70	884.04	-1386.03	40°25'27.444"N	104°17'18.530"W	0.00	
5217.00†	24.119	302.531	4875.18	-633.05	906.02	-1420.48	40°25'27.662"N	104°17'18.976"W	0.00	
5317.00†	24.119	302.531	4966.45	-648.40	927.99	-1454.93	40°25'27.879"N	104°17'19.421"W	0.00	
5417.00†	24.119	302.531	5057.72	-663.76	949.97	-1489.38	40°25'28.096"N	104°17'19.867"W	0.00	
5517.00†	24.119	302.531	5148.99	-679.11	971.94	-1523.84	40°25'28.313"N	104°17'20.312"W	0.00	
5617.00†	24.119	302.531	5240.26	-694.47	993.92	-1558.29	40°25'28.530"N	104°17'20.758"W	0.00	



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Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5717.00†	24.119	302.531	5331.53	-709.82	1015.89	-1592.74	40°25'28.747"N	104°17'21.203"W	0.00	
5817.00†	24.119	302.531	5422.80	-725.17	1037.86	-1627.19	40°25'28.964"N	104°17'21.649"W	0.00	
5917.00†	24.119	302.531	5514.07	-740.53	1059.84	-1661.64	40°25'29.181"N	104°17'22.094"W	0.00	
5932.35	24.119	302.531	5528.08	-742.88	1063.21	-1666.93	40°25'29.215"N	104°17'22.163"W	0.00	End of Tangent (XS)
6017.00†	21.053	281.846	5606.35	-749.76	1075.66	-1696.45	40°25'29.338"N	104°17'22.544"W	10.00	
6117.00†	21.359	253.973	5699.82	-742.05	1074.31	-1731.62	40°25'29.324"N	104°17'22.999"W	10.00	
6217.00†	25.698	231.187	5791.67	-717.44	1055.65	-1766.10	40°25'29.140"N	104°17'23.445"W	10.00	
6317.00†	32.490	215.964	5879.12	-676.66	1020.23	-1798.85	40°25'28.790"N	104°17'23.868"W	10.00	
6417.00†	40.514	205.869	5959.51	-620.97	969.13	-1828.87	40°25'28.285"N	104°17'24.256"W	10.00	
6517.00†	49.163	198.720	6030.40	-552.04	903.91	-1855.25	40°25'27.640"N	104°17'24.597"W	10.00	
6617.00†	58.150	193.258	6089.63	-471.98	826.55	-1877.19	40°25'26.876"N	104°17'24.881"W	10.00	
6717.00†	67.327	188.782	6135.41	-383.22	739.39	-1894.02	40°25'26.015"N	104°17'25.099"W	10.00	
6817.00†	76.614	184.875	6166.33	-288.45	645.09	-1905.22	40°25'25.083"N	104°17'25.243"W	10.00	
6917.00†	85.956	181.261	6181.48	-190.56	546.51	-1910.47	40°25'24.109"N	104°17'25.311"W	10.00	
6960.22	90.000	179.737	6183.00†	-148.03	503.33	-1910.85	40°25'23.682"N	104°17'25.316"W	10.00	End of 3D Arc (XS)
7017.00†	90.000	179.737	6183.00	-92.24	446.55	-1910.58	40°25'23.121"N	104°17'25.312"W	0.00	
7117.00†	90.000	179.737	6183.00	6.02	346.55	-1910.12	40°25'22.133"N	104°17'25.306"W	0.00	
7217.00†	90.000	179.737	6183.00	104.27	246.56	-1909.66	40°25'21.145"N	104°17'25.300"W	0.00	
7317.00†	90.000	179.737	6183.00	202.52	146.56	-1909.21	40°25'20.156"N	104°17'25.294"W	0.00	
7417.00†	90.000	179.737	6183.00	300.78	46.56	-1908.75	40°25'19.168"N	104°17'25.288"W	0.00	
7517.00†	90.000	179.737	6183.00	399.03	-53.44	-1908.29	40°25'18.180"N	104°17'25.282"W	0.00	
7617.00†	90.000	179.737	6183.00	497.28	-153.44	-1907.83	40°25'17.192"N	104°17'25.276"W	0.00	
7717.00†	90.000	179.737	6183.00	595.54	-253.44	-1907.37	40°25'16.204"N	104°17'25.270"W	0.00	
7817.00†	90.000	179.737	6183.00	693.79	-353.44	-1906.91	40°25'15.216"N	104°17'25.264"W	0.00	
7917.00†	90.000	179.737	6183.00	792.04	-453.44	-1906.45	40°25'14.228"N	104°17'25.258"W	0.00	
8017.00†	90.000	179.737	6183.00	890.30	-553.44	-1905.99	40°25'13.239"N	104°17'25.252"W	0.00	
8117.00†	90.000	179.737	6183.00	988.55	-653.44	-1905.53	40°25'12.251"N	104°17'25.246"W	0.00	
8217.00†	90.000	179.737	6183.00	1086.80	-753.43	-1905.07	40°25'11.263"N	104°17'25.240"W	0.00	
8317.00†	90.000	179.737	6183.00	1185.06	-853.43	-1904.61	40°25'10.275"N	104°17'25.234"W	0.00	
8417.00†	90.000	179.737	6183.00	1283.31	-953.43	-1904.15	40°25'09.287"N	104°17'25.228"W	0.00	



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Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

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8517.00†	90.000	179.737	6183.00	1381.56	-1053.43	-1903.69	40°25'08.299"N	104°17'25.222"W	0.00	
8617.00†	90.000	179.737	6183.00	1479.82	-1153.43	-1903.23	40°25'07.311"N	104°17'25.216"W	0.00	
8717.00†	90.000	179.737	6183.00	1578.07	-1253.43	-1902.77	40°25'06.322"N	104°17'25.210"W	0.00	
8817.00†	90.000	179.737	6183.00	1676.32	-1353.43	-1902.31	40°25'05.334"N	104°17'25.204"W	0.00	
8917.00†	90.000	179.737	6183.00	1774.58	-1453.43	-1901.85	40°25'04.346"N	104°17'25.198"W	0.00	
9017.00†	90.000	179.737	6183.00	1872.83	-1553.43	-1901.39	40°25'03.358"N	104°17'25.192"W	0.00	
9117.00†	90.000	179.737	6183.00	1971.08	-1653.42	-1900.93	40°25'02.370"N	104°17'25.186"W	0.00	
9217.00†	90.000	179.737	6183.00	2069.34	-1753.42	-1900.47	40°25'01.382"N	104°17'25.179"W	0.00	
9317.00†	90.000	179.737	6183.00	2167.59	-1853.42	-1900.01	40°25'00.393"N	104°17'25.173"W	0.00	
9417.00†	90.000	179.737	6183.00	2265.84	-1953.42	-1899.55	40°24'59.405"N	104°17'25.167"W	0.00	
9517.00†	90.000	179.737	6183.00	2364.10	-2053.42	-1899.09	40°24'58.417"N	104°17'25.161"W	0.00	
9617.00†	90.000	179.737	6183.00	2462.35	-2153.42	-1898.63	40°24'57.429"N	104°17'25.155"W	0.00	
9717.00†	90.000	179.737	6183.00	2560.60	-2253.42	-1898.17	40°24'56.441"N	104°17'25.149"W	0.00	
9817.00†	90.000	179.737	6183.00	2658.86	-2353.42	-1897.71	40°24'55.453"N	104°17'25.143"W	0.00	
9917.00†	90.000	179.737	6183.00	2757.11	-2453.42	-1897.25	40°24'54.465"N	104°17'25.137"W	0.00	
10017.00†	90.000	179.737	6183.00	2855.36	-2553.42	-1896.79	40°24'53.476"N	104°17'25.131"W	0.00	
10117.00†	90.000	179.737	6183.00	2953.62	-2653.41	-1896.33	40°24'52.488"N	104°17'25.125"W	0.00	
10217.00†	90.000	179.737	6183.00	3051.87	-2753.41	-1895.87	40°24'51.500"N	104°17'25.119"W	0.00	
10317.00†	90.000	179.737	6183.00	3150.13	-2853.41	-1895.41	40°24'50.512"N	104°17'25.113"W	0.00	
10417.00†	90.000	179.737	6183.00	3248.38	-2953.41	-1894.95	40°24'49.524"N	104°17'25.107"W	0.00	
10517.00†	90.000	179.737	6183.00	3346.63	-3053.41	-1894.49	40°24'48.536"N	104°17'25.101"W	0.00	
10617.00†	90.000	179.737	6183.00	3444.89	-3153.41	-1894.03	40°24'47.548"N	104°17'25.095"W	0.00	
10717.00†	90.000	179.737	6183.00	3543.14	-3253.41	-1893.57	40°24'46.559"N	104°17'25.089"W	0.00	
10817.00†	90.000	179.737	6183.00	3641.39	-3353.41	-1893.11	40°24'45.571"N	104°17'25.083"W	0.00	
10917.00†	90.000	179.737	6183.00	3739.65	-3453.41	-1892.65	40°24'44.583"N	104°17'25.077"W	0.00	
11017.00†	90.000	179.737	6183.00	3837.90	-3553.40	-1892.20	40°24'43.595"N	104°17'25.071"W	0.00	
11117.00†	90.000	179.737	6183.00	3936.15	-3653.40	-1891.74	40°24'42.607"N	104°17'25.065"W	0.00	
11217.00†	90.000	179.737	6183.00	4034.41	-3753.40	-1891.28	40°24'41.619"N	104°17'25.059"W	0.00	
11317.00†	90.000	179.737	6183.00	4132.66	-3853.40	-1890.82	40°24'40.630"N	104°17'25.053"W	0.00	
11417.00†	90.000	179.737	6183.00	4230.91	-3953.40	-1890.36	40°24'39.642"N	104°17'25.047"W	0.00	



Planned Wellpath Report

STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

WELLPATH DATA (182 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11517.00†	90.000	179.737	6183.00	4329.17	-4053.40	-1889.90	40°24'38.654"N	104°17'25.041"W	0.00	
11617.00†	90.000	179.737	6183.00	4427.42	-4153.40	-1889.44	40°24'37.666"N	104°17'25.034"W	0.00	
11717.00†	90.000	179.737	6183.00	4525.67	-4253.40	-1888.98	40°24'36.678"N	104°17'25.028"W	0.00	
11817.00†	90.000	179.737	6183.00	4623.93	-4353.40	-1888.52	40°24'35.690"N	104°17'25.022"W	0.00	
11917.00†	90.000	179.737	6183.00	4722.18	-4453.40	-1888.06	40°24'34.702"N	104°17'25.016"W	0.00	
12017.00†	90.000	179.737	6183.00	4820.43	-4553.39	-1887.60	40°24'33.713"N	104°17'25.010"W	0.00	
12117.00†	90.000	179.737	6183.00	4918.69	-4653.39	-1887.14	40°24'32.725"N	104°17'25.004"W	0.00	
12217.00†	90.000	179.737	6183.00	5016.94	-4753.39	-1886.68	40°24'31.737"N	104°17'24.998"W	0.00	
12317.00†	90.000	179.737	6183.00	5115.19	-4853.39	-1886.22	40°24'30.749"N	104°17'24.992"W	0.00	
12417.00†	90.000	179.737	6183.00	5213.45	-4953.39	-1885.76	40°24'29.761"N	104°17'24.986"W	0.00	
12517.00†	90.000	179.737	6183.00	5311.70	-5053.39	-1885.30	40°24'28.773"N	104°17'24.980"W	0.00	
12617.00†	90.000	179.737	6183.00	5409.95	-5153.39	-1884.84	40°24'27.784"N	104°17'24.974"W	0.00	
12717.00†	90.000	179.737	6183.00	5508.21	-5253.39	-1884.38	40°24'26.796"N	104°17'24.968"W	0.00	
12817.00†	90.000	179.737	6183.00	5606.46	-5353.39	-1883.92	40°24'25.808"N	104°17'24.962"W	0.00	
12917.00†	90.000	179.737	6183.00	5704.71	-5453.38	-1883.46	40°24'24.820"N	104°17'24.956"W	0.00	
13017.00†	90.000	179.737	6183.00	5802.97	-5553.38	-1883.00	40°24'23.832"N	104°17'24.950"W	0.00	
13117.00†	90.000	179.737	6183.00	5901.22	-5653.38	-1882.54	40°24'22.844"N	104°17'24.944"W	0.00	
13217.00†	90.000	179.737	6183.00	5999.47	-5753.38	-1882.08	40°24'21.856"N	104°17'24.938"W	0.00	
13317.00†	90.000	179.737	6183.00	6097.73	-5853.38	-1881.62	40°24'20.867"N	104°17'24.932"W	0.00	
13417.00†	90.000	179.737	6183.00	6195.98	-5953.38	-1881.16	40°24'19.879"N	104°17'24.926"W	0.00	
13517.00†	90.000	179.737	6183.00	6294.23	-6053.38	-1880.70	40°24'18.891"N	104°17'24.920"W	0.00	
13617.00†	90.000	179.737	6183.00	6392.49	-6153.38	-1880.24	40°24'17.903"N	104°17'24.914"W	0.00	
13717.00†	90.000	179.737	6183.00	6490.74	-6253.38	-1879.78	40°24'16.915"N	104°17'24.908"W	0.00	
13817.00†	90.000	179.737	6183.00	6588.99	-6353.37	-1879.32	40°24'15.927"N	104°17'24.902"W	0.00	
13917.00†	90.000	179.737	6183.00	6687.25	-6453.37	-1878.86	40°24'14.939"N	104°17'24.896"W	0.00	
14017.00†	90.000	179.737	6183.00	6785.50	-6553.37	-1878.40	40°24'13.950"N	104°17'24.889"W	0.00	
14117.00†	90.000	179.737	6183.00	6883.75	-6653.37	-1877.94	40°24'12.962"N	104°17'24.883"W	0.00	
14217.00†	90.000	179.737	6183.00	6982.01	-6753.37	-1877.48	40°24'11.974"N	104°17'24.877"W	0.00	
14317.00†	90.000	179.737	6183.00	7080.26	-6853.37	-1877.02	40°24'10.986"N	104°17'24.871"W	0.00	
14417.00†	90.000	179.737	6183.00	7178.51	-6953.37	-1876.56	40°24'09.998"N	104°17'24.865"W	0.00	



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STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

WELLPATH DATA (182 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14517.00†	90.000	179.737	6183.00	7276.77	-7053.37	-1876.10	40°24'09.010"N	104°17'24.859"W	0.00	
14617.00†	90.000	179.737	6183.00	7375.02	-7153.37	-1875.65	40°24'08.021"N	104°17'24.853"W	0.00	
14717.00†	90.000	179.737	6183.00	7473.27	-7253.37	-1875.19	40°24'07.033"N	104°17'24.847"W	0.00	
14817.00†	90.000	179.737	6183.00	7571.53	-7353.36	-1874.73	40°24'06.045"N	104°17'24.841"W	0.00	
14917.00†	90.000	179.737	6183.00	7669.78	-7453.36	-1874.27	40°24'05.057"N	104°17'24.835"W	0.00	
15017.00†	90.000	179.737	6183.00	7768.03	-7553.36	-1873.81	40°24'04.069"N	104°17'24.829"W	0.00	
15117.00†	90.000	179.737	6183.00	7866.29	-7653.36	-1873.35	40°24'03.081"N	104°17'24.823"W	0.00	
15217.00†	90.000	179.737	6183.00	7964.54	-7753.36	-1872.89	40°24'02.093"N	104°17'24.817"W	0.00	
15317.00†	90.000	179.737	6183.00	8062.79	-7853.36	-1872.43	40°24'01.104"N	104°17'24.811"W	0.00	
15417.00†	90.000	179.737	6183.00	8161.05	-7953.36	-1871.97	40°24'00.116"N	104°17'24.805"W	0.00	
15517.00†	90.000	179.737	6183.00	8259.30	-8053.36	-1871.51	40°23'59.128"N	104°17'24.799"W	0.00	
15617.00†	90.000	179.737	6183.00	8357.56	-8153.36	-1871.05	40°23'58.140"N	104°17'24.793"W	0.00	
15717.00†	90.000	179.737	6183.00	8455.81	-8253.35	-1870.59	40°23'57.152"N	104°17'24.787"W	0.00	
15817.00†	90.000	179.737	6183.00	8554.06	-8353.35	-1870.13	40°23'56.164"N	104°17'24.781"W	0.00	
15917.00†	90.000	179.737	6183.00	8652.32	-8453.35	-1869.67	40°23'55.175"N	104°17'24.775"W	0.00	
16017.00†	90.000	179.737	6183.00	8750.57	-8553.35	-1869.21	40°23'54.187"N	104°17'24.769"W	0.00	
16117.00†	90.000	179.737	6183.00	8848.82	-8653.35	-1868.75	40°23'53.199"N	104°17'24.763"W	0.00	
16217.00†	90.000	179.737	6183.00	8947.08	-8753.35	-1868.29	40°23'52.211"N	104°17'24.757"W	0.00	
16317.00†	90.000	179.737	6183.00	9045.33	-8853.35	-1867.83	40°23'51.223"N	104°17'24.751"W	0.00	
16417.00†	90.000	179.737	6183.00	9143.58	-8953.35	-1867.37	40°23'50.235"N	104°17'24.745"W	0.00	
16517.00†	90.000	179.737	6183.00	9241.84	-9053.35	-1866.91	40°23'49.247"N	104°17'24.738"W	0.00	
16617.00†	90.000	179.737	6183.00	9340.09	-9153.35	-1866.45	40°23'48.258"N	104°17'24.732"W	0.00	
16717.00†	90.000	179.737	6183.00	9438.34	-9253.34	-1865.99	40°23'47.270"N	104°17'24.726"W	0.00	
16817.00†	90.000	179.737	6183.00	9536.60	-9353.34	-1865.53	40°23'46.282"N	104°17'24.720"W	0.00	
16917.00†	90.000	179.737	6183.00	9634.85	-9453.34	-1865.07	40°23'45.294"N	104°17'24.714"W	0.00	
17017.00†	90.000	179.737	6183.00	9733.10	-9553.34	-1864.61	40°23'44.306"N	104°17'24.708"W	0.00	
17117.00†	90.000	179.737	6183.00	9831.36	-9653.34	-1864.15	40°23'43.318"N	104°17'24.702"W	0.00	
17217.00†	90.000	179.737	6183.00	9929.61	-9753.34	-1863.69	40°23'42.329"N	104°17'24.696"W	0.00	
17317.00†	90.000	179.737	6183.00	10027.86	-9853.34	-1863.23	40°23'41.341"N	104°17'24.690"W	0.00	
17417.00†	90.000	179.737	6183.00	10126.12	-9953.34	-1862.77	40°23'40.353"N	104°17'24.684"W	0.00	



Planned Wellpath Report

STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

WELLPATH DATA (182 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17517.00†	90.000	179.737	6183.00	10224.37	-10053.34	-1862.31	40°23'39.365"N	104°17'24.678"W	0.00	
17549.41	90.000	179.737	6183.00 ²	10256.22	-10085.75	-1862.16	40°23'39.045"N	104°17'24.676"W	0.00	End of Tangent (XS)

HOLE & CASING SECTIONS									
- Ref Wellbore: STATE ANTELOPE O-2-14XRLNB PWB					Ref Wellpath: STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)				
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	17.00	1550.00	1533.00	17.00	1526.65	0.00	0.00	102.32	-160.42
8.5in Open Hole	1550.00	17549.41	15999.41	1526.65	6183.00	102.32	-160.42	-10085.75	-1862.16

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
*SEC.02-T05N-R62W		29.00	4030.19	-4269.44	3334363.11	1402819.53	40°25'58.530"N	104°17'55.820"W	polygon	
*SEC.11-T05N-R62W		29.00	-10140.51	-3439.74	3335387.09	1388662.13	40°23'38.502"N	104°17'45.065"W	polygon	
*SEC.14-T05N-R62W		29.00	-10140.51	-3439.74	3335387.09	1388662.13	40°23'38.502"N	104°17'45.065"W	polygon	
2) STATE ANTELOPE O-2-14XRLNB BHL (470'FSL&2618'FEL,SEC.14)	17549.41	6183.00	-10085.75	-1862.16	3336963.70	1388738.52	40°23'39.045"N	104°17'24.676"W	point	
1) STATE ANTELOPE O-2-14XRLNB LP (330'FSL&2688'FEL,SEC.02)	6960.22	6183.00	503.33	-1910.85	3336769.77	1399325.51	40°25'23.682"N	104°17'25.316"W	point	
*SEC.11/14-T05N-R62W HARDLINES (460'SETBACK)		6213.00	-10140.51	-3439.74	3335387.09	1388662.13	40°23'38.502"N	104°17'45.065"W	polygon	



Planned Wellpath Report

STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

SURVEY PROGRAM - Ref Wellbore: STATE ANTELOPE O-2-14XRLNB PWB Ref Wellpath: STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1550.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		STATE ANTELOPE O-2-14XRLNB PWB
1550.00	17549.41	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		STATE ANTELOPE O-2-14XRLNB PWB



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STATE ANTELOPE O-2-14XRLNB PWP (REV-A.0)
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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#01 STATE ANTELOPE O-2-14XRLNB (270'FNL & 779'FEL, SEC.11)
Area	COLORADO	Well	STATE ANTELOPE O-2-14XRLNB
Field	WELD COUNTY	Wellbore	STATE ANTELOPE O-2-14XRLNB PWB
Facility	SEC.11-T5N-R62W		

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	302.531	17.00	Tie On
500.00	0.000	302.531	500.00	End of Tangent
1705.94	24.119	302.531	1670.64	End of Build (XS)
5932.35	24.119	302.531	5528.08	End of Tangent (XS)
6960.22	90.000	179.737	6183.00	End of 3D Arc (XS)
17549.41	90.000	179.737	6183.00	End of Tangent (XS)