

Planned Wellpath Report

ANTELOPE C12-W42-33HNB REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#07 ANTELOPE C12-W42-33HNB (2581'FSL & 354'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C12-W42-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE C12-W42-33HNB PWB
Facility	SEC.33-T5N-R62W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Bushjamh
Scale	0.999959	Report Generated	9/26/2018 at 1:46:02 PM
Convergence at slot	0.75° East	Database/Source file	WellArchitectDB/ANTELOPE C12-W42-33HNB REV-A.0 PWP PR.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1226.63	-41.81	3324105.58	1374665.17	40°21'21.683"N	104°20'13.236"W
Facility Reference Pt			3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"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'RKB) (RKB) to Facility Vertical Datum	4595.00ft
Horizontal Reference Pt	Slot	RIG (17'RKB) (RKB) to Mean Sea Level	4595.00ft
Vertical Reference Pt	RIG (17'RKB) (RKB)	RIG (17'RKB) (RKB) to Ground Level at Slot (SLOT#07 ANTELOPE C12-W42-33HNB (2581'FSL & 354'FWL SEC.33))	4595.00ft
MD Reference Pt	RIG (17'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	84.85°

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WELLPATH DATA (115 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	305.807	0.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
17.00	0.000	305.807	17.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	Tie On
117.00†	0.000	305.807	117.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
217.00†	0.000	305.807	217.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
317.00†	0.000	305.807	317.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
417.00†	0.000	305.807	417.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
517.00†	0.000	305.807	517.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
617.00†	0.000	305.807	617.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
717.00†	0.000	305.807	717.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
817.00†	0.000	305.807	817.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
917.00†	0.000	305.807	917.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1017.00†	0.000	305.807	1017.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1117.00†	0.000	305.807	1117.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1217.00†	0.000	305.807	1217.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1317.00†	0.000	305.807	1317.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1417.00†	0.000	305.807	1417.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1517.00†	0.000	305.807	1517.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	
1550.00	0.000	305.807	1550.00	0.00	0.00	0.00	40°21'21.683"N	104°20'13.236"W	0.00	End of Tangent
1617.00†	1.340	305.807	1616.99	-0.59	0.46	-0.64	40°21'21.687"N	104°20'13.244"W	2.00	
1717.00†	3.340	305.807	1716.91	-3.67	2.85	-3.95	40°21'21.711"N	104°20'13.287"W	2.00	
1817.00†	5.340	305.807	1816.61	-9.39	7.27	-10.08	40°21'21.755"N	104°20'13.366"W	2.00	
1917.00†	7.340	305.807	1916.00	-17.73	13.73	-19.04	40°21'21.819"N	104°20'13.482"W	2.00	
1961.38	8.228	305.807	1959.97	-22.27	17.25	-23.91	40°21'21.853"N	104°20'13.545"W	2.00	End of Build
2017.00†	8.228	305.807	2015.02	-28.28	21.91	-30.37	40°21'21.899"N	104°20'13.628"W	0.00	
2117.00†	8.228	305.807	2113.99	-39.08	30.28	-41.97	40°21'21.982"N	104°20'13.778"W	0.00	
2217.00†	8.228	305.807	2212.96	-49.89	38.65	-53.58	40°21'22.065"N	104°20'13.928"W	0.00	
2317.00†	8.228	305.807	2311.93	-60.70	47.03	-65.19	40°21'22.147"N	104°20'14.078"W	0.00	
2417.00†	8.228	305.807	2410.90	-71.51	55.40	-76.79	40°21'22.230"N	104°20'14.228"W	0.00	
2517.00†	8.228	305.807	2509.87	-82.31	63.77	-88.40	40°21'22.313"N	104°20'14.378"W	0.00	
2617.00†	8.228	305.807	2608.84	-93.12	72.14	-100.00	40°21'22.396"N	104°20'14.528"W	0.00	

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Area	COLORADO	Well	ANTELOPE C12-W42-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE C12-W42-33HNB PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2717.00†	8.228	305.807	2707.81	-103.93	80.52	-111.61	40°21'22.478"N	104°20'14.678"W	0.00	
2817.00†	8.228	305.807	2806.78	-114.73	88.89	-123.21	40°21'22.561"N	104°20'14.828"W	0.00	
2917.00†	8.228	305.807	2905.75	-125.54	97.26	-134.82	40°21'22.644"N	104°20'14.977"W	0.00	
3017.00†	8.228	305.807	3004.72	-136.35	105.63	-146.43	40°21'22.727"N	104°20'15.127"W	0.00	
3117.00†	8.228	305.807	3103.69	-147.15	114.01	-158.03	40°21'22.809"N	104°20'15.277"W	0.00	
3217.00†	8.228	305.807	3202.66	-157.96	122.38	-169.64	40°21'22.892"N	104°20'15.427"W	0.00	
3317.00†	8.228	305.807	3301.63	-168.77	130.75	-181.24	40°21'22.975"N	104°20'15.577"W	0.00	
3417.00†	8.228	305.807	3400.61	-179.57	139.12	-192.85	40°21'23.058"N	104°20'15.727"W	0.00	
3517.00†	8.228	305.807	3499.58	-190.38	147.50	-204.45	40°21'23.140"N	104°20'15.877"W	0.00	
3617.00†	8.228	305.807	3598.55	-201.19	155.87	-216.06	40°21'23.223"N	104°20'16.027"W	0.00	
3717.00†	8.228	305.807	3697.52	-211.99	164.24	-227.67	40°21'23.306"N	104°20'16.177"W	0.00	
3817.00†	8.228	305.807	3796.49	-222.80	172.61	-239.27	40°21'23.389"N	104°20'16.327"W	0.00	
3917.00†	8.228	305.807	3895.46	-233.61	180.99	-250.88	40°21'23.471"N	104°20'16.477"W	0.00	
4017.00†	8.228	305.807	3994.43	-244.42	189.36	-262.48	40°21'23.554"N	104°20'16.627"W	0.00	
4117.00†	8.228	305.807	4093.40	-255.22	197.73	-274.09	40°21'23.637"N	104°20'16.776"W	0.00	
4217.00†	8.228	305.807	4192.37	-266.03	206.10	-285.70	40°21'23.719"N	104°20'16.926"W	0.00	
4317.00†	8.228	305.807	4291.34	-276.84	214.48	-297.30	40°21'23.802"N	104°20'17.076"W	0.00	
4417.00†	8.228	305.807	4390.31	-287.64	222.85	-308.91	40°21'23.885"N	104°20'17.226"W	0.00	
4517.00†	8.228	305.807	4489.28	-298.45	231.22	-320.51	40°21'23.968"N	104°20'17.376"W	0.00	
4617.00†	8.228	305.807	4588.25	-309.26	239.59	-332.12	40°21'24.050"N	104°20'17.526"W	0.00	
4717.00†	8.228	305.807	4687.23	-320.06	247.97	-343.72	40°21'24.133"N	104°20'17.676"W	0.00	
4817.00†	8.228	305.807	4786.20	-330.87	256.34	-355.33	40°21'24.216"N	104°20'17.826"W	0.00	
4917.00†	8.228	305.807	4885.17	-341.68	264.71	-366.94	40°21'24.299"N	104°20'17.976"W	0.00	
5017.00†	8.228	305.807	4984.14	-352.48	273.08	-378.54	40°21'24.381"N	104°20'18.126"W	0.00	
5117.00†	8.228	305.807	5083.11	-363.29	281.46	-390.15	40°21'24.464"N	104°20'18.276"W	0.00	
5217.00†	8.228	305.807	5182.08	-374.10	289.83	-401.75	40°21'24.547"N	104°20'18.425"W	0.00	
5317.00†	8.228	305.807	5281.05	-384.91	298.20	-413.36	40°21'24.630"N	104°20'18.575"W	0.00	
5417.00†	8.228	305.807	5380.02	-395.71	306.57	-424.96	40°21'24.712"N	104°20'18.725"W	0.00	
5517.00†	8.228	305.807	5478.99	-406.52	314.95	-436.57	40°21'24.795"N	104°20'18.875"W	0.00	
5617.00†	8.228	305.807	5577.96	-417.33	323.32	-448.18	40°21'24.878"N	104°20'19.025"W	0.00	

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Field	WELD COUNTY	Wellbore	ANTELOPE C12-W42-33HNB PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5647.36	8.228	305.807	5608.01	-420.61	325.86	-451.70	40°21'24.903"N	104°20'19.071"W	0.00	End of Tangent
5717.00†	4.869	3.526	5677.25	-423.93	331.73	-455.56	40°21'24.961"N	104°20'19.121"W	10.00	
5817.00†	11.392	64.845	5776.34	-413.98	340.19	-446.34	40°21'25.044"N	104°20'19.001"W	10.00	
5917.00†	20.865	76.913	5872.32	-387.00	348.44	-419.99	40°21'25.126"N	104°20'18.661"W	10.00	
6017.00†	30.666	81.557	5962.27	-343.79	356.24	-377.31	40°21'25.203"N	104°20'18.110"W	10.00	
6117.00†	40.558	84.099	6043.47	-285.67	363.34	-319.60	40°21'25.273"N	104°20'17.364"W	10.00	
6217.00†	50.487	85.779	6113.45	-214.41	369.54	-248.61	40°21'25.334"N	104°20'16.447"W	10.00	
6317.00†	60.433	87.035	6170.08	-132.18	374.64	-166.50	40°21'25.385"N	104°20'15.387"W	10.00	
6417.00†	70.390	88.064	6211.64	-41.47	378.49	-75.77	40°21'25.423"N	104°20'14.215"W	10.00	
6517.00†	80.351	88.971	6236.87	54.97	380.97	20.84	40°21'25.447"N	104°20'12.967"W	10.00	
6613.84	90.000	89.799	6245.00†	151.05	382.00	117.21	40°21'25.458"N	104°20'11.722"W	10.00	End of 3D Arc
6617.00†	90.000	89.799	6245.00	154.20	382.01	120.37	40°21'25.458"N	104°20'11.681"W	0.00	
6717.00†	90.000	89.799	6245.00	253.82	382.36	220.37	40°21'25.461"N	104°20'10.389"W	0.00	
6817.00†	90.000	89.799	6245.00	353.45	382.71	320.37	40°21'25.465"N	104°20'09.098"W	0.00	
6917.00†	90.000	89.799	6245.00	453.08	383.06	420.37	40°21'25.468"N	104°20'07.806"W	0.00	
7017.00†	90.000	89.799	6245.00	552.70	383.41	520.37	40°21'25.472"N	104°20'06.514"W	0.00	
7117.00†	90.000	89.799	6245.00	652.33	383.76	620.37	40°21'25.475"N	104°20'05.223"W	0.00	
7217.00†	90.000	89.799	6245.00	751.96	384.11	720.37	40°21'25.478"N	104°20'03.931"W	0.00	
7317.00†	90.000	89.799	6245.00	851.58	384.46	820.37	40°21'25.482"N	104°20'02.639"W	0.00	
7417.00†	90.000	89.799	6245.00	951.21	384.81	920.37	40°21'25.485"N	104°20'01.347"W	0.00	
7517.00†	90.000	89.799	6245.00	1050.84	385.16	1020.37	40°21'25.489"N	104°20'00.056"W	0.00	
7617.00†	90.000	89.799	6245.00	1150.46	385.51	1120.37	40°21'25.492"N	104°19'58.764"W	0.00	
7717.00†	90.000	89.799	6245.00	1250.09	385.86	1220.37	40°21'25.495"N	104°19'57.472"W	0.00	
7817.00†	90.000	89.799	6245.00	1349.72	386.21	1320.37	40°21'25.499"N	104°19'56.181"W	0.00	
7917.00†	90.000	89.799	6245.00	1449.34	386.56	1420.36	40°21'25.502"N	104°19'54.889"W	0.00	
8017.00†	90.000	89.799	6245.00	1548.97	386.91	1520.36	40°21'25.506"N	104°19'53.597"W	0.00	
8117.00†	90.000	89.799	6245.00	1648.60	387.26	1620.36	40°21'25.509"N	104°19'52.305"W	0.00	
8217.00†	90.000	89.799	6245.00	1748.22	387.61	1720.36	40°21'25.512"N	104°19'51.014"W	0.00	
8317.00†	90.000	89.799	6245.00	1847.85	387.96	1820.36	40°21'25.516"N	104°19'49.722"W	0.00	
8417.00†	90.000	89.799	6245.00	1947.48	388.31	1920.36	40°21'25.519"N	104°19'48.430"W	0.00	

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8517.00†	90.000	89.799	6245.00	2047.10	388.66	2020.36	40°21'25.523"N	104°19'47.139"W	0.00	
8617.00†	90.000	89.799	6245.00	2146.73	389.01	2120.36	40°21'25.526"N	104°19'45.847"W	0.00	
8717.00†	90.000	89.799	6245.00	2246.36	389.36	2220.36	40°21'25.529"N	104°19'44.555"W	0.00	
8817.00†	90.000	89.799	6245.00	2345.98	389.71	2320.36	40°21'25.533"N	104°19'43.264"W	0.00	
8917.00†	90.000	89.799	6245.00	2445.61	390.06	2420.36	40°21'25.536"N	104°19'41.972"W	0.00	
9017.00†	90.000	89.799	6245.00	2545.24	390.41	2520.36	40°21'25.539"N	104°19'40.680"W	0.00	
9117.00†	90.000	89.799	6245.00	2644.86	390.76	2620.36	40°21'25.543"N	104°19'39.388"W	0.00	
9217.00†	90.000	89.799	6245.00	2744.49	391.11	2720.36	40°21'25.546"N	104°19'38.097"W	0.00	
9317.00†	90.000	89.799	6245.00	2844.12	391.46	2820.36	40°21'25.550"N	104°19'36.805"W	0.00	
9417.00†	90.000	89.799	6245.00	2943.74	391.81	2920.36	40°21'25.553"N	104°19'35.513"W	0.00	
9517.00†	90.000	89.799	6245.00	3043.37	392.16	3020.36	40°21'25.556"N	104°19'34.222"W	0.00	
9617.00†	90.000	89.799	6245.00	3143.00	392.51	3120.35	40°21'25.560"N	104°19'32.930"W	0.00	
9717.00†	90.000	89.799	6245.00	3242.62	392.86	3220.35	40°21'25.563"N	104°19'31.638"W	0.00	
9817.00†	90.000	89.799	6245.00	3342.25	393.21	3320.35	40°21'25.566"N	104°19'30.346"W	0.00	
9917.00†	90.000	89.799	6245.00	3441.88	393.56	3420.35	40°21'25.570"N	104°19'29.055"W	0.00	
10017.00†	90.000	89.799	6245.00	3541.50	393.91	3520.35	40°21'25.573"N	104°19'27.763"W	0.00	
10117.00†	90.000	89.799	6245.00	3641.13	394.26	3620.35	40°21'25.576"N	104°19'26.471"W	0.00	
10217.00†	90.000	89.799	6245.00	3740.76	394.61	3720.35	40°21'25.579"N	104°19'25.180"W	0.00	
10317.00†	90.000	89.799	6245.00	3840.38	394.96	3820.35	40°21'25.583"N	104°19'23.888"W	0.00	
10417.00†	90.000	89.799	6245.00	3940.01	395.31	3920.35	40°21'25.586"N	104°19'22.596"W	0.00	
10517.00†	90.000	89.799	6245.00	4039.64	395.66	4020.35	40°21'25.589"N	104°19'21.304"W	0.00	
10617.00†	90.000	89.799	6245.00	4139.26	396.01	4120.35	40°21'25.593"N	104°19'20.013"W	0.00	
10717.00†	90.000	89.799	6245.00	4238.89	396.36	4220.35	40°21'25.596"N	104°19'18.721"W	0.00	
10817.00†	90.000	89.799	6245.00	4338.52	396.71	4320.35	40°21'25.599"N	104°19'17.429"W	0.00	
10898.87	90.000	89.799	6245.00 ²	4420.08	397.00	4402.21	40°21'25.602"N	104°19'16.372"W	0.00	End of Tangent

Planned Wellpath Report

ANTELOPE C12-W42-33HNB REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#07 ANTELOPE C12-W42-33HNB (2581'FSL & 354'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C12-W42-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE C12-W42-33HNB PWB
Facility	SEC.33-T5N-R62W		

HOLE & CASING SECTIONS - Ref Wellbore: ANTELOPE C12-W42-33HNB PWB Ref Wellpath: ANTELOPE C12-W42-33HNB 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 Intermediate	17.00	1550.00	1533.00	17.00	1550.00	0.00	0.00	0.00	0.00
8.5in Open Hole	1550.00	10898.00	9348.00	1550.00	6245.00	0.00	0.00	396.99	4401.35

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ANTELOPE 11-41-33HNB SECTION 33		-1.00	1226.63	41.80	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
ANTELOPE 11-41-33HNB HARDLINE (460' SETBACK)		6245.00	1226.63	41.80	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
2) ANTELOPE C12-W42-33HNB BHL REV-1 (2303'FNL & 470'FEL SEC.33)	10898.87	6245.00	397.00	4402.21	3328502.02	1375119.85	40°21'25.602"N	104°19'16.372"W	point
1) ANTELOPE C12-W42-33HNB LP REV-1 (2309'FNL & 470'FWL SEC.33)	6613.84	6245.00	382.00	117.21	3324217.77	1375048.66	40°21'25.458"N	104°20'11.722"W	point

SURVEY PROGRAM - Ref Wellbore: ANTELOPE C12-W42-33HNB PWB Ref Wellpath: ANTELOPE C12-W42-33HNB REV-A.0 PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1550.00	BHI NaviTrak (Rotating)		ANTELOPE C12-W42-33HNB PWB
1550.00	10898.87	BHI AutoTrak Curve (Short)		ANTELOPE C12-W42-33HNB PWB

Planned Wellpath Report

ANTELOPE C12-W42-33HNB REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#07 ANTELOPE C12-W42-33HNB (2581'FSL & 354'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C12-W42-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE C12-W42-33HNB PWB
Facility	SEC.33-T5N-R62W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	305.807	17.00	Tie On
1550.00	0.000	305.807	1550.00	End of Tangent
1961.38	8.228	305.807	1959.97	End of Build
5647.36	8.228	305.807	5608.01	End of Tangent
6613.84	90.000	89.799	6245.00	End of 3D Arc
10898.87	90.000	89.799	6245.00	End of Tangent