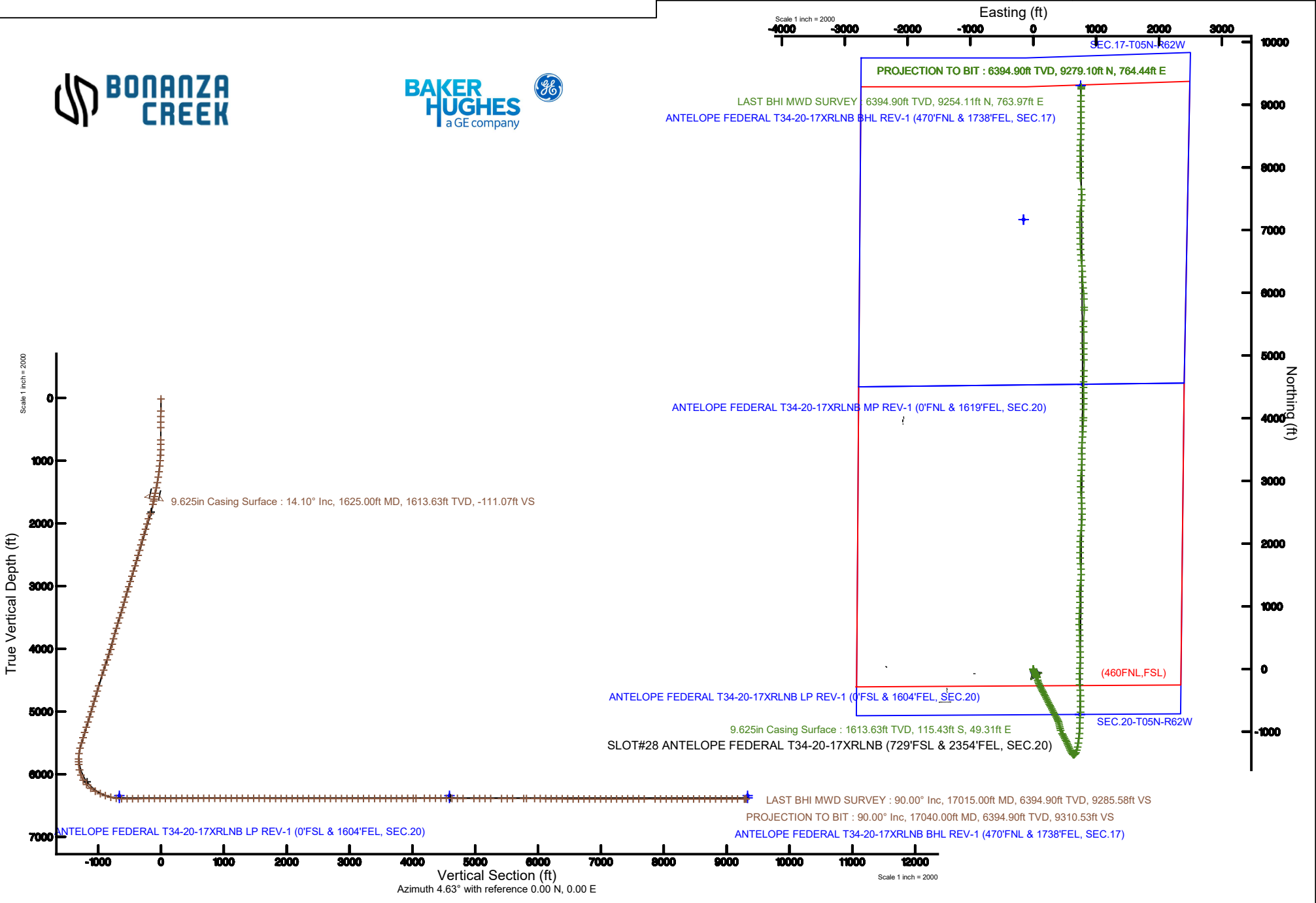


BONANZA CREEK ENERGY

Location: COLORADO Slot: SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729°FSL & 2354°FEL, SEC.20)
Field: WELD COUNTY (NAD83/TRUE) Well: ANTELOPE FEDERAL T34-20-17XRLNB
Facility: SEC.20-T05N-R62W Wellbore: ANTELOPE FEDERAL T34-20-17XRLNB PWB

Plot reference wellpath is ANTELOPE FEDERAL T34-20-17XRLNB (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4656°GL+17°KB@4673') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4656°GL+17°KB@4673') (RKB)	Scale: True distance
AKITA 519 (4656°GL+17°KB@4673') (RKB) to Mean Sea Level: 4673 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729°FSL & 2354°FEL, SEC.20)): 0 feet	Created by: doddanna on 2019-07-01
Coordinates are in feet referenced to Slot	Database: WellArchitectDB



Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Doddanna
Scale	0.999959	Report Generated	7/1/2019 at 8:55:01 AM
Convergence at slot	0.75° East	Database/Source file	WellArchitectDB/ANTELOPE_FEDERAL_T34-20-17XRLNB_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-31.97	2334.17	3321316.83	1383317.52	40°22'47.539"N	104°20'47.803"W
Facility Reference Pt			3318982.55	1383319.35	40°22'47.856"N	104°21'17.964"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

WELLPATH DATUM			
Calculation method	Minimum curvature	AKITA 519 (4656'GL+17'KB@4673') (RKB) to Facility Vertical Datum	4673.00ft
Horizontal Reference Pt	Slot	AKITA 519 (4656'GL+17'KB@4673') (RKB) to Mean Sea Level	4673.00ft
Vertical Reference Pt	AKITA 519 (4656'GL+17'KB@4673') (RKB)	AKITA 519 (4656'GL+17'KB@4673') (RKB) to Ground Level at Slot (SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20))	4673.00ft
MD Reference Pt	AKITA 519 (4656'GL+17'KB@4673') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	4.63°

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 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	188.410	0.00	0.00	0.00	0.00	40°22'47.539"N	104°20'47.803"W	0.00	
17.00	0.000	188.410	17.00	0.00	0.00	0.00	40°22'47.539"N	104°20'47.803"W	0.00	
209.00	0.680	188.410	209.00	-1.14	-1.13	-0.17	40°22'47.528"N	104°20'47.805"W	0.35	
297.00	0.540	162.650	296.99	-2.04	-2.04	-0.12	40°22'47.519"N	104°20'47.805"W	0.35	
387.00	0.810	178.720	386.98	-3.07	-3.08	0.02	40°22'47.509"N	104°20'47.803"W	0.36	
474.00	0.330	315.910	473.98	-3.51	-3.52	-0.14	40°22'47.504"N	104°20'47.805"W	1.24	
670.00	0.540	291.980	669.98	-2.87	-2.76	-1.39	40°22'47.512"N	104°20'47.821"W	0.14	
738.00	0.110	209.940	737.98	-2.83	-2.70	-1.72	40°22'47.512"N	104°20'47.825"W	0.79	
826.00	1.770	168.410	825.96	-4.21	-4.11	-1.49	40°22'47.498"N	104°20'47.822"W	1.92	
913.00	3.210	158.660	912.88	-7.69	-7.69	-0.33	40°22'47.463"N	104°20'47.807"W	1.72	
1000.00	5.020	159.120	999.65	-13.32	-13.52	1.91	40°22'47.405"N	104°20'47.778"W	2.08	
1088.00	6.500	156.410	1087.20	-21.18	-21.68	5.28	40°22'47.325"N	104°20'47.735"W	1.71	
1177.00	8.390	152.790	1175.45	-31.14	-32.07	10.26	40°22'47.222"N	104°20'47.670"W	2.19	
1265.00	9.950	158.580	1262.32	-43.42	-44.86	15.98	40°22'47.096"N	104°20'47.597"W	2.06	
1353.00	11.450	158.220	1348.79	-58.08	-60.05	21.99	40°22'46.946"N	104°20'47.519"W	1.71	
1440.00	12.740	156.380	1433.86	-74.26	-76.86	29.04	40°22'46.780"N	104°20'47.428"W	1.55	
1528.00	13.750	153.740	1519.52	-91.78	-95.13	37.56	40°22'46.599"N	104°20'47.318"W	1.34	
1582.00	14.110	148.470	1571.93	-102.61	-106.49	43.84	40°22'46.487"N	104°20'47.237"W	2.44	
1655.00	14.100	148.580	1642.73	-116.98	-121.67	53.13	40°22'46.337"N	104°20'47.117"W	0.04	
1709.00	14.430	156.830	1695.07	-128.25	-133.47	59.20	40°22'46.220"N	104°20'47.038"W	3.81	
1866.00	19.490	171.160	1845.26	-171.07	-177.38	70.94	40°22'45.786"N	104°20'46.886"W	4.16	
1952.00	19.310	160.840	1926.40	-198.04	-204.99	77.81	40°22'45.513"N	104°20'46.798"W	3.99	
2040.00	17.800	158.050	2009.82	-223.38	-231.21	87.62	40°22'45.254"N	104°20'46.671"W	1.99	
2128.00	18.000	153.780	2093.57	-247.09	-255.89	98.65	40°22'45.010"N	104°20'46.528"W	1.51	
2216.00	18.490	154.100	2177.14	-270.78	-280.64	110.75	40°22'44.766"N	104°20'46.372"W	0.57	
2305.00	18.030	153.130	2261.66	-294.68	-305.62	123.14	40°22'44.519"N	104°20'46.212"W	0.62	
2392.00	18.430	152.330	2344.30	-317.78	-329.81	135.62	40°22'44.280"N	104°20'46.051"W	0.54	
2481.00	18.070	151.520	2428.82	-341.23	-354.40	148.73	40°22'44.037"N	104°20'45.881"W	0.49	
2568.00	18.110	152.550	2511.52	-363.99	-378.26	161.40	40°22'43.801"N	104°20'45.718"W	0.37	
2656.00	18.920	153.820	2594.96	-387.84	-403.20	174.00	40°22'43.555"N	104°20'45.555"W	1.03	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2743.00	19.150	153.990	2677.21	-412.23	-428.69	186.48	40°22'43.303"N	104°20'45.393"W	0.27	
2832.00	19.960	153.780	2761.07	-437.83	-455.43	199.59	40°22'43.039"N	104°20'45.224"W	0.91	
2919.00	19.700	152.230	2842.91	-462.96	-481.73	212.98	40°22'42.779"N	104°20'45.051"W	0.67	
3008.00	19.470	152.550	2926.76	-488.19	-508.17	226.81	40°22'42.517"N	104°20'44.872"W	0.29	
3096.00	19.340	152.900	3009.77	-513.01	-534.15	240.21	40°22'42.261"N	104°20'44.699"W	0.20	
3183.00	19.900	152.980	3091.71	-537.87	-560.17	253.50	40°22'42.004"N	104°20'44.527"W	0.64	
3271.00	18.670	151.440	3174.77	-562.40	-585.88	267.04	40°22'41.749"N	104°20'44.353"W	1.51	
3358.00	18.020	150.520	3257.35	-585.20	-609.83	280.32	40°22'41.513"N	104°20'44.181"W	0.82	
3445.00	18.970	152.380	3339.86	-608.30	-634.07	293.50	40°22'41.273"N	104°20'44.011"W	1.29	
3534.00	19.670	153.590	3423.85	-633.37	-660.30	306.86	40°22'41.014"N	104°20'43.838"W	0.91	
3622.00	19.750	153.920	3506.69	-658.84	-686.92	319.99	40°22'40.751"N	104°20'43.668"W	0.16	
3710.00	19.640	151.310	3589.54	-683.98	-713.25	333.63	40°22'40.491"N	104°20'43.492"W	1.01	
3799.00	19.910	151.140	3673.30	-709.12	-739.64	348.12	40°22'40.230"N	104°20'43.305"W	0.31	
3888.00	19.820	151.300	3757.00	-734.36	-766.15	362.68	40°22'39.968"N	104°20'43.117"W	0.12	
3976.00	15.230	147.810	3840.90	-756.09	-789.03	376.01	40°22'39.742"N	104°20'42.945"W	5.35	
4065.00	17.150	153.270	3926.37	-776.65	-810.65	388.14	40°22'39.528"N	104°20'42.788"W	2.75	
4152.00	19.000	158.680	4009.08	-800.35	-835.30	399.06	40°22'39.285"N	104°20'42.647"W	2.87	
4240.00	19.800	166.340	4092.09	-827.38	-863.13	407.79	40°22'39.010"N	104°20'42.534"W	3.03	
4329.00	19.660	168.250	4175.87	-856.06	-892.44	414.40	40°22'38.720"N	104°20'42.449"W	0.74	
4417.00	19.810	167.630	4258.70	-884.52	-921.50	420.61	40°22'38.433"N	104°20'42.368"W	0.29	
4503.00	19.630	165.090	4339.66	-912.07	-949.69	427.45	40°22'38.154"N	104°20'42.280"W	1.02	
4591.00	19.750	163.140	4422.51	-939.84	-978.21	435.56	40°22'37.873"N	104°20'42.175"W	0.76	
4768.00	18.420	150.140	4589.86	-990.74	-1031.10	458.17	40°22'37.350"N	104°20'41.883"W	2.51	
4857.00	19.300	150.380	4674.08	-1014.48	-1056.09	472.44	40°22'37.103"N	104°20'41.699"W	0.99	
4944.00	19.890	152.390	4756.04	-1038.88	-1081.70	486.41	40°22'36.850"N	104°20'41.518"W	1.03	
5032.00	19.850	151.160	4838.80	-1064.01	-1108.05	500.55	40°22'36.590"N	104°20'41.335"W	0.48	
5120.00	19.550	149.590	4921.65	-1088.53	-1133.84	515.21	40°22'36.335"N	104°20'41.146"W	0.69	
5207.00	18.920	152.360	5003.80	-1112.37	-1158.89	529.12	40°22'36.087"N	104°20'40.966"W	1.27	
5294.00	18.500	158.220	5086.21	-1136.66	-1184.20	540.79	40°22'35.837"N	104°20'40.816"W	2.21	
5382.00	19.280	158.540	5169.47	-1162.21	-1210.69	551.28	40°22'35.575"N	104°20'40.680"W	0.89	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5470.00	19.800	155.410	5252.40	-1188.27	-1237.76	562.80	40°22'35.308"N	104°20'40.531"W	1.33	
5558.00	19.830	153.770	5335.19	-1214.09	-1264.70	575.60	40°22'35.042"N	104°20'40.366"W	0.63	
5646.00	18.770	156.310	5418.24	-1239.37	-1291.06	587.89	40°22'34.781"N	104°20'40.207"W	1.54	
5734.00	19.240	154.100	5501.45	-1264.32	-1317.07	599.91	40°22'34.524"N	104°20'40.052"W	0.98	
5823.00	18.170	147.270	5585.76	-1287.98	-1341.94	613.82	40°22'34.278"N	104°20'39.872"W	2.74	
5911.00	12.450	131.490	5670.63	-1304.60	-1359.78	628.36	40°22'34.102"N	104°20'39.684"W	7.99	
6000.00	6.700	100.760	5758.41	-1310.92	-1367.12	640.67	40°22'34.029"N	104°20'39.525"W	8.43	
6044.00	6.680	70.910	5802.12	-1310.16	-1366.76	645.61	40°22'34.033"N	104°20'39.461"W	7.82	
6087.00	8.670	63.920	5844.74	-1307.50	-1364.52	650.88	40°22'34.055"N	104°20'39.393"W	5.10	
6176.00	13.370	50.020	5932.09	-1296.84	-1354.95	664.80	40°22'34.150"N	104°20'39.213"W	6.03	
6263.00	21.700	26.140	6015.07	-1274.74	-1333.99	679.64	40°22'34.357"N	104°20'39.021"W	12.47	
6352.00	31.650	17.430	6094.53	-1236.55	-1296.83	693.93	40°22'34.724"N	104°20'38.837"W	11.98	
6440.00	42.470	11.770	6164.67	-1184.39	-1245.55	706.94	40°22'35.231"N	104°20'38.669"W	12.88	
6528.00	53.770	7.930	6223.33	-1119.25	-1181.09	717.94	40°22'35.868"N	104°20'38.527"W	13.24	
6617.00	61.270	7.500	6271.09	-1044.34	-1106.74	728.00	40°22'36.602"N	104°20'38.397"W	8.44	
6705.00	65.940	4.850	6310.21	-965.57	-1028.40	736.44	40°22'37.377"N	104°20'38.287"W	5.95	
6793.00	71.230	0.820	6342.34	-883.74	-946.63	740.44	40°22'38.185"N	104°20'38.236"W	7.37	
6881.00	74.030	0.250	6368.61	-799.97	-862.65	741.22	40°22'39.014"N	104°20'38.226"W	3.24	
6970.00	83.370	4.600	6386.04	-712.88	-775.58	744.96	40°22'39.875"N	104°20'38.177"W	11.53	
7057.00	89.880	3.730	6391.16	-626.08	-689.00	751.26	40°22'40.730"N	104°20'38.096"W	7.55	
7144.00	90.460	358.600	6390.90	-539.27	-602.05	753.03	40°22'41.590"N	104°20'38.073"W	5.93	
7231.00	90.090	359.140	6390.48	-452.71	-515.07	751.31	40°22'42.449"N	104°20'38.095"W	0.75	
7320.00	90.490	0.600	6390.03	-364.02	-426.07	751.11	40°22'43.329"N	104°20'38.098"W	1.70	
7407.00	90.490	353.820	6389.28	-277.81	-339.23	746.88	40°22'44.187"N	104°20'38.152"W	7.79	
7496.00	90.280	354.170	6388.69	-190.34	-250.72	737.57	40°22'45.061"N	104°20'38.273"W	0.46	
7584.00	90.250	359.170	6388.28	-103.21	-162.90	732.46	40°22'45.929"N	104°20'38.339"W	5.68	
7671.00	90.280	4.580	6387.88	-16.35	-75.98	735.30	40°22'46.788"N	104°20'38.302"W	6.22	
7758.00	90.220	0.600	6387.50	70.58	10.91	739.23	40°22'47.647"N	104°20'38.251"W	4.58	
7844.00	90.060	3.160	6387.29	156.47	96.86	742.06	40°22'48.496"N	104°20'38.214"W	2.98	
7932.00	90.370	3.600	6386.96	244.45	184.71	747.24	40°22'49.364"N	104°20'38.147"W	0.61	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8020.00	90.120	355.140	6386.58	332.00	272.62	746.28	40°22'50.233"N	104°20'38.160"W	9.62	
8107.00	89.880	356.190	6386.58	417.93	359.37	739.70	40°22'51.090"N	104°20'38.245"W	1.24	
8195.00	89.970	2.210	6386.70	505.50	447.32	738.47	40°22'51.959"N	104°20'38.261"W	6.84	
8283.00	90.860	359.310	6386.06	593.28	535.30	739.64	40°22'52.829"N	104°20'38.246"W	3.45	
8371.00	90.580	355.300	6384.95	680.54	623.18	735.50	40°22'53.697"N	104°20'38.299"W	4.57	
8458.00	89.880	358.070	6384.60	766.70	710.02	730.47	40°22'54.555"N	104°20'38.364"W	3.28	
8546.00	89.940	2.460	6384.74	854.42	798.00	730.88	40°22'55.424"N	104°20'38.359"W	4.99	
8635.00	90.150	2.260	6384.67	943.35	886.92	734.55	40°22'56.303"N	104°20'38.311"W	0.33	
8723.00	89.970	4.000	6384.58	1031.31	974.79	739.35	40°22'57.171"N	104°20'38.249"W	1.99	
8812.00	90.220	359.860	6384.43	1120.20	1063.72	742.35	40°22'58.050"N	104°20'38.210"W	4.66	
8901.00	90.310	358.240	6384.02	1208.77	1152.70	740.87	40°22'58.930"N	104°20'38.229"W	1.82	
8989.00	89.880	0.270	6383.87	1296.38	1240.69	739.73	40°22'59.799"N	104°20'38.244"W	2.36	
9078.00	89.910	7.060	6384.04	1385.31	1329.46	745.41	40°23'00.676"N	104°20'38.171"W	7.63	
9166.00	89.380	7.250	6384.58	1473.23	1416.77	756.37	40°23'01.539"N	104°20'38.029"W	0.64	
9254.00	89.380	0.630	6385.53	1561.17	1504.51	762.42	40°23'02.406"N	104°20'37.951"W	7.52	
9342.00	89.510	354.400	6386.39	1648.44	1592.38	758.60	40°23'03.274"N	104°20'38.000"W	7.08	
9431.00	89.230	354.500	6387.37	1736.03	1680.95	750.00	40°23'04.150"N	104°20'38.111"W	0.33	
9519.00	89.420	358.390	6388.40	1823.11	1768.76	744.54	40°23'05.017"N	104°20'38.182"W	4.43	
9606.00	90.000	1.890	6388.84	1909.83	1855.75	744.75	40°23'05.877"N	104°20'38.179"W	4.08	
9695.00	89.940	359.650	6388.89	1998.62	1944.73	745.95	40°23'06.756"N	104°20'38.163"W	2.52	
9784.00	90.150	1.700	6388.82	2087.41	2033.72	747.00	40°23'07.635"N	104°20'38.150"W	2.32	
9871.00	89.940	3.480	6388.75	2174.35	2120.63	750.93	40°23'08.494"N	104°20'38.099"W	2.06	
9958.00	90.250	6.940	6388.61	2261.33	2207.26	758.83	40°23'09.350"N	104°20'37.997"W	3.99	
10046.00	90.310	6.390	6388.18	2349.27	2294.66	769.04	40°23'10.214"N	104°20'37.865"W	0.63	
10134.00	90.000	2.380	6387.94	2437.25	2382.39	775.77	40°23'11.081"N	104°20'37.778"W	4.57	
10220.00	89.260	359.550	6388.50	2523.07	2468.36	777.22	40°23'11.930"N	104°20'37.759"W	3.40	
10307.00	89.970	357.010	6389.08	2609.52	2555.31	774.61	40°23'12.790"N	104°20'37.793"W	3.03	
10395.00	89.940	355.730	6389.15	2696.61	2643.13	769.03	40°23'13.657"N	104°20'37.865"W	1.45	
10483.00	89.850	355.920	6389.31	2783.57	2730.90	762.63	40°23'14.525"N	104°20'37.948"W	0.24	
10572.00	90.060	356.960	6389.38	2871.66	2819.73	757.10	40°23'15.402"N	104°20'38.019"W	1.19	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10660.00	89.940	358.440	6389.38	2959.01	2907.65	753.57	40°23'16.271°N	104°20'38.065°W	1.69	
10748.00	89.880	1.900	6389.52	3046.73	2995.64	753.83	40°23'17.141°N	104°20'38.061°W	3.93	
10836.00	89.970	3.910	6389.63	3134.69	3083.52	758.29	40°23'18.009°N	104°20'38.004°W	2.29	
10922.00	90.550	5.220	6389.24	3220.69	3169.25	765.13	40°23'18.856°N	104°20'37.915°W	1.67	
11011.00	90.580	1.240	6388.37	3309.64	3258.08	770.15	40°23'19.734°N	104°20'37.850°W	4.47	
11099.00	90.120	0.690	6387.83	3397.46	3346.07	771.63	40°23'20.604°N	104°20'37.831°W	0.81	
11188.00	90.000	358.530	6387.74	3486.11	3435.06	771.02	40°23'21.483°N	104°20'37.839°W	2.43	
11276.00	90.030	1.430	6387.71	3573.81	3523.05	770.99	40°23'22.352°N	104°20'37.839°W	3.30	
11364.00	89.940	4.750	6387.74	3661.76	3610.91	775.74	40°23'23.221°N	104°20'37.778°W	3.77	
11452.00	89.970	5.060	6387.80	3749.76	3698.59	783.26	40°23'24.087°N	104°20'37.681°W	0.35	
11538.00	90.400	2.800	6387.53	3835.75	3784.38	789.15	40°23'24.935°N	104°20'37.604°W	2.68	
11627.00	90.550	2.980	6386.79	3924.71	3873.26	793.64	40°23'25.813°N	104°20'37.546°W	0.26	
11716.00	89.720	1.550	6386.58	4013.63	3962.19	797.16	40°23'26.692°N	104°20'37.501°W	1.86	
11761.00	90.150	1.390	6386.63	4058.56	4007.18	798.31	40°23'27.136°N	104°20'37.486°W	1.02	
11894.00	90.710	0.460	6385.63	4191.27	4140.15	800.46	40°23'28.450°N	104°20'37.458°W	0.82	
11981.00	89.660	1.230	6385.35	4278.08	4227.14	801.74	40°23'29.310°N	104°20'37.441°W	1.50	
12069.00	89.880	359.190	6385.70	4365.82	4315.14	802.07	40°23'30.180°N	104°20'37.437°W	2.33	
12157.00	90.030	359.440	6385.77	4453.44	4403.13	801.01	40°23'31.049°N	104°20'37.451°W	0.33	
12244.00	89.850	359.650	6385.86	4540.09	4490.13	800.32	40°23'31.909°N	104°20'37.460°W	0.32	
12333.00	89.570	0.670	6386.31	4628.82	4579.12	800.57	40°23'32.788°N	104°20'37.456°W	1.19	
12422.00	89.540	1.320	6387.01	4717.64	4668.11	802.12	40°23'33.668°N	104°20'37.436°W	0.73	
12510.00	89.570	3.520	6387.69	4805.56	4756.02	805.83	40°23'34.536°N	104°20'37.388°W	2.50	
12686.00	89.850	357.270	6388.58	4980.99	4931.93	807.05	40°23'36.274°N	104°20'37.373°W	3.55	
12774.00	90.030	357.340	6388.67	5068.27	5019.83	802.91	40°23'37.143°N	104°20'37.426°W	0.22	
12862.00	89.820	0.880	6388.79	5155.85	5107.80	801.54	40°23'38.012°N	104°20'37.444°W	4.03	
12951.00	89.820	2.910	6389.07	5244.75	5196.75	804.48	40°23'38.891°N	104°20'37.406°W	2.28	
13128.00	89.780	355.420	6389.69	5420.81	5373.61	801.91	40°23'40.639°N	104°20'37.439°W	4.23	
13216.00	90.180	358.940	6389.72	5508.06	5461.48	797.58	40°23'41.507°N	104°20'37.495°W	4.03	
13303.00	90.180	6.410	6389.44	5594.94	5548.33	801.63	40°23'42.366°N	104°20'37.442°W	8.59	
13479.00	90.120	358.610	6388.98	5770.69	5724.02	809.34	40°23'44.102°N	104°20'37.343°W	4.43	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13523.00	89.880	359.300	6388.98	5814.47	5768.01	808.53	40°23'44.536"N	104°20'37.353"W	1.66	
13655.00	89.850	359.730	6389.29	5945.94	5900.01	807.42	40°23'45.841"N	104°20'37.367"W	0.33	
13744.00	89.820	353.140	6389.55	6033.99	5988.79	801.89	40°23'46.718"N	104°20'37.439"W	7.40	
13832.00	89.380	355.080	6390.16	6120.50	6076.32	792.86	40°23'47.583"N	104°20'37.556"W	2.26	
13920.00	89.380	356.670	6391.12	6207.47	6164.08	786.53	40°23'48.450"N	104°20'37.637"W	1.81	
14009.00	89.380	358.550	6392.08	6295.79	6252.99	782.82	40°23'49.329"N	104°20'37.685"W	2.11	
14097.00	89.540	357.040	6392.91	6383.16	6340.92	779.43	40°23'50.198"N	104°20'37.729"W	1.73	
14186.00	89.320	353.730	6393.80	6470.98	6429.62	772.27	40°23'51.074"N	104°20'37.821"W	3.73	
14274.00	89.450	354.720	6394.74	6557.53	6517.16	763.42	40°23'51.939"N	104°20'37.936"W	1.13	
14362.00	90.060	356.230	6395.12	6644.40	6604.89	756.47	40°23'52.806"N	104°20'38.026"W	1.85	
14449.00	89.970	357.230	6395.09	6730.58	6691.74	751.51	40°23'53.664"N	104°20'38.090"W	1.15	
14537.00	90.030	358.970	6395.09	6818.00	6779.69	748.59	40°23'54.533"N	104°20'38.127"W	1.98	
14625.00	89.970	0.020	6395.09	6905.65	6867.69	747.82	40°23'55.403"N	104°20'38.137"W	1.20	
14713.00	90.120	357.720	6395.02	6993.20	6955.66	746.08	40°23'56.272"N	104°20'38.160"W	2.62	
14800.00	90.090	357.500	6394.86	7079.54	7042.59	742.45	40°23'57.131"N	104°20'38.207"W	0.26	
14885.00	90.400	0.580	6394.50	7164.13	7127.57	741.03	40°23'57.971"N	104°20'38.225"W	3.64	
14972.00	90.000	0.990	6394.20	7250.93	7214.56	742.22	40°23'58.831"N	104°20'38.210"W	0.66	
15060.00	90.310	6.770	6393.96	7338.89	7302.32	748.17	40°23'59.698"N	104°20'38.133"W	6.58	
15148.00	90.090	8.400	6393.65	7426.77	7389.54	759.79	40°24'00.560"N	104°20'37.982"W	1.87	
15236.00	89.940	4.040	6393.63	7514.71	7477.00	769.32	40°24'01.424"N	104°20'37.859"W	4.96	
15324.00	89.910	0.570	6393.74	7602.63	7564.92	772.86	40°24'02.293"N	104°20'37.813"W	3.94	
15412.00	89.940	352.030	6393.86	7689.62	7652.65	767.19	40°24'03.160"N	104°20'37.887"W	9.70	
15588.00	90.030	356.270	6393.91	7862.64	7827.70	749.25	40°24'04.889"N	104°20'38.118"W	2.41	
15676.00	89.880	358.210	6393.97	7949.90	7915.59	745.02	40°24'05.758"N	104°20'38.173"W	2.21	
15765.00	89.940	0.220	6394.11	8038.50	8004.58	743.80	40°24'06.637"N	104°20'38.189"W	2.26	
15851.00	89.910	2.290	6394.23	8124.35	8090.55	745.68	40°24'07.487"N	104°20'38.165"W	2.41	
15940.00	89.940	359.320	6394.34	8213.14	8179.53	746.93	40°24'08.366"N	104°20'38.148"W	3.34	
16027.00	89.940	359.980	6394.43	8299.81	8266.53	746.40	40°24'09.226"N	104°20'38.155"W	0.76	
16114.00	90.060	1.450	6394.43	8386.60	8353.52	747.48	40°24'10.085"N	104°20'38.141"W	1.70	
16202.00	89.970	4.600	6394.41	8474.56	8441.39	752.13	40°24'10.954"N	104°20'38.081"W	3.58	

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (190 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16291.00	89.940	1.600	6394.48	8563.52	8530.25	756.94	40°24'11.832"N	104°20'38.019"W	3.37	
16378.00	89.940	0.190	6394.57	8650.33	8617.24	758.30	40°24'12.691"N	104°20'38.001"W	1.62	
16465.00	89.880	0.780	6394.71	8737.10	8704.23	759.04	40°24'13.551"N	104°20'37.992"W	0.68	
16554.00	89.910	0.070	6394.87	8825.86	8793.23	759.70	40°24'14.430"N	104°20'37.983"W	0.80	
16642.00	89.970	359.340	6394.96	8913.53	8881.23	759.24	40°24'15.300"N	104°20'37.989"W	0.83	
16730.00	90.060	358.940	6394.94	9001.13	8969.22	757.92	40°24'16.170"N	104°20'38.006"W	0.47	
16818.00	90.030	0.870	6394.87	9088.83	9057.21	757.78	40°24'17.039"N	104°20'38.008"W	2.19	
16905.00	89.970	2.630	6394.87	9175.71	9144.17	760.43	40°24'17.898"N	104°20'37.973"W	2.02	
17015.00	90.000	1.060	6394.90	9285.58	9254.11	763.97	40°24'18.985"N	104°20'37.928"W	1.43	LAST BHI MWD SURVEY
17040.00	90.000	1.060	6394.90	9310.53	9279.10	764.44	40°24'19.232"N	104°20'37.922"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS

- Ref Wellbore: ANTELOPE FEDERAL T34-20-17XRLNB AWP Ref Wellpath: ANTELOPE FEDERAL T34-20-17XRLNB AWP

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	1625.00	1608.00	17.00	1613.63	0.00	0.00	-115.43	49.31

Actual Wellpath Report

ANTELOPE FEDERAL T34-20-17XRLNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ANTELOPE FEDERAL T34-20-17XRLNB BHL (470'FNL & 1738'FEL, SEC.17)	6343.00	9304.54	753.88	3321949.61	1392630.68	40°24'19.483"N	104°20'38.058"W	point
ANTELOPE FEDERAL T34-20-17XRLNB LP (0'FSL & 1604'FEL, SEC.20)	6343.00	-724.56	741.96	3322068.12	1382602.70	40°22'40.379"N	104°20'38.216"W	point
ANTELOPE FEDERAL T34-20-17XRLNB MP (0'FNL & 1619'FEL, SEC.20)	6343.00	4541.56	785.21	3322042.88	1387868.71	40°23'32.417"N	104°20'37.655"W	point
ANTELOPE FEDERAL T34-20-17XRLNB BHL REV-1 (470'FNL & 1738'FEL, SEC.17)	6378.00	9304.54	753.88	3321949.61	1392630.68	40°24'19.483"N	104°20'38.058"W	point
ANTELOPE FEDERAL T34-20-17XRLNB LP REV-1 (0'FSL & 1604'FEL, SEC.20)	6378.00	-724.56	741.96	3322068.12	1382602.70	40°22'40.379"N	104°20'38.216"W	point
ANTELOPE FEDERAL T34-20-17XRLNB MP REV-1 (0'FNL & 1619'FEL, SEC.20)	6378.00	4541.56	785.21	3322042.88	1387868.71	40°23'32.417"N	104°20'37.655"W	point
SEC.17,20-T05N-R62W (460FNL,FSL)	10671.00	7167.81	-154.32	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.17-T05N-R62W	10672.00	7167.81	-154.32	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.20-T05N-R62W	10672.00	7167.81	-154.32	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: ANTELOPE FEDERAL T34-20-17XRLNB AWB					Ref Wellpath: ANTELOPE FEDERAL T34-20-17XRLNB AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore
17.00	1582.00	BHI NaviTrak (Rotating+Axial Corr)	BHI NAVITRAK (ROTATING+AXIAL CORR) <209-1582>		ANTELOPE FEDERAL T34-20-17XRLNB AWB
1582.00	17015.00	BHI AutoTrak Curve (Short)	BHI AUTOTRAK CURVE (SHORT) <1655-17040>		ANTELOPE FEDERAL T34-20-17XRLNB AWB
17015.00	17040.00	Blind Drilling (std)	Projection to bit		ANTELOPE FEDERAL T34-20-17XRLNB AWB

Actual Wellpath Report
ANTELOPE FEDERAL T34-20-17XRLNB AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#28 ANTELOPE FEDERAL T34-20-17XRLNB (729'FSL & 2354'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL T34-20-17XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL T34-20-17XRLNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17015.00	90.000	1.060	6394.90	LAST BHI MWD SURVEY
17040.00	90.000	1.060	6394.90	PROJECTION TO BIT