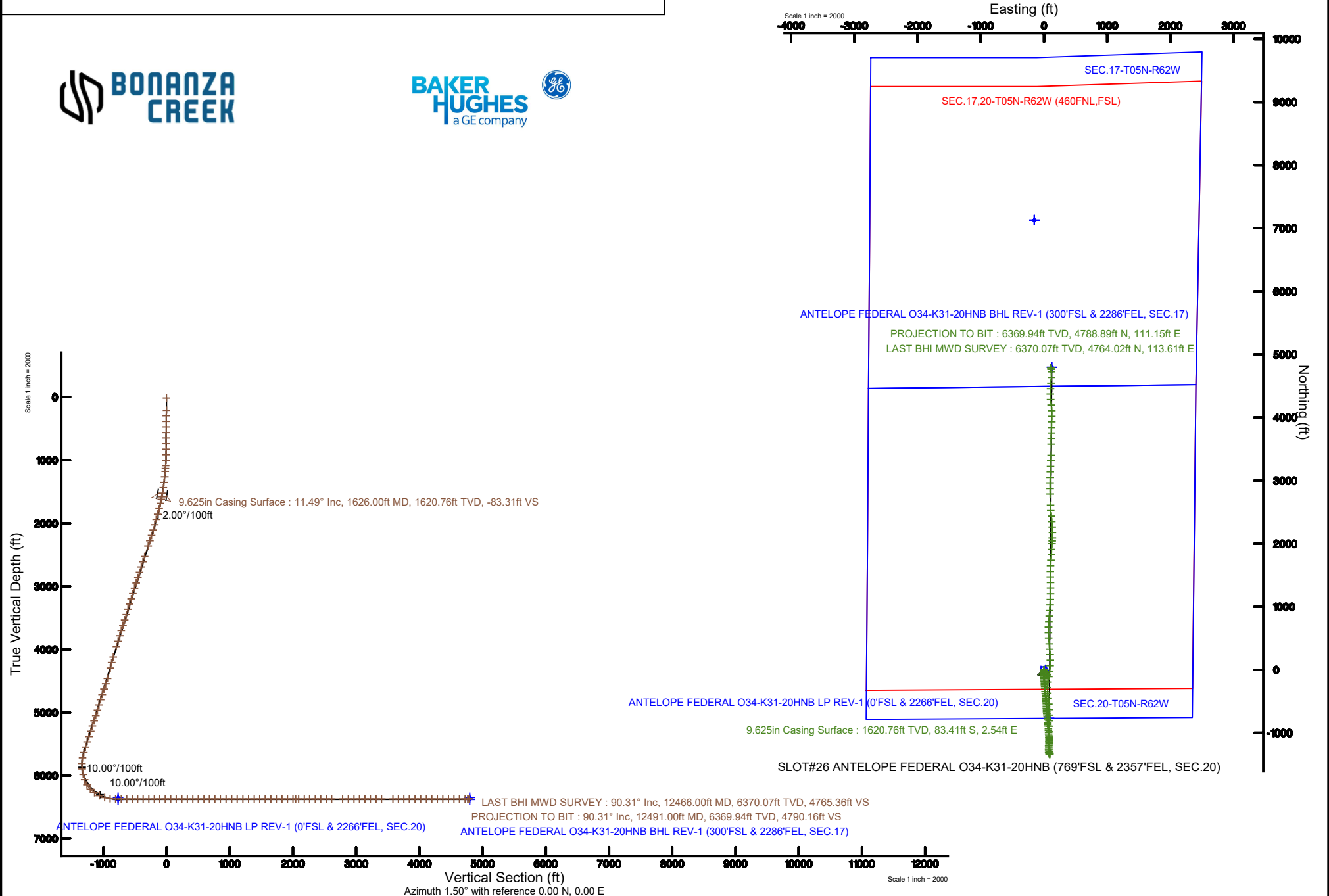


BONANZA CREEK ENERGY

Location: COLORADO Slot: SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769°FSL & 2357°FEL, SEC.20)
 Field: WELD COUNTY (NAD83/TRUE) Well: ANTELOPE FEDERAL O34-K31-20HNB
 Facility: SEC.20-T05N-R62W Wellbore: ANTELOPE FEDERAL O34-K31-20HNB PWB

Plot reference wellpath is ANTELOPE FEDERAL O34-K31-20HNB (REV-E:0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4657°GL+17°KB@4674') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4657°GL+17°KB@4674') (RKB)	Scale: True distance
AKITA 519 (4657°GL+17°KB@4674') (RKB) to Mean Sea Level: 4674 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769°FSL & 2357°FEL, SEC.20)): 0 feet	Created by: doddama on 2019-07-01
Coordinates are in feet referenced to Slot	Database: WellArchitectDB



Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP
Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB 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 8:19:42 AM
Convergence at slot	0.75° East	Database/Source file	WellArchitectDB/ANTELOPE_FEDERAL_O34-K31-20HNB_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	7.80	2331.61	3321313.76	1383357.25	40°22'47.932"N	104°20'47.836"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 (4657'GL+17'KB@4674') (RKB) to Facility Vertical Datum	4674.00ft
Horizontal Reference Pt	Slot	AKITA 519 (4657'GL+17'KB@4674') (RKB) to Mean Sea Level	4674.00ft
Vertical Reference Pt	AKITA 519 (4657'GL+17'KB@4674') (RKB)	AKITA 519 (4657'GL+17'KB@4674') (RKB) to Ground Level at Slot (SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20))	4674.00ft
MD Reference Pt	AKITA 519 (4657'GL+17'KB@4674') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	1.50°

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP
Page 2 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (141 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	125.590	0.00	0.00	0.00	0.00	40°22'47.932"N	104°20'47.836"W	0.00	
17.00	0.000	125.590	17.00	0.00	0.00	0.00	40°22'47.932"N	104°20'47.836"W	0.00	
209.00	1.320	125.590	208.98	-1.24	-1.29	1.80	40°22'47.919"N	104°20'47.813"W	0.69	
297.00	0.870	131.890	296.97	-2.24	-2.32	3.12	40°22'47.909"N	104°20'47.796"W	0.53	
387.00	1.050	143.390	386.95	-3.33	-3.44	4.12	40°22'47.898"N	104°20'47.783"W	0.29	
474.00	0.940	129.060	473.94	-4.39	-4.53	5.15	40°22'47.887"N	104°20'47.769"W	0.31	
562.00	0.620	224.260	561.94	-5.18	-5.33	5.38	40°22'47.879"N	104°20'47.767"W	1.33	
650.00	0.390	287.710	649.93	-5.45	-5.58	4.76	40°22'47.877"N	104°20'47.774"W	0.64	
738.00	0.200	301.430	737.93	-5.29	-5.41	4.34	40°22'47.879"N	104°20'47.780"W	0.23	
826.00	0.250	268.420	825.93	-5.22	-5.33	4.02	40°22'47.879"N	104°20'47.784"W	0.16	
913.00	1.010	192.610	912.93	-5.99	-6.08	3.66	40°22'47.872"N	104°20'47.789"W	1.13	
1000.00	2.180	187.610	999.89	-8.38	-8.47	3.28	40°22'47.848"N	104°20'47.794"W	1.35	
1088.00	4.180	178.690	1087.75	-13.25	-13.34	3.13	40°22'47.800"N	104°20'47.796"W	2.33	
1133.00	4.770	181.330	1132.61	-16.76	-16.85	3.12	40°22'47.766"N	104°20'47.796"W	1.39	
1177.00	4.930	181.430	1176.46	-20.48	-20.57	3.03	40°22'47.729"N	104°20'47.797"W	0.36	
1265.00	5.730	179.530	1264.08	-28.65	-28.74	2.98	40°22'47.648"N	104°20'47.798"W	0.93	
1353.00	7.480	184.420	1351.49	-38.76	-38.85	2.57	40°22'47.548"N	104°20'47.803"W	2.09	
1440.00	8.460	181.600	1437.65	-50.82	-50.89	1.95	40°22'47.429"N	104°20'47.811"W	1.21	
1528.00	10.120	179.230	1524.49	-65.02	-65.09	1.88	40°22'47.289"N	104°20'47.812"W	1.94	
1583.00	10.840	176.950	1578.57	-75.00	-75.09	2.22	40°22'47.190"N	104°20'47.807"W	1.51	
1690.00	12.480	180.540	1683.36	-96.60	-96.70	2.64	40°22'46.976"N	104°20'47.802"W	1.68	
1778.00	14.600	181.970	1768.91	-117.20	-117.29	2.17	40°22'46.773"N	104°20'47.808"W	2.44	
1867.00	15.530	181.180	1854.85	-140.33	-140.42	1.54	40°22'46.544"N	104°20'47.816"W	1.07	
1954.00	15.540	177.290	1938.68	-163.60	-163.70	1.85	40°22'46.314"N	104°20'47.812"W	1.20	
2042.00	15.460	172.670	2023.48	-186.94	-187.11	3.91	40°22'46.083"N	104°20'47.786"W	1.41	
2130.00	16.510	175.590	2108.08	-210.97	-211.21	6.37	40°22'45.845"N	104°20'47.754"W	1.50	
2218.00	17.520	175.330	2192.22	-236.58	-236.88	8.41	40°22'45.591"N	104°20'47.727"W	1.15	
2307.00	18.350	175.600	2276.90	-263.83	-264.20	10.57	40°22'45.321"N	104°20'47.699"W	0.94	
2395.00	18.460	174.730	2360.40	-291.45	-291.89	12.91	40°22'45.048"N	104°20'47.669"W	0.34	
2570.00	18.110	172.770	2526.56	-345.85	-346.46	18.88	40°22'44.508"N	104°20'47.592"W	0.40	

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP

Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (141 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2658.00	18.350	175.370	2610.15	-373.14	-373.83	21.72	40°22'44.238"N	104°20'47.555"W	0.96	
2745.00	17.980	172.690	2692.81	-400.02	-400.80	24.53	40°22'43.971"N	104°20'47.519"W	1.05	
2834.00	17.550	173.590	2777.57	-426.89	-427.76	27.78	40°22'43.705"N	104°20'47.477"W	0.57	
2921.00	17.450	173.740	2860.54	-452.81	-453.76	30.67	40°22'43.448"N	104°20'47.440"W	0.13	
3010.00	17.570	174.510	2945.42	-479.36	-480.40	33.41	40°22'43.185"N	104°20'47.404"W	0.29	
3099.00	17.730	177.620	3030.23	-506.22	-507.31	35.26	40°22'42.919"N	104°20'47.380"W	1.07	
3186.00	17.300	173.400	3113.20	-532.24	-533.40	37.29	40°22'42.661"N	104°20'47.354"W	1.54	
3273.00	17.090	178.780	3196.32	-557.82	-559.03	39.05	40°22'42.408"N	104°20'47.331"W	1.84	
3361.00	17.330	181.720	3280.38	-583.84	-585.06	38.93	40°22'42.151"N	104°20'47.333"W	1.03	
3448.00	17.390	178.810	3363.42	-609.79	-611.01	38.81	40°22'41.894"N	104°20'47.334"W	1.00	
3536.00	17.480	174.970	3447.38	-636.06	-637.33	40.25	40°22'41.634"N	104°20'47.316"W	1.31	
3625.00	17.610	174.900	3532.24	-662.71	-664.05	42.62	40°22'41.370"N	104°20'47.285"W	0.15	
3713.00	17.420	172.400	3616.16	-688.94	-690.37	45.54	40°22'41.110"N	104°20'47.248"W	0.88	
3801.00	17.200	173.330	3700.17	-714.83	-716.35	48.79	40°22'40.853"N	104°20'47.206"W	0.40	
3890.00	16.990	173.130	3785.24	-740.72	-742.33	51.88	40°22'40.597"N	104°20'47.166"W	0.25	
3978.00	16.940	173.230	3869.41	-766.12	-767.82	54.93	40°22'40.345"N	104°20'47.126"W	0.07	
4067.00	16.840	174.370	3954.57	-791.75	-793.53	57.72	40°22'40.091"N	104°20'47.090"W	0.39	
4242.00	16.870	179.500	4122.06	-842.28	-844.15	60.43	40°22'39.590"N	104°20'47.055"W	0.85	
4331.00	16.640	175.500	4207.29	-867.86	-869.77	61.54	40°22'39.337"N	104°20'47.041"W	1.32	
4419.00	12.330	167.250	4292.48	-889.51	-891.50	64.61	40°22'39.122"N	104°20'47.001"W	5.42	
4593.00	17.580	177.470	4460.56	-933.77	-935.91	69.87	40°22'38.684"N	104°20'46.933"W	3.37	
4682.00	18.240	176.510	4545.24	-961.05	-963.24	71.31	40°22'38.414"N	104°20'46.915"W	0.81	
4770.00	18.620	174.610	4628.73	-988.72	-990.98	73.47	40°22'38.139"N	104°20'46.887"W	0.81	
4859.00	18.880	179.360	4713.01	-1017.22	-1019.52	74.97	40°22'37.857"N	104°20'46.867"W	1.74	
4947.00	16.470	172.020	4796.86	-1043.75	-1046.12	76.86	40°22'37.595"N	104°20'46.843"W	3.73	
5034.00	16.330	176.010	4880.32	-1068.09	-1070.54	79.42	40°22'37.353"N	104°20'46.810"W	1.30	
5123.00	16.610	176.780	4965.67	-1093.23	-1095.72	81.01	40°22'37.104"N	104°20'46.789"W	0.40	
5210.00	17.420	179.290	5048.87	-1118.63	-1121.16	81.86	40°22'36.853"N	104°20'46.778"W	1.26	
5297.00	18.460	179.630	5131.63	-1145.41	-1147.95	82.12	40°22'36.588"N	104°20'46.775"W	1.20	
5384.00	17.840	184.560	5214.31	-1172.49	-1175.01	81.14	40°22'36.321"N	104°20'46.788"W	1.90	

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP

Page 4 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (141 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5472.00	18.460	186.890	5297.93	-1199.82	-1202.28	78.40	40°22'36.051"N	104°20'46.823"W	1.08	
5560.00	17.980	182.610	5381.52	-1227.27	-1229.68	76.11	40°22'35.781"N	104°20'46.853"W	1.62	
5648.00	18.040	180.560	5465.21	-1254.48	-1256.88	75.36	40°22'35.512"N	104°20'46.862"W	0.72	
5737.00	18.090	181.280	5549.83	-1282.07	-1284.47	74.92	40°22'35.239"N	104°20'46.868"W	0.26	
5825.00	16.770	174.500	5633.79	-1308.34	-1310.77	75.83	40°22'34.979"N	104°20'46.856"W	2.75	
5913.00	11.410	148.220	5719.20	-1328.25	-1330.84	81.64	40°22'34.781"N	104°20'46.781"W	9.34	
6002.00	5.130	129.510	5807.24	-1338.07	-1340.87	89.35	40°22'34.682"N	104°20'46.681"W	7.59	
6090.00	7.260	10.690	5894.97	-1335.00	-1337.90	93.43	40°22'34.711"N	104°20'46.629"W	12.18	
6178.00	13.690	353.420	5981.48	-1319.18	-1322.07	93.27	40°22'34.868"N	104°20'46.631"W	8.05	
6265.00	21.340	335.500	6064.44	-1294.71	-1297.38	85.51	40°22'35.112"N	104°20'46.731"W	10.66	
6354.00	31.740	351.630	6144.05	-1256.94	-1259.34	75.35	40°22'35.488"N	104°20'46.862"W	14.12	
6442.00	43.090	3.330	6213.92	-1203.85	-1206.19	73.72	40°22'36.013"N	104°20'46.884"W	15.17	
6530.00	54.900	5.350	6271.56	-1137.65	-1140.10	78.84	40°22'36.666"N	104°20'46.817"W	13.53	
6619.00	64.120	2.910	6316.67	-1061.13	-1063.69	84.28	40°22'37.421"N	104°20'46.747"W	10.62	
6707.00	74.330	359.870	6347.85	-978.97	-981.56	86.19	40°22'38.233"N	104°20'46.722"W	12.04	
6795.00	82.310	357.270	6365.66	-892.98	-895.48	84.02	40°22'39.083"N	104°20'46.750"W	9.52	
6884.00	89.540	356.840	6371.98	-804.53	-806.89	79.46	40°22'39.959"N	104°20'46.809"W	8.14	
6973.00	90.000	2.950	6372.34	-715.61	-717.93	79.30	40°22'40.838"N	104°20'46.811"W	6.88	
7059.00	90.090	359.100	6372.27	-629.63	-631.96	80.83	40°22'41.687"N	104°20'46.792"W	4.48	
7146.00	89.910	353.880	6372.27	-542.99	-545.15	75.51	40°22'42.545"N	104°20'46.860"W	6.00	
7234.00	90.000	354.490	6372.34	-455.71	-457.60	66.59	40°22'43.410"N	104°20'46.976"W	0.70	
7322.00	90.150	355.520	6372.22	-368.27	-369.94	58.93	40°22'44.276"N	104°20'47.075"W	1.18	
7409.00	90.060	1.320	6372.06	-281.44	-283.01	56.53	40°22'45.135"N	104°20'47.106"W	6.67	
7498.00	90.060	7.780	6371.97	-192.61	-194.34	63.59	40°22'46.012"N	104°20'47.014"W	7.26	
7586.00	90.090	10.640	6371.85	-105.41	-107.48	77.67	40°22'46.870"N	104°20'46.832"W	3.25	
7673.00	90.000	6.580	6371.79	-19.10	-21.48	90.70	40°22'47.720"N	104°20'46.664"W	4.67	
7760.00	89.970	2.960	6371.81	67.74	65.20	97.93	40°22'48.576"N	104°20'46.571"W	4.16	
7846.00	89.910	359.180	6371.90	153.72	151.17	99.53	40°22'49.426"N	104°20'46.550"W	4.40	
7934.00	90.030	355.760	6371.94	241.49	239.07	95.65	40°22'50.294"N	104°20'46.600"W	3.89	
8022.00	90.060	356.790	6371.87	329.13	326.89	89.93	40°22'51.162"N	104°20'46.674"W	1.17	

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP

Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (141 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8109.00	90.280	353.790	6371.62	415.61	413.58	82.79	40°22'52.019"N	104°20'46.766"W	3.46	
8197.00	89.970	356.060	6371.42	503.02	501.23	75.01	40°22'52.885"N	104°20'46.867"W	2.60	
8285.00	89.850	359.590	6371.56	590.83	589.15	71.67	40°22'53.754"N	104°20'46.910"W	4.01	
8373.00	89.910	0.890	6371.75	678.80	677.15	72.04	40°22'54.623"N	104°20'46.905"W	1.48	
8460.00	90.060	4.720	6371.77	765.76	764.03	76.29	40°22'55.482"N	104°20'46.850"W	4.41	
8548.00	90.000	6.340	6371.72	853.54	851.62	84.77	40°22'56.347"N	104°20'46.741"W	1.84	
8637.00	89.910	2.500	6371.79	942.41	940.34	91.63	40°22'57.224"N	104°20'46.652"W	4.32	
8725.00	90.030	3.990	6371.84	1030.37	1028.19	96.61	40°22'58.092"N	104°20'46.588"W	1.70	
8814.00	90.090	1.740	6371.75	1119.34	1117.08	101.06	40°22'58.971"N	104°20'46.530"W	2.53	
8903.00	90.000	1.180	6371.68	1208.34	1206.05	103.33	40°22'59.850"N	104°20'46.501"W	0.64	
8992.00	90.060	0.960	6371.63	1297.33	1295.03	104.99	40°23'00.729"N	104°20'46.479"W	0.26	
9081.00	90.150	357.800	6371.47	1386.26	1384.02	104.03	40°23'01.608"N	104°20'46.492"W	3.55	
9168.00	90.090	358.230	6371.28	1473.10	1470.96	101.01	40°23'02.468"N	104°20'46.531"W	0.50	
9256.00	89.940	0.830	6371.26	1561.04	1558.95	100.29	40°23'03.337"N	104°20'46.540"W	2.96	
9345.00	89.970	3.950	6371.33	1650.02	1647.86	104.00	40°23'04.216"N	104°20'46.492"W	3.51	
9433.00	89.970	4.740	6371.38	1737.91	1735.61	110.67	40°23'05.083"N	104°20'46.406"W	0.90	
9521.00	90.150	2.760	6371.29	1825.84	1823.42	116.42	40°23'05.950"N	104°20'46.332"W	2.26	
9608.00	90.090	3.270	6371.10	1912.81	1910.30	121.00	40°23'06.809"N	104°20'46.272"W	0.59	
9697.00	90.280	4.530	6370.82	2001.73	1999.09	127.05	40°23'07.686"N	104°20'46.194"W	1.43	
9740.00	90.090	2.870	6370.68	2044.69	2042.00	129.83	40°23'08.110"N	104°20'46.158"W	3.89	
9786.00	90.030	2.800	6370.63	2090.68	2087.94	132.10	40°23'08.564"N	104°20'46.129"W	0.20	
9874.00	90.030	359.860	6370.58	2178.67	2175.91	134.15	40°23'09.434"N	104°20'46.102"W	3.34	
9960.00	90.000	356.750	6370.56	2264.53	2261.86	131.60	40°23'10.283"N	104°20'46.135"W	3.62	
10048.00	89.880	354.670	6370.65	2352.07	2349.61	125.02	40°23'11.150"N	104°20'46.220"W	2.37	
10136.00	89.910	354.030	6370.81	2439.39	2437.18	116.36	40°23'12.015"N	104°20'46.332"W	0.73	
10222.00	90.090	355.110	6370.81	2524.76	2522.79	108.22	40°23'12.861"N	104°20'46.438"W	1.27	
10310.00	89.970	358.430	6370.77	2612.45	2610.64	103.26	40°23'13.729"N	104°20'46.502"W	3.78	
10485.00	90.000	358.560	6370.81	2787.21	2785.58	98.66	40°23'15.458"N	104°20'46.561"W	0.08	
10574.00	90.000	359.720	6370.81	2876.13	2874.57	97.33	40°23'16.338"N	104°20'46.578"W	1.30	
10662.00	90.000	1.080	6370.81	2964.11	2962.56	97.94	40°23'17.207"N	104°20'46.570"W	1.55	

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP

Page 6 of 8



REFERENCE WELLPATH IDENTIFICATION				
Operator	BONANZA CREEK ENERGY		Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO		Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)		Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWP
Facility	SEC.20-T05N-R62W			

WELLPATH DATA (141 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10750.00	90.000	0.320	6370.81	3052.10	3050.56	99.02	40°23'18.077"N	104°20'46.556"W	0.86	
10838.00	89.820	1.270	6370.95	3140.09	3138.55	100.24	40°23'18.946"N	104°20'46.541"W	1.10	
10924.00	89.910	3.590	6371.15	3226.08	3224.46	103.88	40°23'19.795"N	104°20'46.493"W	2.70	
11013.00	89.880	3.220	6371.32	3315.03	3313.31	109.17	40°23'20.673"N	104°20'46.425"W	0.42	
11101.00	89.820	2.570	6371.55	3403.00	3401.19	113.62	40°23'21.541"N	104°20'46.368"W	0.74	
11278.00	89.820	358.420	6372.10	3579.93	3578.15	115.14	40°23'23.290"N	104°20'46.348"W	2.34	
11366.00	89.820	0.040	6372.38	3667.86	3666.14	113.96	40°23'24.160"N	104°20'46.363"W	1.84	
11454.00	90.060	2.850	6372.47	3755.85	3754.10	116.18	40°23'25.029"N	104°20'46.335"W	3.20	
11540.00	90.090	1.560	6372.36	3841.84	3840.03	119.49	40°23'25.878"N	104°20'46.292"W	1.50	
11629.00	90.060	1.980	6372.24	3930.84	3928.99	122.24	40°23'26.757"N	104°20'46.256"W	0.47	
11718.00	90.150	0.920	6372.08	4019.84	4017.96	124.49	40°23'27.636"N	104°20'46.227"W	1.20	
11808.00	90.180	357.270	6371.82	4109.75	4107.93	123.07	40°23'28.525"N	104°20'46.245"W	4.06	
11896.00	90.090	353.250	6371.61	4197.21	4195.61	115.80	40°23'29.392"N	104°20'46.339"W	4.57	
11984.00	90.090	354.040	6371.48	4284.38	4283.07	106.06	40°23'30.256"N	104°20'46.465"W	0.90	
12071.00	89.940	358.850	6371.45	4371.02	4369.88	100.67	40°23'31.114"N	104°20'46.535"W	5.53	
12159.00	90.220	5.010	6371.33	4458.97	4457.79	103.63	40°23'31.982"N	104°20'46.497"W	7.01	
12246.00	90.280	5.940	6370.95	4545.76	4544.39	111.93	40°23'32.838"N	104°20'46.389"W	1.07	
12335.00	90.220	1.660	6370.56	4634.67	4633.17	117.82	40°23'33.715"N	104°20'46.313"W	4.81	
12425.00	90.180	356.940	6370.25	4724.58	4723.14	116.73	40°23'34.604"N	104°20'46.327"W	5.24	
12466.00	90.310	354.350	6370.07	4765.36	4764.02	113.61	40°23'35.008"N	104°20'46.368"W	6.32	LAST BHI MWD SURVEY
12491.00	90.310	354.350	6369.94	4790.16	4788.89	111.15	40°23'35.254"N	104°20'46.399"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS									
- Ref Wellbore: ANTELOPE FEDERAL O34-K31-20HNB AWP					Ref Wellpath: ANTELOPE FEDERAL O34-K31-20HNB 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	1626.00	1609.00	17.00	1620.76	0.00	0.00	-83.41	2.54

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP

Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB 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 O34-K31-20HNB BHL (300'FSL & 2286'FEL, SEC.17)	6349.00	4793.93	125.35	3321376.74	1388152.21	40°23'35.304"N	104°20'46.216"W	point
ANTELOPE FEDERAL O34-K31-20HNB LP (0'FSL & 2266'FEL, SEC.20)	6349.00	-768.39	82.81	3321406.55	1382590.04	40°22'40.339"N	104°20'46.766"W	point
ANTELOPE FEDERAL O34-K31-20HNB BHL REV-1 (300'FSL & 2286'FEL, SEC.17)	6379.00	4793.93	125.35	3321376.74	1388152.21	40°23'35.304"N	104°20'46.216"W	point
ANTELOPE FEDERAL O34-K31-20HNB LP REV-1 (0'FSL & 2266'FEL, SEC.20)	6379.00	-768.39	82.81	3321406.55	1382590.04	40°22'40.339"N	104°20'46.766"W	point
SEC.17,20-T05N-R62W (460FNL,FSL)	10672.00	7128.04	-151.76	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.17-T05N-R62W	10673.00	7128.04	-151.76	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.20-T05N-R62W	10673.00	7128.04	-151.76	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: ANTELOPE FEDERAL O34-K31-20HNB AWB				Ref Wellpath: ANTELOPE FEDERAL O34-K31-20HNB AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
17.00	1583.00	BHI NaviTrak (Rotating+Axial Corr)	BHI NAVITRAK (ROTATING+AXIAL CORR) <209-1583>	ANTELOPE FEDERAL O34-K31-20HNB AWB	
1583.00	12466.00	BHI AutoTrak Curve (Short)	BHI AUTOTRAK CURVE (SHORT) <1690-12466>	ANTELOPE FEDERAL O34-K31-20HNB AWB	
12466.00	12491.00	Blind Drilling (std)	Projection to bit	ANTELOPE FEDERAL O34-K31-20HNB AWB	

Actual Wellpath Report

ANTELOPE FEDERAL O34-K31-20HNB AWP
Page 8 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#26 ANTELOPE FEDERAL O34-K31-20HNB (769'FSL & 2357'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL O34-K31-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL O34-K31-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12466.00	90.310	354.350	6370.07	LAST BHI MWD SURVEY
12491.00	90.310	354.350	6369.94	PROJECTION TO BIT