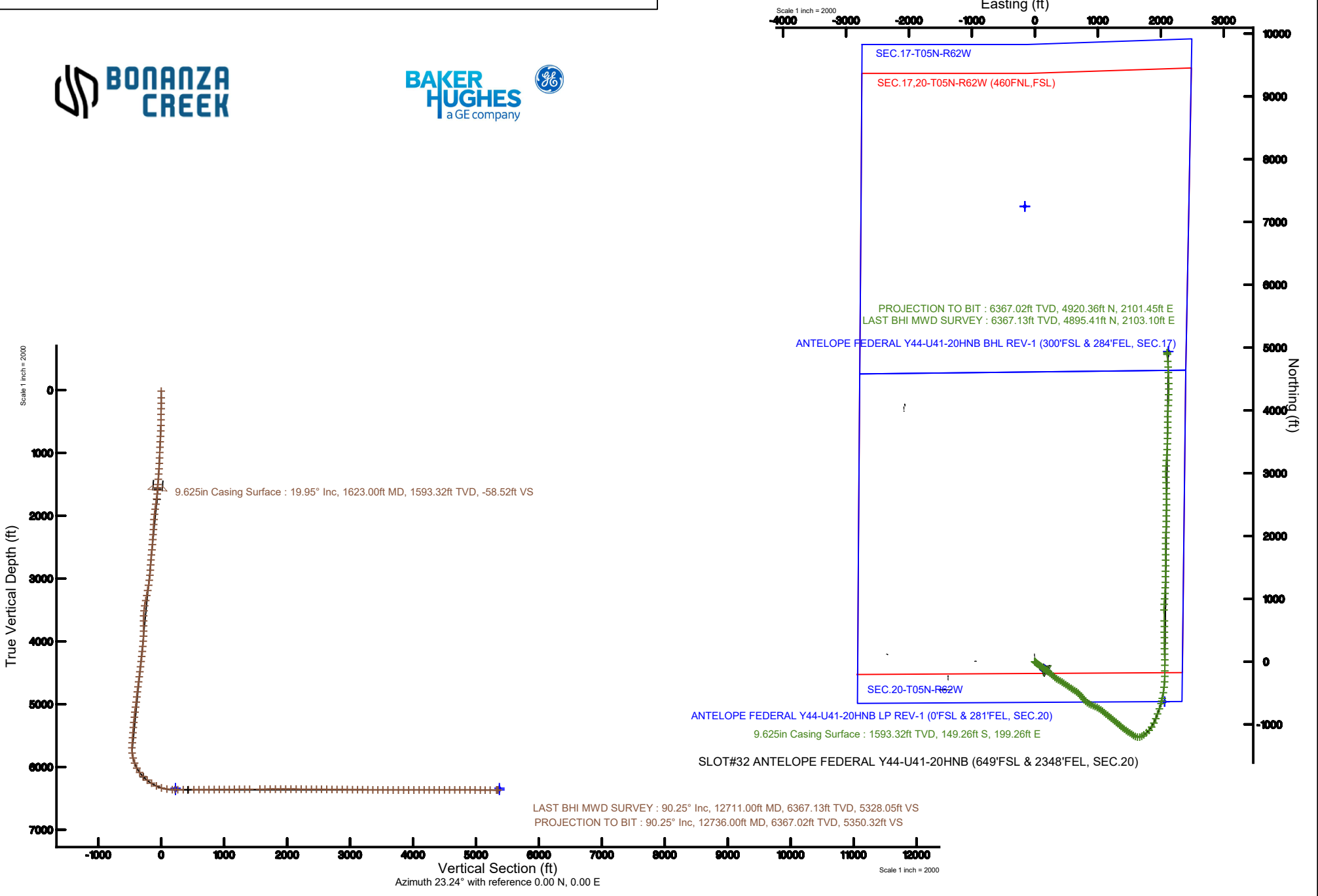


BONANZA CREEK ENERGY

Location: COLORADO Slot: SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649°FSL & 2348°FEL, SEC.20)
Field: WELD COUNTY (NAD83/TRUE) Well: ANTELOPE FEDERAL Y44-U41-20HNB
Facility: SEC.20-T05N-R62W Wellbore: ANTELOPE FEDERAL Y44-U41-20HNB PWB

Plot reference wellpath is ANTELOPE FEDERAL Y44-U41-20HNB (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4655'GL+17'KB@4672') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4655'GL+17'KB@4672') (RKB)	Scale: True distance
AKITA 519 (4655'GL+17'KB@4672') (RKB) to Mean Sea Level: 4672 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649°FSL & 2348°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 Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWP
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 9:25:11 AM
Convergence at slot	0.75° East	Database/Source file	WellArchitectDB/ANTELOPE_FEDERAL_Y44-U41-20HNB_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-112.12	2338.90	3321322.59	1383237.45	40°22'46.747"N	104°20'47.742"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 (4655'GL+17'KB@4672') (RKB) to Facility Vertical Datum	4672.00ft
Horizontal Reference Pt	Slot	AKITA 519 (4655'GL+17'KB@4672') (RKB) to Mean Sea Level	4672.00ft
Vertical Reference Pt	AKITA 519 (4655'GL+17'KB@4672') (RKB)	AKITA 519 (4655'GL+17'KB@4672') (RKB) to Ground Level at Slot (SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20))	4672.00ft
MD Reference Pt	AKITA 519 (4655'GL+17'KB@4672') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	23.24°

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (147 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	141.210	0.00	0.00	0.00	0.00	40°22'46.747"N	104°20'47.742"W	0.00	
17.00	0.000	141.210	17.00	0.00	0.00	0.00	40°22'46.747"N	104°20'47.742"W	0.00	
123.00	0.310	141.210	123.00	-0.13	-0.22	0.18	40°22'46.745"N	104°20'47.740"W	0.29	
209.00	0.490	160.810	209.00	-0.52	-0.75	0.45	40°22'46.740"N	104°20'47.736"W	0.26	
297.00	0.800	170.970	296.99	-1.31	-1.71	0.67	40°22'46.730"N	104°20'47.733"W	0.37	
387.00	1.030	144.790	386.98	-2.27	-3.00	1.23	40°22'46.717"N	104°20'47.726"W	0.52	
474.00	3.050	127.990	473.92	-3.27	-5.06	3.51	40°22'46.697"N	104°20'47.697"W	2.40	
562.00	5.250	126.400	561.69	-4.78	-8.89	8.59	40°22'46.659"N	104°20'47.631"W	2.50	
650.00	7.110	131.540	649.17	-7.40	-14.89	15.91	40°22'46.600"N	104°20'47.536"W	2.20	
738.00	9.040	131.930	736.29	-11.33	-23.12	25.13	40°22'46.519"N	104°20'47.417"W	2.19	
826.00	10.540	127.350	823.01	-15.51	-32.63	36.67	40°22'46.425"N	104°20'47.268"W	1.92	
913.00	10.860	127.410	908.50	-19.45	-42.43	49.51	40°22'46.328"N	104°20'47.102"W	0.37	
1000.00	11.330	123.430	993.87	-22.97	-52.12	63.15	40°22'46.232"N	104°20'46.926"W	1.03	
1088.00	12.120	124.360	1080.04	-26.28	-62.10	77.99	40°22'46.133"N	104°20'46.734"W	0.92	
1177.00	13.800	125.110	1166.77	-30.27	-73.48	94.39	40°22'46.021"N	104°20'46.522"W	1.90	
1265.00	14.850	127.270	1252.03	-35.16	-86.34	111.95	40°22'45.894"N	104°20'46.295"W	1.34	
1353.00	16.080	126.250	1336.84	-40.64	-100.38	130.75	40°22'45.755"N	104°20'46.052"W	1.43	
1440.00	17.360	126.950	1420.16	-46.42	-115.30	150.84	40°22'45.608"N	104°20'45.793"W	1.49	
1528.00	18.860	124.730	1503.80	-52.37	-131.30	173.03	40°22'45.450"N	104°20'45.506"W	1.88	
1580.00	19.750	123.340	1552.88	-55.58	-140.92	187.27	40°22'45.354"N	104°20'45.322"W	1.93	
1686.00	20.340	130.540	1652.47	-64.20	-162.74	216.24	40°22'45.139"N	104°20'44.948"W	2.39	
1774.00	21.960	131.720	1734.54	-73.97	-183.63	240.15	40°22'44.932"N	104°20'44.639"W	1.90	
1861.00	23.200	132.080	1814.87	-84.66	-205.94	265.01	40°22'44.712"N	104°20'44.318"W	1.43	
1949.00	23.120	131.470	1895.78	-95.66	-229.00	290.82	40°22'44.484"N	104°20'43.984"W	0.29	
2037.00	23.150	129.850	1976.70	-106.01	-251.53	317.04	40°22'44.261"N	104°20'43.645"W	0.72	
2126.00	23.260	124.810	2058.51	-114.53	-272.77	344.91	40°22'44.052"N	104°20'43.285"W	2.23	
2214.00	23.090	119.460	2139.42	-119.89	-291.18	374.20	40°22'43.870"N	104°20'42.907"W	2.40	
2301.00	23.090	120.540	2219.45	-123.90	-308.24	403.75	40°22'43.701"N	104°20'42.525"W	0.49	
2390.00	23.170	122.800	2301.30	-129.03	-326.59	433.50	40°22'43.520"N	104°20'42.141"W	1.00	
2476.00	23.140	123.300	2380.37	-134.79	-345.03	461.84	40°22'43.337"N	104°20'41.774"W	0.23	

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (147 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2563.00	23.250	124.180	2460.34	-141.03	-364.06	490.34	40°22'43.149"N	104°20'41.406"W	0.42	
2652.00	23.150	125.110	2542.14	-147.96	-384.00	519.18	40°22'42.952"N	104°20'41.034"W	0.43	
2739.00	23.150	125.700	2622.14	-155.17	-403.81	547.06	40°22'42.757"N	104°20'40.673"W	0.27	
2829.00	23.280	124.520	2704.85	-162.47	-424.21	576.08	40°22'42.555"N	104°20'40.298"W	0.54	
2916.00	23.250	120.720	2784.78	-168.06	-442.73	605.01	40°22'42.372"N	104°20'39.925"W	1.73	
3004.00	23.110	122.280	2865.68	-173.04	-460.82	634.54	40°22'42.193"N	104°20'39.543"W	0.72	
3091.00	22.880	126.590	2945.77	-179.63	-480.03	662.56	40°22'42.003"N	104°20'39.181"W	1.95	
3179.00	23.180	131.790	3026.76	-189.09	-501.77	689.21	40°22'41.789"N	104°20'38.837"W	2.34	
3267.00	22.980	134.910	3107.72	-200.94	-525.44	714.29	40°22'41.555"N	104°20'38.513"W	1.41	
3355.00	22.640	138.850	3188.85	-214.60	-550.32	737.60	40°22'41.309"N	104°20'38.211"W	1.78	
3444.00	23.340	142.130	3270.78	-230.52	-577.14	759.70	40°22'41.044"N	104°20'37.926"W	1.64	
3531.00	23.510	140.770	3350.61	-246.87	-604.18	781.25	40°22'40.777"N	104°20'37.647"W	0.65	
3620.00	23.500	135.070	3432.24	-261.68	-630.50	805.01	40°22'40.516"N	104°20'37.340"W	2.55	
3709.00	23.810	126.610	3513.78	-272.43	-653.78	831.97	40°22'40.286"N	104°20'36.992"W	3.83	
3797.00	23.500	119.530	3594.40	-278.46	-673.03	861.50	40°22'40.096"N	104°20'36.610"W	3.25	
3884.00	23.510	114.180	3674.19	-280.64	-688.69	892.43	40°22'39.941"N	104°20'36.211"W	2.45	
3972.00	23.360	111.400	3754.94	-280.37	-702.24	924.68	40°22'39.807"N	104°20'35.794"W	1.27	
4060.00	23.570	112.890	3835.66	-279.70	-715.45	957.14	40°22'39.677"N	104°20'35.375"W	0.72	
4148.00	23.430	117.640	3916.37	-280.94	-730.41	988.85	40°22'39.529"N	104°20'34.965"W	2.16	
4237.00	23.440	122.180	3998.04	-285.05	-748.05	1019.51	40°22'39.355"N	104°20'34.569"W	2.03	
4326.00	23.380	126.660	4079.72	-291.89	-768.02	1048.66	40°22'39.157"N	104°20'34.192"W	2.00	
4414.00	23.300	129.080	4160.52	-300.70	-789.42	1076.18	40°22'38.946"N	104°20'33.837"W	1.09	
4502.00	23.610	130.080	4241.25	-310.55	-811.74	1103.17	40°22'38.725"N	104°20'33.488"W	0.57	
4590.00	23.540	129.070	4321.90	-320.45	-834.16	1130.30	40°22'38.504"N	104°20'33.137"W	0.47	
4679.00	23.610	128.220	4403.47	-329.90	-856.39	1158.10	40°22'38.284"N	104°20'32.778"W	0.39	
4767.00	23.450	128.250	4484.16	-338.99	-878.13	1185.69	40°22'38.069"N	104°20'32.422"W	0.18	
4855.00	23.480	129.590	4564.88	-348.46	-900.14	1212.95	40°22'37.852"N	104°20'32.069"W	0.61	
4942.00	23.220	129.920	4644.75	-358.26	-922.20	1239.46	40°22'37.634"N	104°20'31.727"W	0.33	
5029.00	23.200	131.300	4724.71	-368.50	-944.51	1265.49	40°22'37.413"N	104°20'31.391"W	0.63	
5116.00	23.310	129.740	4804.65	-378.70	-966.83	1291.60	40°22'37.193"N	104°20'31.053"W	0.72	

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (147 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5203.00	23.180	128.560	4884.58	-388.11	-988.50	1318.23	40°22'36.979"N	104°20'30.709"W	0.56	
5292.00	22.090	129.900	4966.73	-397.54	-1010.16	1344.76	40°22'36.765"N	104°20'30.366"W	1.35	
5380.00	22.340	131.040	5048.20	-407.39	-1031.75	1370.07	40°22'36.551"N	104°20'30.039"W	0.57	
5468.00	23.160	130.820	5129.35	-417.73	-1054.05	1395.78	40°22'36.331"N	104°20'29.707"W	0.94	
5555.00	23.150	127.140	5209.35	-427.01	-1075.56	1422.36	40°22'36.118"N	104°20'29.364"W	1.66	
5644.00	23.230	125.790	5291.16	-435.02	-1096.38	1450.55	40°22'35.912"N	104°20'29.000"W	0.60	
5733.00	23.420	123.450	5372.88	-441.97	-1116.40	1479.54	40°22'35.715"N	104°20'28.625"W	1.06	
5821.00	23.450	123.130	5453.62	-448.08	-1135.61	1508.80	40°22'35.525"N	104°20'28.247"W	0.15	
5909.00	23.250	123.890	5534.42	-454.29	-1154.86	1537.88	40°22'35.335"N	104°20'27.871"W	0.41	
5997.00	23.500	123.640	5615.20	-460.67	-1174.27	1566.90	40°22'35.143"N	104°20'27.496"W	0.31	
6085.00	22.920	118.420	5696.08	-465.38	-1192.14	1596.59	40°22'34.966"N	104°20'27.113"W	2.43	
6173.00	23.090	95.750	5777.24	-461.74	-1202.05	1628.89	40°22'34.868"N	104°20'26.695"W	10.01	
6261.00	24.080	80.370	5857.97	-446.79	-1200.77	1663.79	40°22'34.881"N	104°20'26.244"W	7.06	
6350.00	24.350	62.760	5939.24	-422.75	-1189.32	1698.05	40°22'34.994"N	104°20'25.802"W	8.09	
6438.00	32.310	50.460	6016.71	-387.76	-1165.99	1732.40	40°22'35.224"N	104°20'25.358"W	11.18	
6527.00	38.360	51.580	6089.28	-342.26	-1133.65	1772.42	40°22'35.544"N	104°20'24.841"W	6.84	
6613.00	46.330	41.360	6152.87	-289.06	-1093.61	1814.00	40°22'35.940"N	104°20'24.304"W	12.22	
6701.00	53.010	34.830	6209.82	-224.27	-1040.78	1855.17	40°22'36.462"N	104°20'23.771"W	9.46	
6788.00	57.590	27.610	6259.38	-153.51	-979.63	1892.09	40°22'37.066"N	104°20'23.294"W	8.61	
6875.00	64.200	19.110	6301.74	-77.64	-909.91	1922.00	40°22'37.755"N	104°20'22.908"W	11.42	
6963.00	73.630	19.400	6333.36	4.17	-832.49	1949.06	40°22'38.520"N	104°20'22.558"W	10.72	
7050.00	81.720	19.830	6351.91	88.93	-752.49	1977.57	40°22'39.310"N	104°20'22.190"W	9.31	
7138.00	86.580	16.080	6360.88	176.06	-669.25	2004.53	40°22'40.133"N	104°20'21.841"W	6.96	
7182.00	90.120	13.360	6362.15	219.54	-626.72	2015.70	40°22'40.553"N	104°20'21.697"W	10.14	
7226.00	90.060	11.670	6362.08	262.77	-583.77	2025.24	40°22'40.978"N	104°20'21.574"W	3.84	
7315.00	89.940	8.830	6362.08	349.48	-496.20	2041.07	40°22'41.843"N	104°20'21.369"W	3.19	
7403.00	90.060	6.750	6362.08	434.30	-409.02	2053.00	40°22'42.704"N	104°20'21.215"W	2.37	
7491.00	90.180	3.430	6361.90	517.91	-321.38	2060.81	40°22'43.570"N	104°20'21.114"W	3.78	
7578.00	90.430	1.000	6361.43	599.11	-234.45	2064.17	40°22'44.429"N	104°20'21.070"W	2.81	
7666.00	90.400	0.340	6360.80	680.36	-146.46	2065.20	40°22'45.299"N	104°20'21.057"W	0.75	

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWP
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (147 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7753.00	90.250	359.680	6360.30	760.31	-59.46	2065.21	40°22'46.159"N	104°20'21.056"W	0.78	
7842.00	90.180	358.380	6359.97	841.48	29.53	2063.71	40°22'47.038"N	104°20'21.076"W	1.46	
7931.00	90.430	358.610	6359.50	922.30	118.49	2061.37	40°22'47.917"N	104°20'21.106"W	0.38	
8019.00	90.650	358.710	6358.67	1002.32	206.47	2059.31	40°22'48.786"N	104°20'21.132"W	0.27	
8107.00	90.490	359.490	6357.79	1082.62	294.45	2057.93	40°22'49.656"N	104°20'21.150"W	0.90	
8195.00	90.590	359.370	6356.96	1163.13	382.44	2057.05	40°22'50.525"N	104°20'21.161"W	0.18	
8282.00	90.460	359.810	6356.16	1242.82	469.44	2056.43	40°22'51.385"N	104°20'21.169"W	0.53	
8371.00	90.430	1.200	6355.47	1324.90	558.43	2057.22	40°22'52.264"N	104°20'21.159"W	1.56	
8460.00	90.460	358.060	6354.78	1406.43	647.41	2056.64	40°22'53.144"N	104°20'21.166"W	3.53	
8636.00	90.250	359.120	6353.69	1566.39	823.35	2052.31	40°22'54.882"N	104°20'21.222"W	0.61	
8724.00	90.150	4.370	6353.38	1648.24	911.28	2054.99	40°22'55.751"N	104°20'21.188"W	5.97	
8811.00	89.970	4.180	6353.29	1730.51	998.04	2061.47	40°22'56.608"N	104°20'21.104"W	0.30	
8900.00	90.000	2.940	6353.32	1814.31	1086.86	2067.00	40°22'57.486"N	104°20'21.032"W	1.39	
8988.00	90.090	2.280	6353.25	1896.67	1174.77	2071.01	40°22'58.355"N	104°20'20.980"W	0.76	
9076.00	90.120	1.390	6353.09	1978.60	1262.73	2073.83	40°22'59.224"N	104°20'20.944"W	1.01	
9165.00	89.940	0.620	6353.04	2060.98	1351.71	2075.39	40°23'00.103"N	104°20'20.923"W	0.89	
9253.00	89.780	0.830	6353.25	2142.27	1439.70	2076.50	40°23'00.973"N	104°20'20.909"W	0.30	
9340.00	89.690	0.670	6353.66	2222.65	1526.70	2077.64	40°23'01.832"N	104°20'20.894"W	0.21	
9429.00	89.750	359.940	6354.09	2304.61	1615.69	2078.11	40°23'02.712"N	104°20'20.888"W	0.82	
9517.00	89.690	359.700	6354.52	2385.36	1703.69	2077.84	40°23'03.581"N	104°20'20.891"W	0.28	
9606.00	89.510	359.750	6355.14	2466.97	1792.69	2077.41	40°23'04.461"N	104°20'20.897"W	0.21	
9694.00	89.480	0.540	6355.92	2547.91	1880.68	2077.63	40°23'05.330"N	104°20'20.894"W	0.90	
9783.00	89.480	1.930	6356.73	2630.42	1969.66	2079.55	40°23'06.210"N	104°20'20.869"W	1.56	
9870.00	89.480	2.240	6357.52	2711.55	2056.60	2082.72	40°23'07.069"N	104°20'20.828"W	0.36	
9959.00	89.450	1.500	6358.35	2794.43	2145.54	2085.62	40°23'07.948"N	104°20'20.790"W	0.83	
10046.00	89.410	1.170	6359.21	2875.14	2232.52	2087.65	40°23'08.807"N	104°20'20.764"W	0.38	
10134.00	89.480	0.540	6360.06	2956.51	2320.50	2088.96	40°23'09.677"N	104°20'20.747"W	0.72	
10222.00	89.450	0.570	6360.89	3037.70	2408.49	2089.81	40°23'10.546"N	104°20'20.736"W	0.05	
10310.00	89.450	0.050	6361.73	3118.74	2496.49	2090.29	40°23'11.416"N	104°20'20.730"W	0.59	
10399.00	89.350	0.160	6362.66	3200.57	2585.48	2090.45	40°23'12.295"N	104°20'20.727"W	0.17	

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH DATA (147 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10487.00	89.480	0.050	6363.56	3281.49	2673.48	2090.61	40°23'13.165"N	104°20'20.725"W	0.19	
10575.00	89.410	357.700	6364.41	3361.65	2761.45	2088.88	40°23'14.034"N	104°20'20.748"W	2.67	
10663.00	89.320	357.570	6365.39	3441.00	2849.37	2085.25	40°23'14.903"N	104°20'20.794"W	0.18	
10751.00	89.820	358.170	6366.05	3520.51	2937.31	2081.98	40°23'15.772"N	104°20'20.837"W	0.89	
10840.00	89.940	359.930	6366.24	3601.69	3026.29	2080.51	40°23'16.651"N	104°20'20.855"W	1.98	
10929.00	89.970	3.620	6366.31	3684.50	3115.23	2083.26	40°23'17.530"N	104°20'20.820"W	4.15	
11017.00	89.940	5.100	6366.37	3767.76	3202.98	2089.95	40°23'18.397"N	104°20'20.733"W	1.68	
11104.00	89.690	3.630	6366.66	3850.08	3289.72	2096.57	40°23'19.254"N	104°20'20.648"W	1.71	
11192.00	90.310	2.280	6366.66	3932.62	3377.60	2101.11	40°23'20.122"N	104°20'20.589"W	1.69	
11281.00	90.180	2.050	6366.27	4015.67	3466.54	2104.47	40°23'21.001"N	104°20'20.545"W	0.30	
11368.00	90.220	2.290	6365.97	4096.85	3553.47	2107.77	40°23'21.860"N	104°20'20.503"W	0.28	
11456.00	90.120	0.660	6365.71	4178.57	3641.44	2110.03	40°23'22.730"N	104°20'20.473"W	1.86	
11542.00	90.180	0.220	6365.49	4257.85	3727.44	2110.69	40°23'23.579"N	104°20'20.465"W	0.52	
11627.00	90.120	359.950	6365.26	4336.00	3812.44	2110.82	40°23'24.419"N	104°20'20.463"W	0.33	
11715.00	90.090	0.550	6365.10	4417.01	3900.44	2111.20	40°23'25.289"N	104°20'20.458"W	0.68	
11803.00	90.220	3.460	6364.86	4499.02	3988.37	2114.28	40°23'26.158"N	104°20'20.418"W	3.31	
11891.00	90.120	3.160	6364.60	4581.75	4076.22	2119.36	40°23'27.026"N	104°20'20.352"W	0.36	
11978.00	89.720	2.080	6364.72	4663.18	4163.13	2123.34	40°23'27.885"N	104°20'20.301"W	1.32	
12066.00	89.690	1.040	6365.18	4744.95	4251.10	2125.73	40°23'28.754"N	104°20'20.270"W	1.18	
12155.00	89.880	0.530	6365.51	4827.20	4340.09	2126.95	40°23'29.633"N	104°20'20.254"W	0.61	
12242.00	89.480	358.650	6366.00	4906.89	4427.08	2126.33	40°23'30.493"N	104°20'20.262"W	2.21	
12331.00	89.720	358.010	6366.62	4987.60	4516.04	2123.74	40°23'31.372"N	104°20'20.295"W	0.77	
12420.00	89.660	358.200	6367.10	5068.18	4604.99	2120.79	40°23'32.251"N	104°20'20.333"W	0.22	
12507.00	90.090	357.340	6367.29	5146.72	4691.92	2117.41	40°23'33.110"N	104°20'20.377"W	1.11	
12595.00	89.910	355.250	6367.29	5225.16	4779.73	2111.72	40°23'33.978"N	104°20'20.450"W	2.38	
12711.00	90.250	356.220	6367.13	5328.05	4895.41	2103.10	40°23'35.121"N	104°20'20.561"W	0.89	LAST BHI MWD SURVEY
12736.00	90.250	356.220	6367.02	5350.32	4920.36	2101.45	40°23'35.367"N	104°20'20.583"W	0.00	PROJECTION TO BIT

Actual Wellpath Report

ANTELOPE FEDERAL Y44-U41-20HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWB
Facility	SEC.20-T05N-R62W		

HOLE & CASING SECTIONS									
- Ref Wellbore: ANTELOPE FEDERAL Y44-U41-20HNB AWB					Ref Wellpath: ANTELOPE FEDERAL Y44-U41-20HNB 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	1623.00	1606.00	17.00	1593.32	0.00	0.00	-149.26	199.26

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ANTELOPE FEDERAL Y44-U41-20HNB BHL (300'FSL & 284'FEL, SEC.17)	6337.00	4937.22	2120.31	3323378.42	1388201.61	40°23'35.534"N	104°20'20.339"W	point
ANTELOPE FEDERAL Y44-U41-20HNB LP (0'FSL & 281'FEL, SEC.20)	6337.00	-636.75	2060.03	3323390.65	1382627.57	40°22'40.454"N	104°20'21.124"W	point
ANTELOPE FEDERAL Y44-U41-20HNB BHL REV-1 (300'FSL & 284'FEL, SEC.17)	6366.00	4937.22	2120.31	3323378.42	1388201.61	40°23'35.534"N	104°20'20.339"W	point
ANTELOPE FEDERAL Y44-U41-20HNB LP REV-1 (0'FSL & 281'FEL, SEC.20)	6366.00	-636.75	2060.03	3323390.65	1382627.57	40°22'40.454"N	104°20'21.124"W	point
SEC.17,20-T05N-R62W (460FNL,FSL)	10670.00	7247.96	-159.04	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.17-T05N-R62W	10671.00	7247.96	-159.04	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon
SEC.20-T05N-R62W	10671.00	7247.96	-159.04	3321069.31	1390482.42	40°23'58.369"N	104°20'49.798"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: ANTELOPE FEDERAL Y44-U41-20HNB AWB					Ref Wellpath: ANTELOPE FEDERAL Y44-U41-20HNB AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
17.00	1580.00	BHI NaviTrak (Rotating+Axial Corr)	BHI NAVITRAK (ROTATING+AXIAL CORR) <123-1580>		ANTELOPE FEDERAL Y44-U41-20HNB AWB	
1580.00	12711.00	BHI AutoTrak Curve (Short)	BHI AUTOTRAK CURVE (SHORT) <1686-12711>		ANTELOPE FEDERAL Y44-U41-20HNB AWB	
12711.00	12736.00	Blind Drilling (std)	Projection to bit		ANTELOPE FEDERAL Y44-U41-20HNB AWB	

Actual Wellpath Report
ANTELOPE FEDERAL Y44-U41-20HNB AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#32 ANTELOPE FEDERAL Y44-U41-20HNB (649'FSL & 2348'FEL, SEC.20)
Area	COLORADO	Well	ANTELOPE FEDERAL Y44-U41-20HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ANTELOPE FEDERAL Y44-U41-20HNB AWB
Facility	SEC.20-T05N-R62W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12711.00	90.250	356.220	6367.13	LAST BHI MWD SURVEY
12736.00	90.250	356.220	6367.02	PROJECTION TO BIT