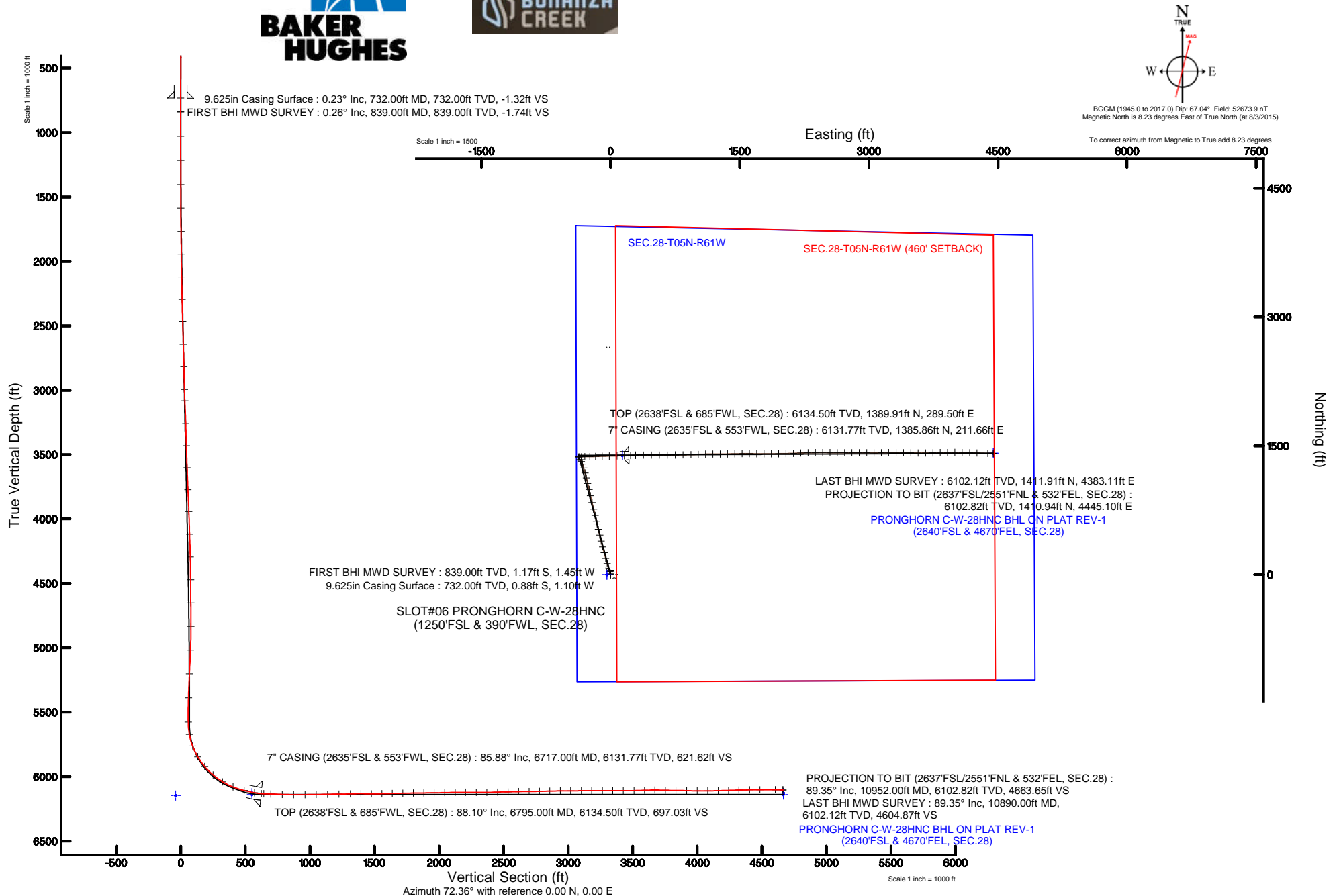
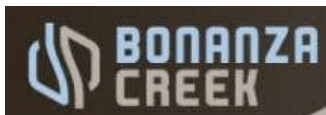




**BONANZA
CREEK**

True vertical depths are referenced to XTREME 20 (17.2Kb) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 20 (17.2Kb) (RKB)	North Reference: True north
XTREME 20 (17.2Kb) (RKB) to Mean Sea Level: 4614.2 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOTH06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingnjannr on 10/30/2015





Actual Wellpath Report

PRONGHORN C-W-28HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28)
Area	COLORADO	Well	PRONGHORN C-W-28HNC
Field	WELD COUNTY	Wellbore	PRONGHORN C-W-28HNC AWB
Facility	SEC.28-T5N-R61W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjmr
Scale	0.999959	Report Generated	10/30/2015 at 10:17:45 AM
Convergence at slot	0.83° East	Database/Source file	WA_DEN_Denver_Defn/PRONGHORN_C-W-28HNC_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2648.54	8.36	3356038.93	1379471.89	40°22'04.836"N	104°13'19.884"W
Facility Reference Pt			3355992.41	1382119.92	40°22'31.008"N	104°13'19.992"W
Field Reference Pt			3335925.10	1457282.25	40°34'56.460"N	104°17'26.016"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 20 (17.2'KB) (RKB) to Facility Vertical Datum	4614.20ft
Horizontal Reference Pt	Slot	XTREME 20 (17.2'KB) (RKB) to Mean Sea Level	4614.20ft
Vertical Reference Pt	XTREME 20 (17.2'KB) (RKB)	XTREME 20 (17.2'KB) (RKB) to Mud Line at Slot (SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28))	4614.20ft
MD Reference Pt	XTREME 20 (17.2'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	72.36°



Actual Wellpath Report

PRONGHORN C-W-28HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28)
Area	COLORADO	Well	PRONGHORN C-W-28HNC
Field	WELD COUNTY	Wellbore	PRONGHORN C-W-28HNC AWB
Facility	SEC.28-T5N-R61W		

WELLPATH DATA (91 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	231.180	0.00	0.00	0.00	0.00	0.00	
17.20	0.000	231.180	17.20	0.00	0.00	0.00	0.00	
839.00	0.260	231.180	839.00	-1.74	-1.17	-1.45	0.03	FIRST BHI MWD SURVEY
1028.00	1.200	346.940	1027.98	-1.98	0.49	-2.23	0.71	
1216.00	5.590	349.340	1215.61	-0.71	11.41	-4.37	2.34	
1405.00	10.150	342.730	1402.78	0.52	36.37	-11.02	2.46	
1593.00	15.090	341.390	1586.18	0.21	75.41	-23.76	2.63	
1781.00	18.930	344.950	1765.93	1.17	128.07	-39.49	2.12	
1970.00	20.090	343.640	1944.08	3.28	188.82	-56.60	0.66	
2159.00	22.220	345.550	2120.33	5.99	254.59	-74.66	1.18	
2347.00	22.160	345.420	2294.41	9.86	323.32	-92.46	0.04	
2535.00	22.030	346.430	2468.60	14.25	391.91	-109.65	0.21	
2724.00	22.100	346.300	2643.76	19.20	460.91	-126.39	0.05	
2911.00	21.250	345.850	2817.54	23.68	527.95	-143.01	0.46	
3099.00	18.730	346.870	2994.20	28.13	590.39	-158.20	1.35	
3193.00	20.140	349.500	3082.84	31.33	621.00	-164.57	1.77	
3381.00	22.250	346.330	3258.12	37.81	687.42	-178.89	1.28	
3570.00	24.700	346.380	3431.46	43.05	760.58	-196.64	1.30	
3759.00	26.150	346.160	3602.15	48.58	839.40	-215.91	0.77	
3947.00	24.890	348.000	3771.81	55.21	918.32	-234.04	0.79	
4134.00	22.700	347.210	3942.90	62.13	992.01	-250.21	1.18	
4323.00	21.990	346.940	4117.71	68.03	1062.05	-266.28	0.38	
4511.00	18.500	346.910	4294.07	73.21	1125.41	-281.00	1.86	
4699.00	19.390	342.760	4471.89	75.79	1184.27	-297.00	0.86	
4887.00	17.000	345.030	4650.48	77.29	1240.63	-313.35	1.33	
5075.00	12.010	342.270	4832.43	78.54	1285.84	-326.42	2.68	
5263.00	8.670	326.720	5017.39	74.68	1316.33	-340.16	2.30	
5450.00	8.800	324.920	5202.22	66.59	1339.82	-356.11	0.16	
5638.00	5.450	322.140	5388.74	59.20	1358.64	-369.86	1.79	
5827.00	1.790	10.280	5577.36	57.47	1368.64	-374.84	2.36	
5921.00	10.150	85.990	5670.84	66.23	1370.67	-366.30	10.49	
6016.00	21.470	87.460	5762.09	91.23	1372.03	-340.50	11.92	
6110.00	31.720	90.110	5846.04	131.49	1372.75	-298.48	10.97	
6204.00	41.610	88.730	5921.35	185.10	1373.39	-242.43	10.56	
6298.00	50.820	87.500	5986.32	250.36	1375.68	-174.68	9.84	
6391.00	59.240	88.510	6039.58	323.67	1378.29	-98.59	9.10	
6484.00	69.920	88.800	6079.44	404.17	1380.25	-14.74	11.49	
6578.00	76.300	88.640	6106.74	490.43	1382.26	75.14	6.79	
6664.00	79.280	88.970	6124.92	571.04	1384.01	159.17	3.49	
6717.00†	85.875	87.021	6131.77	621.62	1385.86	211.66	12.97	7" CASING (2635'FSL & 553'FWL, SEC.28)
6738.00	88.490	86.260	6132.80	641.95	1387.09	232.59	12.97	
6795.00†	88.097	88.068	6134.50	697.03	1389.91	289.50	3.25	TOP (2638'FSL & 685'FWL, SEC.28)
6796.00	88.090	88.100	6134.53	697.99	1389.94	290.50	3.25	
6888.00	87.970	89.920	6137.69	786.08	1391.53	382.42	1.98	
6981.00	89.510	90.720	6139.74	874.52	1391.01	475.40	1.87	



Actual Wellpath Report

PRONGHORN C-W-28HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28)
Area	COLORADO	Well	PRONGHORN C-W-28HNC
Field	WELD COUNTY	Wellbore	PRONGHORN C-W-28HNC AWB
Facility	SEC.28-T5N-R61W		

WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7073.00	90.800	89.770	6139.49	962.08	1390.62	567.39	1.74	
7164.00	90.680	89.270	6138.31	1049.02	1391.38	658.38	0.57	
7256.00	91.480	89.250	6136.58	1137.03	1392.57	750.36	0.87	
7348.00	90.340	88.560	6135.12	1225.21	1394.32	842.33	1.45	
7440.00	91.720	88.930	6133.47	1313.46	1396.34	934.29	1.55	
7524.00	89.630	86.840	6132.48	1394.38	1399.44	1018.21	3.52	
7609.00	89.570	88.680	6133.07	1476.32	1402.76	1103.14	2.17	
7694.00	91.260	89.760	6132.45	1557.66	1403.92	1188.13	2.36	
7778.00	91.020	89.730	6130.78	1637.81	1404.29	1272.11	0.29	
7863.00	91.350	89.310	6129.03	1719.01	1405.00	1357.09	0.63	
7948.00	90.920	88.630	6127.34	1800.45	1406.53	1442.06	0.95	
8033.00	90.680	89.450	6126.15	1881.86	1407.95	1527.04	1.01	
8118.00	90.920	90.600	6124.97	1962.85	1407.92	1612.03	1.38	
8203.00	91.170	90.160	6123.42	2043.66	1407.35	1697.01	0.60	
8288.00	91.110	90.230	6121.73	2124.56	1407.06	1782.00	0.11	
8373.00	89.630	90.040	6121.18	2205.50	1406.86	1866.99	1.76	
8459.00	89.660	88.890	6121.71	2287.70	1407.67	1952.98	1.34	
8544.00	90.550	88.780	6121.55	2369.21	1409.40	2037.97	1.06	
8631.00	91.570	87.550	6119.95	2452.90	1412.18	2124.90	1.84	
8716.00	91.080	87.770	6117.98	2534.87	1415.65	2209.81	0.63	
8801.00	91.380	88.550	6116.15	2616.64	1418.38	2294.74	0.98	
8885.00	90.340	89.230	6114.89	2697.16	1420.01	2378.72	1.48	
8970.00	91.050	90.220	6113.86	2778.28	1420.41	2463.71	1.43	
9054.00	91.390	90.670	6112.07	2858.11	1419.76	2547.69	0.67	
9139.00	91.170	90.840	6110.18	2938.75	1418.64	2632.66	0.33	
9224.00	89.690	89.560	6109.54	3019.65	1418.35	2717.65	2.30	
9310.00	90.990	90.810	6109.03	3101.52	1418.07	2803.65	2.10	
9395.00	89.880	89.220	6108.38	3182.51	1418.05	2888.64	2.28	
9481.00	89.320	90.500	6108.98	3264.53	1418.26	2974.64	1.62	
9566.00	90.560	90.550	6109.07	3345.29	1417.48	3059.63	1.46	
9651.00	89.780	88.100	6108.82	3426.59	1418.48	3144.62	3.02	
9738.00	91.670	89.730	6107.72	3509.97	1420.13	3231.59	2.87	
9823.00	91.730	90.160	6105.20	3590.96	1420.21	3316.55	0.51	
9908.00	90.000	91.020	6103.91	3671.68	1419.33	3401.53	2.27	
9993.00	88.450	90.740	6105.06	3752.27	1418.03	3486.51	1.85	
10079.00	89.570	90.710	6106.55	3833.88	1416.94	3572.49	1.30	
10167.00	88.270	89.870	6108.21	3917.59	1416.49	3660.47	1.76	
10252.00	89.200	88.460	6110.08	3998.94	1417.73	3745.44	1.99	
10337.00	90.680	88.110	6110.17	4080.68	1420.28	3830.40	1.79	
10422.00	91.660	89.610	6108.44	4162.16	1421.97	3915.36	2.11	
10506.00	91.660	89.640	6106.00	4242.34	1422.52	3999.32	0.04	
10591.00	91.110	91.830	6103.95	4322.98	1421.43	4084.28	2.66	
10678.00	90.710	91.910	6102.57	4404.97	1418.59	4171.23	0.47	
10764.00	90.340	92.300	6101.78	4485.91	1415.43	4257.16	0.63	
10890.00	89.350	90.900	6102.12	4604.87	1411.91	4383.11	1.36	LAST BHI MWD SURVEY



Actual Wellpath Report

PRONGHORN C-W-28HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28)
Area	COLORADO	Well	PRONGHORN C-W-28HNC
Field	WELD COUNTY	Wellbore	PRONGHORN C-W-28HNC AWB
Facility	SEC.28-T5N-R61W		

WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10952.00	89.350	90.900	6102.82	4663.65	1410.94	4445.10	0.00	PROJECTION TO BIT (2637'FSL/2551'FNL & 532'FEL, SEC.28)

HOLE & CASING SECTIONS

- Ref Wellbore: PRONGHORN C-W-28HNC AWB Ref Wellpath: PRONGHORN C-W-28HNC 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	17.20	732.00	714.80	17.20	732.00	0.00	0.00	-0.88	-1.10
8.75in Open Hole	732.00	6717.00	5985.00	732.00	6131.77	-0.88	-1.10	1385.86	211.66
7in Casing Intermediate	17.20	6717.00	6699.80	17.20	6131.77	0.00	0.00	1385.86	211.66
6in Open Hole	6717.00	10952.00	4235.00	6131.77	6102.82	1385.86	211.66	1410.94	4445.10

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.28-T05N-R61W	2.00	0.00	-41.80	3355997.14	1379471.29	40°22'04.836"N	104°13'20.424"W	polygon
PRONGHORN C-W-28HNC BHL ON PLAT (2640'FSL & 4670'FEL, SEC.28)	6126.20	1413.92	4447.06	3360464.96	1380949.68	40°22'18.804"N	104°12'22.428"W	point
PRONGHORN C-W-28HNC ENTRY POINT	6126.20	1388.02	136.53	3356155.44	1380861.67	40°22'18.552"N	104°13'18.120"W	point
PRONGHORN C-W-28HNC BHL ON PLAT REV-1 (2640'FSL & 4670'FEL, SEC.28)	6139.00	1413.92	4447.06	3360464.96	1380949.68	40°22'18.804"N	104°12'22.428"W	point
PRONGHORN C-W-28HNC ENTRY POINT REV-1	6139.00	1388.02	136.53	3356155.44	1380861.67	40°22'18.552"N	104°13'18.120"W	point
SEC.28-T05N-R61W (460' SETBACK)	6147.00	0.00	-41.80	3355997.14	1379471.29	40°22'04.836"N	104°13'20.424"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: PRONGHORN C-W-28HNC AWB Ref Wellpath: PRONGHORN C-W-28HNC AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.20	6664.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 8.75" HOLE <839-6664>	PRONGHORN C-W-28HNC AWB
6664.00	10890.00	NaviTrak (Standard)	BHI MWD/NAVITRAK (STD) 6.125" HOLE <6738-10890>	PRONGHORN C-W-28HNC AWB
10890.00	10952.00	Blind Drilling (std)	Projection to bit	PRONGHORN C-W-28HNC AWB



Actual Wellpath Report

PRONGHORN C-W-28HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 PRONGHORN C-W-28HNC (1250'FSL & 390'FWL, SEC.28)
Area	COLORADO	Well	PRONGHORN C-W-28HNC
Field	WELD COUNTY	Wellbore	PRONGHORN C-W-28HNC AWB
Facility	SEC.28-T5N-R61W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
839.00	0.260	231.180	839.00	FIRST BHI MWD SURVEY
6717.00	85.875	87.021	6131.77	7" CASING (2635'FSL & 553'FWL, SEC.28)
6795.00	88.097	88.068	6134.50	TOP (2638'FSL & 685'FWL, SEC.28)
10890.00	89.350	90.900	6102.12	LAST BHI MWD SURVEY
10952.00	89.350	90.900	6102.82	PROJECTION TO BIT (2637'FSL/2551'FNL & 532'FEL, SEC.28)