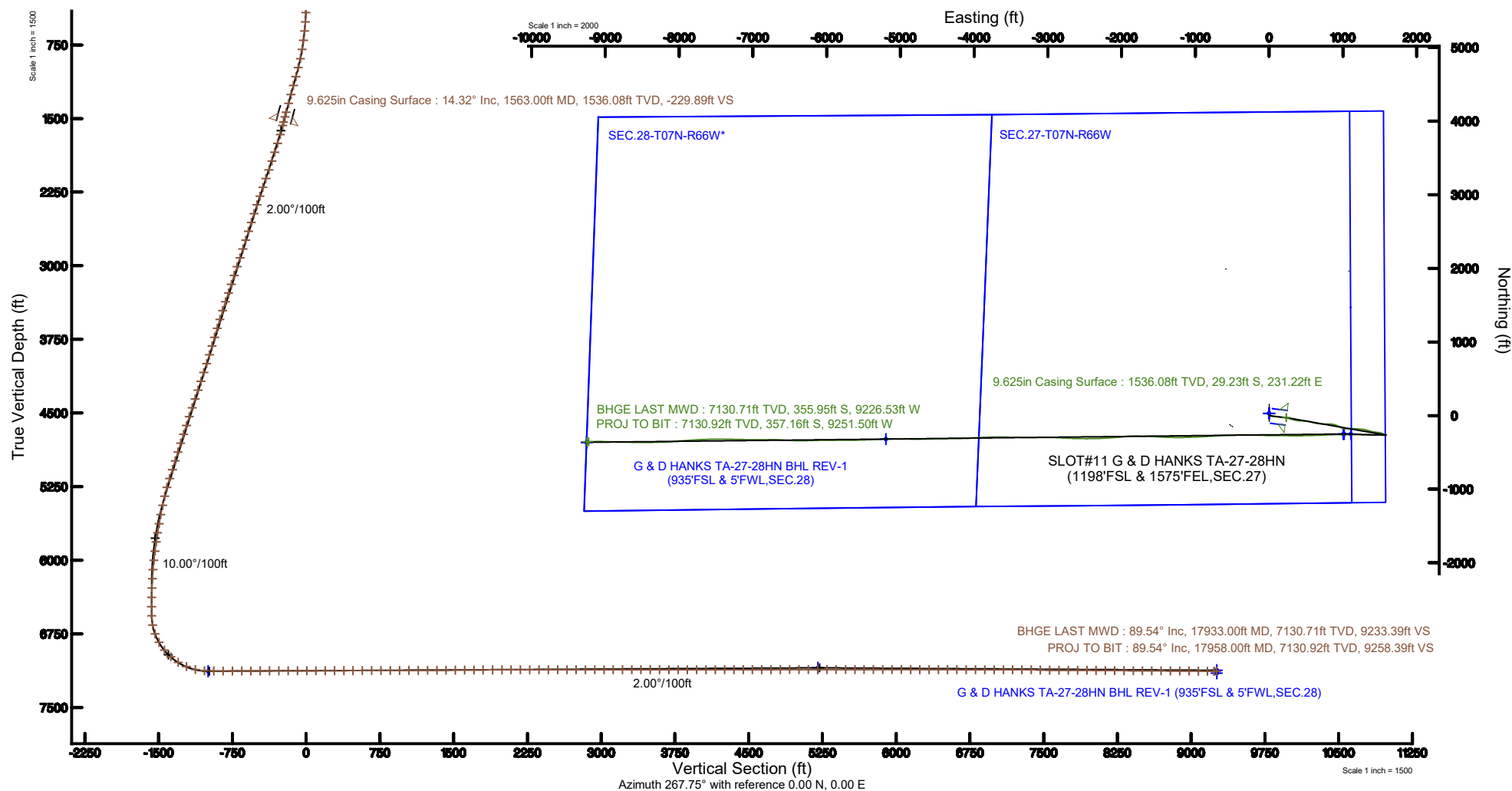


Location:	COLORADO	Slot:	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL, SEC.27)
Field:	WELD COUNTY (NAD83/TRUE NORTH)	Well:	G & D HANKS TA-27-28HN
Facility:	SEC.27-T07N-R66W	Wellbore:	G & D HANKS TA-27-28HN PWB



Plot reference wellpath is G & D HANKS TA-27-28HN PWP (REV-F.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to TRUE 38 (4876'GL + 25KB @ 4901'RKB) (RKB)	North Reference: True north
Measured depths are referenced to TRUE 38 (4876'GL + 25KB @ 4901'RKB) (RKB)	Scale: True distance
TRUE 38 (4876'GL + 25KB @ 4901'RKB) (RKB) to Mean Sea Level: 4901 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27): 0 feet	Created by: amuntine on 2018-06-20
Coordinates are in feet referenced to Slot	Database: WA DENVER



Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL, SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWP
Facility	SEC.27-T07N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Amuntime
Scale	0.999970	Report Generated	6/20/2018 at 9:55:53 AM
Convergence at slot	0.48° East	Database/Source file	WA DENVER/G D_HANKS_TA-27-28HN_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-150.10	-0.28	3205704.13	1441152.44	40°32'31.225"N	104°45'35.474"W
Facility Reference Pt			3205703.16	1441302.53	40°32'32.708"N	104°45'35.471"W
Field Reference Pt			3174587.00	1430859.71	40°30'51.890"N	104°52'19.470"W

WELLPATH DATUM			
Calculation method	Minimum curvature	TRUE 38 (4876'GL + 25'KB @ 4901'RKB) (RKB) to Facility Vertical Datum	4901.00ft
Horizontal Reference Pt	Slot	TRUE 38 (4876'GL + 25'KB @ 4901'RKB) (RKB) to Mean Sea Level	4901.00ft
Vertical Reference Pt	TRUE 38 (4876'GL + 25'KB @ 4901'RKB) (RKB)	TRUE 38 (4876'GL + 25'KB @ 4901'RKB) (RKB) to Ground Level at Slot (SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL, SEC.27))	4901.00ft
MD Reference Pt	TRUE 38 (4876'GL + 25'KB @ 4901'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	267.79°

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWB
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 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	186.180	0.00	0.00	0.00	0.00	40°32'31.225"N	104°45'35.474"W	0.00	
25.00	0.000	186.180	25.00	0.00	0.00	0.00	40°32'31.225"N	104°45'35.474"W	0.00	
137.00	0.190	186.180	137.00	0.03	-0.18	-0.02	40°32'31.223"N	104°45'35.475"W	0.17	
232.00	0.130	338.640	232.00	0.09	-0.24	-0.08	40°32'31.223"N	104°45'35.475"W	0.33	
327.00	0.930	102.330	327.00	-0.63	-0.31	0.64	40°32'31.222"N	104°45'35.466"W	1.06	
421.00	2.310	106.270	420.96	-3.16	-1.00	3.20	40°32'31.215"N	104°45'35.433"W	1.47	
516.00	3.930	99.670	515.81	-8.16	-2.08	8.25	40°32'31.205"N	104°45'35.368"W	1.74	
610.00	5.730	99.910	609.47	-15.90	-3.43	16.05	40°32'31.191"N	104°45'35.267"W	1.92	
705.00	7.700	97.440	703.82	-26.82	-5.07	27.03	40°32'31.175"N	104°45'35.124"W	2.10	
799.00	9.800	97.060	796.72	-40.92	-6.87	41.22	40°32'31.157"N	104°45'34.941"W	2.23	
894.00	12.090	97.680	889.98	-58.70	-9.19	59.10	40°32'31.134"N	104°45'34.709"W	2.41	
988.00	14.360	97.250	981.49	-79.90	-11.98	80.42	40°32'31.107"N	104°45'34.433"W	2.42	
1083.00	15.640	96.510	1073.25	-104.18	-14.92	104.83	40°32'31.078"N	104°45'34.117"W	1.36	
1177.00	15.650	97.190	1163.76	-129.21	-17.94	130.00	40°32'31.048"N	104°45'33.791"W	0.20	
1272.00	14.910	95.870	1255.41	-153.96	-20.80	154.87	40°32'31.020"N	104°45'33.468"W	0.86	
1366.00	15.510	95.740	1346.11	-178.38	-23.29	179.41	40°32'30.995"N	104°45'33.151"W	0.64	
1460.00	15.730	96.370	1436.64	-203.42	-25.96	204.58	40°32'30.969"N	104°45'32.825"W	0.30	
1508.00	15.240	96.580	1482.90	-216.09	-27.41	217.31	40°32'30.954"N	104°45'32.660"W	1.03	
1600.00	13.710	99.770	1571.98	-238.71	-30.64	240.07	40°32'30.922"N	104°45'32.365"W	1.87	
1695.00	17.940	110.500	1663.38	-263.23	-37.68	264.88	40°32'30.853"N	104°45'32.043"W	5.40	
1790.00	18.030	105.750	1753.74	-290.72	-46.80	292.74	40°32'30.763"N	104°45'31.683"W	1.55	
1884.00	18.870	105.730	1842.91	-319.02	-54.87	321.37	40°32'30.683"N	104°45'31.312"W	0.89	
1979.00	18.950	103.840	1932.78	-348.46	-62.72	351.14	40°32'30.605"N	104°45'30.926"W	0.65	
2074.00	19.010	98.180	2022.62	-378.50	-68.61	381.43	40°32'30.547"N	104°45'30.534"W	1.94	
2169.00	18.920	92.110	2112.47	-409.08	-71.38	412.14	40°32'30.520"N	104°45'30.136"W	2.08	
2263.00	18.930	91.360	2201.39	-439.50	-72.30	442.62	40°32'30.511"N	104°45'29.741"W	0.26	
2358.00	18.900	93.910	2291.26	-470.17	-73.72	473.37	40°32'30.497"N	104°45'29.343"W	0.87	
2452.00	18.900	94.620	2380.20	-500.43	-75.98	503.73	40°32'30.474"N	104°45'28.950"W	0.24	
2546.00	17.880	97.550	2469.40	-529.77	-79.11	533.22	40°32'30.443"N	104°45'28.568"W	1.46	
2641.00	18.140	106.230	2559.76	-558.17	-85.16	561.88	40°32'30.384"N	104°45'28.197"W	2.84	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWB
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2736.00	18.350	106.960	2649.98	-586.33	-93.65	590.38	40°32'30.300"N	104°45'27.827"W	0.33	
2830.00	18.190	103.190	2739.25	-614.45	-101.32	618.82	40°32'30.224"N	104°45'27.459"W	1.27	
2925.00	18.240	99.530	2829.49	-643.30	-107.16	647.92	40°32'30.166"N	104°45'27.082"W	1.21	
3019.00	18.270	97.120	2918.76	-672.25	-111.42	677.05	40°32'30.124"N	104°45'26.705"W	0.80	
3114.00	18.180	91.030	3009.00	-701.74	-113.54	706.65	40°32'30.103"N	104°45'26.322"W	2.01	
3208.00	18.160	90.740	3098.32	-731.01	-113.99	735.95	40°32'30.099"N	104°45'25.942"W	0.10	
3303.00	18.270	91.500	3188.56	-760.65	-114.57	765.64	40°32'30.093"N	104°45'25.557"W	0.28	
3397.00	18.120	90.000	3277.86	-789.96	-114.96	794.99	40°32'30.089"N	104°45'25.177"W	0.52	
3492.00	18.180	91.070	3368.13	-819.52	-115.23	824.58	40°32'30.086"N	104°45'24.794"W	0.36	
3586.00	18.230	98.290	3457.44	-848.62	-117.63	853.80	40°32'30.063"N	104°45'24.416"W	2.40	
3681.00	18.160	104.640	3547.69	-877.40	-123.51	882.83	40°32'30.005"N	104°45'24.040"W	2.09	
3776.00	17.750	112.180	3638.08	-904.77	-132.72	910.56	40°32'29.914"N	104°45'23.680"W	2.48	
3871.00	18.150	117.040	3728.46	-930.87	-144.92	937.15	40°32'29.793"N	104°45'23.336"W	1.63	
3965.00	18.120	116.570	3817.79	-956.45	-158.11	963.27	40°32'29.663"N	104°45'22.998"W	0.16	
4060.00	18.250	110.200	3908.06	-983.15	-169.85	990.44	40°32'29.547"N	104°45'22.646"W	2.10	
4154.00	18.330	99.070	3997.33	-1011.27	-177.27	1018.86	40°32'29.473"N	104°45'22.278"W	3.71	
4249.00	18.190	91.090	4087.57	-1040.72	-179.91	1048.44	40°32'29.447"N	104°45'21.894"W	2.63	
4344.00	18.270	85.260	4177.80	-1070.41	-178.96	1078.11	40°32'29.457"N	104°45'21.510"W	1.92	
4438.00	18.230	88.050	4267.08	-1099.83	-177.24	1107.49	40°32'29.474"N	104°45'21.130"W	0.93	
4533.00	18.250	93.110	4357.31	-1129.50	-177.54	1137.20	40°32'29.471"N	104°45'20.745"W	1.67	
4628.00	18.120	94.930	4447.57	-1158.97	-179.62	1166.77	40°32'29.450"N	104°45'20.362"W	0.61	
4723.00	18.170	94.290	4537.84	-1188.35	-182.00	1196.26	40°32'29.427"N	104°45'19.980"W	0.22	
4817.00	18.080	91.850	4627.18	-1217.46	-183.56	1225.45	40°32'29.411"N	104°45'19.602"W	0.81	
4912.00	18.250	94.830	4717.45	-1246.93	-185.29	1255.01	40°32'29.394"N	104°45'19.219"W	0.99	
5006.00	18.030	98.230	4806.78	-1275.84	-188.61	1284.07	40°32'29.361"N	104°45'18.842"W	1.15	
5101.00	18.110	106.140	4897.11	-1304.32	-194.82	1312.81	40°32'29.300"N	104°45'18.470"W	2.58	
5196.00	18.160	108.450	4987.39	-1332.19	-203.61	1341.04	40°32'29.213"N	104°45'18.105"W	0.76	
5290.00	18.270	105.850	5076.68	-1359.90	-212.27	1369.11	40°32'29.127"N	104°45'17.741"W	0.87	
5385.00	18.190	102.200	5166.91	-1388.42	-219.47	1397.93	40°32'29.056"N	104°45'17.368"W	1.20	
5480.00	16.190	98.050	5257.67	-1415.82	-224.46	1425.54	40°32'29.007"N	104°45'17.010"W	2.47	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWB
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5574.00	12.630	94.540	5348.70	-1438.93	-227.11	1448.77	40°32'28.981"N	104°45'16.709"W	3.90	
5669.00	12.300	95.210	5441.46	-1459.27	-228.85	1469.20	40°32'28.963"N	104°45'16.445"W	0.38	
5764.00	10.790	99.530	5534.54	-1478.02	-231.25	1488.05	40°32'28.940"N	104°45'16.200"W	1.83	
5858.00	10.410	103.700	5626.93	-1494.80	-234.71	1504.97	40°32'28.905"N	104°45'15.981"W	0.91	
5953.00	9.860	106.400	5720.45	-1510.76	-239.04	1521.12	40°32'28.863"N	104°45'15.772"W	0.76	
6047.00	8.270	107.090	5813.27	-1524.77	-243.30	1535.30	40°32'28.821"N	104°45'15.588"W	1.70	
6142.00	8.250	115.730	5907.29	-1537.24	-248.27	1547.97	40°32'28.771"N	104°45'15.424"W	1.31	
6236.00	7.190	115.690	6000.44	-1548.40	-253.75	1559.35	40°32'28.717"N	104°45'15.277"W	1.13	
6331.00	5.240	112.040	6094.88	-1557.61	-257.95	1568.73	40°32'28.676"N	104°45'15.155"W	2.09	
6424.00	3.460	116.740	6187.60	-1563.94	-260.81	1575.17	40°32'28.648"N	104°45'15.072"W	1.95	
6519.00	3.460	126.490	6282.43	-1568.68	-263.80	1580.03	40°32'28.618"N	104°45'15.009"W	0.62	
6614.00	1.020	128.770	6377.35	-1571.56	-266.04	1583.00	40°32'28.596"N	104°45'14.971"W	2.57	
6709.00	0.030	118.680	6472.35	-1572.22	-266.58	1583.68	40°32'28.591"N	104°45'14.962"W	1.04	
6803.00	1.090	264.770	6566.34	-1571.35	-266.67	1582.81	40°32'28.590"N	104°45'14.973"W	1.19	
6897.00	11.490	280.840	6659.65	-1561.31	-264.99	1572.70	40°32'28.606"N	104°45'15.104"W	11.11	
6992.00	20.610	273.370	6750.86	-1535.39	-262.22	1546.66	40°32'28.634"N	104°45'15.441"W	9.82	
7087.00	29.500	266.370	6836.85	-1495.28	-262.72	1506.53	40°32'28.629"N	104°45'15.961"W	9.85	
7182.00	39.060	267.580	6915.26	-1441.84	-265.47	1453.16	40°32'28.602"N	104°45'16.652"W	10.09	
7277.00	48.890	270.880	6983.55	-1376.00	-266.19	1387.30	40°32'28.595"N	104°45'17.505"W	10.62	
7371.00	57.220	273.770	7040.01	-1301.20	-263.04	1312.32	40°32'28.626"N	104°45'18.477"W	9.19	
7466.00	67.090	272.690	7084.33	-1217.68	-258.35	1228.56	40°32'28.672"N	104°45'19.562"W	10.44	
7561.00	76.990	269.100	7113.59	-1127.56	-257.02	1138.33	40°32'28.685"N	104°45'20.730"W	11.02	
7655.00	88.280	269.590	7125.62	-1034.52	-258.08	1045.26	40°32'28.675"N	104°45'21.936"W	12.02	
7750.00	89.540	269.690	7127.43	-939.59	-258.67	950.28	40°32'28.669"N	104°45'23.166"W	1.33	
7844.00	89.660	268.120	7128.09	-845.62	-260.47	856.30	40°32'28.651"N	104°45'24.383"W	1.68	
7939.00	89.630	267.240	7128.68	-750.62	-264.32	761.38	40°32'28.613"N	104°45'25.613"W	0.93	
8034.00	90.090	268.010	7128.91	-655.62	-268.25	666.47	40°32'28.574"N	104°45'26.842"W	0.94	
8128.00	90.580	268.380	7128.36	-561.63	-271.21	572.51	40°32'28.545"N	104°45'28.059"W	0.65	
8223.00	90.490	269.050	7127.47	-466.64	-273.34	477.54	40°32'28.524"N	104°45'29.289"W	0.71	
8318.00	90.030	270.140	7127.04	-371.69	-274.01	382.55	40°32'28.518"N	104°45'30.519"W	1.25	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWB
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8411.00	90.090	270.280	7126.94	-278.78	-273.67	289.55	40°32'28.521"N	104°45'31.724"W	0.16	
8506.00	90.250	270.320	7126.66	-183.87	-273.18	194.55	40°32'28.526"N	104°45'32.954"W	0.17	
8601.00	90.180	270.580	7126.30	-88.97	-272.43	99.55	40°32'28.533"N	104°45'34.185"W	0.28	
8696.00	90.090	270.850	7126.08	5.91	-271.24	4.56	40°32'28.545"N	104°45'35.415"W	0.30	
8790.00	90.340	272.160	7125.73	99.71	-268.78	-89.40	40°32'28.569"N	104°45'36.632"W	1.42	
8884.00	90.180	271.560	7125.30	193.47	-265.73	-183.35	40°32'28.599"N	104°45'37.849"W	0.66	
8979.00	90.090	271.980	7125.08	288.24	-262.79	-278.31	40°32'28.628"N	104°45'39.079"W	0.45	
9074.00	90.250	270.410	7124.80	383.07	-260.81	-373.28	40°32'28.648"N	104°45'40.309"W	1.66	
9168.00	90.220	267.990	7124.41	477.03	-262.12	-467.27	40°32'28.635"N	104°45'41.527"W	2.57	
9263.00	90.250	266.870	7124.02	572.03	-266.38	-562.17	40°32'28.593"N	104°45'42.756"W	1.18	
9357.00	90.220	265.970	7123.63	666.00	-272.25	-655.98	40°32'28.535"N	104°45'43.971"W	0.96	
9452.00	90.090	266.460	7123.38	760.96	-278.52	-750.77	40°32'28.473"N	104°45'45.199"W	0.53	
9546.00	90.310	266.910	7123.05	854.94	-283.96	-844.62	40°32'28.419"N	104°45'46.414"W	0.53	
9641.00	90.150	267.530	7122.67	949.94	-288.57	-939.50	40°32'28.374"N	104°45'47.643"W	0.67	
9736.00	90.180	267.510	7122.39	1044.93	-292.68	-1034.41	40°32'28.333"N	104°45'48.873"W	0.04	
9830.00	90.180	268.080	7122.10	1138.93	-296.29	-1128.34	40°32'28.297"N	104°45'50.089"W	0.61	
9925.00	90.370	270.380	7121.64	1233.90	-297.57	-1223.33	40°32'28.285"N	104°45'51.320"W	2.43	
10020.00	90.400	271.430	7121.01	1328.75	-296.07	-1318.31	40°32'28.299"N	104°45'52.550"W	1.11	
10114.00	90.400	271.740	7120.35	1422.54	-293.47	-1412.27	40°32'28.325"N	104°45'53.767"W	0.33	
10209.00	90.430	272.940	7119.66	1517.24	-289.59	-1507.19	40°32'28.363"N	104°45'54.996"W	1.26	
10304.00	90.430	272.780	7118.95	1611.87	-284.85	-1602.07	40°32'28.410"N	104°45'56.225"W	0.17	
10398.00	90.520	271.400	7118.17	1705.60	-281.42	-1696.00	40°32'28.444"N	104°45'57.442"W	1.47	
10493.00	90.400	270.390	7117.41	1800.45	-279.94	-1790.99	40°32'28.458"N	104°45'58.672"W	1.07	
10588.00	90.090	266.720	7117.00	1895.43	-282.33	-1885.94	40°32'28.435"N	104°45'59.902"W	3.88	
10683.00	90.000	264.370	7116.92	1990.35	-289.71	-1980.64	40°32'28.362"N	104°46'01.129"W	2.48	
10777.00	90.060	266.010	7116.88	2084.25	-297.59	-2074.31	40°32'28.284"N	104°46'02.342"W	1.75	
10872.00	90.090	266.810	7116.75	2179.22	-303.54	-2169.12	40°32'28.225"N	104°46'03.570"W	0.84	
10966.00	90.090	267.050	7116.60	2273.21	-308.58	-2262.99	40°32'28.175"N	104°46'04.786"W	0.26	
11061.00	90.030	268.690	7116.50	2368.20	-312.11	-2357.92	40°32'28.140"N	104°46'06.015"W	1.73	
11155.00	90.120	269.720	7116.38	2462.17	-313.41	-2451.91	40°32'28.127"N	104°46'07.233"W	1.10	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWP
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11250.00	90.120	270.860	7116.18	2557.08	-312.93	-2546.91	40°32'28.132"N	104°46'08.463"W	1.20	
11345.00	90.120	271.580	7115.98	2651.91	-310.91	-2641.88	40°32'28.152"N	104°46'09.693"W	0.76	
11439.00	89.970	272.650	7115.91	2745.64	-307.44	-2735.82	40°32'28.186"N	104°46'10.910"W	1.15	
11534.00	90.090	272.940	7115.86	2840.28	-302.81	-2830.70	40°32'28.231"N	104°46'12.139"W	0.33	
11628.00	90.060	271.020	7115.74	2934.02	-299.56	-2924.64	40°32'28.263"N	104°46'13.356"W	2.04	
11723.00	90.150	270.510	7115.56	3028.89	-298.29	-3019.63	40°32'28.276"N	104°46'14.586"W	0.55	
11817.00	90.180	270.270	7115.29	3122.80	-297.65	-3113.63	40°32'28.282"N	104°46'15.804"W	0.26	
11912.00	90.090	270.210	7115.07	3217.71	-297.25	-3208.63	40°32'28.286"N	104°46'17.034"W	0.11	
12006.00	90.030	269.980	7114.97	3311.63	-297.10	-3302.63	40°32'28.287"N	104°46'18.252"W	0.25	
12100.00	90.000	270.800	7114.94	3405.54	-296.46	-3396.63	40°32'28.293"N	104°46'19.469"W	0.87	
12195.00	90.030	271.510	7114.92	3500.37	-294.54	-3491.61	40°32'28.312"N	104°46'20.699"W	0.75	
12289.00	89.880	270.820	7114.99	3594.21	-292.63	-3585.59	40°32'28.331"N	104°46'21.917"W	0.75	
12384.00	89.940	270.490	7115.14	3689.09	-291.55	-3680.58	40°32'28.342"N	104°46'23.147"W	0.35	
12478.00	89.850	268.650	7115.32	3783.04	-292.25	-3774.57	40°32'28.334"N	104°46'24.364"W	1.96	
12572.00	90.090	266.890	7115.36	3877.04	-295.91	-3868.50	40°32'28.298"N	104°46'25.581"W	1.89	
12667.00	90.030	267.000	7115.26	3972.02	-300.97	-3963.36	40°32'28.248"N	104°46'26.810"W	0.13	
12761.00	89.910	267.180	7115.31	4066.02	-305.74	-4057.24	40°32'28.201"N	104°46'28.026"W	0.23	
12856.00	90.090	268.270	7115.31	4161.02	-309.51	-4152.17	40°32'28.163"N	104°46'29.255"W	1.16	
12951.00	90.250	269.370	7115.03	4256.00	-311.47	-4247.14	40°32'28.144"N	104°46'30.485"W	1.17	
13045.00	89.910	269.040	7114.90	4349.97	-312.78	-4341.14	40°32'28.131"N	104°46'31.703"W	0.50	
13140.00	89.970	268.960	7115.00	4444.95	-314.43	-4436.12	40°32'28.114"N	104°46'32.933"W	0.11	
13234.00	90.030	268.620	7115.00	4538.93	-316.42	-4530.10	40°32'28.094"N	104°46'34.150"W	0.37	
13329.00	90.000	268.630	7114.98	4633.92	-318.70	-4625.07	40°32'28.072"N	104°46'35.380"W	0.03	
13423.00	90.250	269.460	7114.77	4727.90	-320.26	-4719.06	40°32'28.056"N	104°46'36.598"W	0.92	
13518.00	90.180	270.190	7114.41	4822.84	-320.55	-4814.06	40°32'28.053"N	104°46'37.828"W	0.77	
13613.00	89.970	270.970	7114.29	4917.73	-319.59	-4909.05	40°32'28.062"N	104°46'39.059"W	0.85	
13708.00	90.090	271.820	7114.24	5012.54	-317.28	-5004.02	40°32'28.085"N	104°46'40.289"W	0.90	
13802.00	89.970	269.840	7114.19	5106.40	-315.92	-5098.01	40°32'28.098"N	104°46'41.506"W	2.11	
13897.00	90.090	267.480	7114.14	5201.38	-318.14	-5192.97	40°32'28.076"N	104°46'42.736"W	2.49	
13992.00	89.970	267.190	7114.09	5296.38	-322.56	-5287.87	40°32'28.032"N	104°46'43.965"W	0.33	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWP
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14086.00	90.030	267.660	7114.09	5390.38	-326.78	-5381.78	40°32'27.990"N	104°46'45.182"W	0.50	
14181.00	90.000	268.070	7114.07	5485.38	-330.32	-5476.71	40°32'27.955"N	104°46'46.411"W	0.43	
14276.00	89.970	268.560	7114.09	5580.37	-333.11	-5571.67	40°32'27.927"N	104°46'47.641"W	0.52	
14370.00	89.970	268.970	7114.14	5674.36	-335.14	-5665.65	40°32'27.907"N	104°46'48.858"W	0.44	
14465.00	90.120	270.220	7114.07	5769.31	-335.81	-5760.64	40°32'27.900"N	104°46'50.089"W	1.33	
14559.00	89.880	270.270	7114.07	5863.22	-335.41	-5854.64	40°32'27.904"N	104°46'51.306"W	0.26	
14654.00	90.000	270.090	7114.17	5958.14	-335.11	-5949.64	40°32'27.907"N	104°46'52.537"W	0.23	
14748.00	89.910	269.290	7114.24	6052.09	-335.62	-6043.64	40°32'27.901"N	104°46'53.754"W	0.86	
14843.00	89.880	268.500	7114.41	6147.07	-337.45	-6138.62	40°32'27.883"N	104°46'54.985"W	0.83	
14937.00	90.000	268.710	7114.51	6241.06	-339.74	-6232.59	40°32'27.860"N	104°46'56.202"W	0.26	
15032.00	90.030	269.120	7114.49	6336.04	-341.54	-6327.58	40°32'27.842"N	104°46'57.432"W	0.43	
15126.00	89.910	271.640	7114.54	6429.94	-340.91	-6421.57	40°32'27.848"N	104°46'58.649"W	2.68	
15220.00	89.970	273.070	7114.63	6523.64	-337.05	-6515.48	40°32'27.886"N	104°46'59.866"W	1.52	
15315.00	89.880	273.080	7114.76	6618.23	-331.96	-6610.35	40°32'27.936"N	104°47'01.095"W	0.10	
15409.00	89.910	271.720	7114.93	6711.93	-328.02	-6704.26	40°32'27.975"N	104°47'02.311"W	1.45	
15504.00	89.970	269.280	7115.03	6806.81	-327.19	-6799.25	40°32'27.983"N	104°47'03.541"W	2.57	
15599.00	89.940	269.130	7115.11	6901.78	-328.51	-6894.24	40°32'27.970"N	104°47'04.772"W	0.16	
15694.00	89.880	270.670	7115.25	6996.72	-328.67	-6989.24	40°32'27.968"N	104°47'06.002"W	1.62	
15788.00	89.910	271.000	7115.43	7090.58	-327.30	-7083.23	40°32'27.981"N	104°47'07.220"W	0.35	
15881.00	90.090	271.360	7115.43	7183.42	-325.39	-7176.21	40°32'28.000"N	104°47'08.424"W	0.43	
15976.00	89.880	271.070	7115.45	7278.25	-323.38	-7271.19	40°32'28.019"N	104°47'09.654"W	0.38	
16071.00	88.890	270.100	7116.47	7373.13	-322.41	-7366.17	40°32'28.029"N	104°47'10.884"W	1.46	
16165.00	88.980	269.900	7118.22	7467.04	-322.41	-7460.16	40°32'28.028"N	104°47'12.102"W	0.23	
16259.00	89.170	269.620	7119.74	7560.97	-322.80	-7554.14	40°32'28.024"N	104°47'13.319"W	0.36	
16354.00	89.690	268.370	7120.68	7655.95	-324.47	-7649.12	40°32'28.007"N	104°47'14.549"W	1.43	
16449.00	89.970	266.940	7120.96	7750.94	-328.35	-7744.04	40°32'27.969"N	104°47'15.779"W	1.53	
16543.00	89.660	266.100	7121.27	7844.92	-334.06	-7837.87	40°32'27.912"N	104°47'16.994"W	0.95	
16638.00	89.750	266.260	7121.76	7939.88	-340.39	-7932.65	40°32'27.849"N	104°47'18.222"W	0.19	
16732.00	89.540	265.410	7122.34	8033.82	-347.21	-8026.40	40°32'27.781"N	104°47'19.436"W	0.93	
16826.00	89.600	264.420	7123.04	8127.70	-355.54	-8120.03	40°32'27.699"N	104°47'20.649"W	1.06	

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL,SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWP
Facility	SEC.27-T07N-R66W		

WELLPATH DATA (193 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16920.00	89.450	267.880	7123.82	8221.64	-361.86	-8213.80	40°32'27.636"N	104°47'21.863"W	3.68	
17015.00	89.600	270.180	7124.61	8316.61	-363.46	-8308.78	40°32'27.620"N	104°47'23.093"W	2.43	
17110.00	89.600	269.360	7125.27	8411.55	-363.84	-8403.77	40°32'27.616"N	104°47'24.324"W	0.86	
17204.00	89.690	269.920	7125.86	8505.50	-364.44	-8497.77	40°32'27.610"N	104°47'25.541"W	0.60	
17299.00	89.720	270.560	7126.35	8600.41	-364.04	-8592.77	40°32'27.613"N	104°47'26.772"W	0.67	
17394.00	89.660	270.410	7126.86	8695.31	-363.23	-8687.76	40°32'27.621"N	104°47'28.002"W	0.17	
17488.00	89.540	271.240	7127.52	8789.17	-361.88	-8781.75	40°32'27.634"N	104°47'29.219"W	0.89	
17583.00	89.600	272.510	7128.23	8883.92	-358.77	-8876.69	40°32'27.664"N	104°47'30.449"W	1.34	
17678.00	89.570	272.120	7128.92	8978.63	-354.93	-8971.61	40°32'27.702"N	104°47'31.679"W	0.41	
17773.00	89.600	270.430	7129.60	9073.44	-352.82	-9066.58	40°32'27.722"N	104°47'32.909"W	1.78	
17867.00	89.630	268.650	7130.24	9167.39	-353.58	-9160.57	40°32'27.715"N	104°47'34.126"W	1.89	
17933.00	89.540	267.230	7130.71	9233.39	-355.95	-9226.53	40°32'27.691"N	104°47'34.980"W	2.16	BHGE LAST MWD
17958.00	89.540	267.230	7130.92	9258.39	-357.16	-9251.50	40°32'27.679"N	104°47'35.304"W	0.00	PROJ TO BIT

HOLE & CASING SECTIONS

- Ref Wellbore: G & D HANKS TA-27-28HN AWP

Ref Wellpath: G & D HANKS TA-27-28HN 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]
13.5in Open Hole	25.00	1563.00	1538.00	25.00	1536.08	0.00	0.00	-29.23	231.22
9.625in Casing Surface	25.00	1563.00	1538.00	25.00	1536.08	0.00	0.00	-29.23	231.22
8.5in Open Hole	1563.00	17958.00	16395.00	1536.08	7130.92	-29.23	231.22	-357.16	-9251.50

Actual Wellpath Report

G & D HANKS TA-27-28HN AWP

Page n of nn



REFERENCE WELLPATH IDENTIFICATION

Operator	BAYSWATER E & P LLC	Slot	SLOT#11 G & D HANKS TA-27-28HN (1198'FSL & 1575'FEL, SEC.27)
Area	COLORADO	Well	G & D HANKS TA-27-28HN
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	G & D HANKS TA-27-28HN AWP
Facility	SEC.27-T07N-R66W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
G & D HANKS TA-27-28HN WP1 (-2195'SS @ 6300'FLP)	7096.00	-319.55	-5196.03	3200511.12	1440789.55	40°32'28.062"N	104°46'42.776"W	point
G & D HANKS TA-27-28HN BHL REV-1 (935'FSL & 5'FWL, SEC.28)	7121.00	-363.68	-9253.18	3196454.61	1440711.56	40°32'27.614"N	104°47'35.326"W	point
G & D HANKS TA-27-28HN LP REV-1 (935'FSL & 470'FEL, SEC.27)	7131.00	-251.00	1106.14	3206812.30	1440910.69	40°32'28.745"N	104°45'21.147"W	point
G & D HANKS TA-27-28HN LP REV-3 (935'FSL & 570'FEL, SEC.27)	7131.00	-251.00	1006.14	3206712.30	1440909.86	40°32'28.745"N	104°45'22.442"W	point
G & D HANKS TA-27-28HN BHL PLAT (935'FSL & 5'FWL, SEC.28)	7151.00	-363.68	-9253.18	3196454.61	1440711.56	40°32'27.614"N	104°47'35.326"W	point
G & D HANKS TA-27-28HN LP PLAT (935'FSL & 560'FEL, SEC.27)	7151.00	-251.00	1016.14	3206722.30	1440909.94	40°32'28.745"N	104°45'22.313"W	point
SEC.27,28-T07N-R66W HDL (460'FEL & 5'FWL)	9999.00	29.87	0.00	3205703.88	1441182.31	40°32'31.520"N	104°45'35.474"W	polygon
SEC.27-T07N-R66W	9999.00	29.87	0.00	3205703.88	1441182.31	40°32'31.520"N	104°45'35.474"W	polygon
SEC.28-T07N-R66W*	9999.00	29.87	0.00	3205703.88	1441182.31	40°32'31.520"N	104°45'35.474"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: G & D HANKS TA-27-28HN AWP Ref Wellpath: G & D HANKS TA-27-28HN AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1508.00	BHI NaviTrak (Standard)	13.5" Surface NaviTrak (Standard) <137-1508>	G & D HANKS TA-27-28HN AWP
1508.00	17933.00	BHI AutoTrak Curve (Short)	8.5" Monobore BHI AutoTrak Curve (Short) <1600-17933>	G & D HANKS TA-27-28HN AWP
17933.00	17958.00	Blind Drilling (std)	Projection to bit	G & D HANKS TA-27-28HN AWP