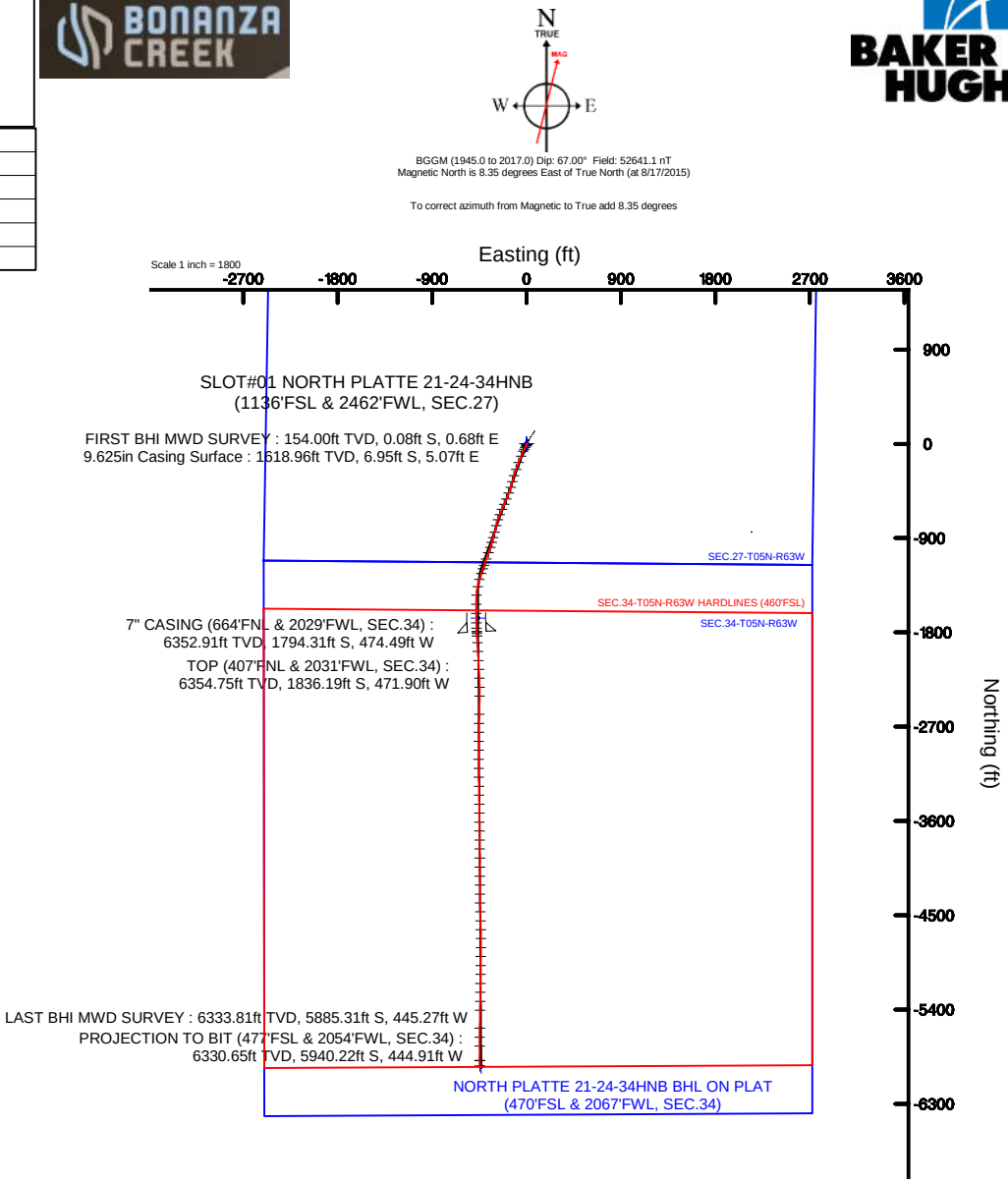
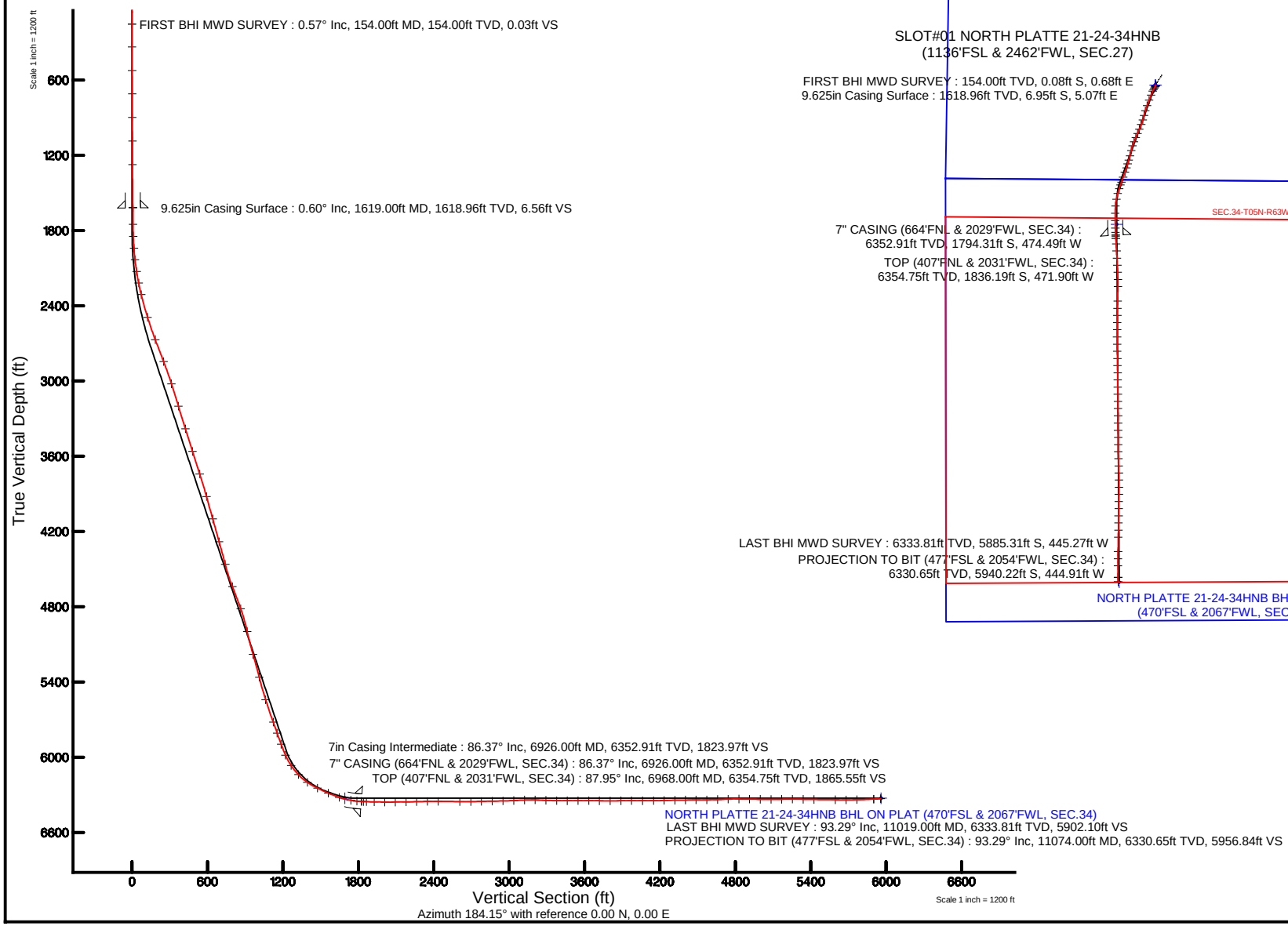
BONANZA CREEK OIL COMPANY

Location:	COLORADO	Slot:	SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)
Field:	WELD COUNTY	Well:	NORTH PLATTE 21-24-34HNB
Facility:	SEC.27-T05N-R63W	Wellbore:	NORTH PLATTE 21-24-34HNB PWB

Plot reference wellpath is NORTH PLATTE 21-24-34HNB PWP (REV-B.0)

True vertical depths are referenced to XTREME 22 (17'KB) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 22 (17'KB) (RKB)	North Reference: True north
XTREME 22 (17'KB) (RKB) to Mean Sea Level: 4558 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjamr on 11/12/2015





Actual Wellpath Report

NORTH PLATTE 21-24-34HNB AWP

REFERENCE WELLPATH IDENTIFICATION			
Operator	**BONANZA CREEK OIL COMPANY**	Slot	**SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)**
Area	**COLORADO**	Well	**NORTH PLATTE 21-24-34HNB**
Field	**WELD COUNTY**	Wellbore	**NORTH PLATTE 21-24-34HNB AWB**
Facility	**SEC.27-T05N-R63W**		

REPORT SETUP INFORMATION			
Projection System	**NAD83 / Lambert Colorado SP, Northern Zone (501), US feet**	Software System	**WellArchitect® 4.1.1**
North Reference	**True**	User	**Ingmjamr**
Scale	**0.999959**	Report Generated	**11/12/2015** at **1:11:20 PM**
Convergence at slot	**0.70° East**	Database/Source file	**WA_DEN_Denver_Defn/NORTH_PLATTE_21-24-34HNB_AWB.xml**

WELLPATH LOCATION						
	Local coordinates		**Grid coordinates**		**Geographic coordinates**	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	-1.32	-0.28	3300252.98	1378121.22	**40°21'58.811"N**	**104°25'20.788"W**
Facility Reference Pt			3300253.24	1378122.53	**40°21'58.824"N**	**104°25'20.784"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 22 (17'KB) (RKB) to Facility Vertical Datum	**4558.00ft**
Horizontal Reference Pt	**Slot**	XTREME 22 (17'KB) (RKB) to Mean Sea Level	**4558.00ft**
Vertical Reference Pt	**XTREME 22 (17'KB) (RKB)**	XTREME 22 (17'KB) (RKB) to Mud Line at Slot (SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27))	**4558.00ft**
MD Reference Pt	**XTREME 22 (17'KB) (RKB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**184.15°**

Actual Wellpath Report

NORTH PLATTE 21-24-34HNB AWP

REFERENCE WELLPATH IDENTIFICATION			
Operator	**BONANZA CREEK OIL COMPANY**	Slot	**SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)**
Area	**COLORADO**	Well	**NORTH PLATTE 21-24-34HNB**
Field	**WELD COUNTY**	Wellbore	**NORTH PLATTE 21-24-34HNB AWB**
Facility	**SEC.27-T05N-R63W**		

WELLPATH DATA (96 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	96.710	0.00	0.00	0.00	0.00	40°21'58.811"N	104°25'20.788"W	0.00	
17.00	0.000	96.710	17.00	0.00	0.00	0.00	40°21'58.811"N	104°25'20.788"W	0.00	
154.00	0.570	96.710	154.00	0.03	-0.08	0.68	40°21'58.810"N	104°25'20.779"W	0.42	FIRST BHI MWD SURVEY
337.00	0.220	116.180	336.99	0.20	-0.34	1.90	40°21'58.808"N	104°25'20.763"W	0.20	
525.00	0.600	101.970	524.99	0.47	-0.70	3.18	40°21'58.804"N	104°25'20.746"W	0.21	
710.00	0.500	124.410	709.98	1.01	-1.36	4.80	40°21'58.798"N	104°25'20.726"W	0.13	
898.00	0.400	152.630	897.97	1.98	-2.41	5.77	40°21'58.787"N	104°25'20.713"W	0.13	
1087.00	0.250	148.370	1086.97	2.88	-3.34	6.29	40°21'58.778"N	104°25'20.706"W	0.08	
1275.00	0.370	204.310	1274.97	3.78	-4.25	6.26	40°21'58.769"N	104°25'20.707"W	0.16	
1616.00	0.610	203.360	1615.96	6.53	-6.92	5.09	40°21'58.743"N	104°25'20.722"W	0.07	
1751.00	0.370	177.100	1750.95	7.64	-8.01	4.82	40°21'58.732"N	104°25'20.725"W	0.24	
1846.00	2.610	212.610	1845.91	9.85	-10.14	3.67	40°21'58.711"N	104°25'20.740"W	2.44	
1941.00	4.910	213.870	1940.70	15.28	-15.34	0.24	40°21'58.659"N	104°25'20.784"W	2.42	
2034.00	7.310	214.580	2033.17	23.84	-23.52	-5.34	40°21'58.579"N	104°25'20.857"W	2.58	
2129.00	9.690	207.910	2127.12	36.37	-35.56	-12.51	40°21'58.460"N	104°25'20.949"W	2.71	
2223.00	12.450	210.620	2219.36	52.69	-51.27	-21.37	40°21'58.304"N	104°25'21.064"W	2.99	
2318.00	14.810	205.990	2311.68	73.13	-71.00	-31.91	40°21'58.109"N	104°25'21.200"W	2.73	
2506.00	17.710	198.990	2492.16	123.09	-119.65	-51.75	40°21'57.629"N	104°25'21.456"W	1.86	
2695.00	21.830	201.770	2669.99	184.40	-179.50	-74.15	40°21'57.037"N	104°25'21.746"W	2.24	
2883.00	21.690	200.520	2844.59	251.05	-244.50	-99.29	40°21'56.395"N	104°25'22.070"W	0.26	
3072.00	18.190	196.230	3022.24	313.43	-305.55	-119.79	40°21'55.792"N	104°25'22.335"W	2.01	
3260.00	16.850	194.560	3201.52	368.92	-360.10	-134.84	40°21'55.253"N	104°25'22.530"W	0.76	
3448.00	18.410	196.760	3380.69	424.70	-414.90	-150.25	40°21'54.711"N	104°25'22.729"W	0.90	
3638.00	17.640	201.630	3561.37	481.44	-470.40	-169.52	40°21'54.163"N	104°25'22.978"W	0.89	
3827.00	19.020	202.660	3740.78	537.96	-525.44	-191.94	40°21'53.619"N	104°25'23.267"W	0.75	
4016.00	16.040	201.000	3920.98	592.17	-578.25	-213.17	40°21'53.097"N	104°25'23.541"W	1.60	
4203.00	16.570	204.210	4100.46	641.95	-626.69	-233.36	40°21'52.618"N	104°25'23.802"W	0.56	
4392.00	16.460	201.710	4281.67	692.79	-676.15	-254.32	40°21'52.130"N	104°25'24.073"W	0.38	
4580.00	14.930	201.630	4462.65	741.29	-723.41	-273.10	40°21'51.662"N	104°25'24.316"W	0.81	
4767.00	21.760	190.180	4640.10	798.83	-780.00	-288.13	40°21'51.103"N	104°25'24.510"W	4.11	
4955.00	19.780	196.750	4815.90	864.54	-844.78	-303.46	40°21'50.463"N	104°25'24.708"W	1.62	
5144.00	12.590	196.020	4997.29	915.98	-895.27	-318.38	40°21'49.964"N	104°25'24.901"W	3.81	
5332.00	16.410	194.930	5179.27	962.13	-940.64	-330.88	40°21'49.516"N	104°25'25.062"W	2.04	
5521.00	14.690	198.860	5361.35	1011.54	-989.11	-345.50	40°21'49.037"N	104°25'25.251"W	1.07	
5709.00	18.180	201.040	5541.64	1062.68	-1039.06	-363.74	40°21'48.543"N	104°25'25.487"W	1.88	
5898.00	20.840	199.190	5719.77	1123.37	-1098.34	-385.38	40°21'47.957"N	104°25'25.766"W	1.44	
5992.00	19.180	196.610	5808.10	1154.60	-1128.93	-395.30	40°21'47.655"N	104°25'25.894"W	2.00	
6087.00	21.040	198.130	5897.30	1186.39	-1160.10	-405.06	40°21'47.347"N	104°25'26.020"W	2.03	
6181.00	23.070	198.580	5984.42	1220.61	-1193.59	-416.18	40°21'47.016"N	104°25'26.164"W	2.17	
6275.00	35.770	199.880	6066.13	1265.07	-1237.06	-431.46	40°21'46.587"N	104°25'26.361"W	13.53	
6369.00	42.960	194.540	6138.78	1323.11	-1294.00	-448.87	40°21'46.024"N	104°25'26.586"W	8.45	
6464.00	56.540	191.380	6200.02	1394.61	-1364.52	-464.89	40°21'45.327"N	104°25'26.793"W	14.52	
6558.00	63.510	184.950	6247.00	1475.74	-1445.03	-476.28	40°21'44.532"N	104°25'26.940"W	9.49	
6653.00	67.160	179.740	6286.66	1561.97	-1531.24	-479.75	40°21'43.680"N	104°25'26.985"W	6.29	
6746.00	70.590	179.830	6320.17	1648.46	-1617.97	-479.43	40°21'42.823"N	104°25'26.981"W	3.69	

Actual Wellpath Report

NORTH PLATTE 21-24-34HNB AWP

REFERENCE WELLPATH IDENTIFICATION			
Operator	**BONANZA CREEK OIL COMPANY**	Slot	**SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)**
Area	**COLORADO**	Well	**NORTH PLATTE 21-24-34HNB**
Field	**WELD COUNTY**	Wellbore	**NORTH PLATTE 21-24-34HNB AWB**
Facility	**SEC.27-T05N-R63W**		

WELLPATH DATA (96 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6841.00	81.180	178.460	6343.31	1740.10	-1709.96	-478.03	40°21'41.914"N	104°25'26.963"W	11.23	
6890.00	83.650	177.470	6349.77	1788.38	-1758.50	-476.31	40°21'41.434"N	104°25'26.941"W	5.42	
6926.00†	86.367	176.715	6352.91	1823.97	-1794.31	-474.49	40°21'41.080"N	104°25'26.917"W	7.83	7" CASING (664'FNL & 2029'FWL, SEC.34)
6943.00	87.650	176.360	6353.79	1840.80	-1811.26	-473.46	40°21'40.913"N	104°25'26.904"W	7.83	
6968.00†	87.947	176.456	6354.75	1865.55	-1836.19	-471.90	40°21'40.666"N	104°25'26.884"W	1.25	TOP (407'FNL & 2031'FWL, SEC.34)
7029.00	88.670	176.690	6356.55	1925.99	-1897.05	-468.25	40°21'40.065"N	104°25'26.836"W	1.25	
7114.00	89.720	176.570	6357.75	2010.25	-1981.90	-463.25	40°21'39.226"N	104°25'26.772"W	1.24	
7200.00	90.770	176.730	6357.38	2095.51	-2067.75	-458.23	40°21'38.378"N	104°25'26.707"W	1.24	
7285.00	90.490	177.760	6356.45	2179.89	-2152.64	-454.14	40°21'37.539"N	104°25'26.654"W	1.26	
7371.00	91.450	177.120	6354.99	2265.28	-2238.54	-450.30	40°21'36.690"N	104°25'26.605"W	1.34	
7457.00	91.050	179.030	6353.11	2350.78	-2324.47	-447.42	40°21'35.841"N	104°25'26.567"W	2.27	
7542.00	89.720	180.700	6352.54	2435.53	-2409.46	-447.22	40°21'35.001"N	104°25'26.565"W	2.51	
7715.00	89.350	181.300	6353.95	2608.26	-2582.43	-450.23	40°21'33.292"N	104°25'26.604"W	0.41	
7802.00	90.370	181.140	6354.16	2695.15	-2669.41	-452.09	40°21'32.433"N	104°25'26.627"W	1.19	
7887.00	91.860	181.760	6352.51	2780.03	-2754.36	-454.24	40°21'31.593"N	104°25'26.655"W	1.90	
7973.00	90.840	180.300	6350.48	2865.88	-2840.32	-455.78	40°21'30.744"N	104°25'26.675"W	2.07	
8058.00	91.390	180.420	6348.83	2950.68	-2925.30	-456.32	40°21'29.904"N	104°25'26.682"W	0.66	
8144.00	93.020	180.260	6345.52	3036.42	-3011.24	-456.83	40°21'29.055"N	104°25'26.689"W	1.90	
8231.00	92.130	178.930	6341.61	3123.05	-3098.14	-456.21	40°21'28.196"N	104°25'26.681"W	1.84	
8316.00	88.640	178.790	6341.04	3207.68	-3183.11	-454.52	40°21'27.356"N	104°25'26.659"W	4.11	
8402.00	87.810	179.470	6343.70	3293.30	-3269.06	-453.22	40°21'26.507"N	104°25'26.642"W	1.25	
8488.00	88.730	179.000	6346.30	3378.95	-3355.01	-452.07	40°21'25.658"N	104°25'26.627"W	1.20	
8573.00	89.850	179.030	6347.35	3463.60	-3439.99	-450.61	40°21'24.818"N	104°25'26.608"W	1.32	
8658.00	91.050	179.890	6346.68	3548.31	-3524.98	-449.81	40°21'23.978"N	104°25'26.598"W	1.74	
8744.00	89.480	179.230	6346.28	3634.03	-3610.98	-449.15	40°21'23.128"N	104°25'26.589"W	1.98	
8829.00	89.040	178.960	6347.38	3718.69	-3695.96	-447.80	40°21'22.289"N	104°25'26.572"W	0.61	
8915.00	89.970	179.650	6348.13	3804.37	-3781.95	-446.76	40°21'21.439"N	104°25'26.558"W	1.35	
9000.00	90.990	178.880	6347.41	3889.06	-3866.93	-445.67	40°21'20.599"N	104°25'26.544"W	1.50	
9086.00	89.380	180.130	6347.14	3974.77	-3952.93	-444.93	40°21'19.749"N	104°25'26.535"W	2.37	
9173.00	90.220	180.080	6347.44	4061.55	-4039.93	-445.09	40°21'18.890"N	104°25'26.537"W	0.97	
9261.00	90.590	179.870	6346.82	4149.32	-4127.92	-445.05	40°21'18.020"N	104°25'26.536"W	0.48	
9346.00	91.820	179.490	6345.03	4234.04	-4212.90	-444.57	40°21'17.180"N	104°25'26.530"W	1.51	
9431.00	90.590	179.280	6343.24	4318.72	-4297.88	-443.66	40°21'16.341"N	104°25'26.518"W	1.47	
9516.00	91.420	179.360	6341.75	4403.41	-4382.86	-442.65	40°21'15.501"N	104°25'26.505"W	0.98	
9601.00	90.190	178.340	6340.56	4488.03	-4467.83	-440.95	40°21'14.661"N	104°25'26.483"W	1.88	
9687.00	90.800	178.370	6339.81	4573.59	-4553.79	-438.48	40°21'13.812"N	104°25'26.451"W	0.71	
9772.00	92.230	178.240	6337.57	4658.11	-4638.72	-435.96	40°21'12.972"N	104°25'26.419"W	1.69	
9857.00	92.340	178.820	6334.18	4742.64	-4723.62	-433.79	40°21'12.133"N	104°25'26.391"W	0.69	
9943.00	88.610	181.410	6333.46	4828.40	-4809.60	-433.96	40°21'11.284"N	104°25'26.393"W	5.28	
10028.00	89.320	181.020	6335.00	4913.27	-4894.56	-435.76	40°21'10.444"N	104°25'26.416"W	0.95	
10113.00	89.810	180.540	6335.65	4998.12	-4979.55	-436.92	40°21'09.604"N	104°25'26.431"W	0.81	
10199.00	89.530	180.360	6336.14	5083.94	-5065.55	-437.59	40°21'08.755"N	104°25'26.440"W	0.39	
10284.00	91.100	181.290	6335.67	5168.79	-5150.54	-438.82	40°21'07.915"N	104°25'26.455"W	2.15	
10370.00	90.150	179.840	6334.74	5254.61	-5236.52	-439.66	40°21'07.065"N	104°25'26.466"W	2.02	
10455.00	88.510	181.870	6335.73	5339.46	-5321.50	-440.93	40°21'06.225"N	104°25'26.483"W	3.07	

Actual Wellpath Report

NORTH PLATTE 21-24-34HNB AWP

REFERENCE WELLPATH IDENTIFICATION

Operator	**BONANZA CREEK OIL COMPANY**	Slot	**SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)**
Area	**COLORADO**	Well	**NORTH PLATTE 21-24-34HNB**
Field	**WELD COUNTY**	Wellbore	**NORTH PLATTE 21-24-34HNB AWB**
Facility	**SEC.27-T05N-R63W**		

WELLPATH DATA (96 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10541.00	89.410	180.950	6337.29	5425.35	-5407.46	-443.05	40°21'05.376"N	104°25'26.510"W	1.50	
10712.00	89.130	180.490	6339.47	5596.02	-5578.43	-445.20	40°21'03.687"N	104°25'26.538"W	0.31	
10797.00	90.090	179.890	6340.05	5680.82	-5663.43	-445.48	40°21'02.847"N	104°25'26.541"W	1.33	
10883.00	91.170	180.160	6339.10	5766.59	-5749.42	-445.52	40°21'01.997"N	104°25'26.542"W	1.29	
11019.00	93.290	179.630	6333.81	5902.10	-5885.31	-445.27	40°21'00.654"N	104°25'26.539"W	1.61	LAST BHI MWD SURVEY
11074.00	93.290	179.630	6330.65	5956.84	-5940.22	-444.91	40°21'00.111"N	104°25'26.534"W	0.00	PROJECTION TO BIT (477'FSL & 2054'FWL, SEC.34)

HOLE & CASING SECTIONS - Ref Wellbore: NORTH PLATTE 21-24-34HNB AWB Ref Wellpath: NORTH PLATTE 21-24-34HNB 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	17.00	1619.00	1602.00	17.00	1618.96	0.00	0.00	-6.95	5.07
9.625in Casing Surface	17.00	1619.00	1602.00	17.00	1618.96	0.00	0.00	-6.95	5.07
8.75in Open Hole	1619.00	6938.00	5319.00	1618.96	6353.57	-6.95	5.07	-1806.27	-473.77
7in Casing Intermediate	17.00	6926.00	6909.00	17.00	6352.91	0.00	0.00	-1794.31	-474.49
6.125in Open Hole	6938.00	11074.00	4136.00	6353.57	6330.65	-1806.27	-473.77	-5940.22	-444.91

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.27-T05N-R63W	0.00	1.32	0.28	3300253.24	1378122.53	40°21'58.824"N	104°25'20.784"W	polygon
SEC.34-T05N-R63W	0.00	1.32	0.28	3300253.24	1378122.53	40°21'58.824"N	104°25'20.784"W	polygon
NORTH PLATTE 21-24-34HNB BHL ON PLAT (470'FSL & 2067'FWL, SEC.34)	6327.00	-5944.21	-431.75	3299893.50	1372172.46	**40°21'00.072"N**	**104°25'26.364"W**	point
NORTH PLATTE 21-24-34HNB EP ON PLAT	6327.00	-1663.58	-462.33	3299810.91	1376452.22	**40°21'42.372"N**	**104°25'26.760"W**	point
SEC.34-T05N-R63W HARDLINES (460'FSL)	6327.00	1.32	0.28	3300253.24	1378122.53	40°21'58.824"N	104°25'20.784"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: NORTH PLATTE 21-24-34HNB AWB Ref Wellpath: NORTH PLATTE 21-24-34HNB AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	6890.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 8.75" HOLE <154-6890>	NORTH PLATTE 21-24-34HNB AWB
6890.00	11019.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 6.125" HOLE <6943-11019>	NORTH PLATTE 21-24-34HNB AWB
11019.00	11074.00	Blind Drilling (std)	Projection to bit	NORTH PLATTE 21-24-34HNB AWB

Actual Wellpath Report

NORTH PLATTE 21-24-34HNB AWP

REFERENCE WELLPATH IDENTIFICATION			
Operator	**BONANZA CREEK OIL COMPANY**	Slot	**SLOT#01 NORTH PLATTE 21-24-34HNB (1136'FSL & 2462'FWL, SEC.27)**
Area	**COLORADO**	Well	**NORTH PLATTE 21-24-34HNB**
Field	**WELD COUNTY**	Wellbore	**NORTH PLATTE 21-24-34HNB AWB**
Facility	**SEC.27-T05N-R63W**		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
154.00	0.570	96.710	154.00	FIRST BHI MWD SURVEY
6926.00	86.367	176.715	6352.91	7" CASING (664'FNL & 2029'FWL, SEC.34)
6968.00	87.947	176.456	6354.75	TOP (407'FNL & 2031'FWL, SEC.34)
11019.00	93.290	179.630	6333.81	LAST BHI MWD SURVEY
11074.00	93.290	179.630	6330.65	PROJECTION TO BIT (477'FSL & 2054'FWL, SEC.34)