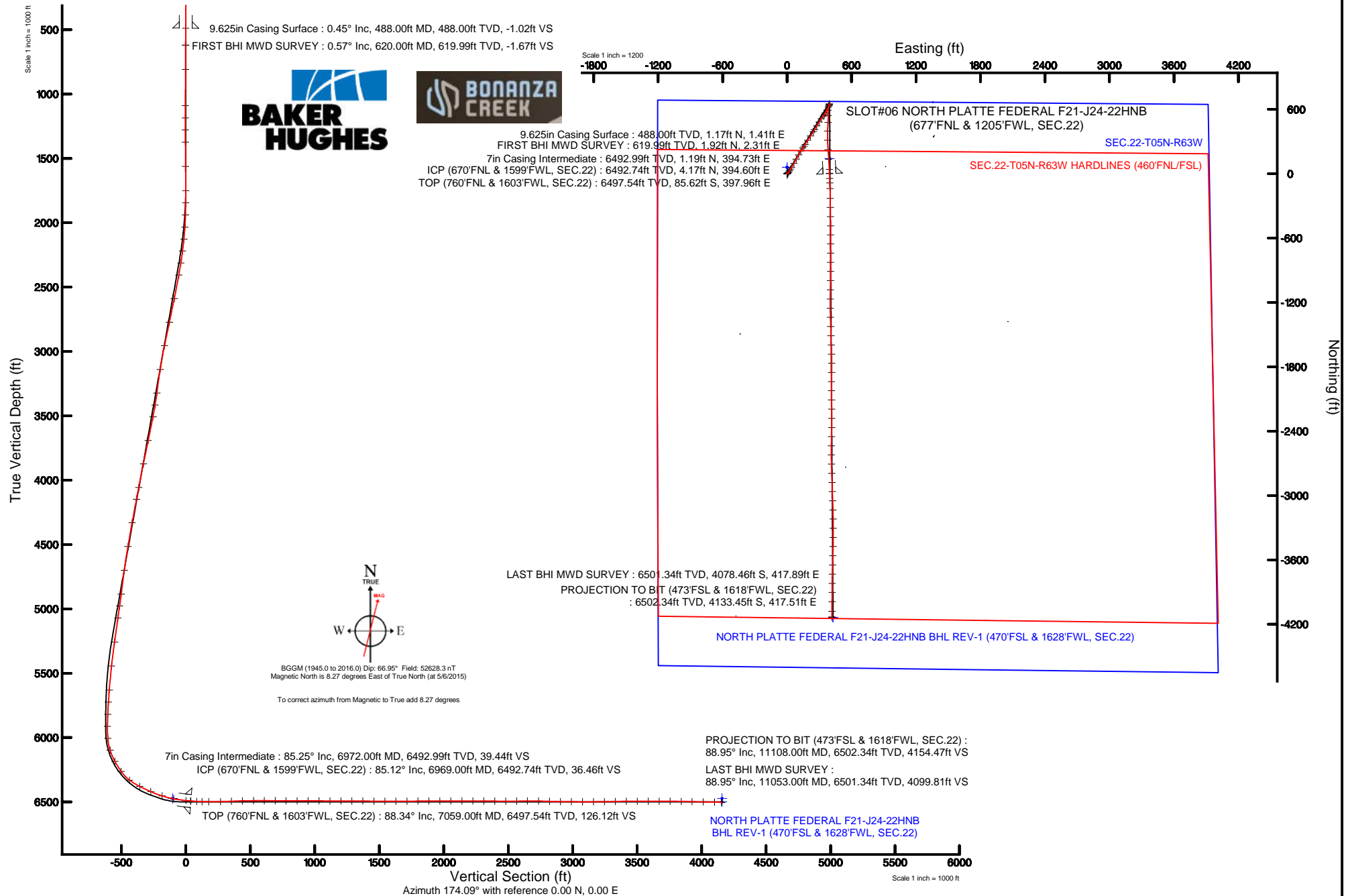


Location:	COLORADO	Slot:	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677FNL & 1205FWL, SEC.22)
Field:	WELD COUNTY	Well:	NORTH PLATTE FEDERAL F21-J24-22HNB
Facility:	SEC.22-T5N-R63W	Wellbore:	NORTH PLATTE FEDERAL F21-J24-22HNB PWB

True vertical depths are referenced to XTREME 22 (17KB) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 22 (17KB) (RKB)	North Reference: True north
XTREME 22 (17KB) (RKB) to Mean Sea Level: 4575 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOTF06 NORTH PLATTE FEDERAL F21-J24-22HNB (877FNL & 1205FWL, SEC.22): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingnjams on 6/16/2015





Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-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	Ingmjmr
Scale	0.99996	Report Generated	6/16/2015 at 1:07:13 PM
Convergence at slot	0.69° East	Database/Source file	Denver/NORTH_PLATTE_FEDERAL_F21-J24-22HNB_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-354.76	-1371.07	3298927.28	1386830.14	40°23'25.026"N	104°25'36.552"W
Facility Reference Pt			3300293.87	1387201.53	40°23'28.532"N	104°25'18.833"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	4675.00ft
Horizontal Reference Pt	Slot	XTREME 22 (17'KB) (RKB) to Mean Sea Level	4675.00ft
Vertical Reference Pt	XTREME 22 (17'KB) (RKB)	XTREME 22 (17'KB) (RKB) to Mud Line at Slot (SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22))	4675.00ft
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	174.09°



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

WELLPATH DATA (101 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	50.320	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	50.320	17.00	0.00	0.00	0.00	0.00	
620.00	0.570	50.320	619.99	-1.67	1.92	2.31	0.09	FIRST BHI MWD SURVEY
808.00	0.650	64.040	807.98	-2.55	2.98	3.99	0.09	
1090.00	0.770	66.050	1089.96	-3.69	4.45	7.16	0.04	
1185.00	1.830	258.330	1184.95	-3.73	4.40	6.25	2.72	
1279.00	1.970	263.120	1278.89	-3.56	3.90	3.18	0.23	
1374.00	0.410	213.830	1373.87	-3.27	3.43	1.37	1.82	
1563.00	0.520	201.190	1562.87	-1.98	2.06	0.68	0.08	
1751.00	0.930	220.350	1750.85	-0.17	0.11	-0.61	0.25	
1845.00	1.410	34.980	1844.84	-0.52	0.47	-0.44	2.49	
1940.00	3.430	53.380	1939.75	-2.85	3.13	2.51	2.25	
2034.00	5.620	48.760	2033.46	-6.95	7.84	8.23	2.36	
2128.00	7.820	32.790	2126.81	-14.60	16.25	15.15	3.05	
2222.00	9.120	30.580	2219.79	-25.58	28.04	22.41	1.43	
2316.00	10.910	29.890	2312.35	-38.79	42.17	30.63	1.91	
2411.00	13.090	33.350	2405.27	-54.41	58.95	41.02	2.42	
2600.00	13.730	27.990	2589.12	-89.61	96.63	63.32	0.74	
2789.00	14.120	28.520	2772.57	-127.24	136.70	84.85	0.22	
2977.00	14.310	29.060	2954.81	-165.19	177.15	107.09	0.12	
3166.00	10.880	29.760	3139.24	-198.84	213.07	127.29	1.82	
3353.00	10.030	39.620	3323.14	-224.59	240.93	146.44	1.06	
3448.00	12.160	32.970	3416.37	-238.17	255.70	157.16	2.61	
3542.00	13.450	29.940	3508.03	-254.74	273.48	168.00	1.55	
3731.00	14.790	32.800	3691.32	-291.39	312.81	192.04	0.80	
3919.00	14.980	33.420	3873.01	-328.91	353.26	218.43	0.13	
4108.00	13.510	31.430	4056.19	-365.36	392.49	243.39	0.82	
4202.00	13.150	30.430	4147.66	-382.70	411.08	254.53	0.45	
4390.00	13.100	31.590	4330.75	-416.83	447.66	276.53	0.14	
4579.00	11.500	30.060	4515.41	-449.07	482.22	297.18	0.86	



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

WELLPATH DATA (101 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4767.00	10.660	36.690	4699.91	-477.04	512.38	316.96	0.81	
4955.00	9.850	39.890	4884.90	-501.06	538.66	337.66	0.53	
5049.00	10.230	29.190	4977.47	-513.49	552.12	346.89	2.02	
5144.00	9.200	28.530	5071.11	-526.66	566.16	354.63	1.09	
5332.00	10.090	29.020	5256.45	-552.56	593.76	369.80	0.48	
5521.00	7.220	26.850	5443.28	-576.12	618.84	383.20	1.53	
5709.00	4.960	15.890	5630.21	-593.61	637.20	390.76	1.35	
5804.00	4.000	12.530	5724.92	-600.56	644.39	392.61	1.05	
5898.00	1.970	9.160	5818.79	-605.24	649.18	393.57	2.17	
5992.00	1.260	353.310	5912.75	-607.83	651.81	393.71	0.89	
6085.00	5.130	198.450	6005.65	-605.06	648.87	392.27	6.77	
6179.00	18.600	195.050	6097.43	-587.15	630.32	387.03	14.34	
6274.00	28.570	182.580	6184.43	-550.42	592.88	382.06	11.68	
6367.00	35.610	177.590	6263.19	-501.33	543.55	382.19	8.08	
6461.00	52.440	183.520	6330.56	-436.77	478.52	381.05	18.42	
6556.00	64.610	181.650	6380.08	-356.78	397.74	377.49	12.92	
6650.00	65.620	178.810	6419.64	-272.01	312.48	377.15	2.94	
6745.00	72.680	175.370	6453.44	-183.42	223.89	381.72	8.16	
6838.00	79.900	176.670	6475.47	-93.18	133.82	387.97	7.88	
6933.00	83.510	177.230	6489.17	0.69	39.96	392.97	3.84	
6969.00†	85.117	177.544	6492.74	36.46	4.17	394.60	4.55	ICP (670'FNL & 1599'FWL, SEC.22)
7017.00	87.260	177.960	6495.93	84.25	-43.68	396.48	4.55	
7059.00†	88.339	178.001	6497.54	126.12	-85.62	397.96	2.57	TOP (760'FNL & 1603'FWL, SEC.22)
7110.00	89.650	178.050	6498.43	176.99	-136.58	399.72	2.57	
7202.00	91.730	179.720	6497.33	268.65	-228.55	401.51	2.90	
7288.00	91.950	179.150	6494.56	354.24	-314.50	402.35	0.71	
7373.00	91.750	178.990	6491.82	438.87	-399.45	403.73	0.30	
7459.00	90.300	179.390	6490.28	524.52	-485.42	404.95	1.75	
7544.00	89.810	180.120	6490.20	609.10	-570.42	405.31	1.03	
7628.00	90.000	179.860	6490.34	692.66	-654.42	405.33	0.38	



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

WELLPATH DATA (101 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7713.00	89.660	180.280	6490.59	777.19	-739.42	405.22	0.64	
7799.00	89.220	180.000	6491.43	862.71	-825.41	405.01	0.61	
7884.00	90.330	179.850	6491.77	947.27	-910.41	405.12	1.32	
7970.00	89.740	180.770	6491.71	1032.76	-996.41	404.66	1.27	
8056.00	88.970	181.090	6492.68	1118.14	-1082.39	403.26	0.97	
8141.00	90.090	181.610	6493.38	1202.46	-1167.36	401.26	1.45	
8227.00	90.210	178.270	6493.15	1288.00	-1253.35	401.35	3.89	
8312.00	89.750	178.340	6493.18	1372.77	-1338.31	403.86	0.55	
8398.00	89.190	178.360	6493.98	1458.53	-1424.27	406.34	0.65	
8484.00	89.930	178.580	6494.64	1544.27	-1510.24	408.64	0.90	
8569.00	89.750	177.970	6494.88	1629.05	-1595.20	411.20	0.75	
8655.00	90.740	178.080	6494.51	1714.84	-1681.15	414.16	1.16	
8740.00	90.840	180.270	6493.34	1799.50	-1766.13	415.38	2.58	
8826.00	90.370	181.020	6492.43	1884.93	-1852.11	414.41	1.03	
8912.00	89.840	179.730	6492.27	1970.41	-1938.11	413.85	1.62	
8997.00	89.380	180.050	6492.85	2054.97	-2023.11	414.02	0.66	
9083.00	90.120	179.610	6493.23	2140.54	-2109.11	414.27	1.00	
9169.00	90.120	179.590	6493.05	2226.14	-2195.10	414.87	0.02	
9254.00	90.030	179.920	6492.93	2310.73	-2280.10	415.23	0.40	
9340.00	89.250	180.700	6493.47	2396.22	-2366.10	414.77	1.28	
9425.00	89.900	180.920	6494.10	2480.63	-2451.09	413.57	0.81	
9510.00	90.560	181.440	6493.76	2564.98	-2536.07	411.82	0.99	
9595.00	90.950	179.290	6492.64	2649.46	-2621.05	411.28	2.57	
9681.00	88.400	178.200	6493.13	2735.17	-2707.02	413.16	3.22	
9766.00	88.520	177.960	6495.42	2819.93	-2791.94	416.01	0.32	
9852.00	89.040	178.060	6497.25	2905.71	-2877.87	418.99	0.62	
9937.00	89.500	178.380	6498.33	2990.48	-2962.82	421.63	0.66	
10023.00	90.030	178.190	6498.68	3076.25	-3048.78	424.21	0.65	
10108.00	90.000	178.260	6498.66	3161.03	-3133.74	426.84	0.09	
10194.00	90.700	179.210	6498.13	3246.75	-3219.72	428.74	1.37	



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

WELLPATH DATA (101 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10279.00	91.690	179.440	6496.36	3331.37	-3304.69	429.74	1.20	
10365.00	90.640	180.370	6494.61	3416.91	-3390.67	429.88	1.63	
10450.00	89.470	181.670	6494.53	3501.29	-3475.66	428.37	2.06	
10536.00	90.150	181.930	6494.82	3586.51	-3561.61	425.67	0.85	
10621.00	90.120	181.680	6494.62	3670.74	-3646.57	422.99	0.30	
10707.00	89.780	181.160	6494.69	3756.04	-3732.54	420.86	0.72	
10793.00	88.670	180.530	6495.86	3841.43	-3818.53	419.59	1.48	
10878.00	88.670	180.480	6497.83	3925.88	-3903.50	418.84	0.06	
10964.00	88.890	180.180	6499.66	4011.35	-3989.48	418.34	0.43	
11053.00	88.950	180.400	6501.34	4099.81	-4078.46	417.89	0.26	LAST BHI MWD SURVEY
11108.00	88.950	180.400	6502.34	4154.47	-4133.45	417.51	0.00	PROJECTION TO BIT (473'FSL & 1618'FWL, SEC.22)

HOLE & CASING SECTIONS -

Ref Wellbore: NORTH PLATTE FEDERAL F21-J24-22HNB AWB Ref Wellpath: NORTH PLATTE FEDERAL F21-J24-22HNB 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	488.00	471.00	17.00	488.00	0.00	0.00	1.17	1.41
8.75in Open Hole	488.00	6980.00	6492.00	488.00	6493.63	1.17	1.41	-6.78	395.06
7in Casing Intermediate	17.00	6972.00	6955.00	17.00	6492.99	0.00	0.00	1.19	394.73
6.125in Open Hole	6980.00	11108.00	4128.00	6493.63	6502.34	-6.78	395.06	-4133.45	417.51



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T05N-R63W	0.00	60.11	0.00	3298926.55	1386890.25	40°23'25.620"N	104°25'36.552"W	polygon
NORTH PLATTE FEDERAL F21-J24-22HNB BHL ON PLAT (470'FSL & 1628'FWL, SEC.22)	6473.00	-4136.75	427.94	3299405.23	1382699.05	40°22'44.148"N	104°25'31.022"W	point
NORTH PLATTE FEDERAL F21-J24-22HNB ENTRY POINT (531'FNL & 1600'FWL, SEC.22)	6473.00	143.18	395.56	3299321.06	1386978.09	40°23'26.441"N	104°25'31.440"W	point
NORTH PLATTE FEDERAL F21-J24-22HNB BHL REV-1 (470'FSL & 1628'FWL, SEC.22)	6499.00	-4136.75	427.97	3299405.26	1382699.05	40°22'44.148"N	104°25'31.022"W	point
SEC.22-T05N-R63W HARDLINES (460'FNL/FSL)	6626.00	60.11	0.00	3298926.55	1386890.25	40°23'25.620"N	104°25'36.552"W	polygon

WELLPATH COMPOSITION -

Ref Wellbore: NORTH PLATTE FEDERAL F21-J24-22HNB AWB Ref Wellpath: NORTH PLATTE FEDERAL F21-J24-22HNB AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	6933.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 8.75" HOLE <620-6933>	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
6933.00	11053.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 6.125" HOLE <7017-11053>	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
11053.00	11108.00	Blind Drilling (std)	Projection to bit	NORTH PLATTE FEDERAL F21-J24-22HNB AWB



Actual Wellpath Report

NORTH PLATTE FEDERAL F21-J24-22HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#06 NORTH PLATTE FEDERAL F21-J24-22HNB (677'FNL & 1205'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL F21-J24-22HNB AWB
Facility	SEC.22-T5N-R63W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
620.00	0.570	50.320	619.99	FIRST BHI MWD SURVEY
6969.00	85.117	177.544	6492.74	ICP (670'FNL & 1599'FWL, SEC.22)
7059.00	88.339	178.001	6497.54	TOP (760'FNL & 1603'FWL, SEC.22)
11053.00	88.950	180.400	6501.34	LAST BHI MWD SURVEY
11108.00	88.950	180.400	6502.34	PROJECTION TO BIT (473'FSL & 1618'FWL, SEC.22)