

Location:	COLORADO	Slot:	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Field:	WELD COUNTY	Well:	NORTH PLATTE F-J-28HNC
Facility:	SEC.21-T05N-R63W	Wellbore:	NORTH PLATTE F-J-28HNC PWB

Plot reference wellpath is NORTH PLATTE F-J-28HNC PWP (REV-C.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (17KB) (RKB)	* = Wellpath was transformed from a different geoidic datum
Measured depths are referenced to RIG (17KB) (RKB)	North Reference: True north
RIG (17KB) (RKB) to Mean Sea Level: 4570 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: SLOTH03 NORTH PLATTE F-J-28HNC (1431FSL & 1424FWL, SEC.21): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingnamr on 2018-01-31
	Database: Denver

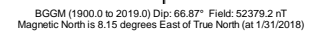
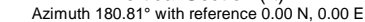
Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC 21-T05N-R63W				3293662.591	1383831.667	40°22'56.021"N	104°26'45.049"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SLOT#03 NORTH PLATTE F-J-28HNC (1431 FSL & 1424 FWL, SEC 21)	-205.49	125.91	3293790.930	1383627.896	40°22'53.990"N	104°26'43.422"W	
RIG (17Kb) (RKB) to Ground level (N Slot: SLOT#03 NORTH PLATTE F-J-28HNC (1431 FSL & 1424 FWL, SEC 21))						4570ft	
Mean Sea Level to Ground level (N Slot: SLOT#03 NORTH PLATTE F-J-28HNC (1431 FSL & 1424 FWL, SEC 21))						0ft	
RIG (17Kb) (RKB) to Mean Sea Level						4570ft	

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	17.00	0.000	184.529	17.00	0.00	0.00	0.00	0.00
End of Tangent	2000.00	0.000	184.529	2000.00	0.00	0.00	0.00	0.00
End of Build (XS)	2692.51	13.850	184.529	2685.78	-83.03	-6.58	2.00	83.12
End of Tangent (XS)	6025.50	13.850	184.529	5921.87	-878.41	-69.58	0.00	879.30
End of 3D Arc (XS)	6787.42	90.000	180.108	6358.00	-1434.79	-78.92	10.00	1435.76
End of Tangent (XS)	11584.82	90.000	180.108	6358.00	-6232.18	-87.94	0.00	6232.80

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
9.625in Casing Surface	17.00	1550.00	1533.00	17.00	1550.00	0.00	0.00	0.00	0.00	NORTH PLATTE F-J-28HNC PWB
8.5in Open Hole	1550.00	11584.82	10034.82	1550.00	N/A	0.00	0.00	N/A	N/A	NORTH PLATTE F-J-28HNC PWB

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
17.00	1550.00	BHI NavTrak	Custom BHI NavTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		NORTH PLATTE F-J-29HNC PWB
1550.00	11584.82	BHI AutoTrak Curve	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		NORTH PLATTE F-J-29HNC PWB

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
11584.82	90.000	180.108	6358.00	-6232.18	-87.94	3293777.11	1377395.18	40°21'52.406"N	104°26'44.558"W



To correct azimuth from Magnetic to True add 8.15 degrees



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 1 of 8



### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

### REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999959	Report Generated	1/31/2018 at 3:29:18 PM
Convergence at slot	0.69° East	Database/Source file	Denver/NORTH_PLATTE_F-J-28HNC_PWP__REV-C.0_.xml

### WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-205.49	125.91	3293790.93	1383627.70	40°22'53.990"N	104°26'43.422"W
Facility Reference Pt			3293662.59	1383831.67	40°22'56.021"N	104°26'45.049"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

### WELLPATH DATUM

Calculation method	Minimum curvature	RIG (17'KB) (RKB) to Facility Vertical Datum	4570.00ft
Horizontal Reference Pt	Slot	RIG (17'KB) (RKB) to Mean Sea Level	4570.00ft
Vertical Reference Pt	RIG (17'KB) (RKB)	RIG (17'KB) (RKB) to Ground Level at Slot (SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21))	4570.00ft
MD Reference Pt	RIG (17'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.81°



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 2 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

WELLPATH DATA (122 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	184.529	0.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
17.00	0.000	184.529	17.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	Tie On
117.00†	0.000	184.529	117.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
217.00†	0.000	184.529	217.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
317.00†	0.000	184.529	317.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
417.00†	0.000	184.529	417.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
517.00†	0.000	184.529	517.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
617.00†	0.000	184.529	617.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
717.00†	0.000	184.529	717.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
817.00†	0.000	184.529	817.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
917.00†	0.000	184.529	917.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1017.00†	0.000	184.529	1017.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1117.00†	0.000	184.529	1117.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1217.00†	0.000	184.529	1217.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1317.00†	0.000	184.529	1317.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1417.00†	0.000	184.529	1417.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1517.00†	0.000	184.529	1517.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1617.00†	0.000	184.529	1617.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1717.00†	0.000	184.529	1717.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1817.00†	0.000	184.529	1817.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
1917.00†	0.000	184.529	1917.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	
2000.00	0.000	184.529	2000.00	0.00	0.00	0.00	40°22'53.990"N	104°26'43.422"W	0.00	End of Tangent
2017.00†	0.340	184.529	2017.00	0.05	-0.05	0.00	40°22'53.990"N	104°26'43.422"W	2.00	
2117.00†	2.340	184.529	2116.97	2.38	-2.38	-0.19	40°22'53.967"N	104°26'43.424"W	2.00	
2217.00†	4.340	184.529	2216.79	8.20	-8.19	-0.65	40°22'53.909"N	104°26'43.430"W	2.00	
2317.00†	6.340	184.529	2316.35	17.48	-17.47	-1.38	40°22'53.818"N	104°26'43.440"W	2.00	
2417.00†	8.340	184.529	2415.53	30.23	-30.20	-2.39	40°22'53.692"N	104°26'43.453"W	2.00	
2517.00†	10.340	184.529	2514.20	46.43	-46.38	-3.67	40°22'53.532"N	104°26'43.469"W	2.00	
2617.00†	12.340	184.529	2612.24	66.05	-65.98	-5.23	40°22'53.338"N	104°26'43.490"W	2.00	
2692.51	13.850	184.529	2685.78	83.12	-83.03	-6.58	40°22'53.170"N	104°26'43.507"W	2.00	End of Build (XS)



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

WELLPATH DATA (122 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2717.00†	13.850	184.529	2709.56	88.97	-88.88	-7.04	40°22'53.112"N	104°26'43.513"W	0.00	
2817.00†	13.850	184.529	2806.66	112.86	-112.74	-8.93	40°22'52.876"N	104°26'43.537"W	0.00	
2917.00†	13.850	184.529	2903.75	136.74	-136.61	-10.82	40°22'52.641"N	104°26'43.562"W	0.00	
3017.00†	13.850	184.529	3000.84	160.63	-160.47	-12.71	40°22'52.405"N	104°26'43.586"W	0.00	
3117.00†	13.850	184.529	3097.93	184.52	-184.33	-14.60	40°22'52.169"N	104°26'43.611"W	0.00	
3217.00†	13.850	184.529	3195.03	208.41	-208.20	-16.49	40°22'51.933"N	104°26'43.635"W	0.00	
3317.00†	13.850	184.529	3292.12	232.30	-232.06	-18.38	40°22'51.697"N	104°26'43.660"W	0.00	
3417.00†	13.850	184.529	3389.21	256.18	-255.92	-20.27	40°22'51.461"N	104°26'43.684"W	0.00	
3517.00†	13.850	184.529	3486.30	280.07	-279.79	-22.16	40°22'51.226"N	104°26'43.708"W	0.00	
3617.00†	13.850	184.529	3583.40	303.96	-303.65	-24.05	40°22'50.990"N	104°26'43.733"W	0.00	
3717.00†	13.850	184.529	3680.49	327.85	-327.51	-25.94	40°22'50.754"N	104°26'43.757"W	0.00	
3817.00†	13.850	184.529	3777.58	351.74	-351.38	-27.83	40°22'50.518"N	104°26'43.782"W	0.00	
3917.00†	13.850	184.529	3874.67	375.62	-375.24	-29.72	40°22'50.282"N	104°26'43.806"W	0.00	
4017.00†	13.850	184.529	3971.77	399.51	-399.10	-31.61	40°22'50.047"N	104°26'43.831"W	0.00	
4117.00†	13.850	184.529	4068.86	423.40	-422.97	-33.51	40°22'49.811"N	104°26'43.855"W	0.00	
4217.00†	13.850	184.529	4165.95	447.29	-446.83	-35.40	40°22'49.575"N	104°26'43.879"W	0.00	
4317.00†	13.850	184.529	4263.04	471.17	-470.70	-37.29	40°22'49.339"N	104°26'43.904"W	0.00	
4417.00†	13.850	184.529	4360.14	495.06	-494.56	-39.18	40°22'49.103"N	104°26'43.928"W	0.00	
4517.00†	13.850	184.529	4457.23	518.95	-518.42	-41.07	40°22'48.868"N	104°26'43.953"W	0.00	
4617.00†	13.850	184.529	4554.32	542.84	-542.29	-42.96	40°22'48.632"N	104°26'43.977"W	0.00	
4717.00†	13.850	184.529	4651.41	566.73	-566.15	-44.85	40°22'48.396"N	104°26'44.001"W	0.00	
4817.00†	13.850	184.529	4748.51	590.61	-590.01	-46.74	40°22'48.160"N	104°26'44.026"W	0.00	
4917.00†	13.850	184.529	4845.60	614.50	-613.88	-48.63	40°22'47.924"N	104°26'44.050"W	0.00	
5017.00†	13.850	184.529	4942.69	638.39	-637.74	-50.52	40°22'47.688"N	104°26'44.075"W	0.00	
5117.00†	13.850	184.529	5039.78	662.28	-661.60	-52.41	40°22'47.453"N	104°26'44.099"W	0.00	
5217.00†	13.850	184.529	5136.88	686.17	-685.47	-54.30	40°22'47.217"N	104°26'44.124"W	0.00	
5317.00†	13.850	184.529	5233.97	710.05	-709.33	-56.19	40°22'46.981"N	104°26'44.148"W	0.00	
5417.00†	13.850	184.529	5331.06	733.94	-733.20	-58.08	40°22'46.745"N	104°26'44.172"W	0.00	
5517.00†	13.850	184.529	5428.15	757.83	-757.06	-59.97	40°22'46.509"N	104°26'44.197"W	0.00	
5617.00†	13.850	184.529	5525.25	781.72	-780.92	-61.86	40°22'46.274"N	104°26'44.221"W	0.00	



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 4 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

WELLPATH DATA (122 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5717.00†	13.850	184.529	5622.34	805.61	-804.79	-63.75	40°22'46.038"N	104°26'44.246"W	0.00	
5817.00†	13.850	184.529	5719.43	829.49	-828.65	-65.64	40°22'45.802"N	104°26'44.270"W	0.00	
5917.00†	13.850	184.529	5816.52	853.38	-852.51	-67.53	40°22'45.566"N	104°26'44.295"W	0.00	
6017.00†	13.850	184.529	5913.62	877.27	-876.38	-69.42	40°22'45.330"N	104°26'44.319"W	0.00	
6025.50	13.850	184.529	5921.87	879.30	-878.41	-69.58	40°22'45.310"N	104°26'44.321"W	0.00	End of Tangent (XS)
6117.00†	22.982	182.676	6008.59	908.14	-907.23	-71.29	40°22'45.025"N	104°26'44.343"W	10.00	
6217.00†	32.974	181.787	6096.79	954.98	-954.05	-73.05	40°22'44.563"N	104°26'44.366"W	10.00	
6317.00†	42.969	181.277	6175.52	1016.43	-1015.48	-74.66	40°22'43.956"N	104°26'44.387"W	10.00	
6417.00†	52.966	180.929	6242.40	1090.61	-1089.64	-76.07	40°22'43.223"N	104°26'44.405"W	10.00	
6517.00†	62.963	180.664	6295.37	1175.27	-1174.30	-77.24	40°22'42.386"N	104°26'44.420"W	10.00	
6617.00†	72.961	180.442	6332.85	1267.85	-1266.87	-78.12	40°22'41.472"N	104°26'44.431"W	10.00	
6717.00†	82.959	180.242	6353.68	1365.52	-1364.55	-78.70	40°22'40.506"N	104°26'44.439"W	10.00	
6787.42	90.000	180.108	6358.00†	1435.76	-1434.79	-78.92	40°22'39.812"N	104°26'44.442"W	10.00	End of 3D Arc (XS)
6817.00†	90.000	180.108	6358.00	1465.34	-1464.37	-78.97	40°22'39.520"N	104°26'44.442"W	0.00	
6917.00†	90.000	180.108	6358.00	1565.33	-1564.37	-79.16	40°22'38.532"N	104°26'44.445"W	0.00	
7017.00†	90.000	180.108	6358.00	1665.32	-1664.37	-79.35	40°22'37.544"N	104°26'44.447"W	0.00	
7117.00†	90.000	180.108	6358.00	1765.32	-1764.37	-79.54	40°22'36.555"N	104°26'44.450"W	0.00	
7217.00†	90.000	180.108	6358.00	1865.31	-1864.37	-79.73	40°22'35.567"N	104°26'44.452"W	0.00	
7317.00†	90.000	180.108	6358.00	1965.30	-1964.37	-79.91	40°22'34.579"N	104°26'44.455"W	0.00	
7417.00†	90.000	180.108	6358.00	2065.29	-2064.37	-80.10	40°22'33.591"N	104°26'44.457"W	0.00	
7517.00†	90.000	180.108	6358.00	2165.29	-2164.37	-80.29	40°22'32.603"N	104°26'44.459"W	0.00	
7617.00†	90.000	180.108	6358.00	2265.28	-2264.37	-80.48	40°22'31.615"N	104°26'44.462"W	0.00	
7717.00†	90.000	180.108	6358.00	2365.27	-2364.37	-80.67	40°22'30.626"N	104°26'44.464"W	0.00	
7817.00†	90.000	180.108	6358.00	2465.26	-2464.37	-80.86	40°22'29.638"N	104°26'44.467"W	0.00	
7917.00†	90.000	180.108	6358.00	2565.26	-2564.37	-81.04	40°22'28.650"N	104°26'44.469"W	0.00	
8017.00†	90.000	180.108	6358.00	2665.25	-2664.37	-81.23	40°22'27.662"N	104°26'44.472"W	0.00	
8117.00†	90.000	180.108	6358.00	2765.24	-2764.37	-81.42	40°22'26.674"N	104°26'44.474"W	0.00	
8217.00†	90.000	180.108	6358.00	2865.23	-2864.37	-81.61	40°22'25.686"N	104°26'44.476"W	0.00	
8317.00†	90.000	180.108	6358.00	2965.23	-2964.37	-81.80	40°22'24.697"N	104°26'44.479"W	0.00	
8417.00†	90.000	180.108	6358.00	3065.22	-3064.37	-81.98	40°22'23.709"N	104°26'44.481"W	0.00	



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

WELLPATH DATA (122 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8517.00†	90.000	180.108	6358.00	3165.21	-3164.37	-82.17	40°22'22.721"N	104°26'44.484"W	0.00	
8617.00†	90.000	180.108	6358.00	3265.20	-3264.37	-82.36	40°22'21.733"N	104°26'44.486"W	0.00	
8717.00†	90.000	180.108	6358.00	3365.20	-3364.37	-82.55	40°22'20.745"N	104°26'44.489"W	0.00	
8817.00†	90.000	180.108	6358.00	3465.19	-3464.37	-82.74	40°22'19.757"N	104°26'44.491"W	0.00	
8917.00†	90.000	180.108	6358.00	3565.18	-3564.37	-82.92	40°22'18.768"N	104°26'44.493"W	0.00	
9017.00†	90.000	180.108	6358.00	3665.17	-3664.37	-83.11	40°22'17.780"N	104°26'44.496"W	0.00	
9117.00†	90.000	180.108	6358.00	3765.17	-3764.37	-83.30	40°22'16.792"N	104°26'44.498"W	0.00	
9217.00†	90.000	180.108	6358.00	3865.16	-3864.36	-83.49	40°22'15.804"N	104°26'44.501"W	0.00	
9317.00†	90.000	180.108	6358.00	3965.15	-3964.36	-83.68	40°22'14.816"N	104°26'44.503"W	0.00	
9417.00†	90.000	180.108	6358.00	4065.14	-4064.36	-83.86	40°22'13.828"N	104°26'44.506"W	0.00	
9517.00†	90.000	180.108	6358.00	4165.14	-4164.36	-84.05	40°22'12.839"N	104°26'44.508"W	0.00	
9617.00†	90.000	180.108	6358.00	4265.13	-4264.36	-84.24	40°22'11.851"N	104°26'44.510"W	0.00	
9717.00†	90.000	180.108	6358.00	4365.12	-4364.36	-84.43	40°22'10.863"N	104°26'44.513"W	0.00	
9817.00†	90.000	180.108	6358.00	4465.11	-4464.36	-84.62	40°22'09.875"N	104°26'44.515"W	0.00	
9917.00†	90.000	180.108	6358.00	4565.11	-4564.36	-84.81	40°22'08.887"N	104°26'44.518"W	0.00	
10017.00†	90.000	180.108	6358.00	4665.10	-4664.36	-84.99	40°22'07.899"N	104°26'44.520"W	0.00	
10117.00†	90.000	180.108	6358.00	4765.09	-4764.36	-85.18	40°22'06.910"N	104°26'44.522"W	0.00	
10217.00†	90.000	180.108	6358.00	4865.08	-4864.36	-85.37	40°22'05.922"N	104°26'44.525"W	0.00	
10317.00†	90.000	180.108	6358.00	4965.08	-4964.36	-85.56	40°22'04.934"N	104°26'44.527"W	0.00	
10417.00†	90.000	180.108	6358.00	5065.07	-5064.36	-85.75	40°22'03.946"N	104°26'44.530"W	0.00	
10517.00†	90.000	180.108	6358.00	5165.06	-5164.36	-85.93	40°22'02.958"N	104°26'44.532"W	0.00	
10617.00†	90.000	180.108	6358.00	5265.05	-5264.36	-86.12	40°22'01.970"N	104°26'44.535"W	0.00	
10717.00†	90.000	180.108	6358.00	5365.05	-5364.36	-86.31	40°22'00.981"N	104°26'44.537"W	0.00	
10817.00†	90.000	180.108	6358.00	5465.04	-5464.36	-86.50	40°21'59.993"N	104°26'44.539"W	0.00	
10917.00†	90.000	180.108	6358.00	5565.03	-5564.36	-86.69	40°21'59.005"N	104°26'44.542"W	0.00	
11017.00†	90.000	180.108	6358.00	5665.02	-5664.36	-86.87	40°21'58.017"N	104°26'44.544"W	0.00	
11117.00†	90.000	180.108	6358.00	5765.02	-5764.36	-87.06	40°21'57.029"N	104°26'44.547"W	0.00	
11217.00†	90.000	180.108	6358.00	5865.01	-5864.36	-87.25	40°21'56.041"N	104°26'44.549"W	0.00	
11317.00†	90.000	180.108	6358.00	5965.00	-5964.36	-87.44	40°21'55.052"N	104°26'44.552"W	0.00	
11417.00†	90.000	180.108	6358.00	6064.99	-6064.36	-87.63	40°21'54.064"N	104°26'44.554"W	0.00	





# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 6 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

WELLPATH DATA (122 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11517.00†	90.000	180.108	6358.00	6164.99	-6164.36	-87.81	40°21'53.076"N	104°26'44.556"W	0.00	
11584.82	90.000	180.108	6358.00 <sup>2</sup>	6232.80	-6232.18	-87.94	40°21'52.406"N	104°26'44.558"W	0.00	End of Tangent (XS)

HOLE & CASING SECTIONS - Ref Wellbore: NORTH PLATTE F-J-28HNC PWB      Ref Wellpath: NORTH PLATTE F-J-28HNC PWP (REV-C.0)									
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	1550.00	1533.00	17.00	1550.00	0.00	0.00	0.00	0.00
8.5in Open Hole	1550.00	11584.82	10034.82	1550.00	N/A	0.00	0.00	N/A	N/A

TARGETS										
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
SEC.21-T05N-R63W		-8.00	205.49	-125.91	3293662.59	1383831.67	40°22'56.021"N	104°26'45.049"W	polygon	
SEC.28-T05N-R63W		-8.00	-1714.17	3547.88	3297358.79	1381955.91	40°22'37.049"N	104°25'57.580"W	polygon	
2) NORTH PLATTE F-J-28HNC BHL (470'FSL & 1323'FWL, SEC.28)	11584.82	6358.00	-6232.18	-87.94	3293777.11	1377395.18	40°21'52.406"N	104°26'44.558"W	point	
NORTH PLATTE F-J-28HNC LP (470'FNL & 1327'FWL, SEC.28)		6358.00	-1894.79	-78.92	3293734.55	1381732.18	40°22'35.267"N	104°26'44.442"W	point	
1) NORTH PLATTE F-J-28HNC LP REV-1 (10'FNL & 1327'FWL, SEC.28)	6787.42	6358.00	-1434.79	-78.92	3293729.08	1382192.13	40°22'39.812"N	104°26'44.442"W	point	
SEC.28-T05N-R63W 460'SETBACKS		6425.00	-1714.17	3547.88	3297358.79	1381955.91	40°22'37.049"N	104°25'57.580"W	polygon	



# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

SURVEY PROGRAM - Ref Wellbore: NORTH PLATTE F-J-28HNC PWB    Ref Wellpath: NORTH PLATTE F-J-28HNC PWP (REV-C.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1550.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		NORTH PLATTE F-J-28HNC PWB
1550.00	11584.82	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		NORTH PLATTE F-J-28HNC PWB





# Planned Wellpath Report

## NORTH PLATTE F-J-28HNC PWP (REV-C.0)

Page 8 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE F-J-28HNC (1431'FSL & 1424'FWL, SEC.21)
Area	COLORADO	Well	NORTH PLATTE F-J-28HNC
Field	WELD COUNTY	Wellbore	NORTH PLATTE F-J-28HNC PWB
Facility	SEC.21-T05N-R63W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	184.529	17.00	Tie On
2000.00	0.000	184.529	2000.00	End of Tangent
2692.51	13.850	184.529	2685.78	End of Build (XS)
6025.50	13.850	184.529	5921.87	End of Tangent (XS)
6787.42	90.000	180.108	6358.00	End of 3D Arc (XS)
11584.82	90.000	180.108	6358.00	End of Tangent (XS)