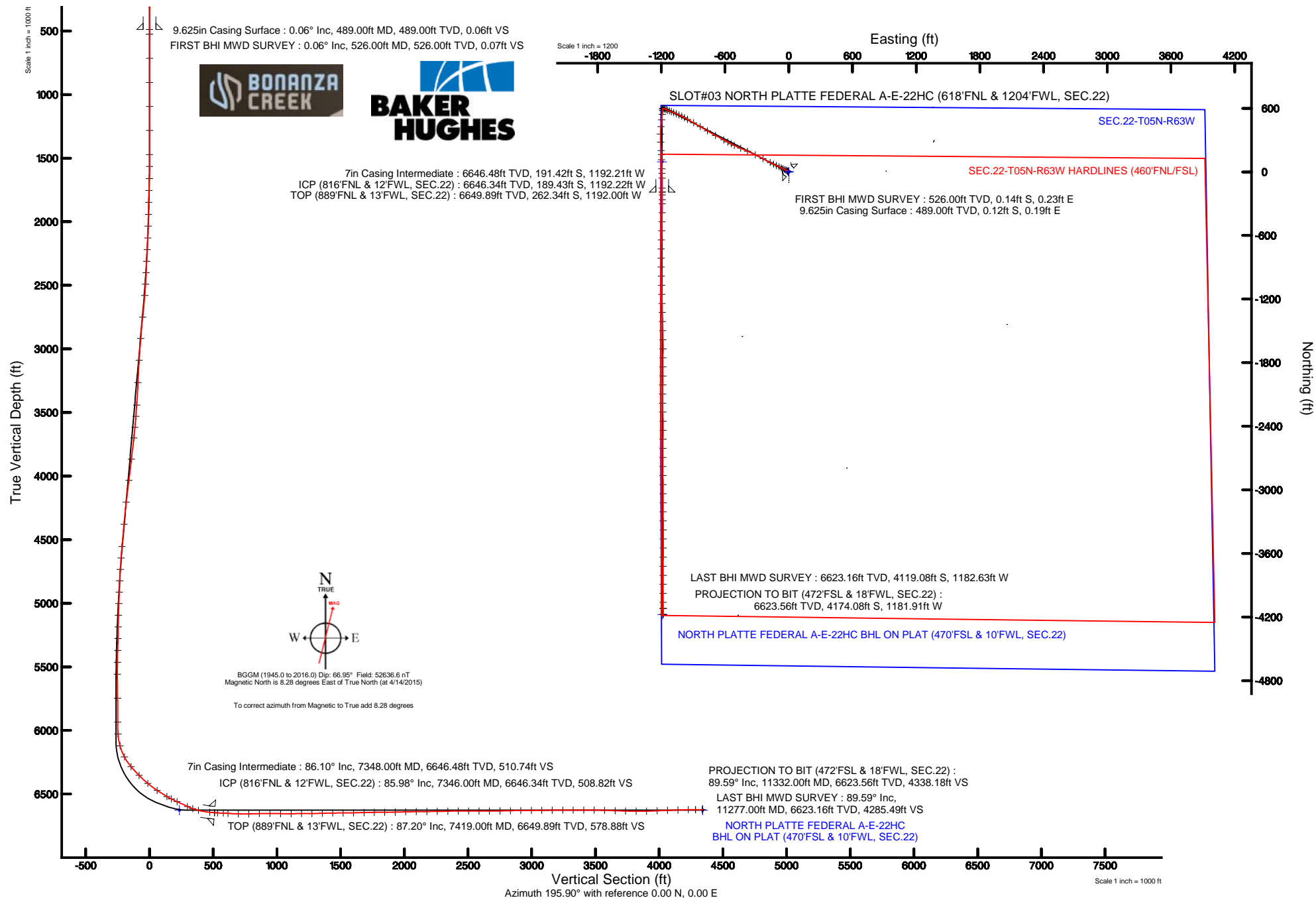


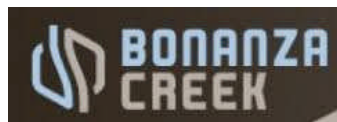
# BONANZA CREEK OIL COMPANY

Location: COLORADO Slot: SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)  
Field: WELD COUNTY Well: NORTH PLATTE FEDERAL A-E-22HC  
Facility: SEC.22-T5N-R63W Wellbore: NORTH PLATTE FEDERAL A-E-22HC PWB

Plot reference wellpath is NORTH PLATTE FEDERAL A-E-22HC PWP (REV-A.0)

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: 4675 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingnjamm on 6/17/2015





# Actual Wellpath Report

## NORTH PLATTE FEDERAL A-E-22HC AWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC 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	6/17/2015 at 7:17:27 AM
Convergence at slot	0.69° East	Database/Source file	Denver/NORTH_PLATTE_FEDERAL_A-E-22HC_AWB.xml

### WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-295.01	-1371.62	3298926.00	1386889.88	40°23'25.616"N	104°25'36.559"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#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'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	195.90°



# Actual Wellpath Report

NORTH PLATTE FEDERAL A-E-22HC AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWB
Facility	SEC.22-T5N-R63W		

## WELLPATH DATA (110 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	121.870	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	121.870	17.00	0.00	0.00	0.00	0.00	
526.00	0.060	121.870	526.00	0.07	-0.14	0.23	0.01	FIRST BHI MWD SURVEY
715.00	0.180	250.470	715.00	0.27	-0.29	0.03	0.12	
905.00	0.170	235.160	905.00	0.66	-0.55	-0.48	0.03	
1093.00	0.040	260.620	1093.00	0.91	-0.72	-0.78	0.07	
1282.00	0.280	289.950	1282.00	0.90	-0.58	-1.27	0.13	
1472.00	0.340	297.460	1471.99	0.76	-0.16	-2.21	0.04	
1566.00	1.410	289.550	1565.98	0.63	0.36	-3.55	1.14	
1660.00	2.960	313.660	1659.91	-0.58	2.42	-6.39	1.88	
1754.00	4.370	322.120	1753.72	-3.82	6.92	-10.35	1.60	
1848.00	5.640	296.830	1847.37	-6.81	11.84	-16.67	2.68	
1943.00	7.280	293.600	1941.76	-8.51	16.35	-26.35	1.77	
2037.00	8.950	294.310	2034.82	-10.37	21.75	-38.48	1.78	
2131.00	11.490	296.960	2127.32	-13.24	29.00	-53.49	2.75	
2225.00	13.340	299.560	2219.12	-17.60	38.60	-71.27	2.06	
2319.00	15.490	295.410	2310.16	-22.23	49.34	-92.04	2.54	
2414.00	17.360	292.930	2401.28	-26.06	60.30	-116.55	2.10	
2508.00	19.980	296.130	2490.33	-30.63	72.84	-143.89	2.99	
2603.00	22.760	297.840	2578.79	-37.32	88.57	-174.72	3.00	
2790.00	25.890	297.670	2749.16	-53.13	124.43	-242.88	1.67	
2978.00	25.520	295.950	2918.56	-68.57	161.22	-315.65	0.44	
3167.00	24.410	294.110	3089.90	-81.25	194.99	-387.90	0.72	
3355.00	19.980	292.180	3263.93	-90.31	223.00	-453.14	2.39	
3544.00	20.190	297.520	3441.45	-100.42	250.26	-511.97	0.98	
3638.00	21.400	295.680	3529.33	-106.60	265.19	-541.81	1.46	
3733.00	25.500	298.410	3616.47	-113.97	282.43	-575.43	4.46	
3827.00	27.270	298.310	3700.67	-122.98	302.27	-612.19	1.88	
4015.00	28.950	297.840	3866.49	-141.65	343.95	-690.35	0.90	
4204.00	26.160	300.640	4034.04	-161.72	386.56	-766.66	1.63	



# Actual Wellpath Report

## NORTH PLATTE FEDERAL A-E-22HC AWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWP
Facility	SEC.22-T5N-R63W		

### WELLPATH DATA (110 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4392.00	22.980	301.370	4205.00	-182.06	426.79	-833.67	1.70	
4580.00	22.560	298.990	4378.35	-200.01	463.37	-896.55	0.54	
4768.00	18.660	300.390	4554.28	-215.71	496.08	-954.06	2.09	
4862.00	19.420	297.690	4643.14	-222.67	510.95	-980.87	1.24	
4957.00	17.130	297.340	4733.34	-228.67	524.72	-1007.29	2.41	
5051.00	18.130	293.370	4822.93	-233.31	536.88	-1033.01	1.66	
5145.00	17.310	293.060	4912.47	-236.96	548.16	-1059.30	0.88	
5239.00	15.800	293.620	5002.57	-240.42	558.76	-1083.90	1.62	
5333.00	13.530	292.180	5093.50	-243.34	568.04	-1105.81	2.45	
5427.00	11.150	291.240	5185.32	-245.39	575.49	-1124.46	2.54	
5521.00	10.300	293.360	5277.68	-247.33	582.11	-1140.65	1.00	
5615.00	7.910	297.850	5370.49	-249.76	588.47	-1154.09	2.65	
5709.00	5.190	291.790	5463.87	-251.53	593.07	-1163.75	2.98	
5803.00	4.450	285.370	5557.54	-251.94	595.61	-1171.22	0.97	
5991.00	2.170	261.070	5745.22	-250.37	596.99	-1181.77	1.40	
6180.00	1.350	311.030	5934.14	-249.82	597.90	-1186.98	0.88	
6274.00	4.000	191.220	6028.07	-247.02	595.41	-1188.46	5.12	
6368.00	15.920	179.090	6120.49	-231.35	579.24	-1188.89	12.81	
6462.00	28.580	185.420	6207.33	-196.76	543.82	-1190.82	13.69	
6556.00	40.770	186.290	6284.49	-144.19	490.73	-1196.33	12.98	
6650.00	45.020	187.290	6353.34	-81.03	427.21	-1203.91	4.58	
6744.00	50.870	180.510	6416.31	-12.90	357.67	-1208.46	8.20	
6838.00	58.370	176.700	6470.71	60.17	281.14	-1206.48	8.63	
6932.00	59.920	176.790	6518.92	136.39	200.57	-1201.90	1.65	
6974.00	65.500	177.240	6538.17	171.69	163.31	-1199.96	13.32	
7026.00	66.080	177.580	6559.50	216.67	115.94	-1197.82	1.26	
7120.00	66.150	177.940	6597.56	298.35	30.05	-1194.46	0.36	
7166.00	71.230	178.500	6614.27	339.17	-12.77	-1193.13	11.10	
7215.00	77.390	179.860	6627.51	384.33	-59.91	-1192.46	12.85	
7309.00	83.640	179.920	6643.00	473.40	-152.58	-1192.29	6.65	



# Actual Wellpath Report

## NORTH PLATTE FEDERAL A-E-22HC AWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWB
Facility	SEC.22-T5N-R63W		

### WELLPATH DATA (110 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7346.00†	85.976	179.868	6646.34	508.82	-189.43	-1192.22	6.31	ICP (816'FNL & 12'FWL, SEC.22)
7373.00	87.680	179.830	6647.84	534.72	-216.39	-1192.15	6.31	
7419.00†	87.198	179.792	6649.89	578.88	-262.34	-1192.00	1.05	TOP (889'FNL & 13'FWL, SEC.22)
7458.00	86.790	179.760	6651.94	616.29	-301.29	-1191.84	1.05	
7542.00	88.830	181.080	6655.15	697.18	-385.22	-1192.46	2.89	
7627.00	90.950	180.570	6655.31	779.25	-470.20	-1193.68	2.57	
7713.00	91.880	182.690	6653.19	862.56	-556.13	-1196.13	2.69	
7798.00	89.470	182.120	6652.19	945.20	-641.05	-1199.69	2.91	
7884.00	88.670	180.190	6653.58	1028.36	-727.01	-1201.43	2.43	
7970.00	90.640	180.480	6654.10	1111.20	-813.01	-1201.93	2.32	
8055.00	90.640	178.480	6653.15	1192.72	-897.99	-1201.16	2.35	
8141.00	90.000	178.960	6652.67	1274.88	-983.97	-1199.24	0.93	
8226.00	92.290	178.740	6650.97	1356.12	-1068.93	-1197.53	2.71	
8312.00	90.520	178.480	6648.86	1438.21	-1154.87	-1195.45	2.08	
8398.00	90.090	178.320	6648.41	1520.23	-1240.84	-1193.05	0.53	
8483.00	91.470	179.240	6647.25	1601.45	-1325.81	-1191.24	1.95	
8569.00	91.260	178.780	6645.20	1683.72	-1411.77	-1189.75	0.59	
8654.00	90.950	177.940	6643.56	1764.75	-1496.72	-1187.32	1.05	
8740.00	89.930	178.780	6642.90	1846.74	-1582.68	-1184.86	1.54	
8826.00	91.410	180.440	6641.89	1929.28	-1668.67	-1184.27	2.59	
8911.00	91.410	180.380	6639.80	2011.17	-1753.64	-1184.88	0.07	
8997.00	90.640	180.050	6638.26	2093.95	-1839.62	-1185.20	0.97	
9083.00	90.830	180.230	6637.16	2176.71	-1925.62	-1185.41	0.30	
9168.00	90.550	181.220	6636.14	2258.74	-2010.60	-1186.49	1.21	
9254.00	91.530	180.660	6634.58	2341.81	-2096.58	-1187.90	1.31	
9339.00	90.770	179.900	6632.87	2423.65	-2181.56	-1188.31	1.26	
9424.00	89.350	177.890	6632.78	2504.93	-2266.53	-1186.67	2.90	
9509.00	90.000	178.770	6633.26	2585.96	-2351.50	-1184.20	1.29	
9595.00	90.400	180.760	6632.96	2668.57	-2437.49	-1183.84	2.36	
9680.00	90.890	180.420	6632.01	2750.55	-2522.48	-1184.72	0.70	



# Actual Wellpath Report

## NORTH PLATTE FEDERAL A-E-22HC AWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWB
Facility	SEC.22-T5N-R63W		

### WELLPATH DATA (110 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
9766.00	90.920	180.020	6630.65	2833.33	-2608.47	-1185.05	0.47	
9851.00	90.640	180.200	6629.49	2915.12	-2693.46	-1185.21	0.39	
9937.00	90.460	179.690	6628.67	2997.80	-2779.46	-1185.13	0.63	
10022.00	90.700	179.660	6627.81	3079.41	-2864.45	-1184.65	0.28	
10107.00	90.640	179.680	6626.81	3161.02	-2949.44	-1184.16	0.07	
10193.00	89.870	179.250	6626.43	3243.50	-3035.44	-1183.36	1.03	
10279.00	90.400	179.960	6626.23	3326.05	-3121.43	-1182.76	1.03	
10364.00	90.430	180.320	6625.61	3407.85	-3206.43	-1182.97	0.42	
10450.00	89.500	178.960	6625.66	3490.40	-3292.43	-1182.43	1.92	
10535.00	87.820	179.290	6627.65	3571.76	-3377.39	-1181.13	2.01	
10621.00	88.140	180.520	6630.68	3654.38	-3463.34	-1180.99	1.48	
10707.00	88.640	180.250	6633.10	3737.21	-3549.30	-1181.57	0.66	
10792.00	89.250	180.860	6634.66	3819.17	-3634.28	-1182.39	1.01	
10878.00	91.380	179.750	6634.19	3901.99	-3720.27	-1182.85	2.79	
10964.00	92.160	180.050	6631.53	3984.62	-3806.23	-1182.70	0.97	
11049.00	92.490	180.060	6628.09	4066.32	-3891.16	-1182.78	0.39	
11134.00	91.540	180.150	6625.10	4148.06	-3976.11	-1182.94	1.12	
11219.00	90.800	179.970	6623.36	4229.82	-4061.09	-1183.03	0.90	
11277.00	89.590	179.250	6623.16	4285.49	-4119.08	-1182.63	2.43	LAST BHI MWD SURVEY
11332.00	89.590	179.250	6623.56	4338.18	-4174.08	-1181.91	0.00	PROJECTION TO BIT (472'FSL & 18'FWL, SEC.22)



# Actual Wellpath Report

NORTH PLATTE FEDERAL A-E-22HC AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWB
Facility	SEC.22-T5N-R63W		

## HOLE & CASING SECTIONS -

Ref Wellbore: NORTH PLATTE FEDERAL A-E-22HC AWB

Ref Wellpath: NORTH PLATTE FEDERAL A-E-22HC 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	489.00	472.00	17.00	489.00	0.00	0.00	-0.12	0.19
8.75in Open Hole	489.00	7358.00	6869.00	489.00	6647.11	-0.12	0.19	-201.40	-1192.19
7in Casing Intermediate	17.00	7348.00	7331.00	17.00	6646.48	0.00	0.00	-191.42	-1192.21
6.125in Open Hole	7358.00	11332.00	3974.00	6647.11	6623.56	-201.40	-1192.19	-4174.08	-1181.91

## 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	0.36	0.56	3298926.55	1386890.25	40°23'25.620"N	104°25'36.552"W	polygon
NORTH PLATTE FEDERAL A-E-22HC BHL ON PLAT (470'FSL & 10'FWL, SEC.22)	6626.00	-4176.07	-1189.66	3297787.01	1382699.89	40°22'44.350"N	104°25'51.931"W	point
NORTH PLATTE FEDERAL A-E-22HC ENTRY POINT (531'FNL & 10'FWL, SEC.22)	6626.00	95.84	-1193.91	3297731.07	1386971.26	40°23'26.563"N	104°25'51.989"W	point
SEC.22-T05N-R63W HARDLINES (460'FNL/FSL)	6626.00	0.36	0.56	3298926.55	1386890.25	40°23'25.620"N	104°25'36.552"W	polygon

## WELLPATH COMPOSITION -

Ref Wellbore: NORTH PLATTE FEDERAL A-E-22HC AWB

Ref Wellpath: NORTH PLATTE FEDERAL A-E-22HC AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	7309.00	NaviTrak (MagCorr)	BHI MWD/ NAVITRAK (MAGCORR) 8.75" HOLE <526-7309>	NORTH PLATTE FEDERAL A-E-22HC AWB
7309.00	11277.00	NaviTrak (MagCorr)	BHI MWD/NAVITRAK (MAGCORR) 6.125" HOLE <7373-11277>	NORTH PLATTE FEDERAL A-E-22HC AWB
11277.00	11332.00	Blind Drilling (std)	Projection to bit	NORTH PLATTE FEDERAL A-E-22HC AWB



# Actual Wellpath Report

NORTH PLATTE FEDERAL A-E-22HC AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#03 NORTH PLATTE FEDERAL A-E-22HC (618'FNL & 1204'FWL, SEC.22)
Area	COLORADO	Well	NORTH PLATTE FEDERAL A-E-22HC
Field	WELD COUNTY	Wellbore	NORTH PLATTE FEDERAL A-E-22HC AWB
Facility	SEC.22-T5N-R63W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
526.00	0.060	121.870	526.00	FIRST BHI MWD SURVEY
7346.00	85.976	179.868	6646.34	ICP (816'FNL & 12'FWL, SEC.22)
7419.00	87.198	179.792	6649.89	TOP (889'FNL & 13'FWL, SEC.22)
11277.00	89.590	179.250	6623.16	LAST BHI MWD SURVEY
11332.00	89.590	179.250	6623.56	PROJECTION TO BIT (472'FSL & 18'FWL, SEC.22)