

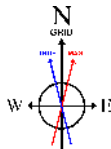
# NICKEL ROAD OPERATING

Location: COLORADO Slot: SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)  
Field: WELD COUNTY (NAD83/GRID NORTH) Well: DRAKE 5X-HNC-11-07-67  
Facility: SEC.12-07N-R67W Wellbore: DRAKE 5X-HNC-11-07-67 PWB

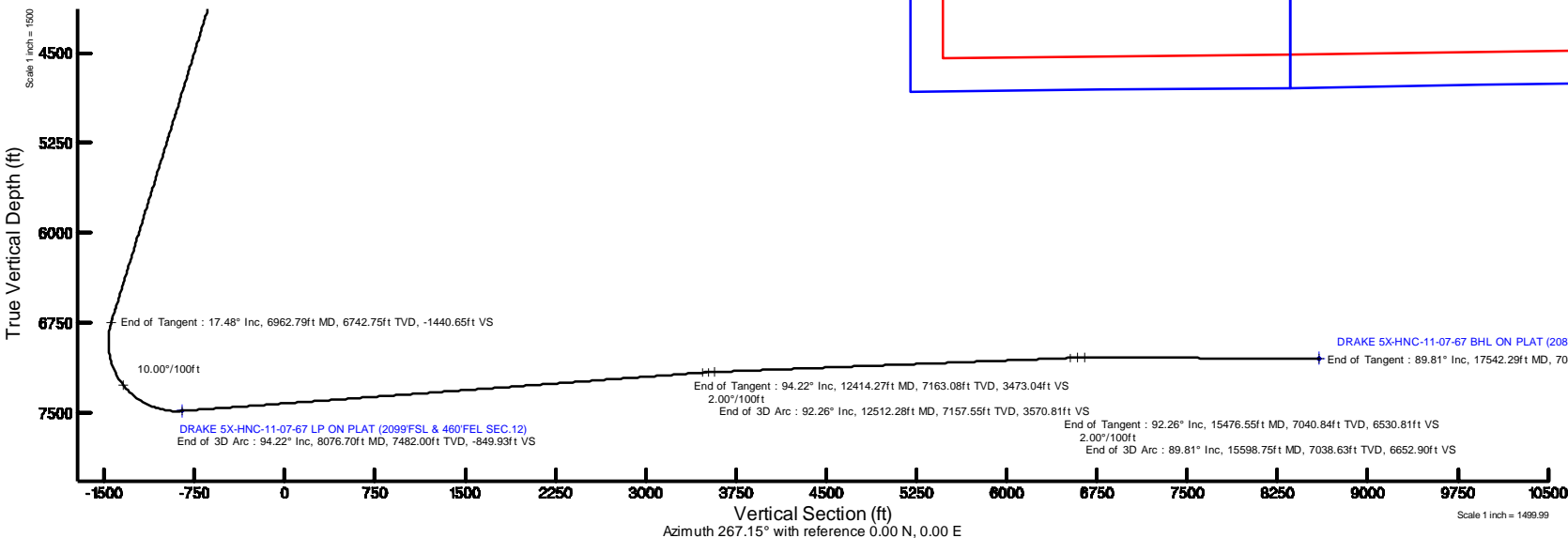
Plot reference wellpath is DRAKE 5X-HNC-11-07-67 REV-A0 PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16) (RKB)	North Reference: Grid north
Measured depths are referenced to RIG (16) (RKB)	Scale: True distance
RIG (16) (RKB) to Mean Sea Level: 5107 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)): 0 feet	Created by: wagnjam on 2019-01-28
Coordinates are in feet referenced to Slot	Database: WA DENVER

Location Information					
Facility Name		Grid East (USB)	Grid North (USB)	Latitude	Longitude
SEC.12-07N-R67W		3183871.851	1457749.807	40°35'16.933"N	104°50'16.656"W
Slot	Local N (B)	Local E (B)	Grid East (USB)	Grid North (USB)	Latitude
SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)	50.05	212.68	3184084.507	1457799.855	40°35'17.412"N
RIG (16) (RKB) to Ground level (At Slot: SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12))					5107ft
Mean Sea Level to Ground level (At Slot: SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12))					0ft
RIG (16) (RKB) to Mean Sea Level					5107ft

Survey Program					
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
16.00	17543.00	BHI NavitTrak	BHI NavitTrak (Rotating)		DRAKE 5X-HNC-11-07-67 PWB

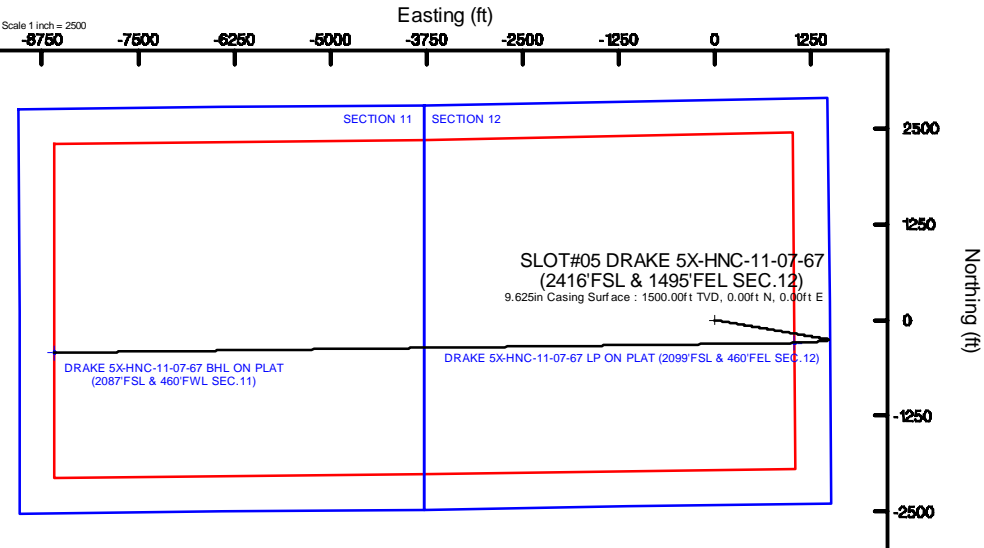


BGGM (1900.0 to 2020.0) Dip: 66.91° Field: 52332.3 nT  
Magnetic North is 8.27 degrees East of True North (at 1/23/2019)  
Grid North is 0.43 degrees East of True North  
To correct azimuth from True to Grid subtract 0.43 degrees  
To correct azimuth from Magnetic to Grid add 7.84 degrees



Targets							
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USB)	Grid North (USB)	Latitude
SEC.11-07N-R67W		3.00	-50.05	-212.68	3183871.85	1457749.81	40°35'16.933"N
SEC.12-07N-R67W		3.00	-50.05	-212.68	3183871.85	1457749.81	40°35'16.933"N
DRAKE 5X-HNC-11-07-67 BHL ON PLAT (2087'FSL & 460'FWL SEC.11)	17542.29	7045.00	-427.00	-8584.53	3175500.22	1457372.88	40°35'13.812"N
DRAKE 5X-HNC-11-07-67 LP ON PLAT (2099'FSL & 460'FEL SEC.12)		7482.00	-301.90	866.00	3185723.80	1457497.76	40°35'14.352"N
DRAKE 5X-HNC-11-07-67 LP PREV.1 (2099'FSL & 463'FEL SEC.12)	8076.70	7482.00	-301.90	866.00	3184950.48	1457497.76	40°35'14.385"N
SEC.11&12-07N-R67W HARDLINES 460'		7585.00	-50.05	-212.68	3183871.85	1457749.81	40°35'16.933"N

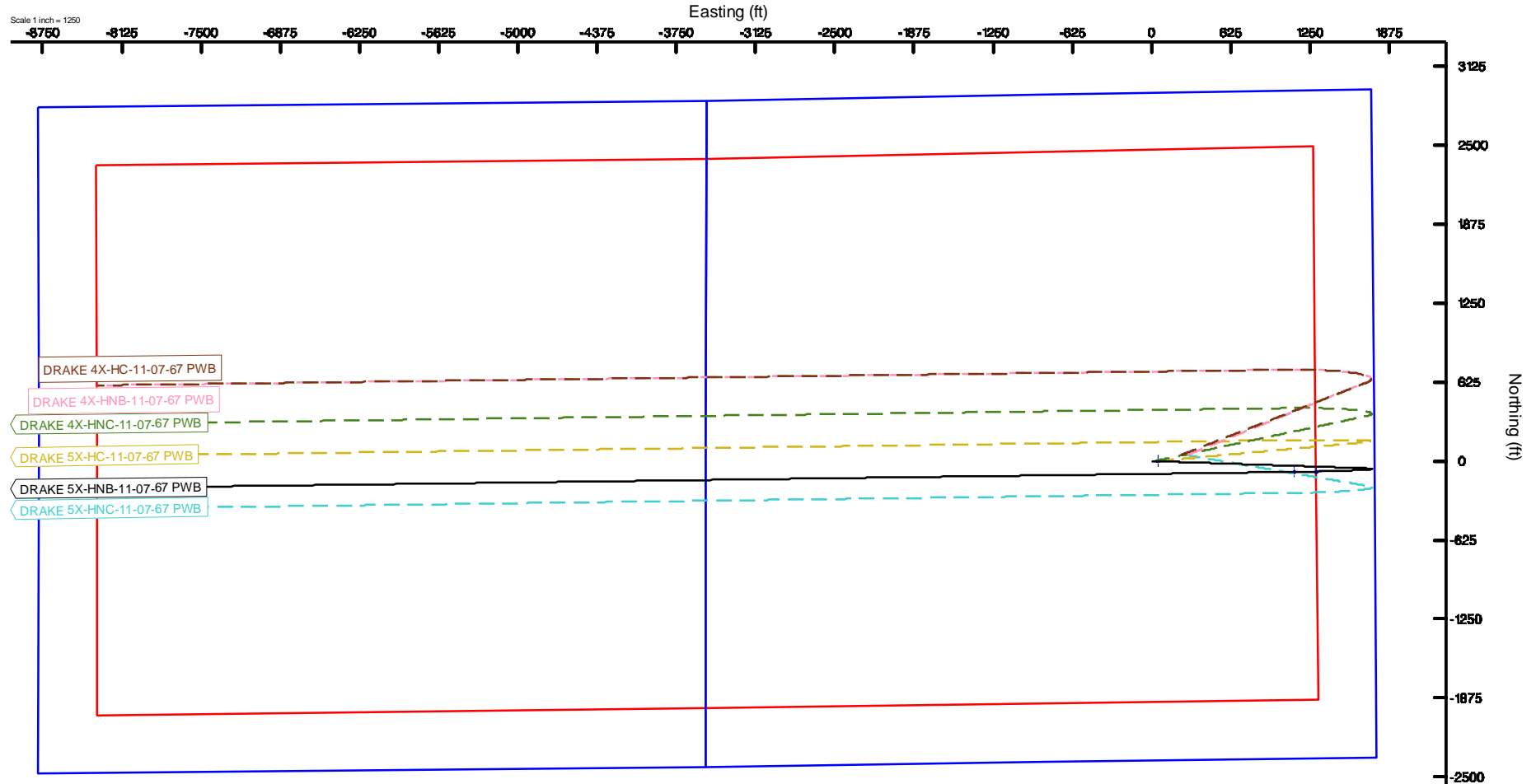
Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	16.00	0.000	99.686	16.00	0.00	0.00	0.00
End of Tangent	1616.00	0.000	99.686	1616.00	0.00	0.00	0.00
End of Build	2490.01	17.480	99.686	2476.52	-22.26	130.41	2.00
End of Tangent	6962.79	17.480	99.686	6742.75	-248.31	1454.78	0.00
End of 3D Arc	8076.70	94.216	269.238	7482.00	-301.90	866.00	10.00
End of Tangent	12414.27	94.216	269.238	7163.08	-359.45	-3459.45	0.00
End of 3D Arc	12512.28	92.256	269.245	7157.55	-360.75	-3557.29	2.00
End of Tangent	15476.55	92.256	269.245	7040.84	-399.80	-6519.00	0.00
End of 3D Arc	15598.75	89.812	269.245	7038.63	-401.41	-6641.16	2.00
End of Tangent	17542.29	89.812	269.245	7045.00	-427.00	-8584.53	0.00



# NICKEL ROAD OPERATING

Location: COLORADO Slot: SLOT#01 DRAKE 5X-HNB-11-07-67 (2370'FSL & 1758'FEL SEC.12)  
 Field: WELD COUNTY (NAD83/GRID NORTH) Well: DRAKE 5X-HNB-11-07-67  
 Facility: SEC.12-07N-R67W Wellbore: DRAKE 5X-HNB-11-07-67 PWB

Plot reference wellbore is DRAKE 5X-HNB-11-07-67 SEC 12-A-07PWP	Grid System: NAD83 (Lambert Conformal Conic SP, Northern Zone 09N), U.S. feet
True vertical depths are referenced to RIG (10) (DRAKE)	North Reference: Grid North
Measured depths are referenced to RIG (10) (DRAKE)	Scale: True Distance
RIG (10) (DRAKE) is Mean Sea Level: 5748 feet	Depths are in feet
Mean Sea Level is Ground Level at Date: 5/10/2007 DRAKE 5X-HNB-11-07-67 2370'FSL & 1758'FEL SEC. 12-A-07PWP	Created by: wellpath.com 2010-01-08
Coordinates are in feet referenced to DTM	Database: WGS 82/NOV08

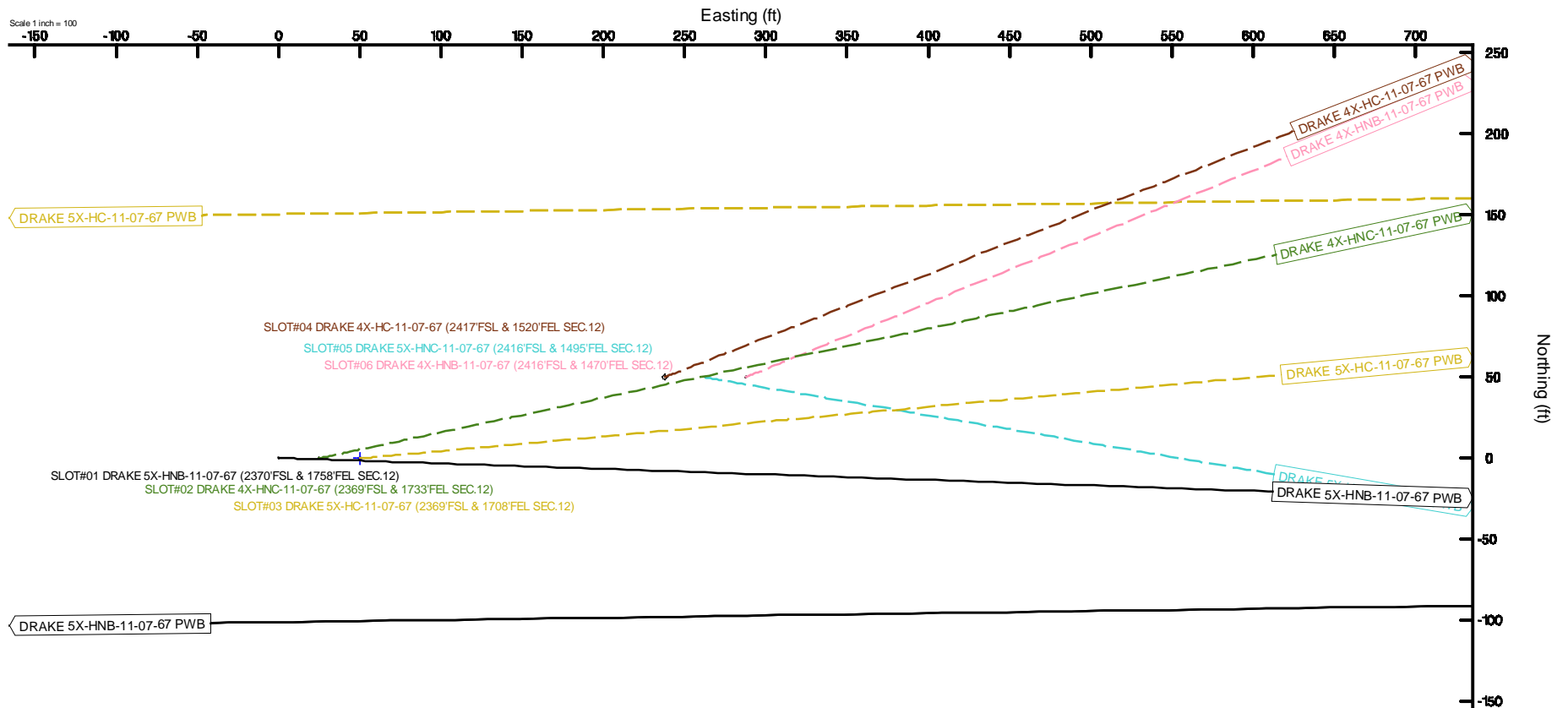


# NICKEL ROAD OPERATING

Location: COLORADO Slot: SLOT#01 DRAKE 5X-HNB-11-07-67 (2370'FSL & 1758'FEL SEC.12)  
Field: WELD COUNTY (NAD83/GRID NORTH) Well: DRAKE 5X-HNB-11-07-67  
Facility: SEC.12-07N-R67W Wellbore: DRAKE 5X-HNB-11-07-67 PWB



Top Wellbore is DRAKE 5X-HNB-11-07-67 PWB	Old System: NAD83/UTM/Colorado 27, Northern Zone (2011) UTM
Top Wellbore is DRAKE 5X-HNB-11-07-67 PWB	North Submarine: 00000000
Wellbore is DRAKE 5X-HNB-11-07-67 PWB	Scale: True Distance
Wellbore is DRAKE 5X-HNB-11-07-67 PWB	Depth: True Depth
Wellbore is DRAKE 5X-HNB-11-07-67 PWB	Created by: vmpg/11-07-67
Wellbore is DRAKE 5X-HNB-11-07-67 PWB	Database: N/A DENVER





# Planned Wellpath Report

DRAKE 5X-HNC-11-07-67 REV-A.0 PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Wagnjam
Scale	0.999974	Report Generated	1/28/2019 at 8:38:23 PM
Convergence at slot	0.43° East	Database/Source file	WA DENVER/DRAKE_5X-HNC-11-07-67_REV-A.0_PWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	50.05	212.66	3184084.51	1457799.65	40°35'17.412"N	104°50'13.895"W
Facility Reference Pt			3183871.85	1457749.61	40°35'16.933"N	104°50'16.656"W
Field Reference Pt			3183871.85	1457749.61	40°35'16.933"N	104°50'16.656"W

## WELLPATH DATUM

Calculation method	Minimum curvature	RIG (16') (RKB) to Facility Vertical Datum	5107.00ft
Horizontal Reference Pt	Slot	RIG (16') (RKB) to Mean Sea Level	5107.00ft
Vertical Reference Pt	RIG (16') (RKB)	RIG (16') (RKB) to Ground Level at Slot (SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12))	5107.00ft
MD Reference Pt	RIG (16') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	267.15°



# Planned Wellpath Report

DRAKE 5X-HNC-11-07-67 REV-A.0 PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

## WELLPATH DATA (185 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	99.686	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	99.686	16.00	0.00	0.00	0.00	0.00	Tie On
116.00†	0.000	99.686	116.00	0.00	0.00	0.00	0.00	
216.00†	0.000	99.686	216.00	0.00	0.00	0.00	0.00	
316.00†	0.000	99.686	316.00	0.00	0.00	0.00	0.00	
416.00†	0.000	99.686	416.00	0.00	0.00	0.00	0.00	
516.00†	0.000	99.686	516.00	0.00	0.00	0.00	0.00	
616.00†	0.000	99.686	616.00	0.00	0.00	0.00	0.00	
716.00†	0.000	99.686	716.00	0.00	0.00	0.00	0.00	
816.00†	0.000	99.686	816.00	0.00	0.00	0.00	0.00	
916.00†	0.000	99.686	916.00	0.00	0.00	0.00	0.00	
1016.00†	0.000	99.686	1016.00	0.00	0.00	0.00	0.00	
1116.00†	0.000	99.686	1116.00	0.00	0.00	0.00	0.00	
1216.00†	0.000	99.686	1216.00	0.00	0.00	0.00	0.00	
1316.00†	0.000	99.686	1316.00	0.00	0.00	0.00	0.00	
1416.00†	0.000	99.686	1416.00	0.00	0.00	0.00	0.00	
1516.00†	0.000	99.686	1516.00	0.00	0.00	0.00	0.00	
1616.00	0.000	99.686	1616.00	0.00	0.00	0.00	0.00	End of Tangent
1716.00†	2.000	99.686	1715.98	-1.70	-0.29	1.72	2.00	
1816.00†	4.000	99.686	1815.84	-6.81	-1.17	6.88	2.00	
1916.00†	6.000	99.686	1915.45	-15.32	-2.64	15.47	2.00	
2016.00†	8.000	99.686	2014.70	-27.22	-4.69	27.48	2.00	
2116.00†	10.000	99.686	2113.47	-42.49	-7.32	42.90	2.00	
2216.00†	12.000	99.686	2211.62	-61.11	-10.53	61.71	2.00	
2316.00†	14.000	99.686	2309.06	-83.07	-14.32	83.88	2.00	
2416.00†	16.000	99.686	2405.64	-108.33	-18.67	109.39	2.00	
2490.01	17.480	99.686	2476.52	-129.14	-22.26	130.41	2.00	End of Build
2516.00†	17.480	99.686	2501.30	-136.76	-23.57	138.10	0.00	
2616.00†	17.480	99.686	2596.69	-166.08	-28.63	167.71	0.00	
2716.00†	17.480	99.686	2692.07	-195.41	-33.68	197.32	0.00	



# Planned Wellpath Report

DRAKE 5X-HNC-11-07-67 REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2816.00†	17.480	99.686	2787.45	-224.73	-38.73	226.93	0.00	
2916.00†	17.480	99.686	2882.83	-254.05	-43.79	256.54	0.00	
3016.00†	17.480	99.686	2978.21	-283.37	-48.84	286.15	0.00	
3116.00†	17.480	99.686	3073.60	-312.69	-53.90	315.76	0.00	
3216.00†	17.480	99.686	3168.98	-342.01	-58.95	345.37	0.00	
3316.00†	17.480	99.686	3264.36	-371.34	-64.00	374.98	0.00	
3416.00†	17.480	99.686	3359.74	-400.66	-69.06	404.59	0.00	
3516.00†	17.480	99.686	3455.12	-429.98	-74.11	434.20	0.00	
3616.00†	17.480	99.686	3550.51	-459.30	-79.17	463.81	0.00	
3716.00†	17.480	99.686	3645.89	-488.62	-84.22	493.42	0.00	
3816.00†	17.480	99.686	3741.27	-517.95	-89.27	523.03	0.00	
3916.00†	17.480	99.686	3836.65	-547.27	-94.33	552.64	0.00	
4016.00†	17.480	99.686	3932.03	-576.59	-99.38	582.25	0.00	
4116.00†	17.480	99.686	4027.42	-605.91	-104.44	611.86	0.00	
4216.00†	17.480	99.686	4122.80	-635.23	-109.49	641.47	0.00	
4316.00†	17.480	99.686	4218.18	-664.56	-114.54	671.07	0.00	
4416.00†	17.480	99.686	4313.56	-693.88	-119.60	700.68	0.00	
4516.00†	17.480	99.686	4408.95	-723.20	-124.65	730.29	0.00	
4616.00†	17.480	99.686	4504.33	-752.52	-129.70	759.90	0.00	
4716.00†	17.480	99.686	4599.71	-781.84	-134.76	789.51	0.00	
4816.00†	17.480	99.686	4695.09	-811.16	-139.81	819.12	0.00	
4916.00†	17.480	99.686	4790.47	-840.49	-144.87	848.73	0.00	
5016.00†	17.480	99.686	4885.86	-869.81	-149.92	878.34	0.00	
5116.00†	17.480	99.686	4981.24	-899.13	-154.97	907.95	0.00	
5216.00†	17.480	99.686	5076.62	-928.45	-160.03	937.56	0.00	
5316.00†	17.480	99.686	5172.00	-957.77	-165.08	967.17	0.00	
5416.00†	17.480	99.686	5267.38	-987.10	-170.14	996.78	0.00	
5516.00†	17.480	99.686	5362.77	-1016.42	-175.19	1026.39	0.00	
5616.00†	17.480	99.686	5458.15	-1045.74	-180.24	1056.00	0.00	
5716.00†	17.480	99.686	5553.53	-1075.06	-185.30	1085.61	0.00	



# Planned Wellpath Report

DRAKE 5X-HNC-11-07-67 REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5816.00†	17.480	99.686	5648.91	-1104.38	-190.35	1115.22	0.00	
5916.00†	17.480	99.686	5744.29	-1133.71	-195.41	1144.83	0.00	
6016.00†	17.480	99.686	5839.68	-1163.03	-200.46	1174.44	0.00	
6116.00†	17.480	99.686	5935.06	-1192.35	-205.51	1204.05	0.00	
6216.00†	17.480	99.686	6030.44	-1221.67	-210.57	1233.66	0.00	
6316.00†	17.480	99.686	6125.82	-1250.99	-215.62	1263.27	0.00	
6416.00†	17.480	99.686	6221.20	-1280.32	-220.68	1292.87	0.00	
6516.00†	17.480	99.686	6316.59	-1309.64	-225.73	1322.48	0.00	
6616.00†	17.480	99.686	6411.97	-1338.96	-230.78	1352.09	0.00	
6716.00†	17.480	99.686	6507.35	-1368.28	-235.84	1381.70	0.00	
6816.00†	17.480	99.686	6602.73	-1397.60	-240.89	1411.31	0.00	
6916.00†	17.480	99.686	6698.11	-1426.92	-245.95	1440.92	0.00	
6962.79	17.480	99.686	6742.75	-1440.65	-248.31	1454.78	0.00	End of Tangent
7016.00†	12.303	104.535	6794.15	-1453.87	-251.08	1468.15	10.00	
7116.00†	3.820	150.070	6893.14	-1465.58	-256.65	1480.16	10.00	
7216.00†	8.809	246.833	6992.69	-1459.90	-262.57	1474.77	10.00	
7316.00†	18.449	258.901	7089.78	-1437.00	-268.64	1452.14	10.00	
7416.00†	28.335	262.769	7181.45	-1397.58	-274.69	1412.97	10.00	
7516.00†	38.278	264.743	7264.93	-1342.83	-280.53	1358.45	10.00	
7616.00†	48.241	266.000	7337.66	-1274.42	-285.98	1290.22	10.00	
7716.00†	58.214	266.915	7397.45	-1194.43	-290.89	1210.38	10.00	
7816.00†	68.193	267.651	7442.48	-1105.28	-295.09	1121.33	10.00	
7916.00†	78.174	268.290	7471.37	-1009.69	-298.46	1025.78	10.00	
8016.00†	88.157	268.883	7483.26	-910.56	-300.90	926.65	10.00	
8076.70	94.216	269.238	7482.00 <sup>1</sup>	-849.93	-301.90	866.00	10.00	End of 3D Arc
8116.00†	94.216	269.238	7479.11	-810.77	-302.42	826.81	0.00	
8216.00†	94.216	269.238	7471.76	-711.10	-303.74	727.09	0.00	
8316.00†	94.216	269.238	7464.41	-611.44	-305.07	627.37	0.00	
8416.00†	94.216	269.238	7457.05	-511.78	-306.40	527.65	0.00	
8516.00†	94.216	269.238	7449.70	-412.11	-307.72	427.93	0.00	



# Planned Wellpath Report

DRAKE 5X-HNC-11-07-67 REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8616.00†	94.216	269.238	7442.35	-312.45	-309.05	328.21	0.00	
8716.00†	94.216	269.238	7435.00	-212.79	-310.38	228.49	0.00	
8816.00†	94.216	269.238	7427.64	-113.12	-311.70	128.77	0.00	
8916.00†	94.216	269.238	7420.29	-13.46	-313.03	29.05	0.00	
9016.00†	94.216	269.238	7412.94	86.20	-314.36	-70.67	0.00	
9116.00†	94.216	269.238	7405.59	185.87	-315.69	-170.39	0.00	
9216.00†	94.216	269.238	7398.23	285.53	-317.01	-270.12	0.00	
9316.00†	94.216	269.238	7390.88	385.19	-318.34	-369.84	0.00	
9416.00†	94.216	269.238	7383.53	484.86	-319.67	-469.56	0.00	
9516.00†	94.216	269.238	7376.18	584.52	-320.99	-569.28	0.00	
9616.00†	94.216	269.238	7368.82	684.18	-322.32	-669.00	0.00	
9716.00†	94.216	269.238	7361.47	783.85	-323.65	-768.72	0.00	
9816.00†	94.216	269.238	7354.12	883.51	-324.97	-868.44	0.00	
9916.00†	94.216	269.238	7346.77	983.17	-326.30	-968.16	0.00	
10016.00†	94.216	269.238	7339.41	1082.84	-327.63	-1067.88	0.00	
10116.00†	94.216	269.238	7332.06	1182.50	-328.95	-1167.60	0.00	
10216.00†	94.216	269.238	7324.71	1282.16	-330.28	-1267.32	0.00	
10316.00†	94.216	269.238	7317.36	1381.83	-331.61	-1367.04	0.00	
10416.00†	94.216	269.238	7310.00	1481.49	-332.94	-1466.76	0.00	
10516.00†	94.216	269.238	7302.65	1581.15	-334.26	-1566.48	0.00	
10616.00†	94.216	269.238	7295.30	1680.82	-335.59	-1666.20	0.00	
10716.00†	94.216	269.238	7287.95	1780.48	-336.92	-1765.92	0.00	
10816.00†	94.216	269.238	7280.59	1880.14	-338.24	-1865.64	0.00	
10916.00†	94.216	269.238	7273.24	1979.81	-339.57	-1965.36	0.00	
11016.00†	94.216	269.238	7265.89	2079.47	-340.90	-2065.08	0.00	
11116.00†	94.216	269.238	7258.54	2179.13	-342.22	-2164.80	0.00	
11216.00†	94.216	269.238	7251.18	2278.80	-343.55	-2264.53	0.00	
11316.00†	94.216	269.238	7243.83	2378.46	-344.88	-2364.25	0.00	
11416.00†	94.216	269.238	7236.48	2478.12	-346.20	-2463.97	0.00	
11516.00†	94.216	269.238	7229.13	2577.79	-347.53	-2563.69	0.00	





# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11616.00†	94.216	269.238	7221.77	2677.45	-348.86	-2663.41	0.00	
11716.00†	94.216	269.238	7214.42	2777.11	-350.18	-2763.13	0.00	
11816.00†	94.216	269.238	7207.07	2876.78	-351.51	-2862.85	0.00	
11916.00†	94.216	269.238	7199.72	2976.44	-352.84	-2962.57	0.00	
12016.00†	94.216	269.238	7192.36	3076.10	-354.17	-3062.29	0.00	
12116.00†	94.216	269.238	7185.01	3175.77	-355.49	-3162.01	0.00	
12216.00†	94.216	269.238	7177.66	3275.43	-356.82	-3261.73	0.00	
12316.00†	94.216	269.238	7170.31	3375.09	-358.15	-3361.45	0.00	
12414.27	94.216	269.238	7163.08	3473.04	-359.45	-3459.45	0.00	End of Tangent
12416.00†	94.182	269.238	7162.95	3474.76	-359.47	-3461.17	2.00	
12512.28	92.256	269.245	7157.55	3570.81	-360.75	-3557.29	2.00	End of 3D Arc
12516.00†	92.256	269.245	7157.40	3574.53	-360.79	-3561.00	0.00	
12616.00†	92.256	269.245	7153.46	3674.39	-362.11	-3660.92	0.00	
12716.00†	92.256	269.245	7149.53	3774.24	-363.43	-3760.83	0.00	
12816.00†	92.256	269.245	7145.59	3874.10	-364.75	-3860.74	0.00	
12916.00†	92.256	269.245	7141.65	3973.95	-366.06	-3960.66	0.00	
13016.00†	92.256	269.245	7137.72	4073.81	-367.38	-4060.57	0.00	
13116.00†	92.256	269.245	7133.78	4173.67	-368.70	-4160.49	0.00	
13216.00†	92.256	269.245	7129.84	4273.52	-370.02	-4260.40	0.00	
13316.00†	92.256	269.245	7125.90	4373.38	-371.33	-4360.31	0.00	
13416.00†	92.256	269.245	7121.97	4473.23	-372.65	-4460.23	0.00	
13516.00†	92.256	269.245	7118.03	4573.09	-373.97	-4560.14	0.00	
13616.00†	92.256	269.245	7114.09	4672.94	-375.29	-4660.05	0.00	
13716.00†	92.256	269.245	7110.16	4772.80	-376.60	-4759.97	0.00	
13816.00†	92.256	269.245	7106.22	4872.66	-377.92	-4859.88	0.00	
13916.00†	92.256	269.245	7102.28	4972.51	-379.24	-4959.80	0.00	
14016.00†	92.256	269.245	7098.34	5072.37	-380.56	-5059.71	0.00	
14116.00†	92.256	269.245	7094.41	5172.22	-381.87	-5159.62	0.00	
14216.00†	92.256	269.245	7090.47	5272.08	-383.19	-5259.54	0.00	
14316.00†	92.256	269.245	7086.53	5371.94	-384.51	-5359.45	0.00	



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
14416.00†	92.256	269.245	7082.60	5471.79	-385.83	-5459.37	0.00	
14516.00†	92.256	269.245	7078.66	5571.65	-387.14	-5559.28	0.00	
14616.00†	92.256	269.245	7074.72	5671.50	-388.46	-5659.19	0.00	
14716.00†	92.256	269.245	7070.78	5771.36	-389.78	-5759.11	0.00	
14816.00†	92.256	269.245	7066.85	5871.22	-391.10	-5859.02	0.00	
14916.00†	92.256	269.245	7062.91	5971.07	-392.41	-5958.93	0.00	
15016.00†	92.256	269.245	7058.97	6070.93	-393.73	-6058.85	0.00	
15116.00†	92.256	269.245	7055.04	6170.78	-395.05	-6158.76	0.00	
15216.00†	92.256	269.245	7051.10	6270.64	-396.37	-6258.68	0.00	
15316.00†	92.256	269.245	7047.16	6370.49	-397.68	-6358.59	0.00	
15416.00†	92.256	269.245	7043.22	6470.35	-399.00	-6458.50	0.00	
15476.55	92.256	269.245	7040.84	6530.81	-399.80	-6519.00	0.00	End of Tangent
15516.00†	91.467	269.245	7039.56	6570.22	-400.32	-6558.43	2.00	
15598.75	89.812	269.245	7038.63	6652.90	-401.41	-6641.16	2.00	End of 3D Arc
15616.00†	89.812	269.245	7038.69	6670.14	-401.64	-6658.41	0.00	
15716.00†	89.812	269.245	7039.02	6770.07	-402.95	-6758.40	0.00	
15816.00†	89.812	269.245	7039.35	6870.01	-404.27	-6858.39	0.00	
15916.00†	89.812	269.245	7039.67	6969.94	-405.59	-6958.38	0.00	
16016.00†	89.812	269.245	7040.00	7069.87	-406.90	-7058.37	0.00	
16116.00†	89.812	269.245	7040.33	7169.80	-408.22	-7158.36	0.00	
16216.00†	89.812	269.245	7040.66	7269.74	-409.54	-7258.35	0.00	
16316.00†	89.812	269.245	7040.98	7369.67	-410.86	-7358.34	0.00	
16416.00†	89.812	269.245	7041.31	7469.60	-412.17	-7458.34	0.00	
16516.00†	89.812	269.245	7041.64	7569.54	-413.49	-7558.33	0.00	
16616.00†	89.812	269.245	7041.97	7669.47	-414.81	-7658.32	0.00	
16716.00†	89.812	269.245	7042.29	7769.40	-416.12	-7758.31	0.00	
16816.00†	89.812	269.245	7042.62	7869.33	-417.44	-7858.30	0.00	
16916.00†	89.812	269.245	7042.95	7969.27	-418.76	-7958.29	0.00	
17016.00†	89.812	269.245	7043.28	8069.20	-420.07	-8058.28	0.00	
17116.00†	89.812	269.245	7043.60	8169.13	-421.39	-8158.27	0.00	



# Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NICKEL ROAD OPERATING	Slot	SLOT#05 DRAKE 5X-HNC-11-07-67 (2416'FSL & 1495'FEL SEC.12)
Area	COLORADO	Well	DRAKE 5X-HNC-11-07-67
Field	WELD COUNTY (NAD83/GRID NORTH)	Wellbore	DRAKE 5X-HNC-11-07-67 PWB
Facility	SEC.12-07N-R67W		

WELLPATH DATA (185 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
17216.00†	89.812	269.245	7043.93	8269.06	-422.71	-8258.26	0.00	
17316.00†	89.812	269.245	7044.26	8369.00	-424.02	-8358.25	0.00	
17416.00†	89.812	269.245	7044.59	8468.93	-425.34	-8458.24	0.00	
17516.00†	89.812	269.245	7044.91	8568.86	-426.66	-8558.23	0.00	
17542.29	89.812	269.245	7045.00 <sup>2</sup>	8595.14	-427.00	-8584.53	0.00	End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: DRAKE 5X-HNC-11-07-67 PWB      Ref Wellpath: DRAKE 5X-HNC-11-07-67 REV-A.0 PWP									
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	16.00	1500.00	1484.00	16.00	1500.00	0.00	0.00	0.00	0.00