

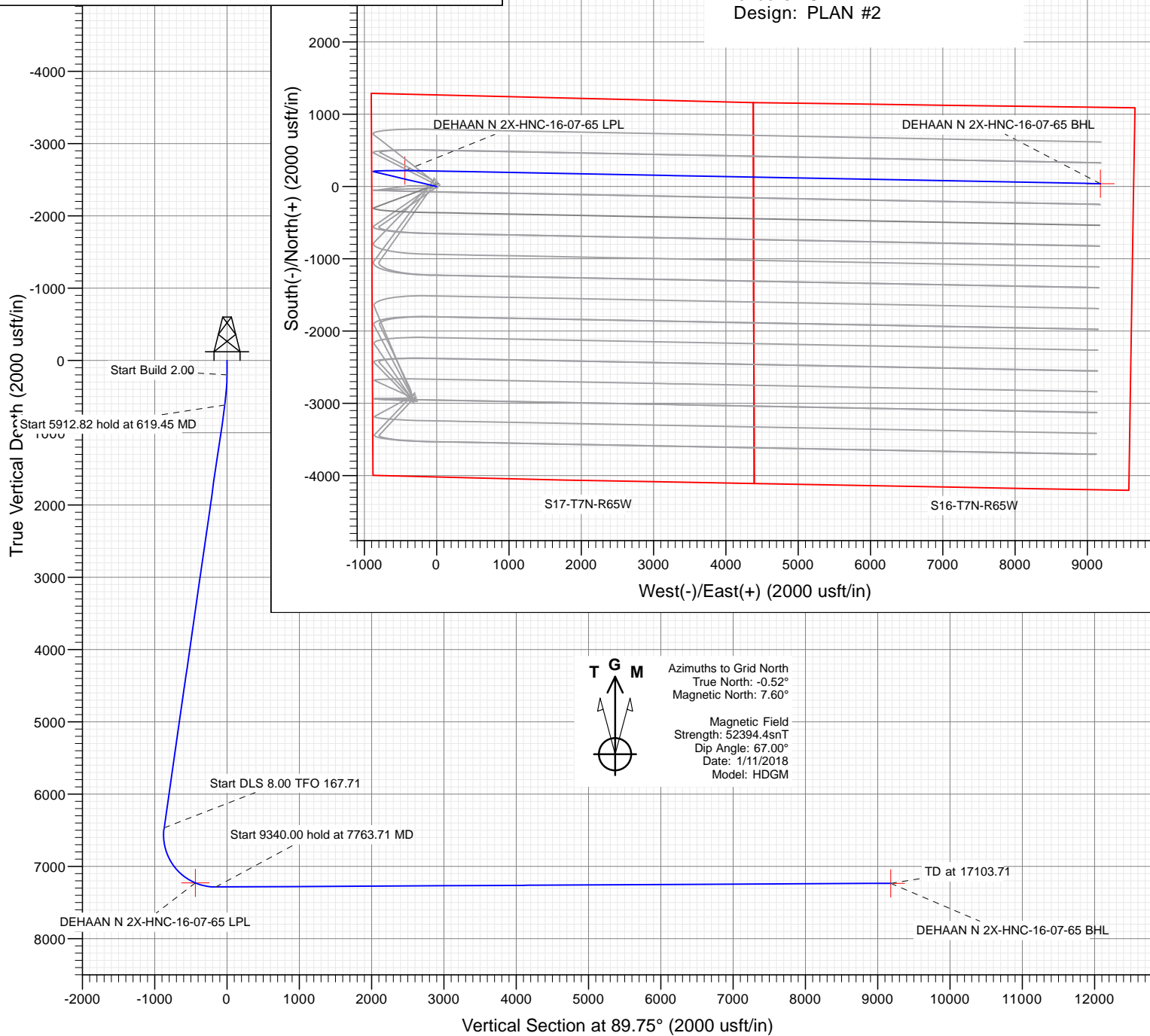
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	619.45	8.39	283.24	617.95	7.02	-29.84	2.00	283.24	-29.81	
4	6532.28	8.39	283.24	6467.51	204.56	-869.56	0.00	0.00	-868.66	
5	7763.71	90.32	91.08	7285.45	216.59	-156.38	8.00	167.71	-155.44	
6	17103.71	90.32	91.08	7234.00	39.74	9181.80	0.00	0.00	9181.89	DEHAAN N 2X-HNC-16-07-65 BHL

PLAN #2
DEHAAN 2X-HNC-16-07-65
20' KB @ 4914.00usf
Ground Level @ 4894.00
North American Datum 1983
Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN N 2X-HNC-16-07-65 SHL, Grid North

Type	Target	Origin	N/S	E/W	From
TD	No Target (Freehand)	Slot	0.00	0.00	TVD
Name					
DEHAAN N 2X-HNC-16-07-65 LPL					
DEHAAN N 2X-HNC-16-07-65 BHL					

Project: WELD COUNTY, CO
Site: S17-T7N-R65W (DEHAAN)
Well: DEHAAN 2X-HNC-16-07-65
Wellbore: OH
Design: PLAN #2



WELL DETAILS: DEHAAN 2X-HNC-16-07-65

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1454694.47	3224105.90	40.578737	-104.693203



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN
Company:	Nickel Road Operating LLC	TVD Reference:	20' KB @ 4914.00usft
Project:	WELD COUNTY, CO	MD Reference:	20' KB @ 4914.00usft
Site:	S17-T7N-R65W (DEHAAN)	North Reference:	Grid
Well:	DEHAAN 2X-HNC-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Project	WELD COUNTY, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S17-T7N-R65W (DEHAAN)			
Site Position:		Northing:	1,454,732.81 usft	Latitude:	40.578843
From:	Map	Easting:	3,224,073.79 usft	Longitude:	-104.693317
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.52 °

Well	DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN N 2X-HNC-16-07-65 SHL					
Well Position	+N/-S	0.00 usft	Northing:	1,454,694.47 usft	Latitude:	40.578737
	+E/-W	0.00 usft	Easting:	3,224,105.90 usft	Longitude:	-104.693203
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,894.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	1/11/2018	8.12	67.00	52,394.40000000

Design	PLAN #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	89.75

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
619.45	8.39	283.24	617.95	7.02	-29.84	2.00	2.00	0.00	283.24	
6,532.28	8.39	283.24	6,467.51	204.56	-869.56	0.00	0.00	0.00	0.00	
7,763.71	90.32	91.08	7,285.45	216.59	-156.38	8.00	6.65	13.63	167.71	
17,103.71	90.32	91.08	7,234.00	39.74	9,181.80	0.00	0.00	0.00	0.00	DEHAAN N 2X-HNC-

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN
Company:	Nickel Road Operating LLC	TVD Reference:	20' KB @ 4914.00usft
Project:	WELD COUNTY, CO	MD Reference:	20' KB @ 4914.00usft
Site:	S17-T7N-R65W (DEHAAN)	North Reference:	Grid
Well:	DEHAAN 2X-HNC-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	2.00	283.24	299.98	0.40	-1.70	-1.70	2.00	2.00	
400.00	4.00	283.24	399.84	1.60	-6.79	-6.79	2.00	2.00	
500.00	6.00	283.24	499.45	3.59	-15.28	-15.26	2.00	2.00	
600.00	8.00	283.24	598.70	6.38	-27.14	-27.11	2.00	2.00	
619.45	8.39	283.24	617.95	7.02	-29.84	-29.81	2.00	2.00	
700.00	8.39	283.24	697.64	9.71	-41.28	-41.23	0.00	0.00	
800.00	8.39	283.24	796.57	13.05	-55.48	-55.42	0.00	0.00	
900.00	8.39	283.24	895.50	16.39	-69.68	-69.61	0.00	0.00	
1,000.00	8.39	283.24	994.43	19.73	-83.88	-83.80	0.00	0.00	
1,100.00	8.39	283.24	1,093.36	23.07	-98.08	-97.98	0.00	0.00	
1,200.00	8.39	283.24	1,192.29	26.41	-112.29	-112.17	0.00	0.00	
1,300.00	8.39	283.24	1,291.22	29.76	-126.49	-126.36	0.00	0.00	
1,400.00	8.39	283.24	1,390.15	33.10	-140.69	-140.54	0.00	0.00	
1,500.00	8.39	283.24	1,489.08	36.44	-154.89	-154.73	0.00	0.00	
1,600.00	8.39	283.24	1,588.01	39.78	-169.09	-168.92	0.00	0.00	
1,700.00	8.39	283.24	1,686.94	43.12	-183.29	-183.11	0.00	0.00	
1,800.00	8.39	283.24	1,785.87	46.46	-197.50	-197.29	0.00	0.00	
1,900.00	8.39	283.24	1,884.80	49.80	-211.70	-211.48	0.00	0.00	
2,000.00	8.39	283.24	1,983.73	53.14	-225.90	-225.67	0.00	0.00	
2,100.00	8.39	283.24	2,082.66	56.48	-240.10	-239.85	0.00	0.00	
2,200.00	8.39	283.24	2,181.59	59.82	-254.30	-254.04	0.00	0.00	
2,300.00	8.39	283.24	2,280.52	63.16	-268.50	-268.23	0.00	0.00	
2,400.00	8.39	283.24	2,379.45	66.51	-282.71	-282.42	0.00	0.00	
2,500.00	8.39	283.24	2,478.38	69.85	-296.91	-296.60	0.00	0.00	
2,600.00	8.39	283.24	2,577.31	73.19	-311.11	-310.79	0.00	0.00	
2,700.00	8.39	283.24	2,676.24	76.53	-325.31	-324.98	0.00	0.00	
2,800.00	8.39	283.24	2,775.17	79.87	-339.51	-339.16	0.00	0.00	
2,900.00	8.39	283.24	2,874.10	83.21	-353.71	-353.35	0.00	0.00	
3,000.00	8.39	283.24	2,973.03	86.55	-367.92	-367.54	0.00	0.00	
3,100.00	8.39	283.24	3,071.96	89.89	-382.12	-381.72	0.00	0.00	
3,200.00	8.39	283.24	3,170.89	93.23	-396.32	-395.91	0.00	0.00	
3,300.00	8.39	283.24	3,269.82	96.57	-410.52	-410.10	0.00	0.00	
3,400.00	8.39	283.24	3,368.75	99.91	-424.72	-424.29	0.00	0.00	
3,500.00	8.39	283.24	3,467.68	103.25	-438.92	-438.47	0.00	0.00	
3,600.00	8.39	283.24	3,566.61	106.60	-453.13	-452.66	0.00	0.00	
3,700.00	8.39	283.24	3,665.54	109.94	-467.33	-466.85	0.00	0.00	
3,800.00	8.39	283.24	3,764.47	113.28	-481.53	-481.03	0.00	0.00	
3,900.00	8.39	283.24	3,863.40	116.62	-495.73	-495.22	0.00	0.00	
4,000.00	8.39	283.24	3,962.33	119.96	-509.93	-509.41	0.00	0.00	
4,100.00	8.39	283.24	4,061.26	123.30	-524.13	-523.60	0.00	0.00	
4,200.00	8.39	283.24	4,160.19	126.64	-538.34	-537.78	0.00	0.00	
4,300.00	8.39	283.24	4,259.12	129.98	-552.54	-551.97	0.00	0.00	
4,400.00	8.39	283.24	4,358.05	133.32	-566.74	-566.16	0.00	0.00	
4,500.00	8.39	283.24	4,456.98	136.66	-580.94	-580.34	0.00	0.00	
4,600.00	8.39	283.24	4,555.91	140.00	-595.14	-594.53	0.00	0.00	
4,700.00	8.39	283.24	4,654.84	143.35	-609.34	-608.72	0.00	0.00	
4,800.00	8.39	283.24	4,753.77	146.69	-623.55	-622.91	0.00	0.00	
4,900.00	8.39	283.24	4,852.70	150.03	-637.75	-637.09	0.00	0.00	
5,000.00	8.39	283.24	4,951.63	153.37	-651.95	-651.28	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN
Company:	Nickel Road Operating LLC	TVD Reference:	20' KB @ 4914.00usft
Project:	WELD COUNTY, CO	MD Reference:	20' KB @ 4914.00usft
Site:	S17-T7N-R65W (DEHAAN)	North Reference:	Grid
Well:	DEHAAN 2X-HNC-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.00	8.39	283.24	5,050.56	156.71	-666.15	-665.47	0.00	0.00	
5,200.00	8.39	283.24	5,149.49	160.05	-680.35	-679.65	0.00	0.00	
5,300.00	8.39	283.24	5,248.42	163.39	-694.55	-693.84	0.00	0.00	
5,400.00	8.39	283.24	5,347.35	166.73	-708.76	-708.03	0.00	0.00	
5,500.00	8.39	283.24	5,446.28	170.07	-722.96	-722.21	0.00	0.00	
5,600.00	8.39	283.24	5,545.21	173.41	-737.16	-736.40	0.00	0.00	
5,700.00	8.39	283.24	5,644.14	176.75	-751.36	-750.59	0.00	0.00	
5,800.00	8.39	283.24	5,743.07	180.10	-765.56	-764.78	0.00	0.00	
5,900.00	8.39	283.24	5,842.00	183.44	-779.76	-778.96	0.00	0.00	
6,000.00	8.39	283.24	5,940.93	186.78	-793.97	-793.15	0.00	0.00	
6,100.00	8.39	283.24	6,039.86	190.12	-808.17	-807.34	0.00	0.00	
6,200.00	8.39	283.24	6,138.79	193.46	-822.37	-821.52	0.00	0.00	
6,300.00	8.39	283.24	6,237.72	196.80	-836.57	-835.71	0.00	0.00	
6,400.00	8.39	283.24	6,336.65	200.14	-850.77	-849.90	0.00	0.00	
6,500.00	8.39	283.24	6,435.58	203.48	-864.97	-864.09	0.00	0.00	
6,532.28	8.39	283.24	6,467.51	204.56	-869.56	-868.66	0.00	0.00	
6,600.00	3.30	303.66	6,534.87	206.77	-876.00	-875.09	8.00	-7.51	
6,700.00	5.51	72.30	6,634.72	209.84	-873.81	-872.90	8.00	2.21	
6,800.00	13.34	83.54	6,733.30	212.60	-857.75	-856.82	8.00	7.82	
6,900.00	21.29	86.50	6,828.69	215.01	-828.12	-827.18	8.00	7.95	
7,000.00	29.27	87.90	6,919.04	217.01	-785.50	-784.56	8.00	7.98	
7,100.00	37.25	88.73	7,002.59	218.58	-730.73	-729.77	8.00	7.99	
7,200.00	45.25	89.31	7,077.72	219.68	-664.85	-663.90	8.00	7.99	
7,300.00	53.24	89.75	7,142.95	220.29	-589.17	-588.21	8.00	7.99	
7,400.00	61.23	90.10	7,197.02	220.39	-505.15	-504.19	8.00	7.99	
7,474.26	67.17	90.33	7,229.33	220.14	-438.32	-437.36	8.00	8.00	DEHAAN N 2X-HNC-16-07-65 LPL
7,500.00	69.23	90.40	7,238.89	219.99	-414.42	-413.47	8.00	8.00	
7,600.00	77.22	90.67	7,267.72	219.09	-318.76	-317.81	8.00	8.00	
7,700.00	85.22	90.93	7,282.97	217.71	-220.02	-219.08	8.00	8.00	
7,763.71	90.32	91.08	7,285.45	216.59	-156.38	-155.44	8.00	8.00	
7,800.00	90.32	91.08	7,285.25	215.91	-120.11	-119.17	0.00	0.00	
7,900.00	90.32	91.08	7,284.70	214.01	-20.13	-19.20	0.00	0.00	
8,000.00	90.32	91.08	7,284.15	212.12	79.86	80.77	0.00	0.00	
8,100.00	90.32	91.08	7,283.60	210.23	179.84	180.74	0.00	0.00	
8,200.00	90.32	91.08	7,283.04	208.33	279.82	280.72	0.00	0.00	
8,300.00	90.32	91.08	7,282.49	206.44	379.80	380.69	0.00	0.00	
8,400.00	90.32	91.08	7,281.94	204.55	479.78	480.66	0.00	0.00	
8,500.00	90.32	91.08	7,281.39	202.65	579.76	580.63	0.00	0.00	
8,600.00	90.32	91.08	7,280.84	200.76	679.74	680.60	0.00	0.00	
8,700.00	90.32	91.08	7,280.29	198.86	779.72	780.57	0.00	0.00	
8,800.00	90.32	91.08	7,279.74	196.97	879.70	880.54	0.00	0.00	
8,900.00	90.32	91.08	7,279.19	195.08	979.68	980.52	0.00	0.00	
9,000.00	90.32	91.08	7,278.64	193.18	1,079.66	1,080.49	0.00	0.00	
9,100.00	90.32	91.08	7,278.09	191.29	1,179.64	1,180.46	0.00	0.00	
9,200.00	90.32	91.08	7,277.54	189.40	1,279.62	1,280.43	0.00	0.00	
9,300.00	90.32	91.08	7,276.99	187.50	1,379.60	1,380.40	0.00	0.00	
9,400.00	90.32	91.08	7,276.43	185.61	1,479.58	1,480.37	0.00	0.00	
9,500.00	90.32	91.08	7,275.88	183.72	1,579.56	1,580.34	0.00	0.00	
9,600.00	90.32	91.08	7,275.33	181.82	1,679.54	1,680.32	0.00	0.00	
9,700.00	90.32	91.08	7,274.78	179.93	1,779.52	1,780.29	0.00	0.00	
9,800.00	90.32	91.08	7,274.23	178.04	1,879.51	1,880.26	0.00	0.00	
9,900.00	90.32	91.08	7,273.68	176.14	1,979.49	1,980.23	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN
Company:	Nickel Road Operating LLC	TVD Reference:	20' KB @ 4914.00usft
Project:	WELD COUNTY, CO	MD Reference:	20' KB @ 4914.00usft
Site:	S17-T7N-R65W (DEHAAN)	North Reference:	Grid
Well:	DEHAAN 2X-HNC-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
10,000.00	90.32	91.08	7,273.13	174.25	2,079.47	2,080.20	0.00	0.00	
10,100.00	90.32	91.08	7,272.58	172.36	2,179.45	2,180.17	0.00	0.00	
10,200.00	90.32	91.08	7,272.03	170.46	2,279.43	2,280.14	0.00	0.00	
10,300.00	90.32	91.08	7,271.48	168.57	2,379.41	2,380.12	0.00	0.00	
10,400.00	90.32	91.08	7,270.93	166.68	2,479.39	2,480.09	0.00	0.00	
10,500.00	90.32	91.08	7,270.38	164.78	2,579.37	2,580.06	0.00	0.00	
10,600.00	90.32	91.08	7,269.82	162.89	2,679.35	2,680.03	0.00	0.00	
10,700.00	90.32	91.08	7,269.27	160.99	2,779.33	2,780.00	0.00	0.00	
10,800.00	90.32	91.08	7,268.72	159.10	2,879.31	2,879.97	0.00	0.00	
10,900.00	90.32	91.08	7,268.17	157.21	2,979.29	2,979.94	0.00	0.00	
11,000.00	90.32	91.08	7,267.62	155.31	3,079.27	3,079.92	0.00	0.00	
11,100.00	90.32	91.08	7,267.07	153.42	3,179.25	3,179.89	0.00	0.00	
11,200.00	90.32	91.08	7,266.52	151.53	3,279.23	3,279.86	0.00	0.00	
11,300.00	90.32	91.08	7,265.97	149.63	3,379.21	3,379.83	0.00	0.00	
11,400.00	90.32	91.08	7,265.42	147.74	3,479.19	3,479.80	0.00	0.00	
11,500.00	90.32	91.08	7,264.87	145.85	3,579.17	3,579.77	0.00	0.00	
11,600.00	90.32	91.08	7,264.32	143.95	3,679.16	3,679.74	0.00	0.00	
11,700.00	90.32	91.08	7,263.77	142.06	3,779.14	3,779.72	0.00	0.00	
11,800.00	90.32	91.08	7,263.21	140.17	3,879.12	3,879.69	0.00	0.00	
11,900.00	90.32	91.08	7,262.66	138.27	3,979.10	3,979.66	0.00	0.00	
12,000.00	90.32	91.08	7,262.11	136.38	4,079.08	4,079.63	0.00	0.00	
12,100.00	90.32	91.08	7,261.56	134.49	4,179.06	4,179.60	0.00	0.00	
12,200.00	90.32	91.08	7,261.01	132.59	4,279.04	4,279.57	0.00	0.00	
12,300.00	90.32	91.08	7,260.46	130.70	4,379.02	4,379.54	0.00	0.00	
12,400.00	90.32	91.08	7,259.91	128.80	4,479.00	4,479.52	0.00	0.00	
12,500.00	90.32	91.08	7,259.36	126.91	4,578.98	4,579.49	0.00	0.00	
12,600.00	90.32	91.08	7,258.81	125.02	4,678.96	4,679.46	0.00	0.00	
12,700.00	90.32	91.08	7,258.26	123.12	4,778.94	4,779.43	0.00	0.00	
12,800.00	90.32	91.08	7,257.71	121.23	4,878.92	4,879.40	0.00	0.00	
12,900.00	90.32	91.08	7,257.16	119.34	4,978.90	4,979.37	0.00	0.00	
13,000.00	90.32	91.08	7,256.60	117.44	5,078.88	5,079.34	0.00	0.00	
13,100.00	90.32	91.08	7,256.05	115.55	5,178.86	5,179.32	0.00	0.00	
13,200.00	90.32	91.08	7,255.50	113.66	5,278.84	5,279.29	0.00	0.00	
13,300.00	90.32	91.08	7,254.95	111.76	5,378.82	5,379.26	0.00	0.00	
13,400.00	90.32	91.08	7,254.40	109.87	5,478.81	5,479.23	0.00	0.00	
13,500.00	90.32	91.08	7,253.85	107.98	5,578.79	5,579.20	0.00	0.00	
13,600.00	90.32	91.08	7,253.30	106.08	5,678.77	5,679.17	0.00	0.00	
13,700.00	90.32	91.08	7,252.75	104.19	5,778.75	5,779.14	0.00	0.00	
13,800.00	90.32	91.08	7,252.20	102.30	5,878.73	5,879.12	0.00	0.00	
13,900.00	90.32	91.08	7,251.65	100.40	5,978.71	5,979.09	0.00	0.00	
14,000.00	90.32	91.08	7,251.10	98.51	6,078.69	6,079.06	0.00	0.00	
14,100.00	90.32	91.08	7,250.55	96.62	6,178.67	6,179.03	0.00	0.00	
14,200.00	90.32	91.08	7,249.99	94.72	6,278.65	6,279.00	0.00	0.00	
14,300.00	90.32	91.08	7,249.44	92.83	6,378.63	6,378.97	0.00	0.00	
14,400.00	90.32	91.08	7,248.89	90.93	6,478.61	6,478.94	0.00	0.00	
14,500.00	90.32	91.08	7,248.34	89.04	6,578.59	6,578.92	0.00	0.00	
14,600.00	90.32	91.08	7,247.79	87.15	6,678.57	6,678.89	0.00	0.00	
14,700.00	90.32	91.08	7,247.24	85.25	6,778.55	6,778.86	0.00	0.00	
14,800.00	90.32	91.08	7,246.69	83.36	6,878.53	6,878.83	0.00	0.00	
14,900.00	90.32	91.08	7,246.14	81.47	6,978.51	6,978.80	0.00	0.00	
15,000.00	90.32	91.08	7,245.59	79.57	7,078.49	7,078.77	0.00	0.00	
15,100.00	90.32	91.08	7,245.04	77.68	7,178.47	7,178.74	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well DEHAAN 2X-HNC-16-07-65 - Slot DEHAAN
Company:	Nickel Road Operating LLC	TVD Reference:	20' KB @ 4914.00usft
Project:	WELD COUNTY, CO	MD Reference:	20' KB @ 4914.00usft
Site:	S17-T7N-R65W (DEHAAN)	North Reference:	Grid
Well:	DEHAAN 2X-HNC-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
15,200.00	90.32	91.08	7,244.49	75.79	7,278.46	7,278.72	0.00	0.00	
15,300.00	90.32	91.08	7,243.94	73.89	7,378.44	7,378.69	0.00	0.00	
15,400.00	90.32	91.08	7,243.38	72.00	7,478.42	7,478.66	0.00	0.00	
15,500.00	90.32	91.08	7,242.83	70.11	7,578.40	7,578.63	0.00	0.00	
15,600.00	90.32	91.08	7,242.28	68.21	7,678.38	7,678.60	0.00	0.00	
15,700.00	90.32	91.08	7,241.73	66.32	7,778.36	7,778.57	0.00	0.00	
15,800.00	90.32	91.08	7,241.18	64.43	7,878.34	7,878.54	0.00	0.00	
15,900.00	90.32	91.08	7,240.63	62.53	7,978.32	7,978.52	0.00	0.00	
16,000.00	90.32	91.08	7,240.08	60.64	8,078.30	8,078.49	0.00	0.00	
16,100.00	90.32	91.08	7,239.53	58.75	8,178.28	8,178.46	0.00	0.00	
16,200.00	90.32	91.08	7,238.98	56.85	8,278.26	8,278.43	0.00	0.00	
16,300.00	90.32	91.08	7,238.43	54.96	8,378.24	8,378.40	0.00	0.00	
16,400.00	90.32	91.08	7,237.88	53.06	8,478.22	8,478.37	0.00	0.00	
16,500.00	90.32	91.08	7,237.33	51.17	8,578.20	8,578.34	0.00	0.00	
16,600.00	90.32	91.08	7,236.77	49.28	8,678.18	8,678.32	0.00	0.00	
16,700.00	90.32	91.08	7,236.22	47.38	8,778.16	8,778.29	0.00	0.00	
16,800.00	90.32	91.08	7,235.67	45.49	8,878.14	8,878.26	0.00	0.00	
16,900.00	90.32	91.08	7,235.12	43.60	8,978.12	8,978.23	0.00	0.00	
17,000.00	90.32	91.08	7,234.57	41.70	9,078.11	9,078.20	0.00	0.00	
17,100.00	90.32	91.08	7,234.02	39.81	9,178.09	9,178.17	0.00	0.00	
17,103.71	90.32	91.08	7,234.00	39.74	9,181.80	9,181.89	0.00	0.00	DEHAAN N 2X-HNC-16-07-65 BHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
DEHAAN N 2X-HNC-16-	0.00	0.00	7,229.00	220.12	-438.18	1,454,914.59	3,223,667.72	40.579352	-104.694773
- plan misses target center by 0.36usft at 7474.24usft MD (7229.32 TVD, 220.14 N, -438.33 E)									
- Point									
DEHAAN N 2X-HNC-16-	0.00	0.00	7,234.00	39.74	9,181.80	1,454,734.21	3,233,287.70	40.578612	-104.660148
- plan hits target center									
- Point									