

BAYSWATER EXPLORATION & PRODUCTION

WELD COUNTY

SEC 17-T7N-R65W

DEHAAN 8X-HNB-16-07-65

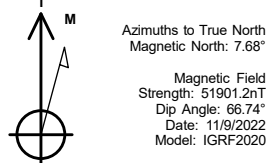
OWB

Plan: PROPOSAL 1

Standard Planning Report

10 November, 2022

Project: WELD COUNTY
Site: SEC 17-T7N-R65W
Well: DEHAAN 8X-HNB-16-07-65
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: DEHAAN 8X-HNB-16-07-65

+N/-S	+E/-W	Northing	Easting	4906.00	Latitude	Longitude	Slot
0.00	0.00	1451690.10	3223797.24		40.570498°N	104.694412°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	Start Build 2.00
516.72	6.33	265.96	516.08	-1.23	-17.45	-17.39	17.49	Start 6077.20 hold at 516.72 MD
6593.92	6.33	265.96	6556.18	-48.45	-686.30	-684.06	688.01	Start DLS 10.00 TFO -174.28
7556.96	90.00	91.64	7192.00	-71.76	-117.24	-114.53	1265.28	Start 9556.26 hold at 7556.96 MD
17113.22	90.00	91.64	7192.00	-345.75	9435.10	9441.43	10821.54	TD at 17113.22

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	516.72	6.33	265.96	516.08	-1.23	-17.45	2.00	265.96	-17.39	
4	6593.92	6.33	265.96	6556.18	-48.45	-686.30	0.00	0.00	-684.06	
5	7556.96	90.00	91.64	7192.00	-71.76	-117.24	10.00	-174.28	-114.53	LP-DEHAAN 8;
6	17113.22	90.00	91.64	7192.00	-345.75	9435.10	0.00	0.00	9441.43	PBHL-DEHAAN

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP-DEHAAN 8X-HNB	7192.00	-71.76	-117.24	1451617.28	3223680.66	40.570301°N	104.694834°W
- plan hits target center							
PBHL-DEHAAN 8X-HNB	7192.00	-345.75	9435.10	1451430.09	3233234.83	40.569544°N	104.660451°W
- plan hits target center							

PROJECT DETAILS: WELD COUNTY

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

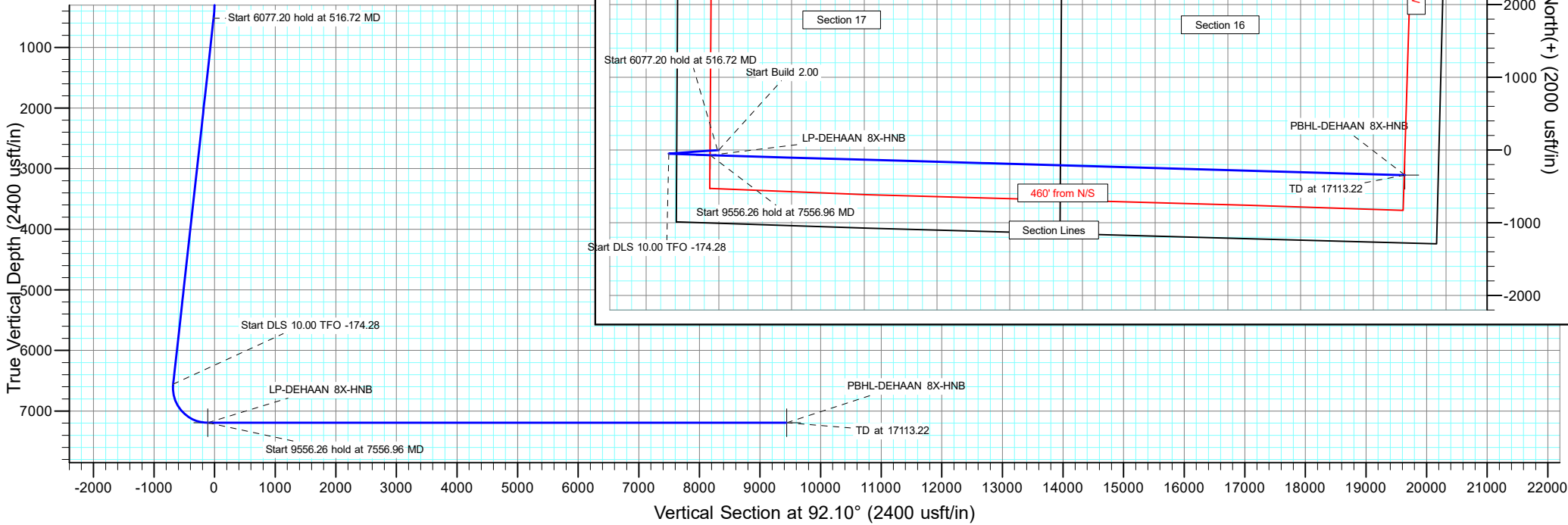
FORMATION TOP DETAILS

No formation data is available

SHL:
1006' FSL, 577' FWL
Sec 17-T7N-R65W

LP:
930' FSL, 460' FWL
Sec 17-T7N-R65W

BHL:
931' FSL, 460' FEL
Sec 16-T7N-R65W



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 8X-HNB-16-07-65
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 4929.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 4929.00usft
Site:	SEC 17-T7N-R65W	North Reference:	True
Well:	DEHAAN 8X-HNB-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	SEC 17-T7N-R65W		
Site Position:		Northing:	1,450,698.32 usft
From:	Lat/Long	Easting:	3,223,224.19 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	40.567790°N
		Longitude:	104.696507°W

Well	DEHAAN 8X-HNB-16-07-65		
Well Position	+N/-S	0.00 usft	Northing: 1,451,690.10 usft
	+E/-W	0.00 usft	Easting: 3,223,797.24 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.52 °	Ground Level:	4,906.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/9/2022	7.68	66.74	51,901.20064711

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	92.10

Plan Survey Tool Program	Date	11/10/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,113.22 PROPOSAL 1 (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
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	
516.72	6.33	265.96	516.08	-1.23	-17.45	2.00	2.00	0.00	265.96	
6,593.92	6.33	265.96	6,556.18	-48.45	-686.30	0.00	0.00	0.00	0.00	
7,556.96	90.00	91.64	7,192.00	-71.76	-117.24	10.00	8.69	-18.10	-174.28	LP-DEHAAN 8X-HNB
17,113.22	90.00	91.64	7,192.00	-345.75	9,435.10	0.00	0.00	0.00	0.00	PBHL-DEHAAN 8X-H

Planning Report

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Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 4929.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 4929.00usft
Site:	SEC 17-T7N-R65W	North Reference:	True
Well:	DEHAAN 8X-HNB-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
Start Build 2.00									
300.00	2.00	265.96	299.98	-0.12	-1.74	-1.74	2.00	2.00	0.00
400.00	4.00	265.96	399.84	-0.49	-6.96	-6.94	2.00	2.00	0.00
500.00	6.00	265.96	499.45	-1.11	-15.65	-15.60	2.00	2.00	0.00
516.72	6.33	265.96	516.08	-1.23	-17.45	-17.39	2.00	2.00	0.00
Start 6077.20 hold at 516.72 MD									
600.00	6.33	265.96	598.85	-1.88	-26.61	-26.53	0.00	0.00	0.00
700.00	6.33	265.96	698.24	-2.66	-37.62	-37.50	0.00	0.00	0.00
800.00	6.33	265.96	797.63	-3.43	-48.62	-48.47	0.00	0.00	0.00
900.00	6.33	265.96	897.02	-4.21	-59.63	-59.44	0.00	0.00	0.00
1,000.00	6.33	265.96	996.40	-4.99	-70.64	-70.41	0.00	0.00	0.00
1,100.00	6.33	265.96	1,095.79	-5.76	-81.64	-81.38	0.00	0.00	0.00
1,200.00	6.33	265.96	1,195.18	-6.54	-92.65	-92.35	0.00	0.00	0.00
1,300.00	6.33	265.96	1,294.57	-7.32	-103.65	-103.32	0.00	0.00	0.00
1,400.00	6.33	265.96	1,393.96	-8.09	-114.66	-114.29	0.00	0.00	0.00
1,500.00	6.33	265.96	1,493.35	-8.87	-125.67	-125.26	0.00	0.00	0.00
1,600.00	6.33	265.96	1,592.74	-9.65	-136.67	-136.23	0.00	0.00	0.00
1,700.00	6.33	265.96	1,692.13	-10.43	-147.68	-147.20	0.00	0.00	0.00
1,800.00	6.33	265.96	1,791.52	-11.20	-158.68	-158.17	0.00	0.00	0.00
1,900.00	6.33	265.96	1,890.91	-11.98	-169.69	-169.14	0.00	0.00	0.00
2,000.00	6.33	265.96	1,990.30	-12.76	-180.69	-180.11	0.00	0.00	0.00
2,100.00	6.33	265.96	2,089.69	-13.53	-191.70	-191.08	0.00	0.00	0.00
2,200.00	6.33	265.96	2,189.08	-14.31	-202.71	-202.05	0.00	0.00	0.00
2,300.00	6.33	265.96	2,288.47	-15.09	-213.71	-213.02	0.00	0.00	0.00
2,400.00	6.33	265.96	2,387.86	-15.86	-224.72	-223.99	0.00	0.00	0.00
2,500.00	6.33	265.96	2,487.25	-16.64	-235.72	-234.96	0.00	0.00	0.00
2,600.00	6.33	265.96	2,586.64	-17.42	-246.73	-245.93	0.00	0.00	0.00
2,700.00	6.33	265.96	2,686.03	-18.20	-257.74	-256.90	0.00	0.00	0.00
2,800.00	6.33	265.96	2,785.42	-18.97	-268.74	-267.87	0.00	0.00	0.00
2,900.00	6.33	265.96	2,884.80	-19.75	-279.75	-278.84	0.00	0.00	0.00
3,000.00	6.33	265.96	2,984.19	-20.53	-290.75	-289.81	0.00	0.00	0.00
3,100.00	6.33	265.96	3,083.58	-21.30	-301.76	-300.78	0.00	0.00	0.00
3,200.00	6.33	265.96	3,182.97	-22.08	-312.77	-311.75	0.00	0.00	0.00
3,300.00	6.33	265.96	3,282.36	-22.86	-323.77	-322.72	0.00	0.00	0.00
3,400.00	6.33	265.96	3,381.75	-23.63	-334.78	-333.69	0.00	0.00	0.00
3,500.00	6.33	265.96	3,481.14	-24.41	-345.78	-344.66	0.00	0.00	0.00
3,600.00	6.33	265.96	3,580.53	-25.19	-356.79	-355.63	0.00	0.00	0.00
3,700.00	6.33	265.96	3,679.92	-25.97	-367.80	-366.60	0.00	0.00	0.00
3,800.00	6.33	265.96	3,779.31	-26.74	-378.80	-377.57	0.00	0.00	0.00
3,900.00	6.33	265.96	3,878.70	-27.52	-389.81	-388.54	0.00	0.00	0.00
4,000.00	6.33	265.96	3,978.09	-28.30	-400.81	-399.51	0.00	0.00	0.00
4,100.00	6.33	265.96	4,077.48	-29.07	-411.82	-410.48	0.00	0.00	0.00
4,200.00	6.33	265.96	4,176.87	-29.85	-422.82	-421.45	0.00	0.00	0.00
4,300.00	6.33	265.96	4,276.26	-30.63	-433.83	-432.42	0.00	0.00	0.00
4,400.00	6.33	265.96	4,375.65	-31.40	-444.84	-443.39	0.00	0.00	0.00
4,500.00	6.33	265.96	4,475.04	-32.18	-455.84	-454.36	0.00	0.00	0.00
4,600.00	6.33	265.96	4,574.43	-32.96	-466.85	-465.33	0.00	0.00	0.00
4,700.00	6.33	265.96	4,673.82	-33.74	-477.85	-476.30	0.00	0.00	0.00
4,800.00	6.33	265.96	4,773.20	-34.51	-488.86	-487.27	0.00	0.00	0.00
4,900.00	6.33	265.96	4,872.59	-35.29	-499.87	-498.24	0.00	0.00	0.00
5,000.00	6.33	265.96	4,971.98	-36.07	-510.87	-509.21	0.00	0.00	0.00

Planning Report

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Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 4929.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 4929.00usft
Site:	SEC 17-T7N-R65W	North Reference:	True
Well:	DEHAAN 8X-HNB-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,100.00	6.33	265.96	5,071.37	-36.84	-521.88	-520.18	0.00	0.00	0.00	
5,200.00	6.33	265.96	5,170.76	-37.62	-532.88	-531.15	0.00	0.00	0.00	
5,300.00	6.33	265.96	5,270.15	-38.40	-543.89	-542.12	0.00	0.00	0.00	
5,400.00	6.33	265.96	5,369.54	-39.17	-554.90	-553.09	0.00	0.00	0.00	
5,500.00	6.33	265.96	5,468.93	-39.95	-565.90	-564.06	0.00	0.00	0.00	
5,600.00	6.33	265.96	5,568.32	-40.73	-576.91	-575.03	0.00	0.00	0.00	
5,700.00	6.33	265.96	5,667.71	-41.51	-587.91	-586.00	0.00	0.00	0.00	
5,800.00	6.33	265.96	5,767.10	-42.28	-598.92	-596.97	0.00	0.00	0.00	
5,900.00	6.33	265.96	5,866.49	-43.06	-609.93	-607.94	0.00	0.00	0.00	
6,000.00	6.33	265.96	5,965.88	-43.84	-620.93	-618.91	0.00	0.00	0.00	
6,100.00	6.33	265.96	6,065.27	-44.61	-631.94	-629.88	0.00	0.00	0.00	
6,200.00	6.33	265.96	6,164.66	-45.39	-642.94	-640.85	0.00	0.00	0.00	
6,300.00	6.33	265.96	6,264.05	-46.17	-653.95	-651.82	0.00	0.00	0.00	
6,400.00	6.33	265.96	6,363.44	-46.94	-664.95	-662.79	0.00	0.00	0.00	
6,500.00	6.33	265.96	6,462.83	-47.72	-675.96	-673.76	0.00	0.00	0.00	
6,593.92	6.33	265.96	6,556.18	-48.45	-686.30	-684.06	0.00	0.00	0.00	
Start DLS 10.00 TFO -174.28										
6,600.00	5.73	265.36	6,562.22	-48.50	-686.93	-684.70	10.00	-9.95	-9.97	
6,700.00	4.35	99.95	6,662.08	-49.56	-688.18	-685.90	10.00	-1.38	-165.41	
6,800.00	14.32	94.11	6,760.63	-51.11	-672.07	-669.75	10.00	9.97	-5.84	
6,900.00	24.31	93.04	6,854.88	-53.09	-639.10	-636.72	10.00	9.99	-1.07	
7,000.00	34.31	92.57	6,941.97	-55.45	-590.26	-587.83	10.00	10.00	-0.47	
7,100.00	44.31	92.29	7,019.25	-58.11	-527.05	-524.57	10.00	10.00	-0.28	
7,200.00	54.31	92.10	7,084.36	-61.00	-451.38	-448.84	10.00	10.00	-0.19	
7,300.00	64.31	91.95	7,135.34	-64.02	-365.55	-362.96	10.00	10.00	-0.15	
7,400.00	74.31	91.82	7,170.64	-67.08	-272.17	-269.53	10.00	10.00	-0.13	
7,500.00	84.30	91.71	7,189.17	-70.10	-174.08	-171.39	10.00	10.00	-0.11	
7,556.96	90.00	91.64	7,192.00	-71.76	-117.24	-114.53	10.00	10.00	-0.11	
Start 9556.26 hold at 7556.96 MD										
7,600.00	90.00	91.64	7,192.00	-73.00	-74.21	-71.49	0.00	0.00	0.00	
7,700.00	90.00	91.64	7,192.00	-75.86	25.75	28.51	0.00	0.00	0.00	
7,800.00	90.00	91.64	7,192.00	-78.73	125.71	128.50	0.00	0.00	0.00	
7,900.00	90.00	91.64	7,192.00	-81.60	225.66	228.50	0.00	0.00	0.00	
8,000.00	90.00	91.64	7,192.00	-84.47	325.62	328.50	0.00	0.00	0.00	
8,100.00	90.00	91.64	7,192.00	-87.33	425.58	428.49	0.00	0.00	0.00	
8,200.00	90.00	91.64	7,192.00	-90.20	525.54	528.49	0.00	0.00	0.00	
8,300.00	90.00	91.64	7,192.00	-93.07	625.50	628.49	0.00	0.00	0.00	
8,400.00	90.00	91.64	7,192.00	-95.93	725.46	728.49	0.00	0.00	0.00	
8,500.00	90.00	91.64	7,192.00	-98.80	825.42	828.48	0.00	0.00	0.00	
8,600.00	90.00	91.64	7,192.00	-101.67	925.38	928.48	0.00	0.00	0.00	
8,700.00	90.00	91.64	7,192.00	-104.54	1,025.34	1,028.48	0.00	0.00	0.00	
8,800.00	90.00	91.64	7,192.00	-107.40	1,125.29	1,128.47	0.00	0.00	0.00	
8,900.00	90.00	91.64	7,192.00	-110.27	1,225.25	1,228.47	0.00	0.00	0.00	
9,000.00	90.00	91.64	7,192.00	-113.14	1,325.21	1,328.47	0.00	0.00	0.00	
9,100.00	90.00	91.64	7,192.00	-116.00	1,425.17	1,428.46	0.00	0.00	0.00	
9,200.00	90.00	91.64	7,192.00	-118.87	1,525.13	1,528.46	0.00	0.00	0.00	
9,300.00	90.00	91.64	7,192.00	-121.74	1,625.09	1,628.46	0.00	0.00	0.00	
9,400.00	90.00	91.64	7,192.00	-124.60	1,725.05	1,728.45	0.00	0.00	0.00	
9,500.00	90.00	91.64	7,192.00	-127.47	1,825.01	1,828.45	0.00	0.00	0.00	
9,600.00	90.00	91.64	7,192.00	-130.34	1,924.97	1,928.45	0.00	0.00	0.00	
9,700.00	90.00	91.64	7,192.00	-133.21	2,024.92	2,028.44	0.00	0.00	0.00	
9,800.00	90.00	91.64	7,192.00	-136.07	2,124.88	2,128.44	0.00	0.00	0.00	
9,900.00	90.00	91.64	7,192.00	-138.94	2,224.84	2,228.44	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 8X-HNB-16-07-65
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 4929.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 4929.00usft
Site:	SEC 17-T7N-R65W	North Reference:	True
Well:	DEHAAN 8X-HNB-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,000.00	90.00	91.64	7,192.00	-141.81	2,324.80	2,328.43	0.00	0.00	0.00	
10,100.00	90.00	91.64	7,192.00	-144.67	2,424.76	2,428.43	0.00	0.00	0.00	
10,200.00	90.00	91.64	7,192.00	-147.54	2,524.72	2,528.43	0.00	0.00	0.00	
10,300.00	90.00	91.64	7,192.00	-150.41	2,624.68	2,628.43	0.00	0.00	0.00	
10,400.00	90.00	91.64	7,192.00	-153.28	2,724.64	2,728.42	0.00	0.00	0.00	
10,500.00	90.00	91.64	7,192.00	-156.14	2,824.60	2,828.42	0.00	0.00	0.00	
10,600.00	90.00	91.64	7,192.00	-159.01	2,924.55	2,928.42	0.00	0.00	0.00	
10,700.00	90.00	91.64	7,192.00	-161.88	3,024.51	3,028.41	0.00	0.00	0.00	
10,800.00	90.00	91.64	7,192.00	-164.74	3,124.47	3,128.41	0.00	0.00	0.00	
10,900.00	90.00	91.64	7,192.00	-167.61	3,224.43	3,228.41	0.00	0.00	0.00	
11,000.00	90.00	91.64	7,192.00	-170.48	3,324.39	3,328.40	0.00	0.00	0.00	
11,100.00	90.00	91.64	7,192.00	-173.34	3,424.35	3,428.40	0.00	0.00	0.00	
11,200.00	90.00	91.64	7,192.00	-176.21	3,524.31	3,528.40	0.00	0.00	0.00	
11,300.00	90.00	91.64	7,192.00	-179.08	3,624.27	3,628.39	0.00	0.00	0.00	
11,400.00	90.00	91.64	7,192.00	-181.95	3,724.23	3,728.39	0.00	0.00	0.00	
11,500.00	90.00	91.64	7,192.00	-184.81	3,824.18	3,828.39	0.00	0.00	0.00	
11,600.00	90.00	91.64	7,192.00	-187.68	3,924.14	3,928.38	0.00	0.00	0.00	
11,700.00	90.00	91.64	7,192.00	-190.55	4,024.10	4,028.38	0.00	0.00	0.00	
11,800.00	90.00	91.64	7,192.00	-193.41	4,124.06	4,128.38	0.00	0.00	0.00	
11,900.00	90.00	91.64	7,192.00	-196.28	4,224.02	4,228.37	0.00	0.00	0.00	
12,000.00	90.00	91.64	7,192.00	-199.15	4,323.98	4,328.37	0.00	0.00	0.00	
12,100.00	90.00	91.64	7,192.00	-202.02	4,423.94	4,428.37	0.00	0.00	0.00	
12,200.00	90.00	91.64	7,192.00	-204.88	4,523.90	4,528.37	0.00	0.00	0.00	
12,300.00	90.00	91.64	7,192.00	-207.75	4,623.86	4,628.36	0.00	0.00	0.00	
12,400.00	90.00	91.64	7,192.00	-210.62	4,723.81	4,728.36	0.00	0.00	0.00	
12,500.00	90.00	91.64	7,192.00	-213.48	4,823.77	4,828.36	0.00	0.00	0.00	
12,600.00	90.00	91.64	7,192.00	-216.35	4,923.73	4,928.35	0.00	0.00	0.00	
12,700.00	90.00	91.64	7,192.00	-219.22	5,023.69	5,028.35	0.00	0.00	0.00	
12,800.00	90.00	91.64	7,192.00	-222.09	5,123.65	5,128.35	0.00	0.00	0.00	
12,900.00	90.00	91.64	7,192.00	-224.95	5,223.61	5,228.34	0.00	0.00	0.00	
13,000.00	90.00	91.64	7,192.00	-227.82	5,323.57	5,328.34	0.00	0.00	0.00	
13,100.00	90.00	91.64	7,192.00	-230.69	5,423.53	5,428.34	0.00	0.00	0.00	
13,200.00	90.00	91.64	7,192.00	-233.55	5,523.49	5,528.33	0.00	0.00	0.00	
13,300.00	90.00	91.64	7,192.00	-236.42	5,623.44	5,628.33	0.00	0.00	0.00	
13,400.00	90.00	91.64	7,192.00	-239.29	5,723.40	5,728.33	0.00	0.00	0.00	
13,500.00	90.00	91.64	7,192.00	-242.15	5,823.36	5,828.32	0.00	0.00	0.00	
13,600.00	90.00	91.64	7,192.00	-245.02	5,923.32	5,928.32	0.00	0.00	0.00	
13,700.00	90.00	91.64	7,192.00	-247.89	6,023.28	6,028.32	0.00	0.00	0.00	
13,800.00	90.00	91.64	7,192.00	-250.76	6,123.24	6,128.31	0.00	0.00	0.00	
13,900.00	90.00	91.64	7,192.00	-253.62	6,223.20	6,228.31	0.00	0.00	0.00	
14,000.00	90.00	91.64	7,192.00	-256.49	6,323.16	6,328.31	0.00	0.00	0.00	
14,100.00	90.00	91.64	7,192.00	-259.36	6,423.12	6,428.31	0.00	0.00	0.00	
14,200.00	90.00	91.64	7,192.00	-262.22	6,523.07	6,528.30	0.00	0.00	0.00	
14,300.00	90.00	91.64	7,192.00	-265.09	6,623.03	6,628.30	0.00	0.00	0.00	
14,400.00	90.00	91.64	7,192.00	-267.96	6,722.99	6,728.30	0.00	0.00	0.00	
14,500.00	90.00	91.64	7,192.00	-270.83	6,822.95	6,828.29	0.00	0.00	0.00	
14,600.00	90.00	91.64	7,192.00	-273.69	6,922.91	6,928.29	0.00	0.00	0.00	
14,700.00	90.00	91.64	7,192.00	-276.56	7,022.87	7,028.29	0.00	0.00	0.00	
14,800.00	90.00	91.64	7,192.00	-279.43	7,122.83	7,128.28	0.00	0.00	0.00	
14,900.00	90.00	91.64	7,192.00	-282.29	7,222.79	7,228.28	0.00	0.00	0.00	
15,000.00	90.00	91.64	7,192.00	-285.16	7,322.75	7,328.28	0.00	0.00	0.00	
15,100.00	90.00	91.64	7,192.00	-288.03	7,422.70	7,428.27	0.00	0.00	0.00	
15,200.00	90.00	91.64	7,192.00	-290.90	7,522.66	7,528.27	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 8X-HNB-16-07-65
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 4929.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 4929.00usft
Site:	SEC 17-T7N-R65W	North Reference:	True
Well:	DEHAAN 8X-HNB-16-07-65	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,300.00	90.00	91.64	7,192.00	-293.76	7,622.62	7,628.27	0.00	0.00	0.00	
15,400.00	90.00	91.64	7,192.00	-296.63	7,722.58	7,728.26	0.00	0.00	0.00	
15,500.00	90.00	91.64	7,192.00	-299.50	7,822.54	7,828.26	0.00	0.00	0.00	
15,600.00	90.00	91.64	7,192.00	-302.36	7,922.50	7,928.26	0.00	0.00	0.00	
15,700.00	90.00	91.64	7,192.00	-305.23	8,022.46	8,028.25	0.00	0.00	0.00	
15,800.00	90.00	91.64	7,192.00	-308.10	8,122.42	8,128.25	0.00	0.00	0.00	
15,900.00	90.00	91.64	7,192.00	-310.96	8,222.38	8,228.25	0.00	0.00	0.00	
16,000.00	90.00	91.64	7,192.00	-313.83	8,322.33	8,328.25	0.00	0.00	0.00	
16,100.00	90.00	91.64	7,192.00	-316.70	8,422.29	8,428.24	0.00	0.00	0.00	
16,200.00	90.00	91.64	7,192.00	-319.57	8,522.25	8,528.24	0.00	0.00	0.00	
16,300.00	90.00	91.64	7,192.00	-322.43	8,622.21	8,628.24	0.00	0.00	0.00	
16,400.00	90.00	91.64	7,192.00	-325.30	8,722.17	8,728.23	0.00	0.00	0.00	
16,500.00	90.00	91.64	7,192.00	-328.17	8,822.13	8,828.23	0.00	0.00	0.00	
16,600.00	90.00	91.64	7,192.00	-331.03	8,922.09	8,928.23	0.00	0.00	0.00	
16,700.00	90.00	91.64	7,192.00	-333.90	9,022.05	9,028.22	0.00	0.00	0.00	
16,800.00	90.00	91.64	7,192.00	-336.77	9,122.01	9,128.22	0.00	0.00	0.00	
16,900.00	90.00	91.64	7,192.00	-339.64	9,221.96	9,228.22	0.00	0.00	0.00	
17,000.00	90.00	91.64	7,192.00	-342.50	9,321.92	9,328.21	0.00	0.00	0.00	
17,100.00	90.00	91.64	7,192.00	-345.37	9,421.88	9,428.21	0.00	0.00	0.00	
17,113.22	90.00	91.64	7,192.00	-345.75	9,435.10	9,441.43	0.00	0.00	0.00	
TD at 17113.22										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-DEHAAN 8X-HNE - plan hits target center - Point	0.00	0.00	7,192.00	-345.75	9,435.10	1,451,430.09	3,233,234.83	40.569544°N	104.660451°W
LP-DEHAAN 8X-HNB - plan hits target center - Point	0.00	0.00	7,192.00	-71.76	-117.24	1,451,617.28	3,223,680.66	40.570301°N	104.694834°W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	Start Build 2.00	
516.72	516.08	-1.23	-17.45	Start 6077.20 hold at 516.72 MD	
6,593.92	6,556.18	-48.45	-686.30	Start DLS 10.00 TFO -174.28	
7,556.96	7,192.00	-71.76	-117.24	Start 9556.26 hold at 7556.96 MD	
17,113.22	7,192.00	-345.75	9,435.10	TD at 17113.22	