

BAYSWATER EXPLORATION & PRODUCTION

WELD COUNTY

SEC 17-T7N-R65W

DEHAAN 6X-HNB-16-07-65

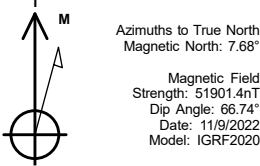
OWB

Plan: PROPOSAL 1

Standard Planning Report

15 November, 2022

Project: WELD COUNTY
Site: SEC 17-T7N-R65W
Well: DEHAAN 6X-HNB-16-07-65
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: DEHAAN 6X-HNB-16-07-65

+N/-S	+E/-W	Northing	Easting	4906.00	Latitude	Longitude	Slot
0.00	0.00	1451809.64	3223761.15		40.570827°N	104.694538°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	Start Build 2.00
1577.24	23.54	345.27	1544.38	230.66	-60.64	-2.22	238.50	Start 5737.42 hold at 1577.24 MD
7314.66	23.54	345.27	6804.15	2447.25	-643.37	-23.52	2530.40	Start DLS 10.00 TFO 105.01
8279.03	90.00	91.57	7392.00	2677.41	-67.50	591.21	3210.53	Start 9613.44 hold at 8279.03 MD
17892.47	90.00	91.57	7392.00	2414.04	9542.33	9842.95	12823.97	TD at 17892.47

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	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	1577.24	23.54	345.27	1544.38	230.66	-60.64	2.00	345.27	-2.22	
4	7314.66	23.54	345.27	6804.15	2447.25	-643.37	0.00	0.00	-23.52	
5	8279.03	90.00	91.57	7392.00	2677.41	-67.50	10.00	105.01	591.21	LP-DEHAAN 6;
6	17892.47	90.00	91.57	7392.00	2414.04	9542.33	0.00	0.00	9842.95	PBHL-DEHAAN

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP-DEHAAN 6X-HNB	7392.00	2677.41	-67.50	1454486.25	3223669.33	40.578176°N	104.694781°W
- plan hits target center							
PBHL-DEHAAN 6X-HNB	7392.00	2414.04	9542.33	1454310.18	3233280.90	40.577448°N	104.660187°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

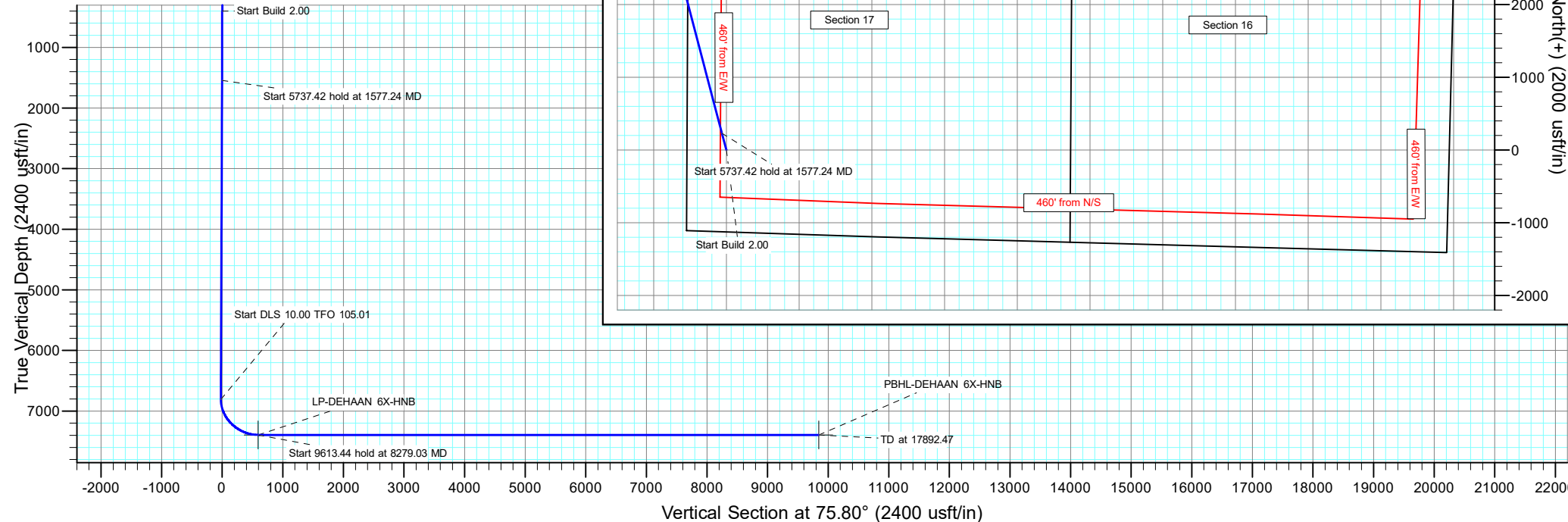
FORMATION TOP DETAILS

No formation data is available

SHL:
1124' FSL, 541' FWL
Sec 17-T7N-R65W

LP:
1486' FNL, 460' FWL
Sec 17-T7N-R65W

BHL:
1480' FNL, 460' FEL
Sec 16-T7N-R65W



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 6X-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 6X-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 6X-HNB-16-07-65		
Well Position	+N/-S	0.00 usft	Northing: 1,451,809.64 usft
	+E/-W	0.00 usft	Easting: 3,223,761.15 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	51,901.35867196

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	75.80

Plan Survey Tool Program	Date	11/15/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,892.47	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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,577.24	23.54	345.27	1,544.38	230.66	-60.64	2.00	2.00	0.00	345.27	
7,314.66	23.54	345.27	6,804.15	2,447.25	-643.37	0.00	0.00	0.00	0.00	
8,279.03	90.00	91.57	7,392.00	2,677.41	-67.50	10.00	6.89	11.02	105.01	LP-DEHAAN 6X-HNB
17,892.47	90.00	91.57	7,392.00	2,414.04	9,542.33	0.00	0.00	0.00	0.00	PBHL-DEHAAN 6X-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 6X-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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
500.00	2.00	345.27	499.98	1.69	-0.44	-0.02	2.00	2.00	0.00
600.00	4.00	345.27	599.84	6.75	-1.77	-0.06	2.00	2.00	0.00
700.00	6.00	345.27	699.45	15.18	-3.99	-0.15	2.00	2.00	0.00
800.00	8.00	345.27	798.70	26.96	-7.09	-0.26	2.00	2.00	0.00
900.00	10.00	345.27	897.47	42.09	-11.07	-0.40	2.00	2.00	0.00
1,000.00	12.00	345.27	995.62	60.55	-15.92	-0.58	2.00	2.00	0.00
1,100.00	14.00	345.27	1,093.06	82.30	-21.64	-0.79	2.00	2.00	0.00
1,200.00	16.00	345.27	1,189.64	107.33	-28.22	-1.03	2.00	2.00	0.00
1,300.00	18.00	345.27	1,285.27	135.61	-35.65	-1.30	2.00	2.00	0.00
1,400.00	20.00	345.27	1,379.82	167.09	-43.93	-1.61	2.00	2.00	0.00
1,500.00	22.00	345.27	1,473.17	201.75	-53.04	-1.94	2.00	2.00	0.00
1,577.24	23.54	345.27	1,544.38	230.66	-60.64	-2.22	2.00	2.00	0.00
Start 5737.42 hold at 1577.24 MD									
1,600.00	23.54	345.27	1,565.25	239.46	-62.95	-2.30	0.00	0.00	0.00
1,700.00	23.54	345.27	1,656.93	278.09	-73.11	-2.67	0.00	0.00	0.00
1,800.00	23.54	345.27	1,748.60	316.72	-83.26	-3.04	0.00	0.00	0.00
1,900.00	23.54	345.27	1,840.28	355.36	-93.42	-3.42	0.00	0.00	0.00
2,000.00	23.54	345.27	1,931.95	393.99	-103.58	-3.79	0.00	0.00	0.00
2,100.00	23.54	345.27	2,023.62	432.62	-113.73	-4.16	0.00	0.00	0.00
2,200.00	23.54	345.27	2,115.30	471.26	-123.89	-4.53	0.00	0.00	0.00
2,300.00	23.54	345.27	2,206.97	509.89	-134.05	-4.90	0.00	0.00	0.00
2,400.00	23.54	345.27	2,298.65	548.53	-144.20	-5.27	0.00	0.00	0.00
2,500.00	23.54	345.27	2,390.32	587.16	-154.36	-5.64	0.00	0.00	0.00
2,600.00	23.54	345.27	2,482.00	625.79	-164.52	-6.01	0.00	0.00	0.00
2,700.00	23.54	345.27	2,573.67	664.43	-174.67	-6.39	0.00	0.00	0.00
2,800.00	23.54	345.27	2,665.35	703.06	-184.83	-6.76	0.00	0.00	0.00
2,900.00	23.54	345.27	2,757.02	741.70	-194.99	-7.13	0.00	0.00	0.00
3,000.00	23.54	345.27	2,848.70	780.33	-205.14	-7.50	0.00	0.00	0.00
3,100.00	23.54	345.27	2,940.37	818.96	-215.30	-7.87	0.00	0.00	0.00
3,200.00	23.54	345.27	3,032.05	857.60	-225.46	-8.24	0.00	0.00	0.00
3,300.00	23.54	345.27	3,123.72	896.23	-235.61	-8.61	0.00	0.00	0.00
3,400.00	23.54	345.27	3,215.40	934.87	-245.77	-8.98	0.00	0.00	0.00
3,500.00	23.54	345.27	3,307.07	973.50	-255.93	-9.36	0.00	0.00	0.00
3,600.00	23.54	345.27	3,398.75	1,012.13	-266.08	-9.73	0.00	0.00	0.00
3,700.00	23.54	345.27	3,490.42	1,050.77	-276.24	-10.10	0.00	0.00	0.00
3,800.00	23.54	345.27	3,582.10	1,089.40	-286.40	-10.47	0.00	0.00	0.00
3,900.00	23.54	345.27	3,673.77	1,128.03	-296.55	-10.84	0.00	0.00	0.00
4,000.00	23.54	345.27	3,765.45	1,166.67	-306.71	-11.21	0.00	0.00	0.00
4,100.00	23.54	345.27	3,857.12	1,205.30	-316.87	-11.58	0.00	0.00	0.00
4,200.00	23.54	345.27	3,948.80	1,243.94	-327.02	-11.95	0.00	0.00	0.00
4,300.00	23.54	345.27	4,040.47	1,282.57	-337.18	-12.33	0.00	0.00	0.00
4,400.00	23.54	345.27	4,132.14	1,321.20	-347.34	-12.70	0.00	0.00	0.00
4,500.00	23.54	345.27	4,223.82	1,359.84	-357.49	-13.07	0.00	0.00	0.00
4,600.00	23.54	345.27	4,315.49	1,398.47	-367.65	-13.44	0.00	0.00	0.00
4,700.00	23.54	345.27	4,407.17	1,437.11	-377.81	-13.81	0.00	0.00	0.00
4,800.00	23.54	345.27	4,498.84	1,475.74	-387.96	-14.18	0.00	0.00	0.00
4,900.00	23.54	345.27	4,590.52	1,514.37	-398.12	-14.55	0.00	0.00	0.00
5,000.00	23.54	345.27	4,682.19	1,553.01	-408.28	-14.92	0.00	0.00	0.00
5,100.00	23.54	345.27	4,773.87	1,591.64	-418.43	-15.30	0.00	0.00	0.00
5,200.00	23.54	345.27	4,865.54	1,630.27	-428.59	-15.67	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 6X-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)	
5,300.00	23.54	345.27	4,957.22	1,668.91	-438.75	-16.04	0.00	0.00	0.00	
5,400.00	23.54	345.27	5,048.89	1,707.54	-448.90	-16.41	0.00	0.00	0.00	
5,500.00	23.54	345.27	5,140.57	1,746.18	-459.06	-16.78	0.00	0.00	0.00	
5,600.00	23.54	345.27	5,232.24	1,784.81	-469.22	-17.15	0.00	0.00	0.00	
5,700.00	23.54	345.27	5,323.92	1,823.44	-479.37	-17.52	0.00	0.00	0.00	
5,800.00	23.54	345.27	5,415.59	1,862.08	-489.53	-17.89	0.00	0.00	0.00	
5,900.00	23.54	345.27	5,507.27	1,900.71	-499.69	-18.27	0.00	0.00	0.00	
6,000.00	23.54	345.27	5,598.94	1,939.35	-509.84	-18.64	0.00	0.00	0.00	
6,100.00	23.54	345.27	5,690.62	1,977.98	-520.00	-19.01	0.00	0.00	0.00	
6,200.00	23.54	345.27	5,782.29	2,016.61	-530.16	-19.38	0.00	0.00	0.00	
6,300.00	23.54	345.27	5,873.97	2,055.25	-540.31	-19.75	0.00	0.00	0.00	
6,400.00	23.54	345.27	5,965.64	2,093.88	-550.47	-20.12	0.00	0.00	0.00	
6,500.00	23.54	345.27	6,057.32	2,132.52	-560.63	-20.49	0.00	0.00	0.00	
6,600.00	23.54	345.27	6,148.99	2,171.15	-570.78	-20.86	0.00	0.00	0.00	
6,700.00	23.54	345.27	6,240.66	2,209.78	-580.94	-21.24	0.00	0.00	0.00	
6,800.00	23.54	345.27	6,332.34	2,248.42	-591.10	-21.61	0.00	0.00	0.00	
6,900.00	23.54	345.27	6,424.01	2,287.05	-601.25	-21.98	0.00	0.00	0.00	
7,000.00	23.54	345.27	6,515.69	2,325.68	-611.41	-22.35	0.00	0.00	0.00	
7,100.00	23.54	345.27	6,607.36	2,364.32	-621.57	-22.72	0.00	0.00	0.00	
7,200.00	23.54	345.27	6,699.04	2,402.95	-631.72	-23.09	0.00	0.00	0.00	
7,300.00	23.54	345.27	6,790.71	2,441.59	-641.88	-23.46	0.00	0.00	0.00	
7,314.66	23.54	345.27	6,804.15	2,447.25	-643.37	-23.52	0.00	0.00	0.00	
Start DLS 10.00 TFO 105.01										
7,400.00	22.79	6.99	6,882.76	2,480.20	-645.69	-17.69	10.00	-0.89	25.45	
7,500.00	25.57	30.62	6,974.19	2,518.09	-632.31	4.57	10.00	2.78	23.63	
7,600.00	31.26	48.03	7,062.26	2,554.10	-601.95	42.84	10.00	5.69	17.41	
7,700.00	38.60	59.97	7,144.28	2,587.15	-555.54	95.94	10.00	7.34	11.94	
7,800.00	46.80	68.44	7,217.77	2,616.22	-494.48	162.27	10.00	8.20	8.47	
7,900.00	55.48	74.85	7,280.50	2,640.44	-420.63	239.80	10.00	8.68	6.41	
8,000.00	64.42	80.02	7,330.55	2,659.07	-336.23	326.19	10.00	8.95	5.17	
8,100.00	73.53	84.47	7,366.41	2,671.54	-243.86	418.80	10.00	9.10	4.44	
8,200.00	82.71	88.50	7,386.98	2,677.47	-146.30	514.83	10.00	9.19	4.04	
8,279.03	90.00	91.57	7,392.00	2,677.41	-67.50	591.21	10.00	9.22	3.88	
Start 9613.44 hold at 8279.03 MD										
8,300.00	90.00	91.57	7,392.00	2,676.84	-46.53	611.40	0.00	0.00	0.00	
8,400.00	90.00	91.57	7,392.00	2,674.10	53.43	707.63	0.00	0.00	0.00	
8,500.00	90.00	91.57	7,392.00	2,671.36	153.39	803.87	0.00	0.00	0.00	
8,600.00	90.00	91.57	7,392.00	2,668.62	253.35	900.11	0.00	0.00	0.00	
8,700.00	90.00	91.57	7,392.00	2,665.88	353.31	996.35	0.00	0.00	0.00	
8,800.00	90.00	91.57	7,392.00	2,663.14	453.28	1,092.58	0.00	0.00	0.00	
8,900.00	90.00	91.57	7,392.00	2,660.40	553.24	1,188.82	0.00	0.00	0.00	
9,000.00	90.00	91.57	7,392.00	2,657.66	653.20	1,285.06	0.00	0.00	0.00	
9,100.00	90.00	91.57	7,392.00	2,654.92	753.16	1,381.30	0.00	0.00	0.00	
9,200.00	90.00	91.57	7,392.00	2,652.18	853.13	1,477.53	0.00	0.00	0.00	
9,300.00	90.00	91.57	7,392.00	2,649.44	953.09	1,573.77	0.00	0.00	0.00	
9,400.00	90.00	91.57	7,392.00	2,646.70	1,053.05	1,670.01	0.00	0.00	0.00	
9,500.00	90.00	91.57	7,392.00	2,643.96	1,153.01	1,766.25	0.00	0.00	0.00	
9,600.00	90.00	91.57	7,392.00	2,641.22	1,252.98	1,862.48	0.00	0.00	0.00	
9,700.00	90.00	91.57	7,392.00	2,638.48	1,352.94	1,958.72	0.00	0.00	0.00	
9,800.00	90.00	91.57	7,392.00	2,635.74	1,452.90	2,054.96	0.00	0.00	0.00	
9,900.00	90.00	91.57	7,392.00	2,633.00	1,552.86	2,151.20	0.00	0.00	0.00	
10,000.00	90.00	91.57	7,392.00	2,630.27	1,652.83	2,247.43	0.00	0.00	0.00	
10,100.00	90.00	91.57	7,392.00	2,627.53	1,752.79	2,343.67	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 6X-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 6X-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)	
10,200.00	90.00	91.57	7,392.00	2,624.79	1,852.75	2,439.91	0.00	0.00	0.00	
10,300.00	90.00	91.57	7,392.00	2,622.05	1,952.71	2,536.15	0.00	0.00	0.00	
10,400.00	90.00	91.57	7,392.00	2,619.31	2,052.68	2,632.38	0.00	0.00	0.00	
10,500.00	90.00	91.57	7,392.00	2,616.57	2,152.64	2,728.62	0.00	0.00	0.00	
10,600.00	90.00	91.57	7,392.00	2,613.83	2,252.60	2,824.86	0.00	0.00	0.00	
10,700.00	90.00	91.57	7,392.00	2,611.09	2,352.56	2,921.10	0.00	0.00	0.00	
10,800.00	90.00	91.57	7,392.00	2,608.35	2,452.53	3,017.33	0.00	0.00	0.00	
10,900.00	90.00	91.57	7,392.00	2,605.61	2,552.49	3,113.57	0.00	0.00	0.00	
11,000.00	90.00	91.57	7,392.00	2,602.87	2,652.45	3,209.81	0.00	0.00	0.00	
11,100.00	90.00	91.57	7,392.00	2,600.13	2,752.41	3,306.05	0.00	0.00	0.00	
11,200.00	90.00	91.57	7,392.00	2,597.39	2,852.38	3,402.28	0.00	0.00	0.00	
11,300.00	90.00	91.57	7,392.00	2,594.65	2,952.34	3,498.52	0.00	0.00	0.00	
11,400.00	90.00	91.57	7,392.00	2,591.91	3,052.30	3,594.76	0.00	0.00	0.00	
11,500.00	90.00	91.57	7,392.00	2,589.17	3,152.26	3,691.00	0.00	0.00	0.00	
11,600.00	90.00	91.57	7,392.00	2,586.43	3,252.23	3,787.23	0.00	0.00	0.00	
11,700.00	90.00	91.57	7,392.00	2,583.69	3,352.19	3,883.47	0.00	0.00	0.00	
11,800.00	90.00	91.57	7,392.00	2,580.95	3,452.15	3,979.71	0.00	0.00	0.00	
11,900.00	90.00	91.57	7,392.00	2,578.21	3,552.11	4,075.95	0.00	0.00	0.00	
12,000.00	90.00	91.57	7,392.00	2,575.47	3,652.08	4,172.18	0.00	0.00	0.00	
12,100.00	90.00	91.57	7,392.00	2,572.73	3,752.04	4,268.42	0.00	0.00	0.00	
12,200.00	90.00	91.57	7,392.00	2,569.99	3,852.00	4,364.66	0.00	0.00	0.00	
12,300.00	90.00	91.57	7,392.00	2,567.25	3,951.96	4,460.90	0.00	0.00	0.00	
12,400.00	90.00	91.57	7,392.00	2,564.51	4,051.93	4,557.13	0.00	0.00	0.00	
12,500.00	90.00	91.57	7,392.00	2,561.77	4,151.89	4,653.37	0.00	0.00	0.00	
12,600.00	90.00	91.57	7,392.00	2,559.03	4,251.85	4,749.61	0.00	0.00	0.00	
12,700.00	90.00	91.57	7,392.00	2,556.29	4,351.81	4,845.85	0.00	0.00	0.00	
12,800.00	90.00	91.57	7,392.00	2,553.55	4,451.78	4,942.08	0.00	0.00	0.00	
12,900.00	90.00	91.57	7,392.00	2,550.81	4,551.74	5,038.32	0.00	0.00	0.00	
13,000.00	90.00	91.57	7,392.00	2,548.07	4,651.70	5,134.56	0.00	0.00	0.00	
13,100.00	90.00	91.57	7,392.00	2,545.33	4,751.66	5,230.80	0.00	0.00	0.00	
13,200.00	90.00	91.57	7,392.00	2,542.59	4,851.63	5,327.04	0.00	0.00	0.00	
13,300.00	90.00	91.57	7,392.00	2,539.86	4,951.59	5,423.27	0.00	0.00	0.00	
13,400.00	90.00	91.57	7,392.00	2,537.12	5,051.55	5,519.51	0.00	0.00	0.00	
13,500.00	90.00	91.57	7,392.00	2,534.38	5,151.51	5,615.75	0.00	0.00	0.00	
13,600.00	90.00	91.57	7,392.00	2,531.64	5,251.48	5,711.99	0.00	0.00	0.00	
13,700.00	90.00	91.57	7,392.00	2,528.90	5,351.44	5,808.22	0.00	0.00	0.00	
13,800.00	90.00	91.57	7,392.00	2,526.16	5,451.40	5,904.46	0.00	0.00	0.00	
13,900.00	90.00	91.57	7,392.00	2,523.42	5,551.36	6,000.70	0.00	0.00	0.00	
14,000.00	90.00	91.57	7,392.00	2,520.68	5,651.33	6,096.94	0.00	0.00	0.00	
14,100.00	90.00	91.57	7,392.00	2,517.94	5,751.29	6,193.17	0.00	0.00	0.00	
14,200.00	90.00	91.57	7,392.00	2,515.20	5,851.25	6,289.41	0.00	0.00	0.00	
14,300.00	90.00	91.57	7,392.00	2,512.46	5,951.21	6,385.65	0.00	0.00	0.00	
14,400.00	90.00	91.57	7,392.00	2,509.72	6,051.18	6,481.89	0.00	0.00	0.00	
14,500.00	90.00	91.57	7,392.00	2,506.98	6,151.14	6,578.12	0.00	0.00	0.00	
14,600.00	90.00	91.57	7,392.00	2,504.24	6,251.10	6,674.36	0.00	0.00	0.00	
14,700.00	90.00	91.57	7,392.00	2,501.50	6,351.06	6,770.60	0.00	0.00	0.00	
14,800.00	90.00	91.57	7,392.00	2,498.76	6,451.03	6,866.84	0.00	0.00	0.00	
14,900.00	90.00	91.57	7,392.00	2,496.02	6,550.99	6,963.07	0.00	0.00	0.00	
15,000.00	90.00	91.57	7,392.00	2,493.28	6,650.95	7,059.31	0.00	0.00	0.00	
15,100.00	90.00	91.57	7,392.00	2,490.54	6,750.91	7,155.55	0.00	0.00	0.00	
15,200.00	90.00	91.57	7,392.00	2,487.80	6,850.88	7,251.79	0.00	0.00	0.00	
15,300.00	90.00	91.57	7,392.00	2,485.06	6,950.84	7,348.02	0.00	0.00	0.00	
15,400.00	90.00	91.57	7,392.00	2,482.32	7,050.80	7,444.26	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well DEHAAN 6X-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 6X-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)
15,500.00	90.00	91.57	7,392.00	2,479.58	7,150.76	7,540.50	0.00	0.00	0.00
15,600.00	90.00	91.57	7,392.00	2,476.84	7,250.73	7,636.74	0.00	0.00	0.00
15,700.00	90.00	91.57	7,392.00	2,474.10	7,350.69	7,732.97	0.00	0.00	0.00
15,800.00	90.00	91.57	7,392.00	2,471.36	7,450.65	7,829.21	0.00	0.00	0.00
15,900.00	90.00	91.57	7,392.00	2,468.62	7,550.61	7,925.45	0.00	0.00	0.00
16,000.00	90.00	91.57	7,392.00	2,465.88	7,650.57	8,021.69	0.00	0.00	0.00
16,100.00	90.00	91.57	7,392.00	2,463.14	7,750.54	8,117.92	0.00	0.00	0.00
16,200.00	90.00	91.57	7,392.00	2,460.40	7,850.50	8,214.16	0.00	0.00	0.00
16,300.00	90.00	91.57	7,392.00	2,457.66	7,950.46	8,310.40	0.00	0.00	0.00
16,400.00	90.00	91.57	7,392.00	2,454.92	8,050.42	8,406.64	0.00	0.00	0.00
16,500.00	90.00	91.57	7,392.00	2,452.18	8,150.39	8,502.87	0.00	0.00	0.00
16,600.00	90.00	91.57	7,392.00	2,449.45	8,250.35	8,599.11	0.00	0.00	0.00
16,700.00	90.00	91.57	7,392.00	2,446.71	8,350.31	8,695.35	0.00	0.00	0.00
16,800.00	90.00	91.57	7,392.00	2,443.97	8,450.27	8,791.59	0.00	0.00	0.00
16,900.00	90.00	91.57	7,392.00	2,441.23	8,550.24	8,887.82	0.00	0.00	0.00
17,000.00	90.00	91.57	7,392.00	2,438.49	8,650.20	8,984.06	0.00	0.00	0.00
17,100.00	90.00	91.57	7,392.00	2,435.75	8,750.16	9,080.30	0.00	0.00	0.00
17,200.00	90.00	91.57	7,392.00	2,433.01	8,850.12	9,176.54	0.00	0.00	0.00
17,300.00	90.00	91.57	7,392.00	2,430.27	8,950.09	9,272.77	0.00	0.00	0.00
17,400.00	90.00	91.57	7,392.00	2,427.53	9,050.05	9,369.01	0.00	0.00	0.00
17,500.00	90.00	91.57	7,392.00	2,424.79	9,150.01	9,465.25	0.00	0.00	0.00
17,600.00	90.00	91.57	7,392.00	2,422.05	9,249.97	9,561.49	0.00	0.00	0.00
17,700.00	90.00	91.57	7,392.00	2,419.31	9,349.94	9,657.72	0.00	0.00	0.00
17,800.00	90.00	91.57	7,392.00	2,416.57	9,449.90	9,753.96	0.00	0.00	0.00
17,892.47	90.00	91.57	7,392.00	2,414.04	9,542.33	9,842.95	0.00	0.00	0.00
TD at 17892.47									

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 6X-HNE - plan hits target center - Point	0.00	0.00	7,392.00	2,414.04	9,542.33	1,454,310.18	3,233,280.90	40.577448°N	104.660187°W
LP-DEHAAN 6X-HNB - plan hits target center - Point	0.00	0.00	7,392.00	2,677.41	-67.50	1,454,486.26	3,223,669.34	40.578176°N	104.694781°W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
400.00	400.00	0.00	0.00	Start Build 2.00
1,577.24	1,544.38	230.66	-60.64	Start 5737.42 hold at 1577.24 MD
7,314.66	6,804.15	2,447.25	-643.37	Start DLS 10.00 TFO 105.01
8,279.03	7,392.00	2,677.41	-67.50	Start 9613.44 hold at 8279.03 MD
17,892.47	7,392.00	2,414.04	9,542.33	TD at 17892.47