

BAYSWATER EXPLORATION & PRODUCTION

**WELD COUNTY
SEC 6-T7N-R66W
COALBANK 5**

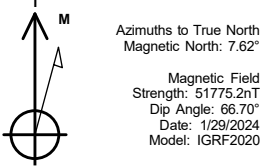
OWB

Plan: PROPOSAL 1

Standard Planning Report

13 February, 2024

Project: WELD COUNTY
Site: SEC 6-T7N-R66W
Well: COALBANK 5
Wellbore: OWB
Design: PROPOSAL 1



WELL DETAILS: COALBANK 5

+N/-S	+E/-W	Northing	Easting	5122.00	Latitude	Longitude	Slot
0.00	0.00	1463038.52	3190910.59		40.602407°N	104.812470°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	Start Build 2.00
1501.80	10.04	0.95	1499.24	43.83	0.73	5.77	43.84	Start 5407.26 hold at 1501.80 MD
6909.06	10.04	0.95	6823.76	986.00	16.43	129.85	986.14	Start DLS 10.00 TFO 88.33
7798.95	89.30	89.13	7385.00	1092.62	580.89	702.83	1574.83	Start 10178.32 hold at 7798.95 MD
17977.27	89.30	89.13	7510.00	1246.89	10757.27	10829.30	11752.38	TD at 17977.27

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	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
3	1501.80	10.04	0.95	1499.24	43.83	0.73	2.00	0.95	5.77	
4	6909.06	10.04	0.95	6823.76	986.00	16.43	0.00	0.00	129.85	
5	7798.95	89.30	89.13	7385.00	1092.62	580.89	10.00	88.33	702.83	LP-C
6	17977.27	89.30	89.13	7510.00	1246.89	10757.27	0.00	0.00	10829.30	PBH

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-COALBANK 5	7385.00	1092.62	580.89	1464135.58	3191482.98	40.605406°N	104.810378°W	Point
- plan hits target center								
PBHL-COALBANK 5	7510.00	1246.89	10757.27	1464368.74	3201657.61	40.605823°N	104.773729°W	Point
- plan hits target center								

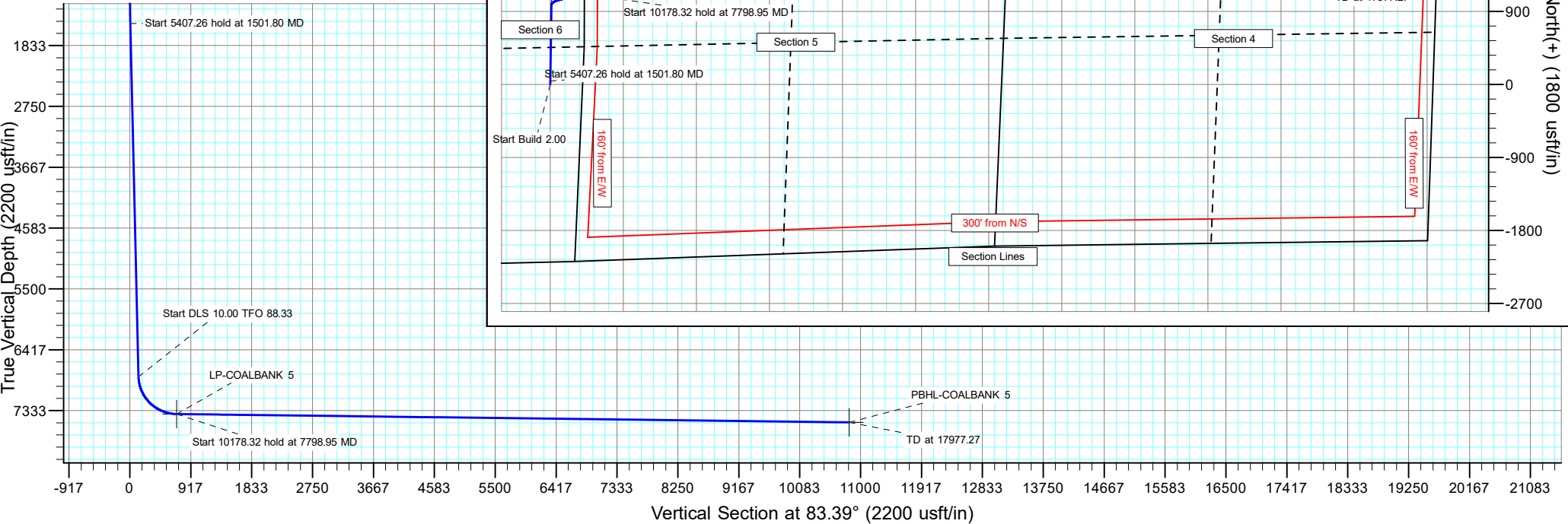
PROJECT DETAILS: WELD COUNTY

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

SHL:
2189' FSL, 399' FEL
Sec 6-T7N-R66W

LP:
2018' FNL, 160' FWL
Sec 5-T7N-R66W

BHL:
1966' FNL, 160' FEL
Sec 4-T7N-R66W



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COALBANK 5
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 5145.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 5145.00usft
Site:	SEC 6-T7N-R66W	North Reference:	True
Well:	COALBANK 5	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 6-T7N-R66W				
Site Position:		Northing:	1,460,687.83	usft	Latitude:	40.596067°N
From:	Lat/Long	Easting:	3,185,555.14	usft	Longitude:	104.831820°W
Position Uncertainty:		0.00	usft	Slot Radius:	13.200	in

Well	COALBANK 5					
Well Position	+N/-S	0.00 usft	Northing:	1,463,038.52 usft	Latitude:	40.602407°N
	+E/-W	0.00 usft	Easting:	3,190,910.60 usft	Longitude:	104.812470°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,122.00 usft
Grid Convergence:		0.44 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/29/2024	7.62	66.70	51,775.17491418

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	83.39

Plan Survey Tool Program	Date	2/13/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,977.27	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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,501.80	10.04	0.95	1,499.24	43.83	0.73	2.00	2.00	0.00	0.95	
6,909.06	10.04	0.95	6,823.76	986.00	16.43	0.00	0.00	0.00	0.00	
7,798.96	89.30	89.13	7,385.00	1,092.62	580.89	10.00	8.91	9.91	88.33	LP-COALBANK 5
17,977.27	89.30	89.13	7,510.00	1,246.89	10,757.27	0.00	0.00	0.00	0.00	PBHL-COALBANK 5

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Project:	WELD COUNTY	MD Reference:	KB 23' @ 5145.00usft
Site:	SEC 6-T7N-R66W	North Reference:	True
Well:	COALBANK 5	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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	2.00	0.95	1,099.98	1.74	0.03	0.23	2.00	2.00	0.00
1,200.00	4.00	0.95	1,199.84	6.98	0.12	0.92	2.00	2.00	0.00
1,300.00	6.00	0.95	1,299.45	15.69	0.26	2.07	2.00	2.00	0.00
1,400.00	8.00	0.95	1,398.70	27.88	0.46	3.67	2.00	2.00	0.00
1,500.00	10.00	0.95	1,497.47	43.52	0.72	5.73	2.00	2.00	0.00
1,501.80	10.04	0.95	1,499.24	43.83	0.73	5.77	2.00	2.00	0.00
Start 5407.26 hold at 1501.80 MD									
1,600.00	10.04	0.95	1,595.94	60.94	1.02	8.03	0.00	0.00	0.00
1,700.00	10.04	0.95	1,694.41	78.36	1.31	10.32	0.00	0.00	0.00
1,800.00	10.04	0.95	1,792.88	95.79	1.60	12.61	0.00	0.00	0.00
1,900.00	10.04	0.95	1,891.34	113.21	1.89	14.91	0.00	0.00	0.00
2,000.00	10.04	0.95	1,989.81	130.64	2.18	17.20	0.00	0.00	0.00
2,100.00	10.04	0.95	2,088.28	148.06	2.47	19.50	0.00	0.00	0.00
2,200.00	10.04	0.95	2,186.75	165.49	2.76	21.79	0.00	0.00	0.00
2,300.00	10.04	0.95	2,285.22	182.91	3.05	24.09	0.00	0.00	0.00
2,400.00	10.04	0.95	2,383.69	200.33	3.34	26.38	0.00	0.00	0.00
2,500.00	10.04	0.95	2,482.16	217.76	3.63	28.68	0.00	0.00	0.00
2,600.00	10.04	0.95	2,580.63	235.18	3.92	30.97	0.00	0.00	0.00
2,700.00	10.04	0.95	2,679.10	252.61	4.21	33.27	0.00	0.00	0.00
2,800.00	10.04	0.95	2,777.57	270.03	4.50	35.56	0.00	0.00	0.00
2,900.00	10.04	0.95	2,876.04	287.46	4.79	37.85	0.00	0.00	0.00
3,000.00	10.04	0.95	2,974.51	304.88	5.08	40.15	0.00	0.00	0.00
3,100.00	10.04	0.95	3,072.98	322.30	5.37	42.44	0.00	0.00	0.00
3,200.00	10.04	0.95	3,171.45	339.73	5.66	44.74	0.00	0.00	0.00
3,300.00	10.04	0.95	3,269.92	357.15	5.95	47.03	0.00	0.00	0.00
3,400.00	10.04	0.95	3,368.39	374.58	6.24	49.33	0.00	0.00	0.00
3,500.00	10.04	0.95	3,466.86	392.00	6.53	51.62	0.00	0.00	0.00
3,600.00	10.04	0.95	3,565.33	409.42	6.82	53.92	0.00	0.00	0.00
3,700.00	10.04	0.95	3,663.80	426.85	7.11	56.21	0.00	0.00	0.00
3,800.00	10.04	0.95	3,762.27	444.27	7.40	58.51	0.00	0.00	0.00
3,900.00	10.04	0.95	3,860.74	461.70	7.69	60.80	0.00	0.00	0.00
4,000.00	10.04	0.95	3,959.21	479.12	7.98	63.10	0.00	0.00	0.00
4,100.00	10.04	0.95	4,057.68	496.55	8.27	65.39	0.00	0.00	0.00
4,200.00	10.04	0.95	4,156.15	513.97	8.56	67.68	0.00	0.00	0.00
4,300.00	10.04	0.95	4,254.62	531.39	8.85	69.98	0.00	0.00	0.00
4,400.00	10.04	0.95	4,353.09	548.82	9.14	72.27	0.00	0.00	0.00
4,500.00	10.04	0.95	4,451.56	566.24	9.43	74.57	0.00	0.00	0.00
4,600.00	10.04	0.95	4,550.03	583.67	9.72	76.86	0.00	0.00	0.00
4,700.00	10.04	0.95	4,648.50	601.09	10.01	79.16	0.00	0.00	0.00
4,800.00	10.04	0.95	4,746.97	618.52	10.30	81.45	0.00	0.00	0.00
4,900.00	10.04	0.95	4,845.44	635.94	10.59	83.75	0.00	0.00	0.00
5,000.00	10.04	0.95	4,943.91	653.36	10.88	86.04	0.00	0.00	0.00
5,100.00	10.04	0.95	5,042.38	670.79	11.17	88.34	0.00	0.00	0.00
5,200.00	10.04	0.95	5,140.85	688.21	11.47	90.63	0.00	0.00	0.00
5,300.00	10.04	0.95	5,239.32	705.64	11.76	92.92	0.00	0.00	0.00
5,400.00	10.04	0.95	5,337.79	723.06	12.05	95.22	0.00	0.00	0.00
5,500.00	10.04	0.95	5,436.26	740.49	12.34	97.51	0.00	0.00	0.00
5,600.00	10.04	0.95	5,534.73	757.91	12.63	99.81	0.00	0.00	0.00
5,700.00	10.04	0.95	5,633.20	775.33	12.92	102.10	0.00	0.00	0.00
5,800.00	10.04	0.95	5,731.67	792.76	13.21	104.40	0.00	0.00	0.00

Planning Report

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Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 5145.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 5145.00usft
Site:	SEC 6-T7N-R66W	North Reference:	True
Well:	COALBANK 5	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)	
5,900.00	10.04	0.95	5,830.14	810.18	13.50	106.69	0.00	0.00	0.00	
6,000.00	10.04	0.95	5,928.61	827.61	13.79	108.99	0.00	0.00	0.00	
6,100.00	10.04	0.95	6,027.08	845.03	14.08	111.28	0.00	0.00	0.00	
6,200.00	10.04	0.95	6,125.55	862.45	14.37	113.58	0.00	0.00	0.00	
6,300.00	10.04	0.95	6,224.02	879.88	14.66	115.87	0.00	0.00	0.00	
6,400.00	10.04	0.95	6,322.49	897.30	14.95	118.16	0.00	0.00	0.00	
6,500.00	10.04	0.95	6,420.96	914.73	15.24	120.46	0.00	0.00	0.00	
6,600.00	10.04	0.95	6,519.43	932.15	15.53	122.75	0.00	0.00	0.00	
6,700.00	10.04	0.95	6,617.90	949.58	15.82	125.05	0.00	0.00	0.00	
6,800.00	10.04	0.95	6,716.37	967.00	16.11	127.34	0.00	0.00	0.00	
6,900.00	10.04	0.95	6,814.84	984.42	16.40	129.64	0.00	0.00	0.00	
6,909.06	10.04	0.95	6,823.76	986.00	16.43	129.85	0.00	0.00	0.00	
Start DLS 10.00 TFO 88.33										
7,000.00	13.71	42.77	6,912.90	1,001.87	23.89	139.09	10.00	4.04	45.98	
7,100.00	21.74	62.92	7,008.16	1,019.04	48.49	165.50	10.00	8.03	20.16	
7,200.00	30.91	72.07	7,097.73	1,035.42	89.52	208.15	10.00	9.17	9.15	
7,300.00	40.44	77.28	7,178.88	1,050.51	145.74	265.73	10.00	9.54	5.21	
7,400.00	50.14	80.76	7,249.16	1,063.85	215.44	336.50	10.00	9.69	3.48	
7,500.00	59.91	83.37	7,306.42	1,075.03	296.50	418.30	10.00	9.77	2.61	
7,600.00	69.72	85.51	7,348.93	1,083.72	386.45	508.66	10.00	9.81	2.14	
7,700.00	79.55	87.39	7,375.40	1,089.65	482.57	604.83	10.00	9.83	1.88	
7,798.96	89.30	89.13	7,385.00	1,092.62	580.89	702.83	10.00	9.85	1.76	
Start 10178.32 hold at 7798.95 MD										
7,800.00	89.30	89.13	7,385.01	1,092.64	581.94	703.87	0.00	0.00	0.00	
7,900.00	89.30	89.13	7,386.24	1,094.16	681.92	803.36	0.00	0.00	0.00	
8,000.00	89.30	89.13	7,387.47	1,095.67	781.90	902.86	0.00	0.00	0.00	
8,100.00	89.30	89.13	7,388.70	1,097.19	881.88	1,002.35	0.00	0.00	0.00	
8,200.00	89.30	89.13	7,389.93	1,098.70	981.86	1,101.84	0.00	0.00	0.00	
8,300.00	89.30	89.13	7,391.15	1,100.22	1,081.84	1,201.33	0.00	0.00	0.00	
8,400.00	89.30	89.13	7,392.38	1,101.73	1,181.82	1,300.82	0.00	0.00	0.00	
8,500.00	89.30	89.13	7,393.61	1,103.25	1,281.80	1,400.31	0.00	0.00	0.00	
8,600.00	89.30	89.13	7,394.84	1,104.76	1,381.79	1,499.80	0.00	0.00	0.00	
8,700.00	89.30	89.13	7,396.07	1,106.28	1,481.77	1,599.29	0.00	0.00	0.00	
8,800.00	89.30	89.13	7,397.29	1,107.80	1,581.75	1,698.78	0.00	0.00	0.00	
8,900.00	89.30	89.13	7,398.52	1,109.31	1,681.73	1,798.27	0.00	0.00	0.00	
9,000.00	89.30	89.13	7,399.75	1,110.83	1,781.71	1,897.76	0.00	0.00	0.00	
9,100.00	89.30	89.13	7,400.98	1,112.34	1,881.69	1,997.25	0.00	0.00	0.00	
9,200.00	89.30	89.13	7,402.21	1,113.86	1,981.67	2,096.74	0.00	0.00	0.00	
9,300.00	89.30	89.13	7,403.43	1,115.37	2,081.65	2,196.23	0.00	0.00	0.00	
9,400.00	89.30	89.13	7,404.66	1,116.89	2,181.63	2,295.72	0.00	0.00	0.00	
9,500.00	89.30	89.13	7,405.89	1,118.41	2,281.61	2,395.21	0.00	0.00	0.00	
9,600.00	89.30	89.13	7,407.12	1,119.92	2,381.59	2,494.70	0.00	0.00	0.00	
9,700.00	89.30	89.13	7,408.35	1,121.44	2,481.58	2,594.19	0.00	0.00	0.00	
9,800.00	89.30	89.13	7,409.58	1,122.95	2,581.56	2,693.68	0.00	0.00	0.00	
9,900.00	89.30	89.13	7,410.80	1,124.47	2,681.54	2,793.18	0.00	0.00	0.00	
10,000.00	89.30	89.13	7,412.03	1,125.98	2,781.52	2,892.67	0.00	0.00	0.00	
10,100.00	89.30	89.13	7,413.26	1,127.50	2,881.50	2,992.16	0.00	0.00	0.00	
10,200.00	89.30	89.13	7,414.49	1,129.01	2,981.48	3,091.65	0.00	0.00	0.00	
10,300.00	89.30	89.13	7,415.72	1,130.53	3,081.46	3,191.14	0.00	0.00	0.00	
10,400.00	89.30	89.13	7,416.94	1,132.05	3,181.44	3,290.63	0.00	0.00	0.00	
10,500.00	89.30	89.13	7,418.17	1,133.56	3,281.42	3,390.12	0.00	0.00	0.00	
10,600.00	89.30	89.13	7,419.40	1,135.08	3,381.40	3,489.61	0.00	0.00	0.00	
10,700.00	89.30	89.13	7,420.63	1,136.59	3,481.39	3,589.10	0.00	0.00	0.00	

Planning Report

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Project:	WELD COUNTY	MD Reference:	KB 23' @ 5145.00usft
Site:	SEC 6-T7N-R66W	North Reference:	True
Well:	COALBANK 5	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)	
10,800.00	89.30	89.13	7,421.86	1,138.11	3,581.37	3,688.59	0.00	0.00	0.00	
10,900.00	89.30	89.13	7,423.08	1,139.62	3,681.35	3,788.08	0.00	0.00	0.00	
11,000.00	89.30	89.13	7,424.31	1,141.14	3,781.33	3,887.57	0.00	0.00	0.00	
11,100.00	89.30	89.13	7,425.54	1,142.66	3,881.31	3,987.06	0.00	0.00	0.00	
11,200.00	89.30	89.13	7,426.77	1,144.17	3,981.29	4,086.55	0.00	0.00	0.00	
11,300.00	89.30	89.13	7,428.00	1,145.69	4,081.27	4,186.04	0.00	0.00	0.00	
11,400.00	89.30	89.13	7,429.22	1,147.20	4,181.25	4,285.53	0.00	0.00	0.00	
11,500.00	89.30	89.13	7,430.45	1,148.72	4,281.23	4,385.02	0.00	0.00	0.00	
11,600.00	89.30	89.13	7,431.68	1,150.23	4,381.21	4,484.51	0.00	0.00	0.00	
11,700.00	89.30	89.13	7,432.91	1,151.75	4,481.20	4,584.00	0.00	0.00	0.00	
11,800.00	89.30	89.13	7,434.14	1,153.26	4,581.18	4,683.50	0.00	0.00	0.00	
11,900.00	89.30	89.13	7,435.37	1,154.78	4,681.16	4,782.99	0.00	0.00	0.00	
12,000.00	89.30	89.13	7,436.59	1,156.30	4,781.14	4,882.48	0.00	0.00	0.00	
12,100.00	89.30	89.13	7,437.82	1,157.81	4,881.12	4,981.97	0.00	0.00	0.00	
12,200.00	89.30	89.13	7,439.05	1,159.33	4,981.10	5,081.46	0.00	0.00	0.00	
12,300.00	89.30	89.13	7,440.28	1,160.84	5,081.08	5,180.95	0.00	0.00	0.00	
12,400.00	89.30	89.13	7,441.51	1,162.36	5,181.06	5,280.44	0.00	0.00	0.00	
12,500.00	89.30	89.13	7,442.73	1,163.87	5,281.04	5,379.93	0.00	0.00	0.00	
12,600.00	89.30	89.13	7,443.96	1,165.39	5,381.02	5,479.42	0.00	0.00	0.00	
12,700.00	89.30	89.13	7,445.19	1,166.91	5,481.01	5,578.91	0.00	0.00	0.00	
12,800.00	89.30	89.13	7,446.42	1,168.42	5,580.99	5,678.40	0.00	0.00	0.00	
12,900.00	89.30	89.13	7,447.65	1,169.94	5,680.97	5,777.89	0.00	0.00	0.00	
13,000.00	89.30	89.13	7,448.87	1,171.45	5,780.95	5,877.38	0.00	0.00	0.00	
13,100.00	89.30	89.13	7,450.10	1,172.97	5,880.93	5,976.87	0.00	0.00	0.00	
13,200.00	89.30	89.13	7,451.33	1,174.48	5,980.91	6,076.36	0.00	0.00	0.00	
13,300.00	89.30	89.13	7,452.56	1,176.00	6,080.89	6,175.85	0.00	0.00	0.00	
13,400.00	89.30	89.13	7,453.79	1,177.52	6,180.87	6,275.34	0.00	0.00	0.00	
13,500.00	89.30	89.13	7,455.01	1,179.03	6,280.85	6,374.83	0.00	0.00	0.00	
13,600.00	89.30	89.13	7,456.24	1,180.55	6,380.83	6,474.32	0.00	0.00	0.00	
13,700.00	89.30	89.13	7,457.47	1,182.06	6,480.81	6,573.82	0.00	0.00	0.00	
13,800.00	89.30	89.13	7,458.70	1,183.58	6,580.80	6,673.31	0.00	0.00	0.00	
13,900.00	89.30	89.13	7,459.93	1,185.09	6,680.78	6,772.80	0.00	0.00	0.00	
14,000.00	89.30	89.13	7,461.16	1,186.61	6,780.76	6,872.29	0.00	0.00	0.00	
14,100.00	89.30	89.13	7,462.38	1,188.12	6,880.74	6,971.78	0.00	0.00	0.00	
14,200.00	89.30	89.13	7,463.61	1,189.64	6,980.72	7,071.27	0.00	0.00	0.00	
14,300.00	89.30	89.13	7,464.84	1,191.16	7,080.70	7,170.76	0.00	0.00	0.00	
14,400.00	89.30	89.13	7,466.07	1,192.67	7,180.68	7,270.25	0.00	0.00	0.00	
14,500.00	89.30	89.13	7,467.30	1,194.19	7,280.66	7,369.74	0.00	0.00	0.00	
14,600.00	89.30	89.13	7,468.52	1,195.70	7,380.64	7,469.23	0.00	0.00	0.00	
14,700.00	89.30	89.13	7,469.75	1,197.22	7,480.62	7,568.72	0.00	0.00	0.00	
14,800.00	89.30	89.13	7,470.98	1,198.73	7,580.61	7,668.21	0.00	0.00	0.00	
14,900.00	89.30	89.13	7,472.21	1,200.25	7,680.59	7,767.70	0.00	0.00	0.00	
15,000.00	89.30	89.13	7,473.44	1,201.77	7,780.57	7,867.19	0.00	0.00	0.00	
15,100.00	89.30	89.13	7,474.66	1,203.28	7,880.55	7,966.68	0.00	0.00	0.00	
15,200.00	89.30	89.13	7,475.89	1,204.80	7,980.53	8,066.17	0.00	0.00	0.00	
15,300.00	89.30	89.13	7,477.12	1,206.31	8,080.51	8,165.66	0.00	0.00	0.00	
15,400.00	89.30	89.13	7,478.35	1,207.83	8,180.49	8,265.15	0.00	0.00	0.00	
15,500.00	89.30	89.13	7,479.58	1,209.34	8,280.47	8,364.65	0.00	0.00	0.00	
15,600.00	89.30	89.13	7,480.80	1,210.86	8,380.45	8,464.14	0.00	0.00	0.00	
15,700.00	89.30	89.13	7,482.03	1,212.37	8,480.43	8,563.63	0.00	0.00	0.00	
15,800.00	89.30	89.13	7,483.26	1,213.89	8,580.42	8,663.12	0.00	0.00	0.00	
15,900.00	89.30	89.13	7,484.49	1,215.41	8,680.40	8,762.61	0.00	0.00	0.00	
16,000.00	89.30	89.13	7,485.72	1,216.92	8,780.38	8,862.10	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well COALBANK 5
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	KB 23' @ 5145.00usft
Project:	WELD COUNTY	MD Reference:	KB 23' @ 5145.00usft
Site:	SEC 6-T7N-R66W	North Reference:	True
Well:	COALBANK 5	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)	
16,100.00	89.30	89.13	7,486.95	1,218.44	8,880.36	8,961.59	0.00	0.00	0.00	
16,200.00	89.30	89.13	7,488.17	1,219.95	8,980.34	9,061.08	0.00	0.00	0.00	
16,300.00	89.30	89.13	7,489.40	1,221.47	9,080.32	9,160.57	0.00	0.00	0.00	
16,400.00	89.30	89.13	7,490.63	1,222.98	9,180.30	9,260.06	0.00	0.00	0.00	
16,500.00	89.30	89.13	7,491.86	1,224.50	9,280.28	9,359.55	0.00	0.00	0.00	
16,600.00	89.30	89.13	7,493.09	1,226.02	9,380.26	9,459.04	0.00	0.00	0.00	
16,700.00	89.30	89.13	7,494.31	1,227.53	9,480.24	9,558.53	0.00	0.00	0.00	
16,800.00	89.30	89.13	7,495.54	1,229.05	9,580.22	9,658.02	0.00	0.00	0.00	
16,900.00	89.30	89.13	7,496.77	1,230.56	9,680.21	9,757.51	0.00	0.00	0.00	
17,000.00	89.30	89.13	7,498.00	1,232.08	9,780.19	9,857.00	0.00	0.00	0.00	
17,100.00	89.30	89.13	7,499.23	1,233.59	9,880.17	9,956.49	0.00	0.00	0.00	
17,200.00	89.30	89.13	7,500.45	1,235.11	9,980.15	10,055.98	0.00	0.00	0.00	
17,300.00	89.30	89.13	7,501.68	1,236.62	10,080.13	10,155.47	0.00	0.00	0.00	
17,400.00	89.30	89.13	7,502.91	1,238.14	10,180.11	10,254.97	0.00	0.00	0.00	
17,500.00	89.30	89.13	7,504.14	1,239.66	10,280.09	10,354.46	0.00	0.00	0.00	
17,600.00	89.30	89.13	7,505.37	1,241.17	10,380.07	10,453.95	0.00	0.00	0.00	
17,700.00	89.30	89.13	7,506.59	1,242.69	10,480.05	10,553.44	0.00	0.00	0.00	
17,800.00	89.30	89.13	7,507.82	1,244.20	10,580.03	10,652.93	0.00	0.00	0.00	
17,900.00	89.30	89.13	7,509.05	1,245.72	10,680.02	10,752.42	0.00	0.00	0.00	
17,977.27	89.30	89.13	7,510.00	1,246.89	10,757.27	10,829.30	0.00	0.00	0.00	
TD at 17977.27										

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
LP-COALBANK 5 - plan hits target center - Point	0.00	0.00	7,385.00	1,092.62	580.89	1,464,135.59	3,191,482.98	40.605406°N	104.810378°W
PBHL-COALBANK 5 - plan hits target center - Point	0.00	0.00	7,510.00	1,246.89	10,757.27	1,464,368.74	3,201,657.62	40.605823°N	104.773729°W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,501.80	1,499.24	43.83	0.73	Start 5407.26 hold at 1501.80 MD	
6,909.06	6,823.76	986.00	16.43	Start DLS 10.00 TFO 88.33	
7,798.96	7,385.00	1,092.62	580.89	Start 10178.32 hold at 7798.95 MD	
17,977.27	7,510.00	1,246.89	10,757.27	TD at 17977.27	