



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Bayswater Robel 14-28
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	KBE @ 4862.0ft (Original Well Elev)
Project:	Weld County, CO	MD Reference:	KBE @ 4862.0ft (Original Well Elev)
Site:	SWSW 28 T7N R64W	North Reference:	True
Well:	Bayswater Robel 14-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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		SWSW 28 T7N R64W			
Site Position:		Northing:		0.00 ft	
From:		Easting:		0.00 ft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
None		0.0 ft		0.000000	
		13.200 in		0.000000	
				0.00 °	

Well	Bayswater Robel 14-28					
Well Position	+N/-S	0.0 ft	Northing:	0.00 ft	Latitude:	36.118325
	+E/-W	0.0 ft	Easting:	0.00 ft	Longitude:	-115.653598
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,852.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	6/30/2011	0.00	0.00	0

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	123.73

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
706.4	15.19	123.73	700.5	-37.1	55.5	3.00	3.00	0.00	123.73	
4,643.0	15.19	123.73	4,499.5	-609.9	913.5	0.00	0.00	0.00	0.00	
5,149.4	0.00	0.00	5,000.0	-647.0	969.0	3.00	-3.00	0.00	180.00	Bayswater Robel 14-2
7,469.4	0.00	0.00	7,320.0	-647.0	969.0	0.00	0.00	0.00	0.00	Bayswater Robel 14-2

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Well:	Bayswater Robel 14-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	3.00	123.73	300.0	-1.5	2.2	2.6	3.00	3.00	
400.0	6.00	123.73	399.6	-5.8	8.7	10.5	3.00	3.00	
500.0	9.00	123.73	498.8	-13.1	19.6	23.5	3.00	3.00	
600.0	12.00	123.73	597.1	-23.2	34.7	41.7	3.00	3.00	
706.4	15.19	123.73	700.5	-37.1	55.5	66.8	3.00	3.00	EOB @ Inc. = 15.19°
800.0	15.19	123.73	790.8	-50.7	75.9	91.3	0.00	0.00	
900.0	15.19	123.73	887.3	-65.2	97.7	117.5	0.00	0.00	
1,000.0	15.19	123.73	983.8	-79.8	119.5	143.7	0.00	0.00	
1,100.0	15.19	123.73	1,080.3	-94.3	141.3	169.9	0.00	0.00	
1,200.0	15.19	123.73	1,176.8	-108.9	163.1	196.1	0.00	0.00	
1,300.0	15.19	123.73	1,273.3	-123.4	184.9	222.3	0.00	0.00	
1,400.0	15.19	123.73	1,369.8	-138.0	206.7	248.5	0.00	0.00	
1,500.0	15.19	123.73	1,466.4	-152.6	228.5	274.7	0.00	0.00	
1,600.0	15.19	123.73	1,562.9	-167.1	250.3	300.9	0.00	0.00	
1,700.0	15.19	123.73	1,659.4	-181.7	272.1	327.1	0.00	0.00	
1,800.0	15.19	123.73	1,755.9	-196.2	293.9	353.3	0.00	0.00	
1,900.0	15.19	123.73	1,852.4	-210.8	315.7	379.5	0.00	0.00	
2,000.0	15.19	123.73	1,948.9	-225.3	337.4	405.8	0.00	0.00	
2,100.0	15.19	123.73	2,045.4	-239.9	359.2	432.0	0.00	0.00	
2,200.0	15.19	123.73	2,141.9	-254.4	381.0	458.2	0.00	0.00	
2,300.0	15.19	123.73	2,238.4	-269.0	402.8	484.4	0.00	0.00	
2,400.0	15.19	123.73	2,334.9	-283.5	424.6	510.6	0.00	0.00	
2,500.0	15.19	123.73	2,431.4	-298.1	446.4	536.8	0.00	0.00	
2,600.0	15.19	123.73	2,527.9	-312.6	468.2	563.0	0.00	0.00	
2,700.0	15.19	123.73	2,624.4	-327.2	490.0	589.2	0.00	0.00	
2,800.0	15.19	123.73	2,720.9	-341.7	511.8	615.4	0.00	0.00	
2,900.0	15.19	123.73	2,817.4	-356.3	533.6	641.6	0.00	0.00	
3,000.0	15.19	123.73	2,913.9	-370.8	555.4	667.8	0.00	0.00	
3,100.0	15.19	123.73	3,010.4	-385.4	577.2	694.0	0.00	0.00	
3,200.0	15.19	123.73	3,106.9	-399.9	599.0	720.2	0.00	0.00	
3,300.0	15.19	123.73	3,203.4	-414.5	620.8	746.4	0.00	0.00	
3,400.0	15.19	123.73	3,299.9	-429.0	642.6	772.7	0.00	0.00	
3,500.0	15.19	123.73	3,396.4	-443.6	664.4	798.9	0.00	0.00	
3,600.0	15.19	123.73	3,493.0	-458.2	686.2	825.1	0.00	0.00	
3,700.0	15.19	123.73	3,589.5	-472.7	708.0	851.3	0.00	0.00	
3,800.0	15.19	123.73	3,686.0	-487.3	729.8	877.5	0.00	0.00	
3,878.8	15.19	123.73	3,762.0	-498.7	746.9	898.1	0.00	0.00	Larimer (Parkman)
3,900.0	15.19	123.73	3,782.5	-501.8	751.6	903.7	0.00	0.00	
4,000.0	15.19	123.73	3,879.0	-516.4	773.3	929.9	0.00	0.00	
4,100.0	15.19	123.73	3,975.5	-530.9	795.1	956.1	0.00	0.00	
4,200.0	15.19	123.73	4,072.0	-545.5	816.9	982.3	0.00	0.00	
4,300.0	15.19	123.73	4,168.5	-560.0	838.7	1,008.5	0.00	0.00	
4,400.0	15.19	123.73	4,265.0	-574.6	860.5	1,034.7	0.00	0.00	
4,500.0	15.19	123.73	4,361.5	-589.1	882.3	1,060.9	0.00	0.00	
4,600.0	15.19	123.73	4,458.0	-603.7	904.1	1,087.1	0.00	0.00	
4,643.0	15.19	123.73	4,499.5	-609.9	913.5	1,098.4	0.00	0.00	Start Drop -3.00
4,700.0	13.48	123.73	4,554.7	-617.8	925.2	1,112.5	3.00	-3.00	
4,800.0	10.48	123.73	4,652.5	-629.3	942.5	1,133.3	3.00	-3.00	
4,900.0	7.48	123.73	4,751.3	-638.0	955.5	1,148.9	3.00	-3.00	

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Well:	Bayswater Robel 14-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	4.48	123.73	4,850.7	-643.8	964.1	1,159.3	3.00	-3.00	
5,100.0	1.48	123.73	4,950.6	-646.6	968.5	1,164.5	3.00	-3.00	
5,149.4	0.00	0.00	5,000.0	-647.0	969.0	1,165.1	3.00	-3.00	EOD @ Inc. = 0°
5,200.0	0.00	0.00	5,050.6	-647.0	969.0	1,165.1	0.00	0.00	
5,300.0	0.00	0.00	5,150.6	-647.0	969.0	1,165.1	0.00	0.00	
5,400.0	0.00	0.00	5,250.6	-647.0	969.0	1,165.1	0.00	0.00	
5,500.0	0.00	0.00	5,350.6	-647.0	969.0	1,165.1	0.00	0.00	
5,600.0	0.00	0.00	5,450.6	-647.0	969.0	1,165.1	0.00	0.00	
5,700.0	0.00	0.00	5,550.6	-647.0	969.0	1,165.1	0.00	0.00	
5,800.0	0.00	0.00	5,650.6	-647.0	969.0	1,165.1	0.00	0.00	
5,900.0	0.00	0.00	5,750.6	-647.0	969.0	1,165.1	0.00	0.00	
6,000.0	0.00	0.00	5,850.6	-647.0	969.0	1,165.1	0.00	0.00	
6,100.0	0.00	0.00	5,950.6	-647.0	969.0	1,165.1	0.00	0.00	
6,200.0	0.00	0.00	6,050.6	-647.0	969.0	1,165.1	0.00	0.00	
6,300.0	0.00	0.00	6,150.6	-647.0	969.0	1,165.1	0.00	0.00	
6,400.0	0.00	0.00	6,250.6	-647.0	969.0	1,165.1	0.00	0.00	
6,500.0	0.00	0.00	6,350.6	-647.0	969.0	1,165.1	0.00	0.00	
6,600.0	0.00	0.00	6,450.6	-647.0	969.0	1,165.1	0.00	0.00	
6,700.0	0.00	0.00	6,550.6	-647.0	969.0	1,165.1	0.00	0.00	
6,800.0	0.00	0.00	6,650.6	-647.0	969.0	1,165.1	0.00	0.00	
6,900.0	0.00	0.00	6,750.6	-647.0	969.0	1,165.1	0.00	0.00	
6,961.4	0.00	0.00	6,812.0	-647.0	969.0	1,165.1	0.00	0.00	Niobrara
7,000.0	0.00	0.00	6,850.6	-647.0	969.0	1,165.1	0.00	0.00	
7,100.0	0.00	0.00	6,950.6	-647.0	969.0	1,165.1	0.00	0.00	
7,200.0	0.00	0.00	7,050.6	-647.0	969.0	1,165.1	0.00	0.00	
7,207.4	0.00	0.00	7,058.0	-647.0	969.0	1,165.1	0.00	0.00	Fort Hays
7,251.4	0.00	0.00	7,102.0	-647.0	969.0	1,165.1	0.00	0.00	Codell
7,297.4	0.00	0.00	7,148.0	-647.0	969.0	1,165.1	0.00	0.00	Greenhorn
7,300.0	0.00	0.00	7,150.6	-647.0	969.0	1,165.1	0.00	0.00	
7,383.4	0.00	0.00	7,234.0	-647.0	969.0	1,165.1	0.00	0.00	Graneros
7,400.0	0.00	0.00	7,250.6	-647.0	969.0	1,165.1	0.00	0.00	
7,469.4	0.00	0.00	7,320.0	-647.0	969.0	1,165.1	0.00	0.00	TD @ 7,469' MD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Bayswater Robel 14-28	0.00	0.00	7,320.0	-647.0	969.0	-753.47	888.73	36.116552	-115.650325
- plan hits target center									
- Circle (radius 50.0)									
Bayswater Robel 14-28	0.00	0.00	5,000.0	-647.0	969.0	-753.47	888.73	36.116552	-115.650325
- plan hits target center									
- Point									

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Project:	Weld County, CO	MD Reference:	KBE @ 4862.0ft (Original Well Elev)
Site:	SWSW 28 T7N R64W	North Reference:	True
Well:	Bayswater Robel 14-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,878.8	3,762.0	Larimer (Parkman)		0.00	
6,961.4	6,812.0	Niobrara		0.00	
7,207.4	7,058.0	Fort Hays		0.00	
7,251.4	7,102.0	Codell		0.00	
7,297.4	7,148.0	Greenhorn		0.00	
7,383.4	7,234.0	Graneros		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
706.4	700.5	-37.1	55.5	EOB @ Inc. = 15.19°
4,643.0	4,499.5	-609.9	913.5	Start Drop -3.00
5,149.4	5,000.0	-647.0	969.0	EOD @ Inc. = 0°
7,469.4	7,320.0	-647.0	969.0	TD @ 7,469' MD