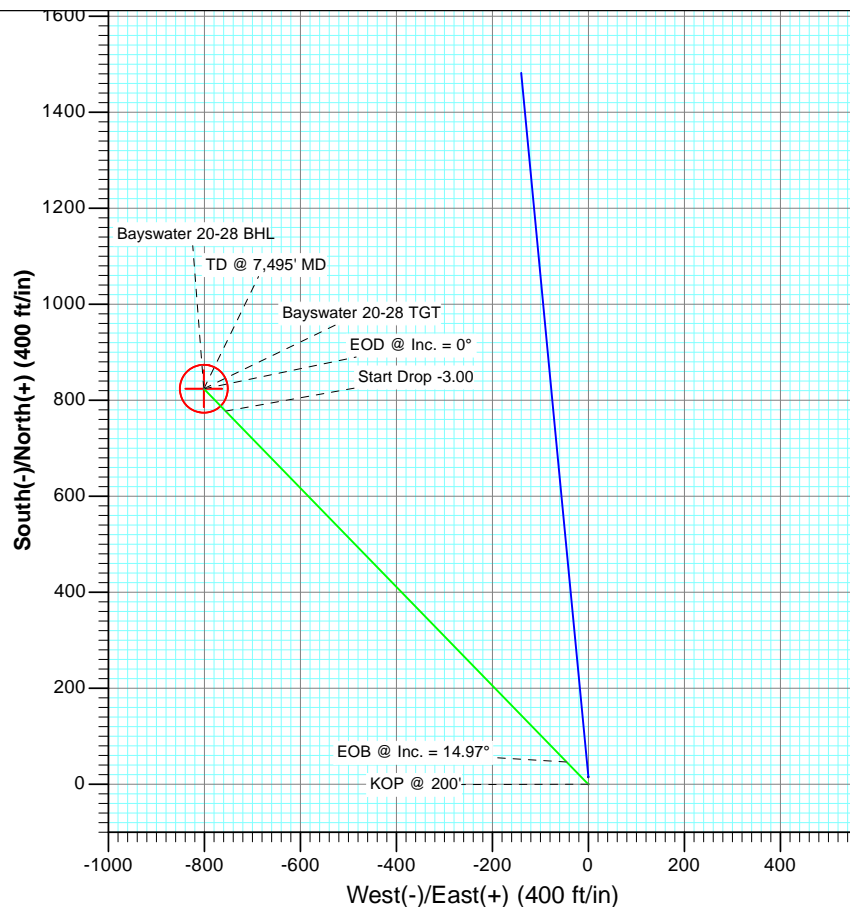


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	698.9	14.97	315.81	693.3	46.5	-45.2	3.00	315.81	64.8	
4	4646.3	14.97	315.81	4506.7	777.5	-755.8	0.00	0.00	1084.4	
5	5145.3	0.00	360.00	5000.0	824.0	-801.0	3.00	180.00	1149.2	Bayswater 20-28 TGT
6	7495.3	0.00	360.00	7350.0	824.0	-801.0	0.00	360.00	1149.2	Bayswater 20-28 BHL



FORMATION TOP DETAILS

TVDP	MDPath	Formation
3792.0	3906.5	Larimer (Parkman)
6842.0	6987.3	Niobrara
7088.0	7233.3	Foet Hays
7132.0	7277.3	Codell
7178.0	7323.3	Greenhorn
7264.0	7409.3	Graneros



Azimuths to Grid North
 True North: 6.56°
 Magnetic North: 19.00°

Magnetic Field
 Strength: 49143.1nT
 Dip Angle: 61.30°
 Date: 6/29/2011
 Model: IGRF2010

Plan #1
 Bayswater Weld County 20-28

KBE @ 4882.0ft (Original Well Elev)
 North American Datum 1983
 Well Bayswater Weld County 20-28, Grid North

Target	Azimuth	Origin Type	N/S	E/W	From TVD
No Target (Freehand)	315.81	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Bayswater 20-28 TGT	5000.0	824.0	-801.0	36.120276	-115.656597
Bayswater 20-28 BHL	7350.0	824.0	-801.0	36.120276	-115.656597

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Bayswater Weld County 20-28
Company:	Bayswater	TVD Reference:	KBE @ 4882.0ft (Original Well Elev)
Project:	Weld County, CO	MD Reference:	KBE @ 4882.0ft (Original Well Elev)
Site:	SESE 28 T7N R64W	North Reference:	Grid
Well:	Bayswater Weld County 20-28	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	SESE 28 T7N R64W			
Site Position:		Northing:	0.00 ft	Latitude: 36.118325
From: Map		Easting:	0.00 ft	Longitude: -115.653598
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -6.56 °

Well	Bayswater Weld County 20-28			
Well Position	+N/-S	0.0 ft	Northing:	-15.00 ft
	+E/-W	0.0 ft	Easting:	0.00 ft
			Latitude:	36.118284
			Longitude:	-115.653592
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	4,872.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/29/2011	12.44	61.30	49,143

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	315.81

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	
698.9	14.97	315.81	693.3	46.5	-45.2	3.00	3.00	0.00	315.81	
4,646.3	14.97	315.81	4,506.7	777.5	-755.8	0.00	0.00	0.00	0.00	
5,145.3	0.00	360.00	5,000.0	824.0	-801.0	3.00	-3.00	0.00	180.00	Bayswater 20-28 TGT
7,495.3	0.00	360.00	7,350.0	824.0	-801.0	0.00	0.00	0.00	360.00	Bayswater 20-28 BHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Bayswater Weld County 20-28
Company:	Bayswater	TVD Reference:	KBE @ 4882.0ft (Original Well Elev)
Project:	Weld County, CO	MD Reference:	KBE @ 4882.0ft (Original Well Elev)
Site:	SESE 28 T7N R64W	North Reference:	Grid
Well:	Bayswater Weld County 20-28	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	315.81	300.0	1.9	-1.8	2.6	3.00	3.00	
400.0	6.00	315.81	399.6	7.5	-7.3	10.5	3.00	3.00	
500.0	9.00	315.81	498.8	16.9	-16.4	23.5	3.00	3.00	
600.0	12.00	315.81	597.1	29.9	-29.1	41.7	3.00	3.00	
698.9	14.97	315.81	693.3	46.5	-45.2	64.8	3.00	3.00	EOB @ Inc. = 14.97°
700.0	14.97	315.81	694.3	46.7	-45.4	65.1	0.00	0.00	
800.0	14.97	315.81	790.9	65.2	-63.4	90.9	0.00	0.00	
900.0	14.97	315.81	887.5	83.7	-81.4	116.7	0.00	0.00	
1,000.0	14.97	315.81	984.1	102.2	-99.4	142.6	0.00	0.00	
1,100.0	14.97	315.81	1,080.7	120.7	-117.4	168.4	0.00	0.00	
1,200.0	14.97	315.81	1,177.3	139.3	-135.4	194.2	0.00	0.00	
1,300.0	14.97	315.81	1,273.9	157.8	-153.4	220.0	0.00	0.00	
1,400.0	14.97	315.81	1,370.6	176.3	-171.4	245.9	0.00	0.00	
1,500.0	14.97	315.81	1,467.2	194.8	-189.4	271.7	0.00	0.00	
1,600.0	14.97	315.81	1,563.8	213.3	-207.4	297.5	0.00	0.00	
1,700.0	14.97	315.81	1,660.4	231.9	-225.4	323.4	0.00	0.00	
1,800.0	14.97	315.81	1,757.0	250.4	-243.4	349.2	0.00	0.00	
1,900.0	14.97	315.81	1,853.6	268.9	-261.4	375.0	0.00	0.00	
2,000.0	14.97	315.81	1,950.2	287.4	-279.4	400.9	0.00	0.00	
2,100.0	14.97	315.81	2,046.8	305.9	-297.4	426.7	0.00	0.00	
2,200.0	14.97	315.81	2,143.4	324.5	-315.4	452.5	0.00	0.00	
2,300.0	14.97	315.81	2,240.0	343.0	-333.4	478.3	0.00	0.00	
2,400.0	14.97	315.81	2,336.6	361.5	-351.4	504.2	0.00	0.00	
2,500.0	14.97	315.81	2,433.2	380.0	-369.4	530.0	0.00	0.00	
2,600.0	14.97	315.81	2,529.8	398.5	-387.4	555.8	0.00	0.00	
2,700.0	14.97	315.81	2,626.4	417.1	-405.4	581.7	0.00	0.00	
2,800.0	14.97	315.81	2,723.1	435.6	-423.4	607.5	0.00	0.00	
2,900.0	14.97	315.81	2,819.7	454.1	-441.4	633.3	0.00	0.00	
3,000.0	14.97	315.81	2,916.3	472.6	-459.4	659.1	0.00	0.00	
3,100.0	14.97	315.81	3,012.9	491.2	-477.4	685.0	0.00	0.00	
3,200.0	14.97	315.81	3,109.5	509.7	-495.4	710.8	0.00	0.00	
3,300.0	14.97	315.81	3,206.1	528.2	-513.4	736.6	0.00	0.00	
3,400.0	14.97	315.81	3,302.7	546.7	-531.5	762.5	0.00	0.00	
3,500.0	14.97	315.81	3,399.3	565.2	-549.5	788.3	0.00	0.00	
3,600.0	14.97	315.81	3,495.9	583.8	-567.5	814.1	0.00	0.00	
3,700.0	14.97	315.81	3,592.5	602.3	-585.5	839.9	0.00	0.00	
3,800.0	14.97	315.81	3,689.1	620.8	-603.5	865.8	0.00	0.00	
3,900.0	14.97	315.81	3,785.7	639.3	-621.5	891.6	0.00	0.00	
3,906.5	14.97	315.81	3,792.0	640.5	-622.6	893.3	0.00	0.00	Larimer (Parkman)
4,000.0	14.97	315.81	3,882.3	657.8	-639.5	917.4	0.00	0.00	
4,100.0	14.97	315.81	3,978.9	676.4	-657.5	943.3	0.00	0.00	
4,200.0	14.97	315.81	4,075.5	694.9	-675.5	969.1	0.00	0.00	
4,300.0	14.97	315.81	4,172.2	713.4	-693.5	994.9	0.00	0.00	
4,400.0	14.97	315.81	4,268.8	731.9	-711.5	1,020.7	0.00	0.00	
4,500.0	14.97	315.81	4,365.4	750.4	-729.5	1,046.6	0.00	0.00	
4,600.0	14.97	315.81	4,462.0	769.0	-747.5	1,072.4	0.00	0.00	
4,646.3	14.97	315.81	4,506.7	777.5	-755.8	1,084.4	0.00	0.00	Start Drop -3.00
4,700.0	13.36	315.81	4,558.8	787.0	-765.0	1,097.5	3.00	-3.00	
4,800.0	10.36	315.81	4,656.6	801.7	-779.3	1,118.0	3.00	-3.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Bayswater Weld County 20-28
Company:	Bayswater	TVD Reference:	KBE @ 4882.0ft (Original Well Elev)
Project:	Weld County, CO	MD Reference:	KBE @ 4882.0ft (Original Well Elev)
Site:	SESE 28 T7N R64W	North Reference:	Grid
Well:	Bayswater Weld County 20-28	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
4,900.0	7.36	315.81	4,755.4	812.7	-790.0	1,133.4	3.00	-3.00	
5,000.0	4.36	315.81	4,854.9	820.0	-797.2	1,143.6	3.00	-3.00	
5,100.0	1.36	315.81	4,954.8	823.6	-800.6	1,148.6	3.00	-3.00	
5,145.3	0.00	360.00	5,000.0	824.0	-801.0	1,149.2	3.00	-3.00	EOD @ Inc. = 0°
5,200.0	0.00	360.00	5,054.7	824.0	-801.0	1,149.2	0.00	0.00	
5,300.0	0.00	360.00	5,154.7	824.0	-801.0	1,149.2	0.00	0.00	
5,400.0	0.00	360.00	5,254.7	824.0	-801.0	1,149.2	0.00	0.00	
5,500.0	0.00	360.00	5,354.7	824.0	-801.0	1,149.2	0.00	0.00	
5,600.0	0.00	360.00	5,454.7	824.0	-801.0	1,149.2	0.00	0.00	
5,700.0	0.00	360.00	5,554.7	824.0	-801.0	1,149.2	0.00	0.00	
5,800.0	0.00	360.00	5,654.7	824.0	-801.0	1,149.2	0.00	0.00	
5,900.0	0.00	360.00	5,754.7	824.0	-801.0	1,149.2	0.00	0.00	
6,000.0	0.00	360.00	5,854.7	824.0	-801.0	1,149.2	0.00	0.00	
6,100.0	0.00	360.00	5,954.7	824.0	-801.0	1,149.2	0.00	0.00	
6,200.0	0.00	360.00	6,054.7	824.0	-801.0	1,149.2	0.00	0.00	
6,300.0	0.00	360.00	6,154.7	824.0	-801.0	1,149.2	0.00	0.00	
6,400.0	0.00	360.00	6,254.7	824.0	-801.0	1,149.2	0.00	0.00	
6,500.0	0.00	360.00	6,354.7	824.0	-801.0	1,149.2	0.00	0.00	
6,600.0	0.00	360.00	6,454.7	824.0	-801.0	1,149.2	0.00	0.00	
6,700.0	0.00	360.00	6,554.7	824.0	-801.0	1,149.2	0.00	0.00	
6,800.0	0.00	360.00	6,654.7	824.0	-801.0	1,149.2	0.00	0.00	
6,900.0	0.00	360.00	6,754.7	824.0	-801.0	1,149.2	0.00	0.00	
6,987.3	0.00	360.00	6,842.0	824.0	-801.0	1,149.2	0.00	0.00	Niobrara
7,000.0	0.00	360.00	6,854.7	824.0	-801.0	1,149.2	0.00	0.00	
7,100.0	0.00	360.00	6,954.7	824.0	-801.0	1,149.2	0.00	0.00	
7,200.0	0.00	360.00	7,054.7	824.0	-801.0	1,149.2	0.00	0.00	
7,233.3	0.00	360.00	7,088.0	824.0	-801.0	1,149.2	0.00	0.00	Foot Hays
7,277.3	0.00	360.00	7,132.0	824.0	-801.0	1,149.2	0.00	0.00	Codell
7,300.0	0.00	360.00	7,154.7	824.0	-801.0	1,149.2	0.00	0.00	
7,323.3	0.00	360.00	7,178.0	824.0	-801.0	1,149.2	0.00	0.00	Greenhorn
7,400.0	0.00	360.00	7,254.7	824.0	-801.0	1,149.2	0.00	0.00	
7,409.3	0.00	360.00	7,264.0	824.0	-801.0	1,149.2	0.00	0.00	Graneros
7,495.3	0.00	360.00	7,350.0	824.0	-801.0	1,149.2	0.00	0.00	TD @ 7,495' MD

Targets									
Target Name									
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Bayswater 20-28 TGT	0.00	360.00	5,000.0	824.0	-801.0	809.00	-801.00	36.120276	-115.656597
- plan hits target center									
- Point									
Bayswater 20-28 BHL	0.00	360.00	7,350.0	824.0	-801.0	809.00	-801.00	36.120276	-115.656597
- plan hits target center									
- Circle (radius 50.0)									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Bayswater Weld County 20-28
Company:	Bayswater	TVD Reference:	KBE @ 4882.0ft (Original Well Elev)
Project:	Weld County, CO	MD Reference:	KBE @ 4882.0ft (Original Well Elev)
Site:	SESE 28 T7N R64W	North Reference:	Grid
Well:	Bayswater Weld County 20-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,906.5	3,792.0	Larimer (Parkman)		0.00		
6,987.3	6,842.0	Niobrara		0.00		
7,233.3	7,088.0	Foet Hays		0.00		
7,277.3	7,132.0	Codell		0.00		
7,323.3	7,178.0	Greenhorn		0.00		
7,409.3	7,264.0	Graneros		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
698.9	693.3	46.5	-45.2	EOB @ Inc. = 14.97°	
4,646.3	4,506.7	777.5	-755.8	Start Drop -3.00	
5,145.3	5,000.0	824.0	-801.0	EOD @ Inc. = 0°	
7,495.3	7,350.0	824.0	-801.0	TD @ 7,495' MD	