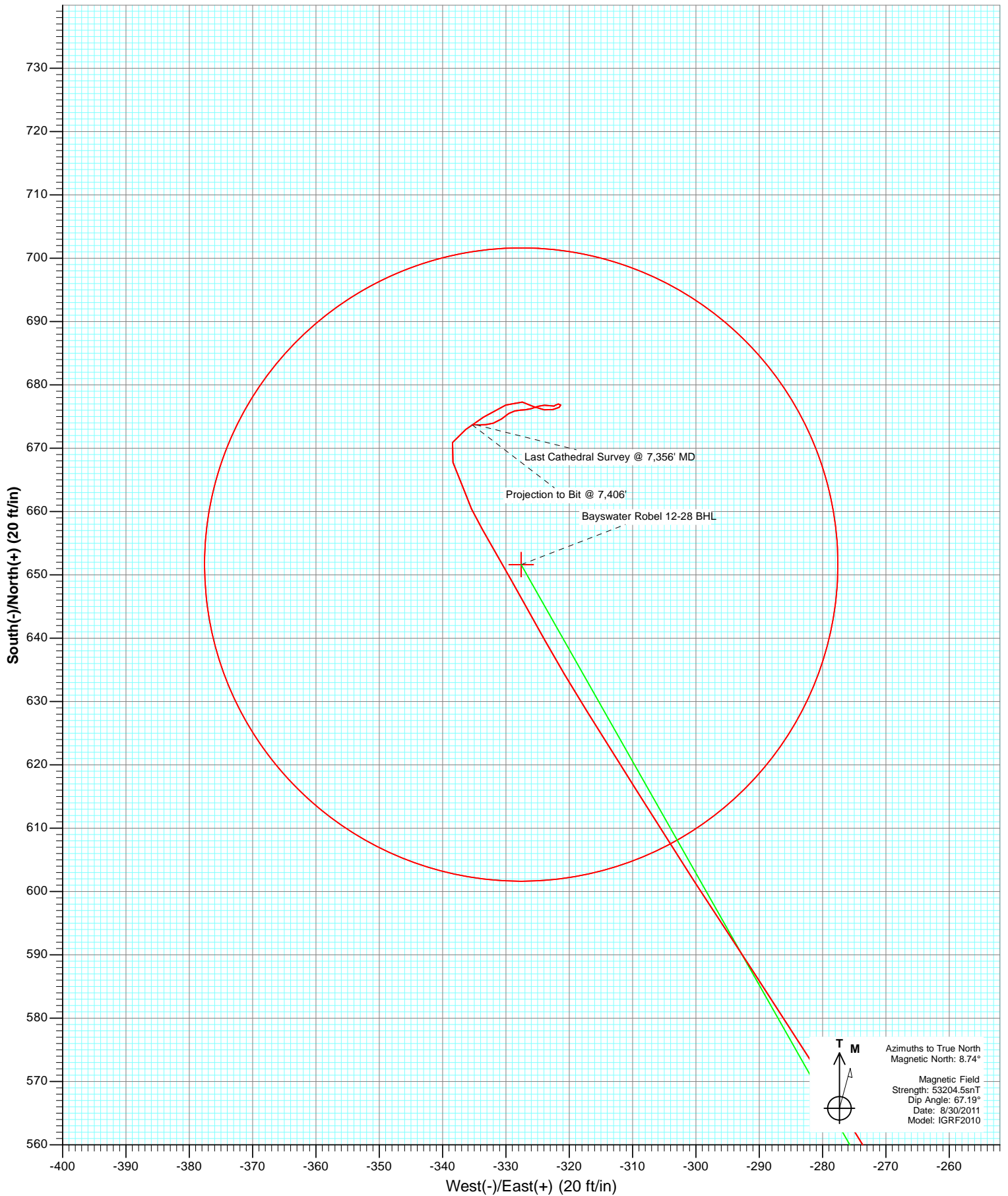


Azimuths to True North  
Magnetic North: 8.74°

Magnetic Field  
Strength: 53204.5nT  
Dip Angle: 67.19°  
Date: 8/30/2011  
Model: IGRF2010

DD Bayswater Robel 12-28 115473/116755						
KBE @ 4862.0ft (Original Well Elev) North American Datum 1983 Well Bayswater Robel 12-28, True North						
Target	Target	Azimuth	Origin Type	N/S	E/W	From TVD
Target	Bayswater Robel 12-28 BHL	651.31	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude		Longitude
Bayswater Robel 12-28 TGT	5000.0	651.6	-327.6	40° 32' 31.344 N		104° 33' 44.082 W
Bayswater Robel 12-28 BHL	7325.0	651.6	-327.6	40° 32' 31.344 N		104° 33' 44.082 W



# Cathedral Energy Services

## Survey Report

<b>Company:</b>	Bayswater Exploration & Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Bayswater Robel 12-28
<b>Project:</b>	Weld County, CO	<b>TVD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Site:</b>	SEC 28 T7N R64W	<b>MD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Well:</b>	Bayswater Robel 12-28	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB

<b>Project</b>	Weld County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		SEC 28 T7N R64W			
Site Position:		Northing:	1,441,053.76 ft	Latitude:	40° 32' 25.053 N
From:	Lat/Long	Easting:	3,260,958.23 ft	Longitude:	104° 33' 39.904 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.61 °

Well	Bayswater Robel 12-28					
Well Position	+N/-S	0.0 ft	Northing:	1,441,038.81 ft	Latitude:	40° 32' 24.905 N
	+E/-W	0.0 ft	Easting:	3,260,963.39 ft	Longitude:	104° 33' 39.839 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,852.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/30/2011	8.74	67.19	53,204

<b>Design</b>	DD				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	333.31	

<b>Survey Program</b>	<b>Date</b>	10/28/2011			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
789.0	7,406.0	Survey #1 (DD)	MWD	Geolink MWD	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Formations / Comments</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
789.0	0.70	209.10	789.0	-4.2	-2.3	-2.7	0.09	0.09		
884.0	1.60	103.60	884.0	-5.0	-1.3	-3.9	2.01	0.95		
980.0	3.20	66.30	979.9	-4.3	2.4	-4.9	2.25	1.67		
1,075.0	3.90	34.20	1,074.7	-0.5	6.7	-3.5	2.18	0.74		
1,170.0	5.70	45.10	1,169.4	5.5	11.8	-0.4	2.12	1.89		
1,262.0	7.00	30.40	1,260.8	13.5	17.9	4.1	2.25	1.41		
1,357.0	8.10	15.20	1,355.0	25.0	22.6	12.2	2.39	1.16		
1,452.0	8.70	359.20	1,449.0	38.6	24.2	23.6	2.53	0.63		
1,544.0	8.60	344.20	1,540.0	52.2	22.3	36.6	2.45	-0.11		
1,638.0	10.20	337.00	1,632.7	66.6	17.1	51.9	2.11	1.70		
1,733.0	12.20	333.10	1,725.9	83.3	9.3	70.3	2.25	2.11		
1,827.0	12.10	324.60	1,817.8	100.2	-0.9	90.0	1.90	-0.11		

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	Bayswater Exploration & Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Bayswater Robel 12-28
<b>Project:</b>	Weld County, CO	<b>TVD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Site:</b>	SEC 28 T7N R64W	<b>MD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Well:</b>	Bayswater Robel 12-28	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,922.0	13.40	323.70	1,910.4	117.2	-13.2	110.7	1.38	1.37	
2,016.0	14.20	323.10	2,001.7	135.2	-26.6	132.7	0.86	0.85	
2,111.0	15.00	326.70	2,093.7	154.8	-40.3	156.4	1.27	0.84	
2,207.0	15.90	330.60	2,186.2	176.6	-53.6	181.9	1.43	0.94	
2,302.0	14.70	330.90	2,277.8	198.5	-65.9	206.9	1.27	-1.26	
2,394.0	15.20	331.70	2,366.7	219.3	-77.3	230.7	0.59	0.54	
2,489.0	16.50	330.90	2,458.1	242.1	-89.7	256.6	1.39	1.37	
2,585.0	15.30	330.70	2,550.4	265.0	-102.6	282.9	1.25	-1.25	
2,680.0	16.60	329.00	2,641.8	287.6	-115.7	308.9	1.45	1.37	
2,775.0	15.80	328.10	2,733.0	310.2	-129.5	335.3	0.88	-0.84	
2,869.0	16.60	329.40	2,823.3	332.6	-143.1	361.5	0.93	0.85	
2,964.0	15.70	328.70	2,914.5	355.3	-156.7	387.8	0.97	-0.95	
3,058.0	15.40	329.10	3,005.1	376.9	-169.7	412.9	0.34	-0.32	
3,152.0	15.00	329.10	3,095.8	398.0	-182.4	437.5	0.43	-0.43	
3,248.0	13.50	330.20	3,188.8	418.4	-194.3	461.1	1.59	-1.56	
3,344.0	14.80	329.70	3,281.9	438.7	-206.1	484.5	1.36	1.35	
3,439.0	14.10	330.00	3,373.9	459.2	-218.0	508.2	0.74	-0.74	
3,533.0	12.90	329.30	3,465.3	478.2	-229.1	530.1	1.29	-1.28	
3,628.0	13.10	332.60	3,557.9	496.8	-239.4	551.4	0.81	0.21	
3,723.0	11.30	333.60	3,650.7	514.7	-248.5	571.5	1.91	-1.89	
3,818.0	9.80	331.30	3,744.1	530.2	-256.5	588.9	1.64	-1.58	
3,911.0	9.80	330.20	3,835.8	544.0	-264.3	604.7	0.20	0.00	
4,006.0	10.10	329.20	3,929.3	558.1	-272.6	621.1	0.36	0.32	
4,101.0	10.50	327.80	4,022.8	572.6	-281.4	638.0	0.50	0.42	
4,196.0	10.70	326.50	4,116.2	587.3	-290.9	655.4	0.33	0.21	
4,291.0	10.50	327.20	4,209.6	601.9	-300.5	672.8	0.25	-0.21	
4,386.0	9.40	327.90	4,303.1	615.8	-309.3	689.1	1.16	-1.16	
4,481.0	8.70	328.10	4,396.9	628.5	-317.2	704.0	0.74	-0.74	
4,575.0	7.10	330.90	4,490.0	639.6	-323.8	716.9	1.75	-1.70	
4,671.0	6.20	330.70	4,585.4	649.3	-329.2	728.0	0.94	-0.94	
4,765.0	4.90	329.80	4,679.0	657.2	-333.7	737.0	1.39	-1.38	
4,859.0	3.30	342.50	4,772.7	663.2	-336.5	743.7	1.95	-1.70	
4,953.0	2.70	332.90	4,866.6	667.8	-338.4	748.6	0.83	-0.64	
5,048.0	1.80	39.60	4,961.5	670.9	-338.4	751.4	2.72	-0.95	
5,142.0	1.80	51.50	5,055.5	673.0	-336.3	752.3	0.40	0.00	
5,235.0	2.40	58.00	5,148.4	674.9	-333.5	752.8	0.69	0.65	
5,331.0	2.40	64.80	5,244.3	676.8	-330.0	752.9	0.30	0.00	
5,425.0	1.10	114.50	5,338.3	677.3	-327.4	752.2	2.01	-1.38	
5,517.0	1.30	110.00	5,430.3	676.6	-325.6	750.7	0.24	0.22	
5,612.0	0.80	102.10	5,525.3	676.1	-324.0	749.5	0.55	-0.53	
5,706.0	0.90	75.90	5,619.2	676.1	-322.6	749.0	0.42	0.11	
5,802.0	0.40	63.80	5,715.2	676.4	-321.6	748.8	0.54	-0.52	
5,898.0	0.30	345.40	5,811.2	676.8	-321.3	749.1	0.47	-0.10	
5,994.0	0.40	254.10	5,907.2	677.0	-321.7	749.4	0.53	0.10	
6,090.0	0.20	231.80	6,003.2	676.8	-322.2	749.4	0.24	-0.21	
6,186.0	0.10	249.90	6,099.2	676.7	-322.4	749.4	0.11	-0.10	
6,281.0	0.60	279.20	6,194.2	676.7	-323.0	749.7	0.54	0.53	
6,375.0	0.60	271.70	6,288.2	676.8	-323.9	750.2	0.08	0.00	
6,470.0	0.60	249.10	6,383.2	676.6	-324.9	750.5	0.25	0.00	
6,565.0	0.80	251.90	6,478.2	676.3	-326.0	750.6	0.21	0.21	
6,660.0	0.40	273.60	6,573.2	676.1	-327.0	750.9	0.48	-0.42	
6,756.0	0.50	261.80	6,669.2	676.0	-327.7	751.2	0.14	0.10	
6,849.0	0.60	261.30	6,762.2	675.9	-328.6	751.5	0.11	0.11	

# Cathedral Energy Services

## Survey Report

<b>Company:</b>	Bayswater Exploration & Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Bayswater Robel 12-28
<b>Project:</b>	Weld County, CO	<b>TVD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Site:</b>	SEC 28 T7N R64W	<b>MD Reference:</b>	KBE @ 4862.0ft (Original Well Elev)
<b>Well:</b>	Bayswater Robel 12-28	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,944.0	0.70	235.30	6,857.2	675.5	-329.6	751.5	0.32	0.11	
7,040.0	1.00	231.60	6,953.2	674.6	-330.7	751.3	0.32	0.31	
7,135.0	0.80	255.00	7,048.2	674.0	-332.0	751.3	0.44	-0.21	
7,229.0	0.70	264.10	7,142.2	673.7	-333.2	751.6	0.17	-0.11	
7,356.0	0.70	273.10	7,269.2	673.7	-334.7	752.3	0.09	0.00	Last Cathedral Survey @ 7,356' MD
7,406.0	0.70	273.10	7,319.2	673.7	-335.3	752.6	0.00	0.00	Projection to Bit @ 7,406'

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 12-28	0.00	0.00	5,000.0	651.6	-327.6	1,441,686.94	3,260,628.92	40° 32' 31.344 N	104° 33' 44.082 W
- survey misses target center by 22.5ft at 5086.3ft MD (4999.8 TVD, 671.8 N, -337.6 E)									
- Point									
Bayswater Robel 12-28	0.00	0.00	7,325.0	651.6	-327.6	1,441,686.94	3,260,628.92	40° 32' 31.344 N	104° 33' 44.082 W
- survey misses target center by 24.1ft at 7406.0ft MD (7319.2 TVD, 673.7 N, -335.3 E)									
- Circle (radius 50.0)									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,356.0	7,269.2	673.7	-334.7	Last Cathedral Survey @ 7,356' MD	
7,406.0	7,319.2	673.7	-335.3	Projection to Bit @ 7,406'	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_