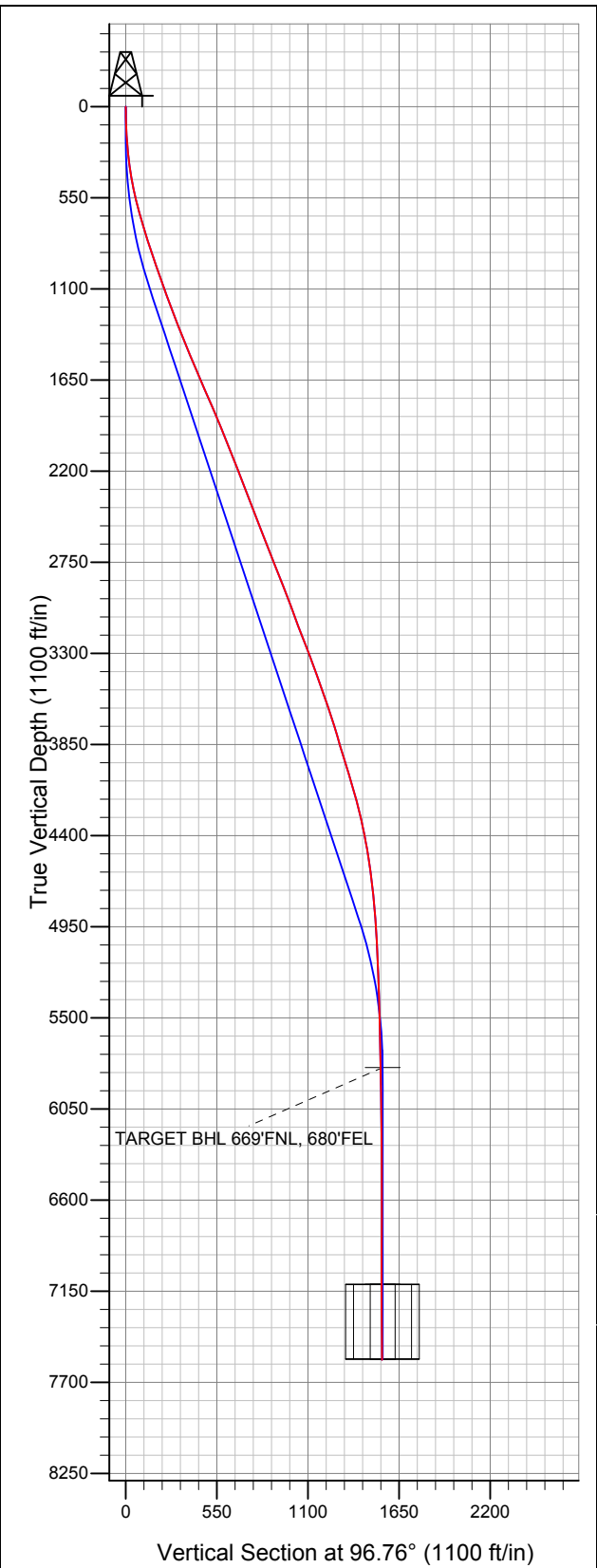


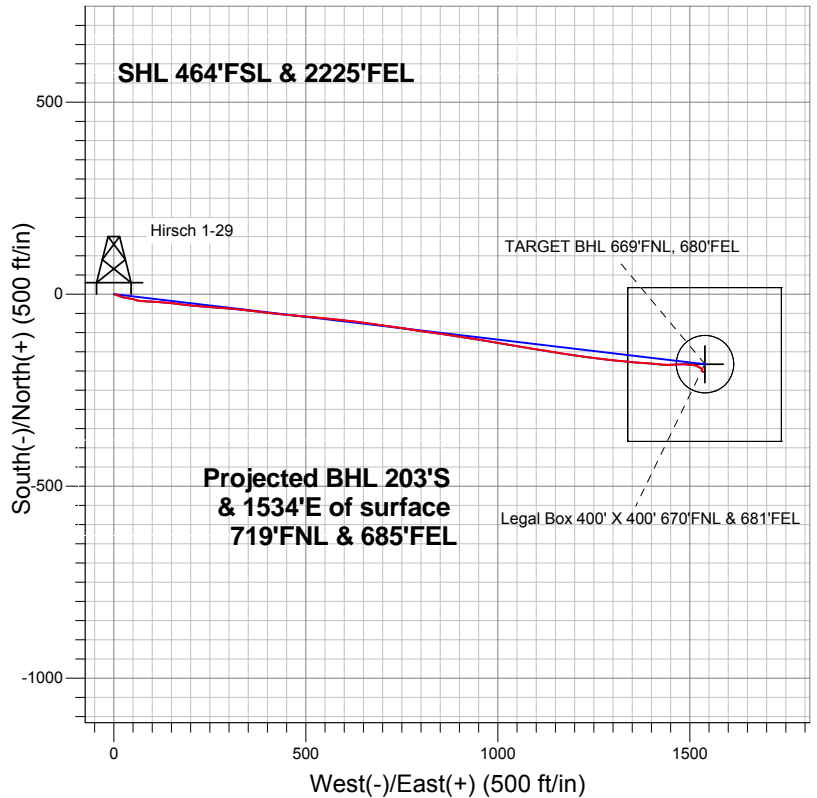


Well Name: Hirsch 1-29

Surface Location: Hirsch 29-C Pad Sec.29-T7N-R66W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4913.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1444616.26 3194332.32 40.551768 -104.800671
RKB - 16' WELL @ 4929.0ft (RKB - 16')



Bayswater Exploration & Production, LLC



LEGEND

- Hirsch 1-29, Wellbore #1, Plan #1 (11-11-13)R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7820'MD & 7564'TVD @ 1548'VS
0.40 deg Inc 152.90 deg AZ

Project: SEC.29-T7N-R66W
Site: Hirsch 29-C Pad Sec.29-T7N-R66W
Well: Hirsch 1-29
Plan: Wellbore #1



Bayswater Exploration & Production, LLC

SEC.29-T7N-R66W

Hirsch 29-C Pad Sec.29-T7N-R66W

Hirsch 1-29

Wellbore #1

Survey: Survey #1

Standard Survey Report

18 November, 2013



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 1-29
Project:	SEC.29-T7N-R66W	TVD Reference:	WELL @ 4929.0ft (RKB - 16')
Site:	Hirsch 29-C Pad Sec.29-T7N-R66W	MD Reference:	WELL @ 4929.0ft (RKB - 16')
Well:	Hirsch 1-29	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.29-T7N-R66W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Hirsch 29-C Pad Sec.29-T7N-R66W			
Site Position:		Northing:	1,444,616.28 ft	Latitude:	40.551768
From:	Lat/Long	Easting:	3,194,332.32 ft	Longitude:	-104.800671
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.45 °

Well	Hirsch 1-29					
Well Position	+N/-S	0.0 ft	Northing:	1,444,616.26 ft	Latitude:	40.551768
	+E/-W	0.0 ft	Easting:	3,194,332.32 ft	Longitude:	-104.800671
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,913.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/29/2013	8.58	67.09	52,956

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	5,800.0	0.0	0.0	96.76	

Survey Program	Date	11/18/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
96.0	7,820.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
96.0	2.10	109.50	96.0	-0.6	1.7	1.7	2.19	2.19	0.00	
186.0	3.70	107.60	185.9	-2.0	6.0	6.2	1.78	1.78	-2.11	
276.0	5.50	110.80	275.6	-4.4	12.8	13.2	2.02	2.00	3.56	
366.0	8.00	109.00	364.9	-8.0	22.7	23.5	2.79	2.78	-2.00	
458.0	10.80	95.80	455.7	-11.0	37.4	38.4	3.82	3.04	-14.35	
548.0	13.50	107.60	543.7	-15.0	55.8	57.2	4.06	3.00	13.11	
639.0	15.30	92.30	631.9	-18.7	77.9	79.6	4.61	1.98	-16.81	
730.0	17.00	93.00	719.3	-19.9	103.2	104.8	1.88	1.87	0.77	
822.0	17.50	94.90	807.1	-21.7	130.4	132.1	0.82	0.54	2.07	
888.0	17.80	95.60	870.0	-23.6	150.3	152.1	0.56	0.45	1.06	
1,012.0	19.60	98.30	987.5	-28.4	189.8	191.8	1.61	1.45	2.18	
1,140.0	20.40	93.50	1,107.8	-32.9	233.3	235.5	1.43	0.63	-3.75	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 1-29
Project:	SEC.29-T7N-R66W	TVD Reference:	WELL @ 4929.0ft (RKB - 16')
Site:	Hirsch 29-C Pad Sec.29-T7N-R66W	MD Reference:	WELL @ 4929.0ft (RKB - 16')
Well:	Hirsch 1-29	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,268.0	20.00	93.50	1,227.9	-35.6	277.4	279.7	0.31	-0.31	0.00
1,397.0	21.90	96.70	1,348.4	-39.7	323.3	325.8	1.72	1.47	2.48
1,525.0	22.60	96.70	1,466.8	-45.4	371.5	374.2	0.55	0.55	0.00
1,653.0	23.10	96.20	1,584.8	-51.0	420.9	423.9	0.42	0.39	-0.39
1,782.0	23.40	95.80	1,703.3	-56.3	471.5	474.8	0.26	0.23	-0.31
1,910.0	23.10	94.90	1,820.9	-61.0	521.8	525.4	0.36	-0.23	-0.70
2,038.0	22.70	94.90	1,938.8	-65.3	571.4	575.1	0.31	-0.31	0.00
2,166.0	21.50	97.90	2,057.4	-70.6	619.3	623.3	1.29	-0.94	2.34
2,295.0	21.40	97.60	2,177.5	-77.0	666.0	670.4	0.12	-0.08	-0.23
2,423.0	21.10	97.80	2,296.8	-83.2	712.0	716.8	0.24	-0.23	0.16
2,551.0	20.90	98.80	2,416.3	-89.8	757.4	762.7	0.32	-0.16	0.78
2,679.0	21.20	98.10	2,535.7	-96.5	802.9	808.6	0.31	0.23	-0.55
2,807.0	21.40	98.50	2,655.0	-103.3	848.9	855.1	0.19	0.16	0.31
2,936.0	21.80	99.00	2,774.9	-110.5	895.8	902.6	0.34	0.31	0.39
3,064.0	21.50	98.80	2,893.9	-117.8	942.5	949.8	0.24	-0.23	-0.16
3,192.0	20.60	98.80	3,013.4	-124.8	987.9	995.7	0.70	-0.70	0.00
3,320.0	20.20	99.90	3,133.3	-132.1	1,031.9	1,040.3	0.43	-0.31	0.86
3,449.0	21.50	99.70	3,253.9	-139.9	1,077.2	1,086.1	1.01	1.01	-0.16
3,577.0	20.40	99.70	3,373.4	-147.6	1,122.3	1,131.8	0.86	-0.86	0.00
3,705.0	19.40	99.00	3,493.8	-154.7	1,165.3	1,175.4	0.80	-0.78	-0.55
3,833.0	19.30	97.90	3,614.5	-160.9	1,207.2	1,217.7	0.30	-0.08	-0.86
3,962.0	17.10	96.90	3,737.1	-166.1	1,247.1	1,258.0	1.72	-1.71	-0.78
4,090.0	16.10	95.60	3,859.8	-170.1	1,283.5	1,294.6	0.83	-0.78	-1.02
4,218.0	17.40	96.50	3,982.3	-174.0	1,320.2	1,331.5	1.04	1.02	0.70
4,347.0	16.40	95.50	4,105.7	-177.9	1,357.5	1,369.0	0.81	-0.78	-0.78
4,475.0	14.30	92.70	4,229.2	-180.4	1,391.3	1,402.8	1.74	-1.64	-2.19
4,603.0	11.90	96.70	4,353.8	-182.7	1,420.2	1,431.8	2.00	-1.88	3.13
4,731.0	9.70	89.50	4,479.6	-184.2	1,444.0	1,455.7	2.01	-1.72	-5.63
4,860.0	8.50	87.20	4,606.9	-183.6	1,464.4	1,475.9	0.97	-0.93	-1.78
4,987.0	6.00	87.40	4,732.9	-182.8	1,480.4	1,491.7	1.97	-1.97	0.16
5,116.0	4.70	100.00	4,861.4	-183.4	1,492.4	1,503.6	1.35	-1.01	9.77
5,244.0	3.10	91.10	4,989.1	-184.4	1,501.0	1,512.3	1.33	-1.25	-6.95
5,372.0	2.60	94.60	5,116.9	-184.7	1,507.4	1,518.6	0.41	-0.39	2.73
5,500.0	2.20	100.70	5,244.8	-185.4	1,512.7	1,524.0	0.37	-0.31	4.77
5,629.0	1.80	114.50	5,373.7	-186.7	1,516.9	1,528.4	0.48	-0.31	10.70
5,800.0	1.10	129.00	5,544.7	-188.9	1,520.7	1,532.3	0.46	-0.41	8.48
5,971.0	1.60	108.10	5,715.6	-190.6	1,524.2	1,536.1	0.41	0.29	-12.22
6,055.6	1.39	113.16	5,800.2	-191.4	1,526.3	1,538.2	0.29	-0.25	5.98
TARGET BHL 669'FNL, 680'FEL									
6,140.0	1.20	119.90	5,884.6	-192.2	1,528.0	1,540.0	0.29	-0.23	7.98
6,311.0	0.70	130.60	6,055.5	-193.8	1,530.3	1,542.5	0.31	-0.29	6.26
6,482.0	0.50	150.10	6,226.5	-195.1	1,531.5	1,543.8	0.17	-0.12	11.40
6,653.0	0.40	146.30	6,397.5	-196.3	1,532.2	1,544.7	0.06	-0.06	-2.22
6,824.0	0.10	210.30	6,568.5	-196.9	1,532.5	1,545.0	0.21	-0.18	37.43
6,995.0	0.10	331.20	6,739.5	-196.9	1,532.3	1,544.8	0.10	0.00	70.70
7,166.0	0.30	251.00	6,910.5	-196.9	1,531.8	1,544.3	0.18	0.12	-46.90
7,337.0	0.40	227.70	7,081.5	-197.5	1,531.0	1,543.6	0.10	0.06	-13.63
7,364.4	0.41	208.51	7,108.9	-197.6	1,530.8	1,543.5	0.49	0.04	-70.16
Legal Box 400' X 400' 670'FNL & 681'FEL - TARGET CIRCLE 669'FNL & 680'FEL									
7,508.0	0.90	158.40	7,252.5	-199.1	1,531.0	1,543.8	0.49	0.34	-34.88
7,679.0	1.20	123.60	7,423.5	-201.4	1,533.0	1,546.0	0.40	0.18	-20.35
7,820.0	0.40	152.90	7,564.5	-202.6	1,534.4	1,547.6	0.62	-0.57	20.78

Company: Bayswater Exploration & Production, LLC
Project: SEC.29-T7N-R66W
Site: Hirsch 29-C Pad Sec.29-T7N-R66W
Well: Hirsch 1-29
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Hirsch 1-29
TVD Reference: WELL @ 4929.0ft (RKB - 16')
MD Reference: WELL @ 4929.0ft (RKB - 16')
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

Checked By: _____ Approved By: _____ Date: _____