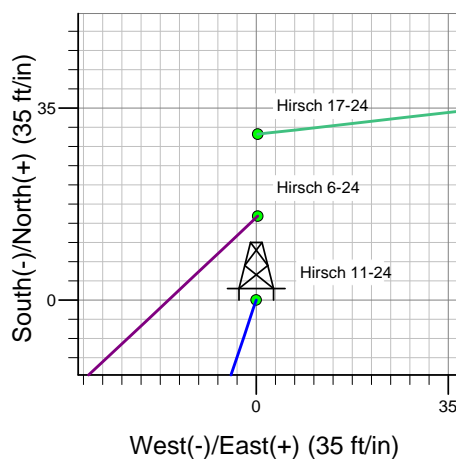
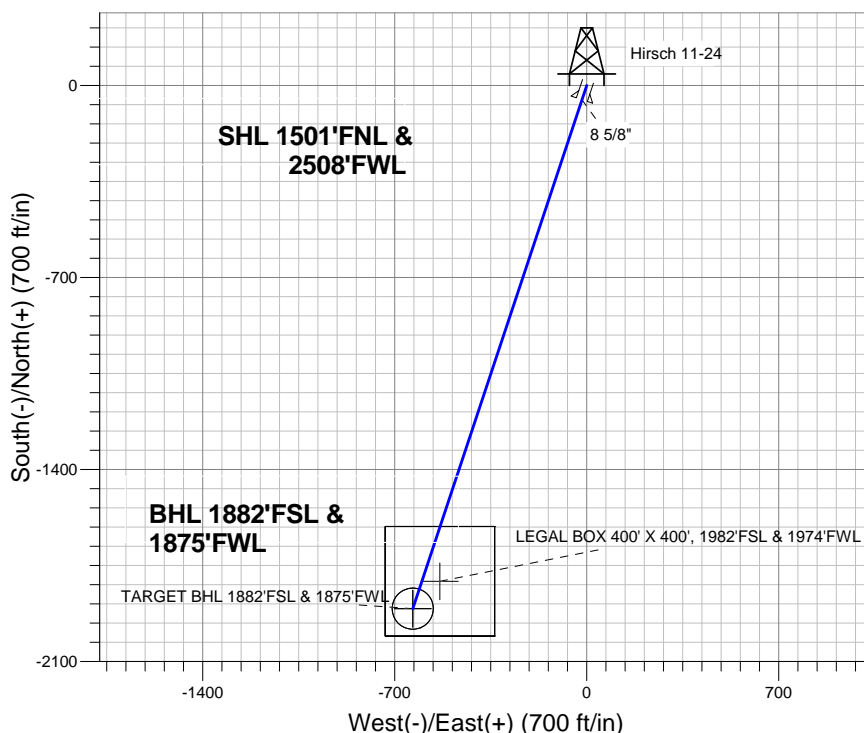
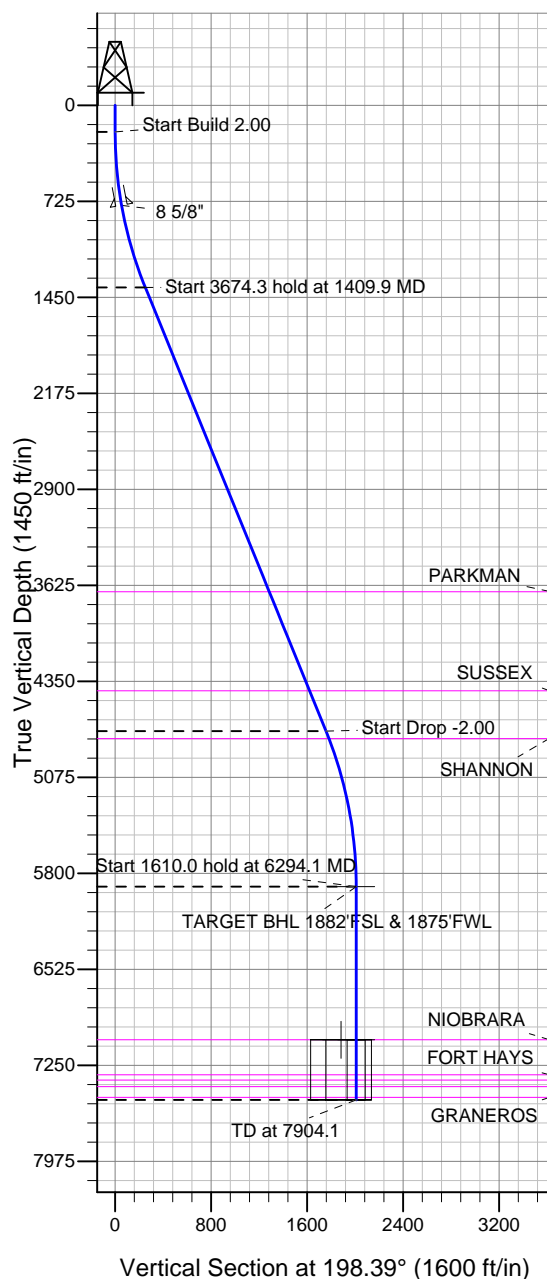


Bayswater Exploration & Production, LLC



Hirsch 11-24
Plan #1 (06-10-13)
15:01, June 13 2013



Azimuths to True North
Magnetic North: 8.65°

Magnetic Field
Strength: 52997.2snT
Dip Angle: 67.10°
Date: 6/10/2013
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1882'FSL & 1875'FWL	5900.0	-1906.8	-634.1	40.557581	-104.844121	Point
LEGAL BOX 400' X 400', 1982'FSL & 1974'FWL	7056.0	-1806.8	-535.1	40.557856	-104.843765	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 1882'FSL & 1875'FWL	7056.0	-1906.8	-634.1	40.557581	-104.844121	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	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	1409.9	24.20	198.39	1374.3	-238.9	-79.4	2.00	198.39	251.7	
4	5084.2	24.20	198.39	4725.7	-1668.0	-554.7	0.00	0.00	1757.8	
5	6294.1	0.00	0.00	5900.0	-1906.8	-634.1	2.00	180.00	2009.5	TARGET BHL 1882'FSL & 1875'FWL
6	7904.1	0.00	0.00	7510.0	-1906.8	-634.1	0.00	0.00	2009.5	



Bayswater Exploration & Production, LLC

SEC.24-T7N-R67W

Hirsch 24-G Pad Sec. 24-T7N-R67W

Hirsch 11-24

Wellbore #1

Plan: Plan #1 (06-10-13)

Standard Planning Report

13 June, 2013



Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

Project	SEC.24-T7N-R67W		
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 24-G Pad Sec. 24-T7N-R67W				
Site Position:		Northing:	1,448,553.15 ft	Latitude:	40.562815
From:	Lat/Long	Easting:	3,182,862.74 ft	Longitude:	-104.841839
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.43 °

Well		Hirsch 11-24				
Well Position	+N-S	0.0 ft	Northing:	1,448,553.14 ft	Latitude:	40.562815
	+E-W	0.0 ft	Easting:	3,182,862.74 ft	Longitude:	-104.841839
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,035.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/10/2013	8.65	67.10	52,997

Design	Plan #1 (06-10-13)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	198.39

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	
1,409.9	24.20	198.39	1,374.3	-238.9	-79.4	2.00	2.00	0.00	198.39	
5,084.2	24.20	198.39	4,725.7	-1,668.0	-554.7	0.00	0.00	0.00	0.00	
6,294.1	0.00	0.00	5,900.0	-1,906.8	-634.1	2.00	-2.00	0.00	180.00	TARGET BHL 1882
7,904.1	0.00	0.00	7,510.0	-1,906.8	-634.1	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

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)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.80	198.39	240.0	-0.3	-0.1	0.3	2.00	2.00	0.00
280.0	1.60	198.39	280.0	-1.1	-0.4	1.1	2.00	2.00	0.00
320.0	2.40	198.39	320.0	-2.4	-0.8	2.5	2.00	2.00	0.00
360.0	3.20	198.39	359.9	-4.2	-1.4	4.5	2.00	2.00	0.00
400.0	4.00	198.39	399.8	-6.6	-2.2	7.0	2.00	2.00	0.00
440.0	4.80	198.39	439.7	-9.5	-3.2	10.0	2.00	2.00	0.00
480.0	5.60	198.39	479.6	-13.0	-4.3	13.7	2.00	2.00	0.00
520.0	6.40	198.39	519.3	-16.9	-5.6	17.9	2.00	2.00	0.00
560.0	7.20	198.39	559.1	-21.4	-7.1	22.6	2.00	2.00	0.00
600.0	8.00	198.39	598.7	-26.5	-8.8	27.9	2.00	2.00	0.00
640.0	8.80	198.39	638.3	-32.0	-10.6	33.7	2.00	2.00	0.00
680.0	9.60	198.39	677.8	-38.1	-12.7	40.1	2.00	2.00	0.00
720.0	10.40	198.39	717.1	-44.7	-14.9	47.1	2.00	2.00	0.00
758.5	11.17	198.39	755.0	-51.5	-17.1	54.3	2.00	2.00	0.00
8 5/8"									
760.0	11.20	198.39	756.4	-51.8	-17.2	54.6	2.00	2.00	0.00
800.0	12.00	198.39	795.6	-59.4	-19.8	62.6	2.00	2.00	0.00
840.0	12.80	198.39	834.7	-67.6	-22.5	71.2	2.00	2.00	0.00
880.0	13.60	198.39	873.6	-76.2	-25.3	80.3	2.00	2.00	0.00
920.0	14.40	198.39	912.4	-85.4	-28.4	90.0	2.00	2.00	0.00
960.0	15.20	198.39	951.1	-95.1	-31.6	100.2	2.00	2.00	0.00
1,000.0	16.00	198.39	989.6	-105.3	-35.0	111.0	2.00	2.00	0.00
1,040.0	16.80	198.39	1,028.0	-116.0	-38.6	122.3	2.00	2.00	0.00
1,080.0	17.60	198.39	1,066.2	-127.2	-42.3	134.1	2.00	2.00	0.00
1,120.0	18.40	198.39	1,104.3	-139.0	-46.2	146.5	2.00	2.00	0.00
1,160.0	19.20	198.39	1,142.1	-151.2	-50.3	159.3	2.00	2.00	0.00
1,200.0	20.00	198.39	1,179.8	-163.9	-54.5	172.8	2.00	2.00	0.00
1,240.0	20.80	198.39	1,217.3	-177.2	-58.9	186.7	2.00	2.00	0.00
1,280.0	21.60	198.39	1,254.6	-190.9	-63.5	201.2	2.00	2.00	0.00
1,320.0	22.40	198.39	1,291.7	-205.1	-68.2	216.2	2.00	2.00	0.00
1,360.0	23.20	198.39	1,328.6	-219.8	-73.1	231.7	2.00	2.00	0.00
1,400.0	24.00	198.39	1,365.2	-235.0	-78.2	247.7	2.00	2.00	0.00
1,409.9	24.20	198.39	1,374.3	-238.9	-79.4	251.7	2.00	2.00	0.00
1,440.0	24.20	198.39	1,401.7	-250.6	-83.3	264.1	0.00	0.00	0.00
1,480.0	24.20	198.39	1,438.2	-266.1	-88.5	280.4	0.00	0.00	0.00
1,520.0	24.20	198.39	1,474.7	-281.7	-93.7	296.8	0.00	0.00	0.00
1,560.0	24.20	198.39	1,511.2	-297.2	-98.8	313.2	0.00	0.00	0.00
1,600.0	24.20	198.39	1,547.6	-312.8	-104.0	329.6	0.00	0.00	0.00
1,640.0	24.20	198.39	1,584.1	-328.4	-109.2	346.0	0.00	0.00	0.00
1,680.0	24.20	198.39	1,620.6	-343.9	-114.4	362.4	0.00	0.00	0.00
1,720.0	24.20	198.39	1,657.1	-359.5	-119.5	378.8	0.00	0.00	0.00
1,760.0	24.20	198.39	1,693.6	-375.0	-124.7	395.2	0.00	0.00	0.00
1,800.0	24.20	198.39	1,730.1	-390.6	-129.9	411.6	0.00	0.00	0.00
1,840.0	24.20	198.39	1,766.6	-406.1	-135.1	428.0	0.00	0.00	0.00
1,880.0	24.20	198.39	1,803.0	-421.7	-140.2	444.4	0.00	0.00	0.00
1,920.0	24.20	198.39	1,839.5	-437.3	-145.4	460.8	0.00	0.00	0.00
1,960.0	24.20	198.39	1,876.0	-452.8	-150.6	477.2	0.00	0.00	0.00
2,000.0	24.20	198.39	1,912.5	-468.4	-155.8	493.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

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)	Turn Rate (°/100ft)
2,040.0	24.20	198.39	1,949.0	-483.9	-160.9	510.0	0.00	0.00	0.00
2,080.0	24.20	198.39	1,985.5	-499.5	-166.1	526.4	0.00	0.00	0.00
2,120.0	24.20	198.39	2,022.0	-515.0	-171.3	542.8	0.00	0.00	0.00
2,160.0	24.20	198.39	2,058.4	-530.6	-176.4	559.2	0.00	0.00	0.00
2,200.0	24.20	198.39	2,094.9	-546.2	-181.6	575.6	0.00	0.00	0.00
2,240.0	24.20	198.39	2,131.4	-561.7	-186.8	592.0	0.00	0.00	0.00
2,280.0	24.20	198.39	2,167.9	-577.3	-192.0	608.4	0.00	0.00	0.00
2,320.0	24.20	198.39	2,204.4	-592.8	-197.1	624.8	0.00	0.00	0.00
2,360.0	24.20	198.39	2,240.9	-608.4	-202.3	641.2	0.00	0.00	0.00
2,400.0	24.20	198.39	2,277.4	-624.0	-207.5	657.5	0.00	0.00	0.00
2,440.0	24.20	198.39	2,313.8	-639.5	-212.7	673.9	0.00	0.00	0.00
2,480.0	24.20	198.39	2,350.3	-655.1	-217.8	690.3	0.00	0.00	0.00
2,520.0	24.20	198.39	2,386.8	-670.6	-223.0	706.7	0.00	0.00	0.00
2,560.0	24.20	198.39	2,423.3	-686.2	-228.2	723.1	0.00	0.00	0.00
2,600.0	24.20	198.39	2,459.8	-701.7	-233.4	739.5	0.00	0.00	0.00
2,640.0	24.20	198.39	2,496.3	-717.3	-238.5	755.9	0.00	0.00	0.00
2,680.0	24.20	198.39	2,532.8	-732.9	-243.7	772.3	0.00	0.00	0.00
2,720.0	24.20	198.39	2,569.2	-748.4	-248.9	788.7	0.00	0.00	0.00
2,760.0	24.20	198.39	2,605.7	-764.0	-254.1	805.1	0.00	0.00	0.00
2,800.0	24.20	198.39	2,642.2	-779.5	-259.2	821.5	0.00	0.00	0.00
2,840.0	24.20	198.39	2,678.7	-795.1	-264.4	837.9	0.00	0.00	0.00
2,880.0	24.20	198.39	2,715.2	-810.7	-269.6	854.3	0.00	0.00	0.00
2,920.0	24.20	198.39	2,751.7	-826.2	-274.7	870.7	0.00	0.00	0.00
2,960.0	24.20	198.39	2,788.2	-841.8	-279.9	887.1	0.00	0.00	0.00
3,000.0	24.20	198.39	2,824.6	-857.3	-285.1	903.5	0.00	0.00	0.00
3,040.0	24.20	198.39	2,861.1	-872.9	-290.3	919.9	0.00	0.00	0.00
3,080.0	24.20	198.39	2,897.6	-888.4	-295.4	936.3	0.00	0.00	0.00
3,120.0	24.20	198.39	2,934.1	-904.0	-300.6	952.7	0.00	0.00	0.00
3,160.0	24.20	198.39	2,970.6	-919.6	-305.8	969.1	0.00	0.00	0.00
3,200.0	24.20	198.39	3,007.1	-935.1	-311.0	985.5	0.00	0.00	0.00
3,240.0	24.20	198.39	3,043.5	-950.7	-316.1	1,001.9	0.00	0.00	0.00
3,280.0	24.20	198.39	3,080.0	-966.2	-321.3	1,018.3	0.00	0.00	0.00
3,320.0	24.20	198.39	3,116.5	-981.8	-326.5	1,034.6	0.00	0.00	0.00
3,360.0	24.20	198.39	3,153.0	-997.3	-331.7	1,051.0	0.00	0.00	0.00
3,400.0	24.20	198.39	3,189.5	-1,012.9	-336.8	1,067.4	0.00	0.00	0.00
3,440.0	24.20	198.39	3,226.0	-1,028.5	-342.0	1,083.8	0.00	0.00	0.00
3,480.0	24.20	198.39	3,262.5	-1,044.0	-347.2	1,100.2	0.00	0.00	0.00
3,520.0	24.20	198.39	3,298.9	-1,059.6	-352.4	1,116.6	0.00	0.00	0.00
3,560.0	24.20	198.39	3,335.4	-1,075.1	-357.5	1,133.0	0.00	0.00	0.00
3,600.0	24.20	198.39	3,371.9	-1,090.7	-362.7	1,149.4	0.00	0.00	0.00
3,640.0	24.20	198.39	3,408.4	-1,106.3	-367.9	1,165.8	0.00	0.00	0.00
3,680.0	24.20	198.39	3,444.9	-1,121.8	-373.0	1,182.2	0.00	0.00	0.00
3,720.0	24.20	198.39	3,481.4	-1,137.4	-378.2	1,198.6	0.00	0.00	0.00
3,760.0	24.20	198.39	3,517.9	-1,152.9	-383.4	1,215.0	0.00	0.00	0.00
3,800.0	24.20	198.39	3,554.3	-1,168.5	-388.6	1,231.4	0.00	0.00	0.00
3,840.0	24.20	198.39	3,590.8	-1,184.0	-393.7	1,247.8	0.00	0.00	0.00
3,880.0	24.20	198.39	3,627.3	-1,199.6	-398.9	1,264.2	0.00	0.00	0.00
3,920.0	24.20	198.39	3,663.8	-1,215.2	-404.1	1,280.6	0.00	0.00	0.00
3,930.1	24.20	198.39	3,673.0	-1,219.1	-405.4	1,284.7	0.00	0.00	0.00
PARKMAN									
3,960.0	24.20	198.39	3,700.3	-1,230.7	-409.3	1,297.0	0.00	0.00	0.00
4,000.0	24.20	198.39	3,736.8	-1,246.3	-414.4	1,313.4	0.00	0.00	0.00
4,040.0	24.20	198.39	3,773.3	-1,261.8	-419.6	1,329.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

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)	Turn Rate (°/100ft)
4,080.0	24.20	198.39	3,809.7	-1,277.4	-424.8	1,346.2	0.00	0.00	0.00
4,120.0	24.20	198.39	3,846.2	-1,292.9	-430.0	1,362.6	0.00	0.00	0.00
4,160.0	24.20	198.39	3,882.7	-1,308.5	-435.1	1,379.0	0.00	0.00	0.00
4,200.0	24.20	198.39	3,919.2	-1,324.1	-440.3	1,395.4	0.00	0.00	0.00
4,240.0	24.20	198.39	3,955.7	-1,339.6	-445.5	1,411.7	0.00	0.00	0.00
4,280.0	24.20	198.39	3,992.2	-1,355.2	-450.7	1,428.1	0.00	0.00	0.00
4,320.0	24.20	198.39	4,028.7	-1,370.7	-455.8	1,444.5	0.00	0.00	0.00
4,360.0	24.20	198.39	4,065.1	-1,386.3	-461.0	1,460.9	0.00	0.00	0.00
4,400.0	24.20	198.39	4,101.6	-1,401.9	-466.2	1,477.3	0.00	0.00	0.00
4,440.0	24.20	198.39	4,138.1	-1,417.4	-471.3	1,493.7	0.00	0.00	0.00
4,480.0	24.20	198.39	4,174.6	-1,433.0	-476.5	1,510.1	0.00	0.00	0.00
4,520.0	24.20	198.39	4,211.1	-1,448.5	-481.7	1,526.5	0.00	0.00	0.00
4,560.0	24.20	198.39	4,247.6	-1,464.1	-486.9	1,542.9	0.00	0.00	0.00
4,600.0	24.20	198.39	4,284.1	-1,479.6	-492.0	1,559.3	0.00	0.00	0.00
4,640.0	24.20	198.39	4,320.5	-1,495.2	-497.2	1,575.7	0.00	0.00	0.00
4,680.0	24.20	198.39	4,357.0	-1,510.8	-502.4	1,592.1	0.00	0.00	0.00
4,720.0	24.20	198.39	4,393.5	-1,526.3	-507.6	1,608.5	0.00	0.00	0.00
4,750.1	24.20	198.39	4,421.0	-1,538.0	-511.5	1,620.9	0.00	0.00	0.00
SUSSEX									
4,760.0	24.20	198.39	4,430.0	-1,541.9	-512.7	1,624.9	0.00	0.00	0.00
4,800.0	24.20	198.39	4,466.5	-1,557.4	-517.9	1,641.3	0.00	0.00	0.00
4,840.0	24.20	198.39	4,503.0	-1,573.0	-523.1	1,657.7	0.00	0.00	0.00
4,880.0	24.20	198.39	4,539.4	-1,588.5	-528.3	1,674.1	0.00	0.00	0.00
4,920.0	24.20	198.39	4,575.9	-1,604.1	-533.4	1,690.5	0.00	0.00	0.00
4,960.0	24.20	198.39	4,612.4	-1,619.7	-538.6	1,706.9	0.00	0.00	0.00
5,000.0	24.20	198.39	4,648.9	-1,635.2	-543.8	1,723.3	0.00	0.00	0.00
5,040.0	24.20	198.39	4,685.4	-1,650.8	-549.0	1,739.7	0.00	0.00	0.00
5,080.0	24.20	198.39	4,721.9	-1,666.3	-554.1	1,756.1	0.00	0.00	0.00
5,084.2	24.20	198.39	4,725.7	-1,668.0	-554.7	1,757.8	0.00	0.00	0.00
5,120.0	23.48	198.39	4,758.5	-1,681.7	-559.2	1,772.3	2.00	-2.00	0.00
5,144.5	22.99	198.39	4,781.0	-1,690.9	-562.3	1,781.9	2.00	-2.00	0.00
SHANNON									
5,160.0	22.68	198.39	4,795.2	-1,696.6	-564.2	1,787.9	2.00	-2.00	0.00
5,200.0	21.88	198.39	4,832.3	-1,711.0	-569.0	1,803.1	2.00	-2.00	0.00
5,240.0	21.08	198.39	4,869.5	-1,724.9	-573.6	1,817.7	2.00	-2.00	0.00
5,280.0	20.28	198.39	4,906.9	-1,738.3	-578.0	1,831.9	2.00	-2.00	0.00
5,320.0	19.48	198.39	4,944.5	-1,751.2	-582.3	1,845.5	2.00	-2.00	0.00
5,360.0	18.68	198.39	4,982.3	-1,763.6	-586.5	1,858.6	2.00	-2.00	0.00
5,400.0	17.88	198.39	5,020.3	-1,775.5	-590.4	1,871.1	2.00	-2.00	0.00
5,440.0	17.08	198.39	5,058.5	-1,786.9	-594.2	1,883.1	2.00	-2.00	0.00
5,480.0	16.28	198.39	5,096.8	-1,797.8	-597.8	1,894.6	2.00	-2.00	0.00
5,520.0	15.48	198.39	5,135.2	-1,808.2	-601.3	1,905.6	2.00	-2.00	0.00
5,560.0	14.68	198.39	5,173.9	-1,818.1	-604.6	1,916.0	2.00	-2.00	0.00
5,600.0	13.88	198.39	5,212.6	-1,827.4	-607.7	1,925.8	2.00	-2.00	0.00
5,640.0	13.08	198.39	5,251.5	-1,836.3	-610.6	1,935.2	2.00	-2.00	0.00
5,680.0	12.28	198.39	5,290.5	-1,844.6	-613.4	1,943.9	2.00	-2.00	0.00
5,720.0	11.48	198.39	5,329.7	-1,852.4	-616.0	1,952.2	2.00	-2.00	0.00
5,760.0	10.68	198.39	5,368.9	-1,859.7	-618.4	1,959.9	2.00	-2.00	0.00
5,800.0	9.88	198.39	5,408.3	-1,866.5	-620.7	1,967.0	2.00	-2.00	0.00
5,840.0	9.08	198.39	5,447.8	-1,872.8	-622.8	1,973.6	2.00	-2.00	0.00
5,880.0	8.28	198.39	5,487.3	-1,878.5	-624.7	1,979.6	2.00	-2.00	0.00
5,920.0	7.48	198.39	5,526.9	-1,883.7	-626.4	1,985.1	2.00	-2.00	0.00
5,960.0	6.68	198.39	5,566.6	-1,888.4	-628.0	1,990.0	2.00	-2.00	0.00
6,000.0	5.88	198.39	5,606.4	-1,892.5	-629.3	1,994.4	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

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)	Turn Rate (°/100ft)
6,040.0	5.08	198.39	5,646.2	-1,896.2	-630.5	1,998.2	2.00	-2.00	0.00
6,080.0	4.28	198.39	5,686.1	-1,899.3	-631.6	2,001.5	2.00	-2.00	0.00
6,120.0	3.48	198.39	5,726.0	-1,901.8	-632.4	2,004.2	2.00	-2.00	0.00
6,160.0	2.68	198.39	5,765.9	-1,903.9	-633.1	2,006.4	2.00	-2.00	0.00
6,200.0	1.88	198.39	5,805.9	-1,905.4	-633.6	2,008.0	2.00	-2.00	0.00
6,240.0	1.08	198.39	5,845.9	-1,906.4	-633.9	2,009.0	2.00	-2.00	0.00
6,280.0	0.28	198.39	5,885.9	-1,906.8	-634.1	2,009.5	2.00	-2.00	0.00
6,294.1	0.00	0.00	5,900.0	-1,906.8	-634.1	2,009.5	2.00	-2.00	1,142.50
TARGET BHL 1882'FSL & 1875'FWL									
6,320.0	0.00	0.00	5,925.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,360.0	0.00	0.00	5,965.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,005.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,440.0	0.00	0.00	6,045.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,480.0	0.00	0.00	6,085.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,520.0	0.00	0.00	6,125.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,560.0	0.00	0.00	6,165.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,205.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,640.0	0.00	0.00	6,245.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,680.0	0.00	0.00	6,285.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,720.0	0.00	0.00	6,325.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,760.0	0.00	0.00	6,365.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,405.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,840.0	0.00	0.00	6,445.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,880.0	0.00	0.00	6,485.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,920.0	0.00	0.00	6,525.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
6,960.0	0.00	0.00	6,565.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,605.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,040.0	0.00	0.00	6,645.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,080.0	0.00	0.00	6,685.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,120.0	0.00	0.00	6,725.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,160.0	0.00	0.00	6,765.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,200.0	0.00	0.00	6,805.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,240.0	0.00	0.00	6,845.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,280.0	0.00	0.00	6,885.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,320.0	0.00	0.00	6,925.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,360.0	0.00	0.00	6,965.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,005.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,440.0	0.00	0.00	7,045.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,450.1	0.00	0.00	7,056.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
NIOBRARA - TARGET CIRCLE 1882'FSL & 1875'FWL - LEGAL BOX 400' X 400', 1982'FSL & 1974'FWL									
7,480.0	0.00	0.00	7,085.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,520.0	0.00	0.00	7,125.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,560.0	0.00	0.00	7,165.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,205.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,640.0	0.00	0.00	7,245.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,680.0	0.00	0.00	7,285.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,715.1	0.00	0.00	7,321.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
FORT HAYS									
7,720.0	0.00	0.00	7,325.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,755.1	0.00	0.00	7,361.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
CODELL									
7,760.0	0.00	0.00	7,365.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,405.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Hirsch 11-24
Company:	Bayswater Exploration & Production, LLC	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Project:	SEC.24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	North Reference:	True
Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-10-13)		

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)	Turn Rate (°/100ft)	
7,805.1	0.00	0.00	7,411.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00	
GREENHORN										
7,840.0	0.00	0.00	7,445.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00	
7,880.0	0.00	0.00	7,485.9	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00	
7,885.1	0.00	0.00	7,491.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00	
GRANEROS										
7,904.1	0.00	0.00	7,510.0	-1,906.8	-634.1	2,009.5	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
758.5	755.0	8 5/8"		8-5/8	12-1/4

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,930.1	3,673.0	PARKMAN		0.00		
4,750.1	4,421.0	SUSSEX		0.00		
5,144.5	4,781.0	SHANNON		0.00		
7,450.1	7,056.0	NIOBRARA		0.00		
7,715.1	7,321.0	FORT HAYS		0.00		
7,755.1	7,361.0	CODELL		0.00		
7,805.1	7,411.0	GREENHORN		0.00		
7,885.1	7,491.0	GRANEROS		0.00		



Bayswater Exploration & Production, LLC

SEC.24-T7N-R67W

Hirsch 24-G Pad Sec. 24-T7N-R67W

Hirsch 11-24

Wellbore #1

Plan #1 (06-10-13)

Anticollision Report

13 June, 2013



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 11-24
Project:	SEC.24-T7N-R67W	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Reference Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (06-10-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (06-10-13)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 6/13/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,904.1	Plan #1 (06-10-13) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Hirsch 24-G Pad Sec. 24-T7N-R67W						
Hirsch 17-24 - Wellbore #1 - Plan #1 (06-10-13)	200.0	200.0	30.2	29.6	44.847	CC, ES
Hirsch 17-24 - Wellbore #1 - Plan #1 (06-10-13)	500.0	499.1	45.9	43.9	23.131	SF
Hirsch 6-24 - Wellbore #1 - Plan #1 (06-10-13)	200.0	200.0	15.3	14.6	22.696	CC, ES
Hirsch 6-24 - Wellbore #1 - Plan #1 (06-10-13)	400.0	399.8	22.1	20.5	14.300	SF

Offset Design Hirsch 24-G Pad Sec. 24-T7N-R67W - Hirsch 17-24 - Wellbore #1 - Plan #1 (06-10-13)												Offset Site Error: 0.0 ft		
Survey Program: 0-MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.53	30.2	0.3	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	0.53	30.2	0.3	30.2	30.0	0.22	134.540		
200.0	200.0	200.0	200.0	0.3	0.3	0.53	30.2	0.3	30.2	29.6	0.67	44.847 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.6	163.08	30.2	0.3	31.9	30.8	1.11	28.799		
400.0	399.8	399.8	399.8	0.8	0.8	165.42	30.2	0.3	36.9	35.4	1.54	23.947		
500.0	499.5	499.1	499.0	1.0	1.0	170.24	30.4	2.0	45.9	43.9	1.98	23.131 SF		
600.0	598.7	597.3	597.2	1.3	1.2	176.96	31.0	7.0	59.6	57.2	2.43	24.500		
700.0	697.5	694.2	693.6	1.6	1.4	-176.71	31.9	15.3	78.9	76.0	2.91	27.114		
800.0	795.6	789.1	787.9	2.0	1.7	-171.55	33.2	26.5	103.8	100.4	3.41	30.433		
900.0	893.1	881.8	879.5	2.4	2.0	-167.52	34.8	40.4	134.4	130.4	3.94	34.074		
1,000.0	989.6	971.7	968.0	3.0	2.3	-164.38	36.6	56.8	170.4	165.9	4.51	37.813		
1,100.0	1,085.3	1,058.7	1,053.0	3.5	2.6	-161.90	38.7	75.2	211.7	206.6	5.10	41.496		
1,200.0	1,179.8	1,142.5	1,134.2	4.1	3.0	-159.88	41.0	95.4	258.0	252.2	5.73	45.052		
1,300.0	1,273.2	1,222.8	1,211.5	4.8	3.4	-158.18	43.5	116.9	309.0	302.6	6.38	48.444		
1,400.0	1,365.2	1,299.7	1,284.9	5.6	3.9	-156.71	46.0	139.5	364.4	357.4	7.06	51.605		
1,500.0	1,456.4	1,381.1	1,362.5	6.4	4.3	-155.90	48.9	164.4	422.2	414.4	7.80	54.108		
1,600.0	1,547.6	1,462.6	1,440.0	7.2	4.8	-155.33	51.7	189.4	480.1	471.5	8.56	56.056		
1,700.0	1,638.9	1,544.1	1,517.5	7.9	5.3	-154.89	54.5	214.3	538.0	528.7	9.33	57.643		
1,800.0	1,730.1	1,625.6	1,595.0	8.7	5.8	-154.53	57.3	239.2	595.9	585.8	10.11	58.931		
1,900.0	1,821.3	1,707.0	1,672.5	9.6	6.4	-154.23	60.2	264.2	653.9	643.0	10.90	59.989		
2,000.0	1,912.5	1,788.5	1,750.0	10.4	6.9	-153.98	63.0	289.1	711.8	700.1	11.69	60.867		
2,100.0	2,003.7	1,870.0	1,827.5	11.2	7.4	-153.77	65.8	314.0	769.7	757.2	12.49	61.607		
2,200.0	2,094.9	1,951.4	1,905.0	12.0	7.9	-153.59	68.6	339.0	827.7	814.4	13.30	62.239		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 11-24
Project:	SEC.24-T7N-R67W	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Reference Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (06-10-13)	Offset TVD Reference:	Offset Datum

Offset Design Hirsch 24-G Pad Sec. 24-T7N-R67W - Hirsch 17-24 - Wellbore #1 - Plan #1 (06-10-13)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
2,300.0	2,186.1	2,032.9	1,982.5	12.8	8.4	-153.44	71.5	363.9	885.6	871.5	14.11	62.784	
2,400.0	2,277.4	2,114.4	2,060.1	13.6	9.0	-153.30	74.3	388.8	943.6	928.7	14.92	63.257	

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 11-24
Project:	SEC.24-T7N-R67W	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Reference Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (06-10-13)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	1.04	15.3	0.3	15.3	15.3	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	1.04	15.3	0.3	15.3	15.1	0.22	68.089		
200.0	200.0	200.0	200.0	0.3	0.3	1.04	15.3	0.3	15.3	14.6	0.67	22.696 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.6	164.39	15.3	0.3	17.0	15.9	1.11	15.324		
400.0	399.8	399.8	399.8	0.8	0.8	168.03	15.3	0.3	22.1	20.5	1.54	14.300 SF		
500.0	499.5	499.5	499.5	1.0	1.0	171.39	15.3	0.3	30.6	28.7	1.99	15.394		
600.0	598.7	598.7	598.7	1.3	1.2	173.81	15.3	0.3	42.7	40.3	2.44	17.482		
700.0	697.5	697.5	697.5	1.6	1.5	175.44	15.3	0.3	58.3	55.4	2.90	20.094		
800.0	795.6	795.6	795.6	2.0	1.7	176.54	15.3	0.3	77.3	74.0	3.36	23.000		
900.0	893.1	893.1	893.1	2.4	1.9	177.30	15.3	0.3	99.8	96.0	3.83	26.081		
1,000.0	989.6	989.6	989.6	3.0	2.1	177.83	15.3	0.3	125.7	121.4	4.29	29.266		
1,100.0	1,085.3	1,089.4	1,089.4	3.5	2.3	177.97	14.3	-0.7	153.7	149.0	4.75	32.387		
1,200.0	1,179.8	1,190.4	1,190.2	4.1	2.5	177.52	11.0	-4.3	182.3	177.1	5.18	35.156		
1,300.0	1,273.2	1,292.0	1,291.5	4.8	2.7	176.70	5.1	-10.6	211.2	205.6	5.64	37.450		
1,400.0	1,365.2	1,394.4	1,393.1	5.6	2.9	175.65	-3.3	-19.5	240.7	234.6	6.12	39.338		
1,500.0	1,456.4	1,497.8	1,495.3	6.4	3.2	174.45	-14.3	-31.1	269.3	262.6	6.68	40.320		
1,600.0	1,547.6	1,594.6	1,590.6	7.2	3.5	173.33	-25.9	-43.5	296.3	289.1	7.26	40.810		
1,700.0	1,638.9	1,690.7	1,685.2	7.9	3.8	172.41	-37.5	-55.8	323.5	315.6	7.87	41.093		
1,800.0	1,730.1	1,786.8	1,779.8	8.7	4.1	171.63	-49.0	-68.1	350.7	342.2	8.50	41.257		
1,900.0	1,821.3	1,883.0	1,874.5	9.6	4.4	170.96	-60.6	-80.4	377.9	368.8	9.14	41.338		
2,000.0	1,912.5	1,979.1	1,969.1	10.4	4.8	170.38	-72.2	-92.7	405.2	395.4	9.79	41.376		
2,100.0	2,003.7	2,075.2	2,063.8	11.2	5.1	169.87	-83.7	-105.0	432.5	422.0	10.46	41.350		
2,200.0	2,094.9	2,171.3	2,158.4	12.0	5.5	169.42	-95.3	-117.2	459.8	448.7	11.13	41.305		
2,300.0	2,186.1	2,267.5	2,253.0	12.8	5.8	169.03	-106.9	-129.5	487.2	475.4	11.81	41.242		
2,400.0	2,277.4	2,363.6	2,347.7	13.6	6.2	168.67	-118.4	-141.8	514.6	502.1	12.50	41.166		
2,500.0	2,368.6	2,459.7	2,442.3	14.4	6.6	168.35	-130.0	-154.1	542.0	528.8	13.19	41.083		
2,600.0	2,459.8	2,555.9	2,536.9	15.2	6.9	168.07	-141.5	-166.4	569.4	555.5	13.89	40.995		
2,700.0	2,551.0	2,652.0	2,631.6	16.0	7.3	167.80	-153.1	-178.7	596.9	582.3	14.59	40.905		
2,800.0	2,642.2	2,748.1	2,726.2	16.8	7.7	167.57	-164.7	-191.0	624.3	609.0	15.30	40.814		
2,900.0	2,733.4	2,844.3	2,820.8	17.6	8.1	167.35	-176.2	-203.3	651.8	635.8	16.00	40.724		
3,000.0	2,824.6	2,940.4	2,915.5	18.5	8.4	167.15	-187.8	-215.6	679.2	662.5	16.72	40.635		
3,100.0	2,915.9	3,036.5	3,010.1	19.3	8.8	166.96	-199.4	-227.8	706.7	689.3	17.43	40.548		
3,200.0	3,007.1	3,132.6	3,104.8	20.1	9.2	166.79	-210.9	-240.1	734.2	716.0	18.14	40.463		
3,300.0	3,098.3	3,228.8	3,199.4	20.9	9.6	166.63	-222.5	-252.4	761.6	742.8	18.86	40.381		
3,400.0	3,189.5	3,324.9	3,294.0	21.7	10.0	166.48	-234.1	-264.7	789.1	769.5	19.58	40.302		
3,500.0	3,280.7	3,421.0	3,388.7	22.5	10.4	166.35	-245.6	-277.0	816.6	796.3	20.30	40.225		
3,600.0	3,371.9	3,517.2	3,483.3	23.3	10.7	166.22	-257.2	-289.3	844.1	823.1	21.02	40.150		
3,700.0	3,463.1	3,613.3	3,577.9	24.1	11.1	166.10	-268.8	-301.6	871.6	849.9	21.75	40.079		
3,800.0	3,554.3	3,709.4	3,672.6	25.0	11.5	165.98	-280.3	-313.9	899.1	876.6	22.47	40.010		
3,900.0	3,645.6	3,805.6	3,767.2	25.8	11.9	165.88	-291.9	-326.2	926.6	903.4	23.20	39.943		
4,000.0	3,736.8	3,901.7	3,861.9	26.6	12.3	165.78	-303.5	-338.5	954.1	930.2	23.92	39.879		
4,100.0	3,828.0	3,997.8	3,956.5	27.4	12.7	165.68	-315.0	-350.7	981.6	957.0	24.65	39.817		

Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 11-24
Project:	SEC.24-T7N-R67W	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Reference Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (06-10-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5051.0ft (RKB-16')

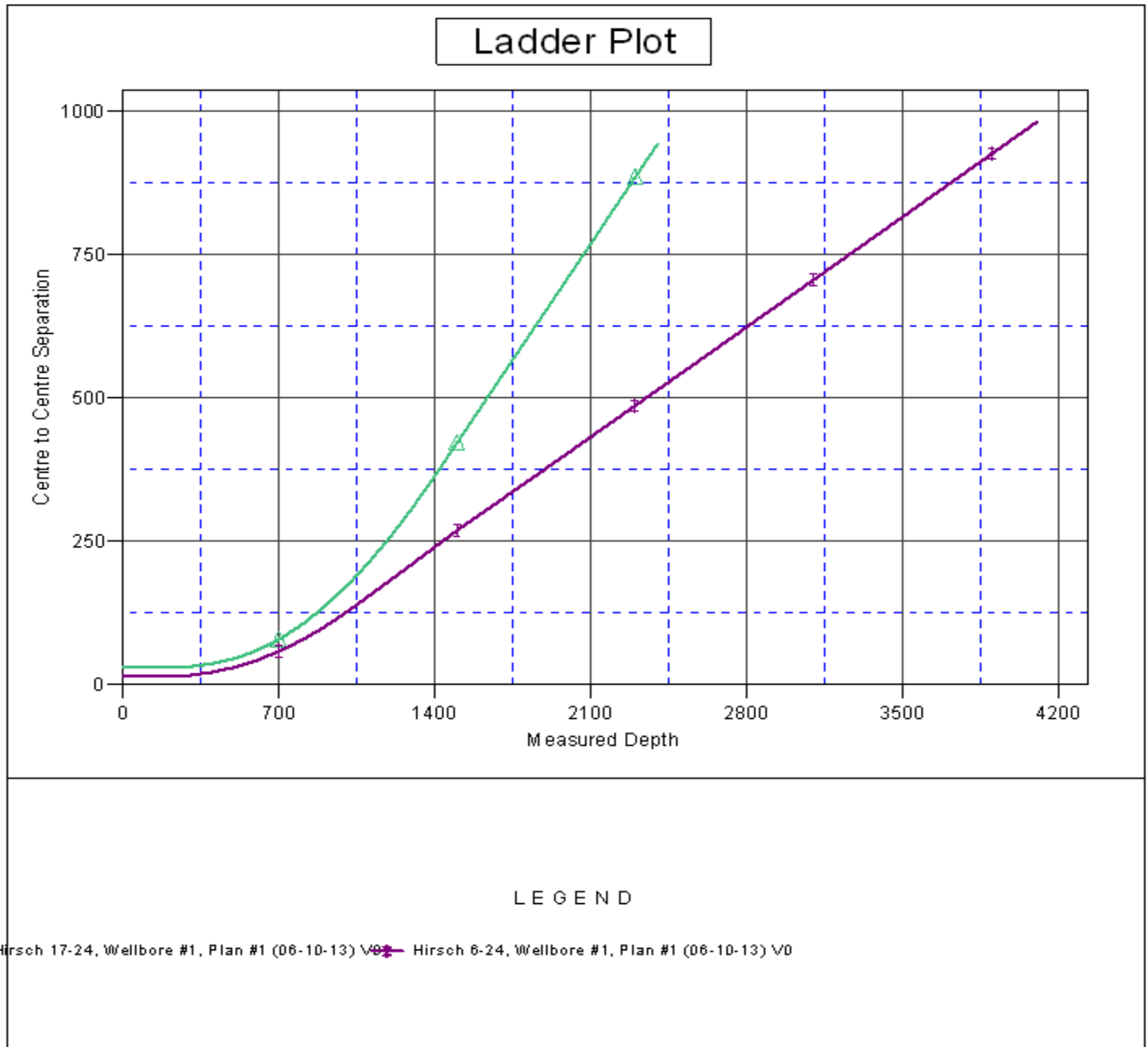
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Hirsch 11-24

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.43°



Company:	Bayswater Exploration & Production, LLC	Local Co-ordinate Reference:	Well Hirsch 11-24
Project:	SEC.24-T7N-R67W	TVD Reference:	WELL @ 5051.0ft (RKB-16')
Reference Site:	Hirsch 24-G Pad Sec. 24-T7N-R67W	MD Reference:	WELL @ 5051.0ft (RKB-16')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Hirsch 11-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (06-10-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5051.0ft (RKB-16')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Hirsch 11-24
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.43°

