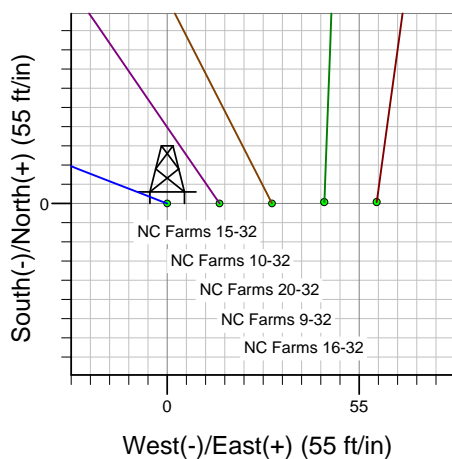
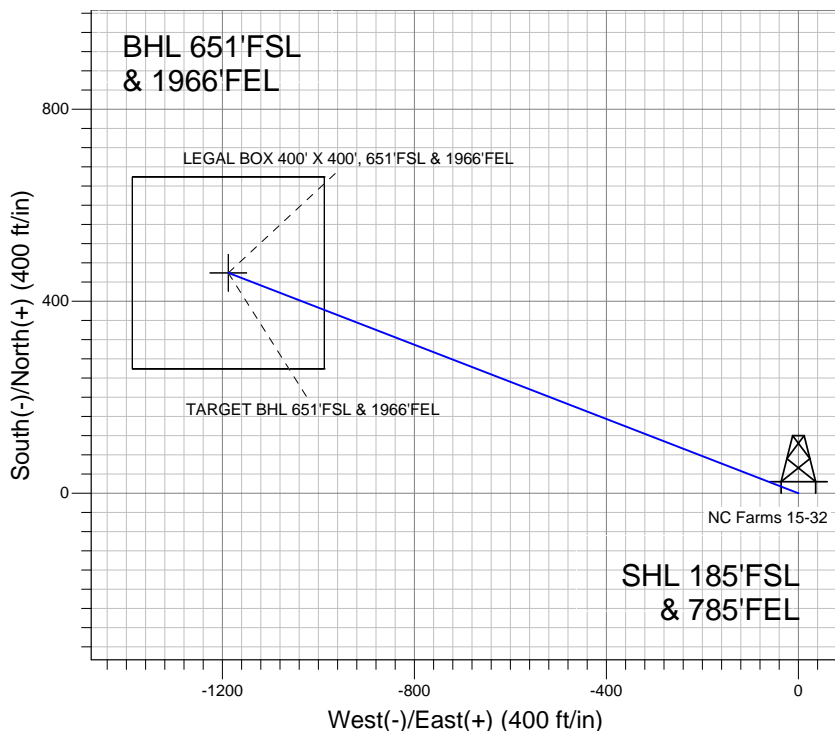
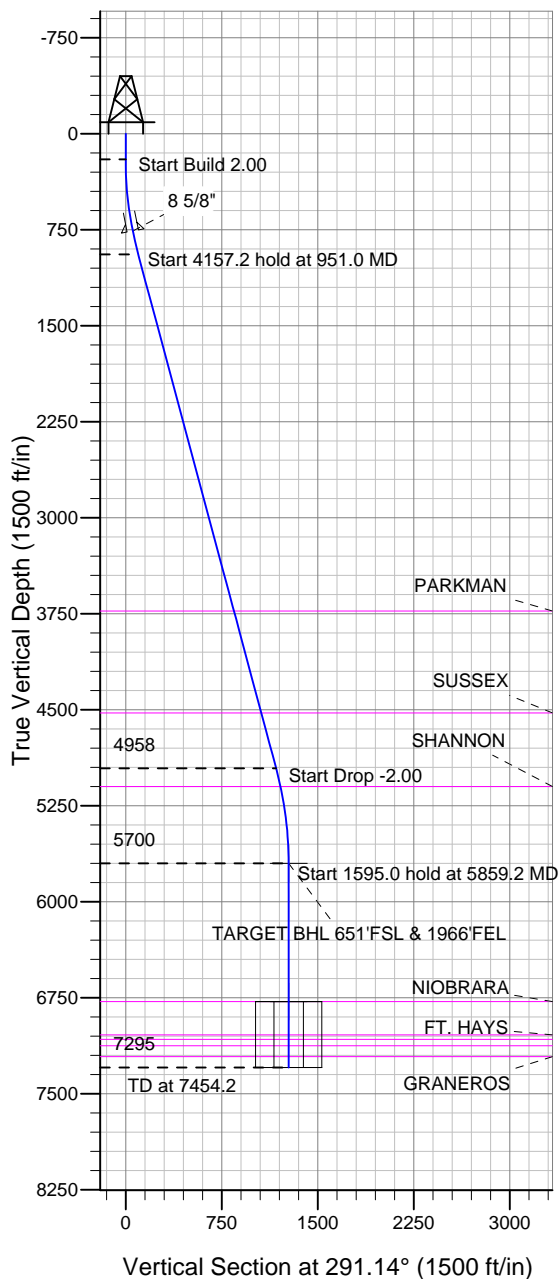


Well Name: NC Farms 15-32

Surface Location: NC Farms 16-32 Pad Sec.32-T7N-R64W
 North American Datum 1983, US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4804.0
 +N/-S 0.0 +E/-W 0.0 Northing 1434685.91 Easting 3259232.63 Latitude 40.522872 Longitude -104.567510 Slot
 Original Well EleWELL @ 4815.0ft (Original Well Elev)

BAYSWATER EXPLORATION & PRODUCTION



NC Farms 16-32 Pad Sec.32-T7N-R64W
 NC Farms 15-32
 Plan #1 (11-03-11)
 12:11, November 04 2011



Azimuths to True North
 Magnetic North: 8.72°
 Magnetic Field
 Strength: 53176.3snT
 Dip Angle: 67.17°
 Date: 11/3/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 651'FSL & 1966'FEL	5700.0	459.1	-1187.4	40.524132	-104.571781	Point
LEGAL BOX 400' X 400', 651'FSL & 1966'FEL	6779.0	459.1	-1187.4	40.524132	-104.571781	Rectangle (Sides: L400.0 W400.0)

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	951.0	15.02	291.14	942.4	35.3	-91.3	2.00	291.14	97.9	
4	5108.2	15.02	291.14	4957.6	423.8	-1096.1	0.00	0.00	1175.2	
5	5859.2	0.00	0.00	5700.0	459.1	-1187.4	2.00	180.00	1273.0	TARGET BHL 651'FSL & 1966'FEL
6	7454.2	0.00	0.00	7295.0	459.1	-1187.4	0.00	0.00	1273.0	



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.32-T7N-R64W

NC Farms 16-32 Pad Sec.32-T7N-R64W

NC Farms 15-32

Wellbore #1

Plan: Plan #1 (11-03-11)

Standard Planning Report

04 November, 2011

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

Project	SEC.32-T7N-R64W, 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						NC Farms 16-32 Pad Sec.32-T7N-R64W											
Site Position:						Northing:			1,434,686.95 ft			Latitude:			40.522873		
From:			Lat/Long			Easting:			3,259,292.67 ft			Longitude:			-104.567294		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.60 °		

Well	NC Farms 15-32					
Well Position	+N/-S	-0.4 ft	Northing:	1,434,685.91 ft	Latitude:	40.522872
	+E/-W	-60.1 ft	Easting:	3,259,232.63 ft	Longitude:	-104.567510
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,804.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/3/2011	8.72	67.17	53,176

Design	Plan #1 (11-03-11)			
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	291.14

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	
951.0	15.02	291.14	942.4	35.3	-91.3	2.00	2.00	0.00	291.14	
5,108.2	15.02	291.14	4,957.6	423.8	-1,096.1	0.00	0.00	0.00	0.00	
5,859.2	0.00	0.00	5,700.0	459.1	-1,187.4	2.00	-2.00	0.00	180.00	TARGET BHL 651'I
7,454.2	0.00	0.00	7,295.0	459.1	-1,187.4	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

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	291.14	240.0	0.1	-0.3	0.3	2.00	2.00	0.00
280.0	1.60	291.14	280.0	0.4	-1.0	1.1	2.00	2.00	0.00
320.0	2.40	291.14	320.0	0.9	-2.3	2.5	2.00	2.00	0.00
360.0	3.20	291.14	359.9	1.6	-4.2	4.5	2.00	2.00	0.00
400.0	4.00	291.14	399.8	2.5	-6.5	7.0	2.00	2.00	0.00
440.0	4.80	291.14	439.7	3.6	-9.4	10.0	2.00	2.00	0.00
480.0	5.60	291.14	479.6	4.9	-12.8	13.7	2.00	2.00	0.00
520.0	6.40	291.14	519.3	6.4	-16.7	17.9	2.00	2.00	0.00
560.0	7.20	291.14	559.1	8.1	-21.1	22.6	2.00	2.00	0.00
600.0	8.00	291.14	598.7	10.1	-26.0	27.9	2.00	2.00	0.00
640.0	8.80	291.14	638.3	12.2	-31.5	33.7	2.00	2.00	0.00
680.0	9.60	291.14	677.8	14.5	-37.4	40.1	2.00	2.00	0.00
720.0	10.40	291.14	717.1	17.0	-43.9	47.1	2.00	2.00	0.00
760.0	11.20	291.14	756.4	19.7	-50.9	54.6	2.00	2.00	0.00
763.6	11.27	291.14	760.0	19.9	-51.5	55.3	2.00	2.00	0.00
8 5/8"									
800.0	12.00	291.14	795.6	22.6	-58.4	62.6	2.00	2.00	0.00
840.0	12.80	291.14	834.7	25.7	-66.4	71.2	2.00	2.00	0.00
880.0	13.60	291.14	873.6	29.0	-74.9	80.3	2.00	2.00	0.00
920.0	14.40	291.14	912.4	32.5	-83.9	90.0	2.00	2.00	0.00
951.0	15.02	291.14	942.4	35.3	-91.3	97.9	2.00	2.00	0.00
960.0	15.02	291.14	951.1	36.1	-93.5	100.2	0.00	0.00	0.00
1,000.0	15.02	291.14	989.8	39.9	-103.1	110.6	0.00	0.00	0.00
1,040.0	15.02	291.14	1,028.4	43.6	-112.8	120.9	0.00	0.00	0.00
1,080.0	15.02	291.14	1,067.0	47.4	-122.5	131.3	0.00	0.00	0.00
1,120.0	15.02	291.14	1,105.7	51.1	-132.1	141.7	0.00	0.00	0.00
1,160.0	15.02	291.14	1,144.3	54.8	-141.8	152.0	0.00	0.00	0.00
1,200.0	15.02	291.14	1,182.9	58.6	-151.5	162.4	0.00	0.00	0.00
1,240.0	15.02	291.14	1,221.6	62.3	-161.1	172.8	0.00	0.00	0.00
1,280.0	15.02	291.14	1,260.2	66.0	-170.8	183.1	0.00	0.00	0.00
1,320.0	15.02	291.14	1,298.8	69.8	-180.5	193.5	0.00	0.00	0.00
1,360.0	15.02	291.14	1,337.5	73.5	-190.1	203.9	0.00	0.00	0.00
1,400.0	15.02	291.14	1,376.1	77.3	-199.8	214.2	0.00	0.00	0.00
1,440.0	15.02	291.14	1,414.7	81.0	-209.5	224.6	0.00	0.00	0.00
1,480.0	15.02	291.14	1,453.4	84.7	-219.1	235.0	0.00	0.00	0.00
1,520.0	15.02	291.14	1,492.0	88.5	-228.8	245.3	0.00	0.00	0.00
1,560.0	15.02	291.14	1,530.6	92.2	-238.5	255.7	0.00	0.00	0.00
1,600.0	15.02	291.14	1,569.3	96.0	-248.2	266.1	0.00	0.00	0.00
1,640.0	15.02	291.14	1,607.9	99.7	-257.8	276.4	0.00	0.00	0.00
1,680.0	15.02	291.14	1,646.5	103.4	-267.5	286.8	0.00	0.00	0.00
1,720.0	15.02	291.14	1,685.2	107.2	-277.2	297.2	0.00	0.00	0.00
1,760.0	15.02	291.14	1,723.8	110.9	-286.8	307.5	0.00	0.00	0.00
1,800.0	15.02	291.14	1,762.4	114.6	-296.5	317.9	0.00	0.00	0.00
1,840.0	15.02	291.14	1,801.1	118.4	-306.2	328.3	0.00	0.00	0.00
1,880.0	15.02	291.14	1,839.7	122.1	-315.8	338.6	0.00	0.00	0.00
1,920.0	15.02	291.14	1,878.3	125.9	-325.5	349.0	0.00	0.00	0.00
1,960.0	15.02	291.14	1,917.0	129.6	-335.2	359.3	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

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)
2,000.0	15.02	291.14	1,955.6	133.3	-344.8	369.7	0.00	0.00	0.00
2,040.0	15.02	291.14	1,994.2	137.1	-354.5	380.1	0.00	0.00	0.00
2,080.0	15.02	291.14	2,032.9	140.8	-364.2	390.4	0.00	0.00	0.00
2,120.0	15.02	291.14	2,071.5	144.5	-373.8	400.8	0.00	0.00	0.00
2,160.0	15.02	291.14	2,110.1	148.3	-383.5	411.2	0.00	0.00	0.00
2,200.0	15.02	291.14	2,148.8	152.0	-393.2	421.5	0.00	0.00	0.00
2,240.0	15.02	291.14	2,187.4	155.8	-402.8	431.9	0.00	0.00	0.00
2,280.0	15.02	291.14	2,226.0	159.5	-412.5	442.3	0.00	0.00	0.00
2,320.0	15.02	291.14	2,264.7	163.2	-422.2	452.6	0.00	0.00	0.00
2,360.0	15.02	291.14	2,303.3	167.0	-431.8	463.0	0.00	0.00	0.00
2,400.0	15.02	291.14	2,341.9	170.7	-441.5	473.4	0.00	0.00	0.00
2,440.0	15.02	291.14	2,380.6	174.5	-451.2	483.7	0.00	0.00	0.00
2,480.0	15.02	291.14	2,419.2	178.2	-460.9	494.1	0.00	0.00	0.00
2,520.0	15.02	291.14	2,457.8	181.9	-470.5	504.5	0.00	0.00	0.00
2,560.0	15.02	291.14	2,496.5	185.7	-480.2	514.8	0.00	0.00	0.00
2,600.0	15.02	291.14	2,535.1	189.4	-489.9	525.2	0.00	0.00	0.00
2,640.0	15.02	291.14	2,573.7	193.1	-499.5	535.6	0.00	0.00	0.00
2,680.0	15.02	291.14	2,612.4	196.9	-509.2	545.9	0.00	0.00	0.00
2,720.0	15.02	291.14	2,651.0	200.6	-518.9	556.3	0.00	0.00	0.00
2,760.0	15.02	291.14	2,689.6	204.4	-528.5	566.7	0.00	0.00	0.00
2,800.0	15.02	291.14	2,728.3	208.1	-538.2	577.0	0.00	0.00	0.00
2,840.0	15.02	291.14	2,766.9	211.8	-547.9	587.4	0.00	0.00	0.00
2,880.0	15.02	291.14	2,805.5	215.6	-557.5	597.8	0.00	0.00	0.00
2,920.0	15.02	291.14	2,844.2	219.3	-567.2	608.1	0.00	0.00	0.00
2,960.0	15.02	291.14	2,882.8	223.1	-576.9	618.5	0.00	0.00	0.00
3,000.0	15.02	291.14	2,921.4	226.8	-586.5	628.9	0.00	0.00	0.00
3,040.0	15.02	291.14	2,960.1	230.5	-596.2	639.2	0.00	0.00	0.00
3,080.0	15.02	291.14	2,998.7	234.3	-605.9	649.6	0.00	0.00	0.00
3,120.0	15.02	291.14	3,037.3	238.0	-615.5	660.0	0.00	0.00	0.00
3,160.0	15.02	291.14	3,076.0	241.7	-625.2	670.3	0.00	0.00	0.00
3,200.0	15.02	291.14	3,114.6	245.5	-634.9	680.7	0.00	0.00	0.00
3,240.0	15.02	291.14	3,153.2	249.2	-644.5	691.1	0.00	0.00	0.00
3,280.0	15.02	291.14	3,191.9	253.0	-654.2	701.4	0.00	0.00	0.00
3,320.0	15.02	291.14	3,230.5	256.7	-663.9	711.8	0.00	0.00	0.00
3,360.0	15.02	291.14	3,269.1	260.4	-673.6	722.2	0.00	0.00	0.00
3,400.0	15.02	291.14	3,307.8	264.2	-683.2	732.5	0.00	0.00	0.00
3,440.0	15.02	291.14	3,346.4	267.9	-692.9	742.9	0.00	0.00	0.00
3,480.0	15.02	291.14	3,385.0	271.6	-702.6	753.2	0.00	0.00	0.00
3,520.0	15.02	291.14	3,423.7	275.4	-712.2	763.6	0.00	0.00	0.00
3,560.0	15.02	291.14	3,462.3	279.1	-721.9	774.0	0.00	0.00	0.00
3,600.0	15.02	291.14	3,500.9	282.9	-731.6	784.3	0.00	0.00	0.00
3,640.0	15.02	291.14	3,539.6	286.6	-741.2	794.7	0.00	0.00	0.00
3,680.0	15.02	291.14	3,578.2	290.3	-750.9	805.1	0.00	0.00	0.00
3,720.0	15.02	291.14	3,616.8	294.1	-760.6	815.4	0.00	0.00	0.00
3,760.0	15.02	291.14	3,655.5	297.8	-770.2	825.8	0.00	0.00	0.00
3,800.0	15.02	291.14	3,694.1	301.6	-779.9	836.2	0.00	0.00	0.00
3,836.1	15.02	291.14	3,729.0	304.9	-788.6	845.5	0.00	0.00	0.00
PARKMAN									
3,840.0	15.02	291.14	3,732.7	305.3	-789.6	846.5	0.00	0.00	0.00
3,880.0	15.02	291.14	3,771.4	309.0	-799.2	856.9	0.00	0.00	0.00
3,920.0	15.02	291.14	3,810.0	312.8	-808.9	867.3	0.00	0.00	0.00
3,960.0	15.02	291.14	3,848.6	316.5	-818.6	877.6	0.00	0.00	0.00
4,000.0	15.02	291.14	3,887.3	320.2	-828.2	888.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

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)
4,040.0	15.02	291.14	3,925.9	324.0	-837.9	898.4	0.00	0.00	0.00
4,080.0	15.02	291.14	3,964.5	327.7	-847.6	908.7	0.00	0.00	0.00
4,120.0	15.02	291.14	4,003.2	331.5	-857.2	919.1	0.00	0.00	0.00
4,160.0	15.02	291.14	4,041.8	335.2	-866.9	929.5	0.00	0.00	0.00
4,200.0	15.02	291.14	4,080.4	338.9	-876.6	939.8	0.00	0.00	0.00
4,240.0	15.02	291.14	4,119.1	342.7	-886.3	950.2	0.00	0.00	0.00
4,280.0	15.02	291.14	4,157.7	346.4	-895.9	960.6	0.00	0.00	0.00
4,320.0	15.02	291.14	4,196.3	350.2	-905.6	970.9	0.00	0.00	0.00
4,360.0	15.02	291.14	4,235.0	353.9	-915.3	981.3	0.00	0.00	0.00
4,400.0	15.02	291.14	4,273.6	357.6	-924.9	991.7	0.00	0.00	0.00
4,440.0	15.02	291.14	4,312.2	361.4	-934.6	1,002.0	0.00	0.00	0.00
4,480.0	15.02	291.14	4,350.9	365.1	-944.3	1,012.4	0.00	0.00	0.00
4,520.0	15.02	291.14	4,389.5	368.8	-953.9	1,022.8	0.00	0.00	0.00
4,560.0	15.02	291.14	4,428.1	372.6	-963.6	1,033.1	0.00	0.00	0.00
4,600.0	15.02	291.14	4,466.8	376.3	-973.3	1,043.5	0.00	0.00	0.00
4,640.0	15.02	291.14	4,505.4	380.1	-982.9	1,053.9	0.00	0.00	0.00
4,660.3	15.02	291.14	4,525.0	382.0	-987.8	1,059.1	0.00	0.00	0.00
SUSSEX									
4,680.0	15.02	291.14	4,544.0	383.8	-992.6	1,064.2	0.00	0.00	0.00
4,720.0	15.02	291.14	4,582.7	387.5	-1,002.3	1,074.6	0.00	0.00	0.00
4,760.0	15.02	291.14	4,621.3	391.3	-1,011.9	1,085.0	0.00	0.00	0.00
4,800.0	15.02	291.14	4,659.9	395.0	-1,021.6	1,095.3	0.00	0.00	0.00
4,840.0	15.02	291.14	4,698.6	398.7	-1,031.3	1,105.7	0.00	0.00	0.00
4,880.0	15.02	291.14	4,737.2	402.5	-1,040.9	1,116.0	0.00	0.00	0.00
4,920.0	15.02	291.14	4,775.8	406.2	-1,050.6	1,126.4	0.00	0.00	0.00
4,960.0	15.02	291.14	4,814.5	410.0	-1,060.3	1,136.8	0.00	0.00	0.00
5,000.0	15.02	291.14	4,853.1	413.7	-1,069.9	1,147.1	0.00	0.00	0.00
5,040.0	15.02	291.14	4,891.7	417.4	-1,079.6	1,157.5	0.00	0.00	0.00
5,080.0	15.02	291.14	4,930.4	421.2	-1,089.3	1,167.9	0.00	0.00	0.00
5,108.2	15.02	291.14	4,957.6	423.8	-1,096.1	1,175.2	0.00	0.00	0.00
5,120.0	14.78	291.14	4,969.0	424.9	-1,098.9	1,178.2	2.00	-2.00	0.00
5,160.0	13.98	291.14	5,007.8	428.5	-1,108.2	1,188.2	2.00	-2.00	0.00
5,200.0	13.18	291.14	5,046.6	431.9	-1,117.0	1,197.5	2.00	-2.00	0.00
5,240.0	12.38	291.14	5,085.7	435.1	-1,125.2	1,206.4	2.00	-2.00	0.00
5,254.7	12.09	291.14	5,100.0	436.2	-1,128.1	1,209.5	2.00	-2.00	0.00
SHANNON									
5,280.0	11.58	291.14	5,124.8	438.1	-1,133.0	1,214.7	2.00	-2.00	0.00
5,320.0	10.78	291.14	5,164.0	440.9	-1,140.2	1,222.5	2.00	-2.00	0.00
5,360.0	9.98	291.14	5,203.4	443.5	-1,146.9	1,229.7	2.00	-2.00	0.00
5,400.0	9.18	291.14	5,242.8	445.9	-1,153.1	1,236.3	2.00	-2.00	0.00
5,440.0	8.38	291.14	5,282.3	448.1	-1,158.8	1,242.4	2.00	-2.00	0.00
5,480.0	7.58	291.14	5,321.9	450.1	-1,164.0	1,248.0	2.00	-2.00	0.00
5,520.0	6.78	291.14	5,361.6	451.9	-1,168.7	1,253.0	2.00	-2.00	0.00
5,560.0	5.98	291.14	5,401.4	453.5	-1,172.8	1,257.4	2.00	-2.00	0.00
5,600.0	5.18	291.14	5,441.2	454.9	-1,176.5	1,261.3	2.00	-2.00	0.00
5,640.0	4.38	291.14	5,481.1	456.1	-1,179.6	1,264.7	2.00	-2.00	0.00
5,680.0	3.58	291.14	5,521.0	457.1	-1,182.2	1,267.4	2.00	-2.00	0.00
5,720.0	2.78	291.14	5,560.9	457.9	-1,184.2	1,269.7	2.00	-2.00	0.00
5,760.0	1.98	291.14	5,600.9	458.5	-1,185.8	1,271.3	2.00	-2.00	0.00
5,800.0	1.18	291.14	5,640.8	458.9	-1,186.8	1,272.4	2.00	-2.00	0.00
5,840.0	0.38	291.14	5,680.8	459.1	-1,187.3	1,273.0	2.00	-2.00	0.00
5,859.2	0.00	0.00	5,700.0	459.1	-1,187.4	1,273.0	2.00	-2.00	0.00
TARGET BHL 651°FSL & 1966°FEL									

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

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)
5,880.0	0.00	0.00	5,720.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
5,920.0	0.00	0.00	5,760.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
5,960.0	0.00	0.00	5,800.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,840.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,040.0	0.00	0.00	5,880.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,080.0	0.00	0.00	5,920.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,120.0	0.00	0.00	5,960.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,160.0	0.00	0.00	6,000.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,040.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,240.0	0.00	0.00	6,080.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,280.0	0.00	0.00	6,120.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,320.0	0.00	0.00	6,160.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,360.0	0.00	0.00	6,200.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,240.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,440.0	0.00	0.00	6,280.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,480.0	0.00	0.00	6,320.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,520.0	0.00	0.00	6,360.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,560.0	0.00	0.00	6,400.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,440.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,640.0	0.00	0.00	6,480.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,680.0	0.00	0.00	6,520.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,720.0	0.00	0.00	6,560.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,760.0	0.00	0.00	6,600.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,640.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,840.0	0.00	0.00	6,680.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,880.0	0.00	0.00	6,720.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,920.0	0.00	0.00	6,760.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
6,938.2	0.00	0.00	6,779.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 400' X 400', 651'FSL & 1966'FEL									
6,960.0	0.00	0.00	6,800.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,840.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,040.0	0.00	0.00	6,880.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,080.0	0.00	0.00	6,920.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,120.0	0.00	0.00	6,960.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,160.0	0.00	0.00	7,000.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,040.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,200.2	0.00	0.00	7,041.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
FT. HAYS									
7,234.2	0.00	0.00	7,075.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
CODELL									
7,240.0	0.00	0.00	7,080.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,280.0	0.00	0.00	7,120.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,284.2	0.00	0.00	7,125.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
GREENHORN									
7,320.0	0.00	0.00	7,160.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,360.0	0.00	0.00	7,200.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,369.2	0.00	0.00	7,210.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
GRANEROS									
7,400.0	0.00	0.00	7,240.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,440.0	0.00	0.00	7,280.8	459.1	-1,187.4	1,273.0	0.00	0.00	0.00
7,454.2	0.00	0.00	7,295.0	459.1	-1,187.4	1,273.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well NC Farms 15-32
Company:	BAYSWATER EXPLORATION & PRODUCTION	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Project:	SEC.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	North Reference:	True
Well:	NC Farms 15-32	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-03-11)		

Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
TARGET BHL 651'FS	0.00	0.00	5,700.0	459.1	-1,187.4	1,435,132.50	3,258,040.53	40.524132	-104.571781
- plan hits target center									
- Point									
LEGAL BOX 400' X 400'	0.00	0.00	6,779.0	459.1	-1,187.4	1,435,132.49	3,258,040.51	40.524132	-104.571781
- plan hits target center									
- Rectangle (sides W400.0 H400.0 D516.0)									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
763.6	760.0	8 5/8"	8-5/8	12-1/4

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
3,836.1	3,729.0	PARKMAN		0.00	
4,660.3	4,525.0	SUSSEX		0.00	
5,254.7	5,100.0	SHANNON		0.00	
6,938.2	6,779.0	NIOBRARA		0.00	
7,200.2	7,041.0	FT. HAYS		0.00	
7,234.2	7,075.0	CODELL		0.00	
7,284.2	7,125.0	GREENHORN		0.00	
7,369.2	7,210.0	GRANEROS		0.00	



Directional

BAYSWATER EXPLORATION & PRODUCTION

SEC.32-T7N-R64W

NC Farms 16-32 Pad Sec.32-T7N-R64W

NC Farms 15-32

Wellbore #1

Plan #1 (11-03-11)

Anticollision Report

04 November, 2011

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well NC Farms 15-32
Project:	SEC.32-T7N-R64W	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Reference Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NC Farms 15-32	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 (11-03-11)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-03-11)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	11/4/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,454.2	Plan #1 (11-03-11) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Separation Factor	Warning	
Offset Well - Wellbore - Design						
NC Farms 16-32 Pad Sec.32-T7N-R64W						
NC Farms 10-32 - Wellbore #1 - Plan #1 (11-03-11)	200.0	200.0	15.0	14.3	22.264	CC, ES
NC Farms 10-32 - Wellbore #1 - Plan #1 (11-03-11)	500.0	500.6	22.0	19.9	10.693	SF

Offset Design NC Farms 16-32 Pad Sec.32-T7N-R64W - NC Farms 10-32 - Wellbore #1 - Plan #1 (11-03-11)													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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	89.95	0.0	15.0	15.0	15.0	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	89.95	0.0	15.0	15.0	14.8	0.22	66.793		
200.0	200.0	200.0	200.0	0.3	0.3	89.95	0.0	15.0	15.0	14.3	0.67	22.264	CC, ES	
300.0	300.0	300.3	300.3	0.6	0.6	155.83	1.5	14.0	15.7	14.6	1.12	13.999		
400.0	399.8	400.5	400.3	0.8	0.8	148.28	5.8	11.0	17.9	16.3	1.57	11.371		
500.0	499.5	500.6	500.0	1.0	1.0	139.31	13.0	6.1	22.0	19.9	2.06	10.693	SF	
600.0	598.7	600.5	599.2	1.3	1.3	131.40	23.1	-0.8	28.4	25.8	2.61	10.870		
700.0	697.5	700.2	697.6	1.7	1.7	125.33	35.9	-9.6	37.0	33.7	3.25	11.392		
800.0	795.6	799.5	795.1	2.0	2.0	120.90	51.5	-20.4	47.8	43.8	3.98	12.004		
900.0	893.1	898.5	891.6	2.5	2.5	117.68	69.9	-32.9	60.8	56.0	4.83	12.591		
951.0	942.4	948.7	940.2	2.7	2.7	116.38	80.2	-40.0	68.2	62.9	5.31	12.849		
1,000.0	989.8	997.0	986.8	3.0	3.0	115.14	90.8	-47.3	75.6	69.9	5.78	13.080		
1,100.0	1,086.3	1,095.1	1,080.6	3.5	3.5	111.69	114.4	-63.5	91.4	84.6	6.83	13.381		
1,200.0	1,182.9	1,192.6	1,172.9	4.0	4.1	107.53	140.4	-81.3	108.2	100.3	7.94	13.627		
1,300.0	1,279.5	1,289.3	1,263.2	4.6	4.8	103.08	168.7	-100.8	126.6	117.5	9.09	13.922		
1,400.0	1,376.1	1,386.2	1,352.8	5.1	5.5	98.81	199.1	-121.6	146.6	136.4	10.26	14.295		
1,500.0	1,472.7	1,483.6	1,442.9	5.7	6.2	95.48	229.8	-142.7	167.3	155.9	11.40	14.674		
1,600.0	1,569.3	1,581.0	1,532.9	6.2	7.0	92.89	260.5	-163.8	188.5	175.9	12.53	15.037		
1,700.0	1,665.8	1,678.4	1,622.9	6.8	7.7	90.82	291.2	-184.8	209.9	196.2	13.65	15.372		
1,800.0	1,762.4	1,775.9	1,712.9	7.3	8.4	89.14	321.9	-205.9	231.5	216.8	14.77	15.679		
1,900.0	1,859.0	1,873.3	1,803.0	7.9	9.2	87.74	352.6	-227.0	253.4	237.5	15.88	15.957		
2,000.0	1,955.6	1,970.7	1,893.0	8.4	9.9	86.56	383.3	-248.0	275.3	258.3	16.98	16.210		
2,100.0	2,052.2	2,068.1	1,983.0	9.0	10.7	85.56	414.0	-269.1	297.3	279.2	18.08	16.439		
2,200.0	2,148.8	2,165.6	2,073.0	9.5	11.5	84.70	444.7	-290.2	319.4	300.2	19.19	16.648		

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

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well NC Farms 15-32
Project:	SEC.32-T7N-R64W	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Reference Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NC Farms 15-32	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 (11-03-11)	Offset TVD Reference:	Offset Datum

Offset Design NC Farms 16-32 Pad Sec.32-T7N-R64W - NC Farms 10-32 - Wellbore #1 - Plan #1 (11-03-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
2,300.0	2,245.3	2,263.0	2,163.1	10.1	12.2	83.94	475.4	-311.3	341.5	321.3	20.28	16.838		
2,400.0	2,341.9	2,360.4	2,253.1	10.6	13.0	83.28	506.1	-332.3	363.8	342.4	21.38	17.012		
2,500.0	2,438.5	2,457.8	2,343.1	11.2	13.7	82.70	536.8	-353.4	386.0	363.5	22.48	17.171		
2,600.0	2,535.1	2,555.3	2,433.1	11.7	14.5	82.18	567.5	-374.5	408.3	384.7	23.58	17.317		
2,700.0	2,631.7	2,652.7	2,523.2	12.3	15.3	81.71	598.2	-395.5	430.6	405.9	24.67	17.452		
2,800.0	2,728.3	2,750.1	2,613.2	12.9	16.0	81.29	628.9	-416.6	452.9	427.2	25.77	17.577		
2,900.0	2,824.8	2,847.5	2,703.2	13.4	16.8	80.91	659.6	-437.7	475.3	448.4	26.86	17.693		
3,000.0	2,921.4	2,944.9	2,793.2	14.0	17.5	80.56	690.4	-458.8	497.6	469.7	27.96	17.800		
3,100.0	3,018.0	3,042.4	2,883.3	14.5	18.3	80.24	721.1	-479.8	520.0	491.0	29.05	17.900		
3,200.0	3,114.6	3,139.8	2,973.3	15.1	19.1	79.95	751.8	-500.9	542.4	512.3	30.15	17.993		
3,300.0	3,211.2	3,237.2	3,063.3	15.6	19.8	79.68	782.5	-522.0	564.8	533.6	31.24	18.080		
3,400.0	3,307.8	3,334.6	3,153.3	16.2	20.6	79.43	813.2	-543.0	587.3	554.9	32.34	18.162		
3,500.0	3,404.4	3,432.1	3,243.4	16.7	21.3	79.20	843.9	-564.1	609.7	576.3	33.43	18.239		
3,600.0	3,500.9	3,529.5	3,333.4	17.3	22.1	78.99	874.6	-585.2	632.2	597.6	34.52	18.311		
3,700.0	3,597.5	3,626.9	3,423.4	17.9	22.9	78.79	905.3	-606.3	654.6	619.0	35.62	18.379		
3,800.0	3,694.1	3,724.3	3,513.4	18.4	23.6	78.61	936.0	-627.3	677.1	640.4	36.71	18.443		
3,900.0	3,790.7	3,821.8	3,603.5	19.0	24.4	78.43	966.7	-648.4	699.5	661.7	37.80	18.504		
4,000.0	3,887.3	3,919.2	3,693.5	19.5	25.2	78.27	997.4	-669.5	722.0	683.1	38.90	18.561		
4,100.0	3,983.9	4,016.6	3,783.5	20.1	25.9	78.12	1,028.1	-690.5	744.5	704.5	39.99	18.615		
4,200.0	4,080.4	4,114.0	3,873.5	20.6	26.7	77.97	1,058.8	-711.6	767.0	725.9	41.09	18.667		
4,300.0	4,177.0	4,211.4	3,963.6	21.2	27.4	77.84	1,089.5	-732.7	789.4	747.3	42.18	18.716		
4,400.0	4,273.6	4,308.9	4,053.6	21.7	28.2	77.71	1,120.2	-753.8	811.9	768.7	43.27	18.763		
4,500.0	4,370.2	4,406.3	4,143.6	22.3	29.0	77.59	1,150.9	-774.8	834.4	790.0	44.37	18.807		
4,600.0	4,466.8	4,503.7	4,233.6	22.9	29.7	77.47	1,181.6	-795.9	856.9	811.5	45.46	18.849		
4,700.0	4,563.4	4,601.1	4,323.7	23.4	30.5	77.36	1,212.3	-817.0	879.4	832.9	46.55	18.890		
4,800.0	4,659.9	4,698.6	4,413.7	24.0	31.3	77.26	1,243.0	-838.0	901.9	854.3	47.65	18.929		
4,900.0	4,756.5	4,796.0	4,503.7	24.5	32.0	77.16	1,273.7	-859.1	924.4	875.7	48.74	18.966		
5,000.0	4,853.1	4,893.4	4,593.7	25.1	32.8	77.07	1,304.4	-880.2	946.9	897.1	49.84	19.001		
5,108.2	4,957.6	4,998.8	4,691.1	25.7	33.6	76.97	1,337.6	-903.0	971.3	920.3	51.02	19.038		
5,200.0	5,046.6	5,088.1	4,773.7	26.1	34.3	77.23	1,365.8	-922.3	992.3	940.2	52.03	19.073		
5,300.0	5,144.4	5,185.1	4,863.3	26.5	35.1	77.34	1,396.4	-943.3	1,015.9	962.9	52.96	19.183		
5,400.0	5,242.8	5,281.6	4,952.5	26.8	35.8	77.30	1,426.8	-964.2	1,040.3	986.5	53.78	19.343		
5,500.0	5,341.8	5,377.6	5,041.2	27.0	36.6	77.12	1,457.0	-984.9	1,065.5	1,011.0	54.50	19.552		
5,600.0	5,441.2	5,472.8	5,129.2	27.3	37.3	76.81	1,487.0	-1,005.5	1,091.7	1,036.6	55.12	19.808		
5,700.0	5,540.9	5,567.3	5,216.5	27.4	38.1	76.39	1,516.8	-1,025.9	1,119.0	1,063.4	55.63	20.114		
5,800.0	5,640.8	5,660.8	5,302.9	27.6	38.8	75.88	1,546.3	-1,046.2	1,147.4	1,091.3	56.05	20.469		
5,859.2	5,700.0	5,715.7	5,353.6	27.6	39.2	6.68	1,563.6	-1,058.0	1,164.7	1,108.5	56.26	20.703		
5,900.0	5,740.8	5,753.4	5,388.5	27.7	39.5	6.20	1,575.5	-1,066.2	1,176.9	1,120.6	56.29	20.906		
6,000.0	5,840.8	5,883.4	5,509.3	27.8	40.4	4.66	1,614.7	-1,093.1	1,205.9	1,149.6	56.29	21.425		
6,100.0	5,940.8	6,026.9	5,645.2	27.9	41.1	3.26	1,652.9	-1,119.3	1,231.7	1,175.4	56.27	21.891		
6,200.0	6,040.8	6,175.0	5,787.6	28.0	41.8	2.11	1,686.3	-1,142.2	1,253.8	1,197.5	56.29	22.274		
6,300.0	6,140.8	6,327.2	5,936.0	28.1	42.4	1.18	1,714.2	-1,161.4	1,272.0	1,215.6	56.36	22.569		
6,400.0	6,240.8	6,482.7	6,089.2	28.2	42.8	0.49	1,736.0	-1,176.4	1,286.0	1,229.5	56.47	22.770		
6,500.0	6,340.8	6,640.7	6,246.1	28.3	43.2	0.03	1,751.2	-1,186.8	1,295.5	1,238.9	56.63	22.877		
6,600.0	6,440.8	6,800.2	6,405.3	28.4	43.4	-0.22	1,759.2	-1,192.3	1,300.6	1,243.7	56.84	22.883		
6,700.0	6,540.8	6,935.8	6,540.8	28.5	43.5	-0.25	1,760.5	-1,193.2	1,301.4	1,244.3	57.06	22.806		
6,800.0	6,640.8	7,035.8	6,640.8	28.6	43.6	-0.25	1,760.5	-1,193.2	1,301.4	1,244.1	57.28	22.719		
6,900.0	6,740.8	7,135.8	6,740.8	28.7	43.7	-0.25	1,760.5	-1,193.2	1,301.4	1,243.9	57.50	22.631		
7,000.0	6,840.8	7,235.8	6,840.8	28.8	43.7	-0.25	1,760.5	-1,193.2	1,301.4	1,243.6	57.73	22.543		
7,100.0	6,940.8	7,335.8	6,940.8	28.9	43.8	-0.25	1,760.5	-1,193.2	1,301.4	1,243.4	57.95	22.455		
7,200.0	7,040.8	7,435.8	7,040.8	29.1	43.9	-0.25	1,760.5	-1,193.2	1,301.4	1,243.2	58.18	22.366		

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

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well NC Farms 15-32
Project:	SEC.32-T7N-R64W	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Reference Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NC Farms 15-32	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 (11-03-11)	Offset TVD Reference:	Offset Datum

Offset Design NC Farms 16-32 Pad Sec.32-T7N-R64W - NC Farms 10-32 - Wellbore #1 - Plan #1 (11-03-11)												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	
7,300.0	7,140.8	7,535.8	7,140.8	29.2	44.0	-0.25	1,760.5	-1,193.2	1,301.4	1,242.9	58.42	22.277	
7,400.0	7,240.8	7,635.8	7,240.8	29.3	44.0	-0.25	1,760.5	-1,193.2	1,301.4	1,242.7	58.65	22.188	
7,454.2	7,295.0	7,689.9	7,295.0	29.4	44.1	-0.25	1,760.5	-1,193.2	1,301.4	1,242.6	58.78	22.139	

Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well NC Farms 15-32
Project:	SEC.32-T7N-R64W	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Reference Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NC Farms 15-32	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 (11-03-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4815.0ft (Original Well Elev) Coordinates are relative to: NC Farms 15-32
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.60°



Company:	BAYSWATER EXPLORATION & PRODUCTION	Local Co-ordinate Reference:	Well NC Farms 15-32
Project:	SEC.32-T7N-R64W	TVD Reference:	WELL @ 4815.0ft (Original Well Elev)
Reference Site:	NC Farms 16-32 Pad Sec.32-T7N-R64W	MD Reference:	WELL @ 4815.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NC Farms 15-32	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 (11-03-11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4815.0ft (Original Well Elev) Coordinates are relative to: NC Farms 15-32
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.60°

