

Great Western

Well Name: **Kodak North FD 25-162HN**

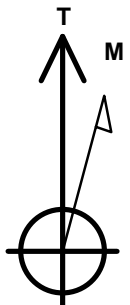
Surface Location: Kodak North Pad Sec.26-T6N-R67W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4760.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	140.0	593.32	3177086.68	40.458736	-104.863608	
RKB - 16.5' WELL @ 4776.6ft (RKB - 16.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2352'FNL & 1879'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 2351'FNL & 470'FEL, Sec.25	6922.6	82.2	8187.5	Point
Entry Pt. 2290'FNL & 2025'FWL, Sec.26	6922.6	62.0	146.1	Point



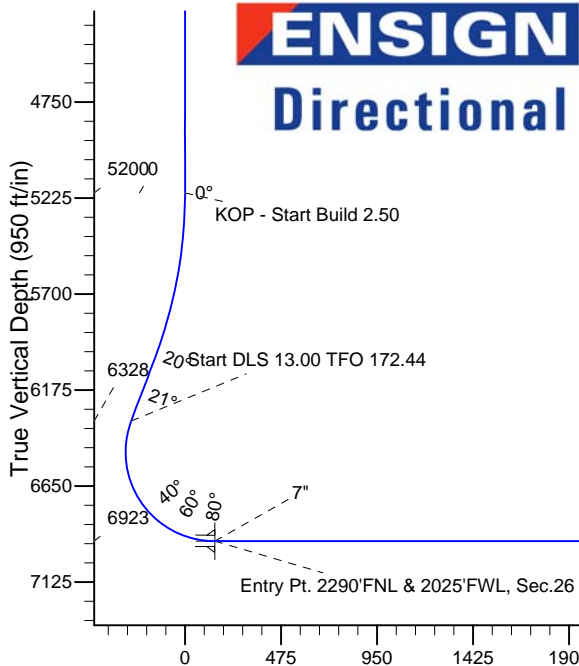
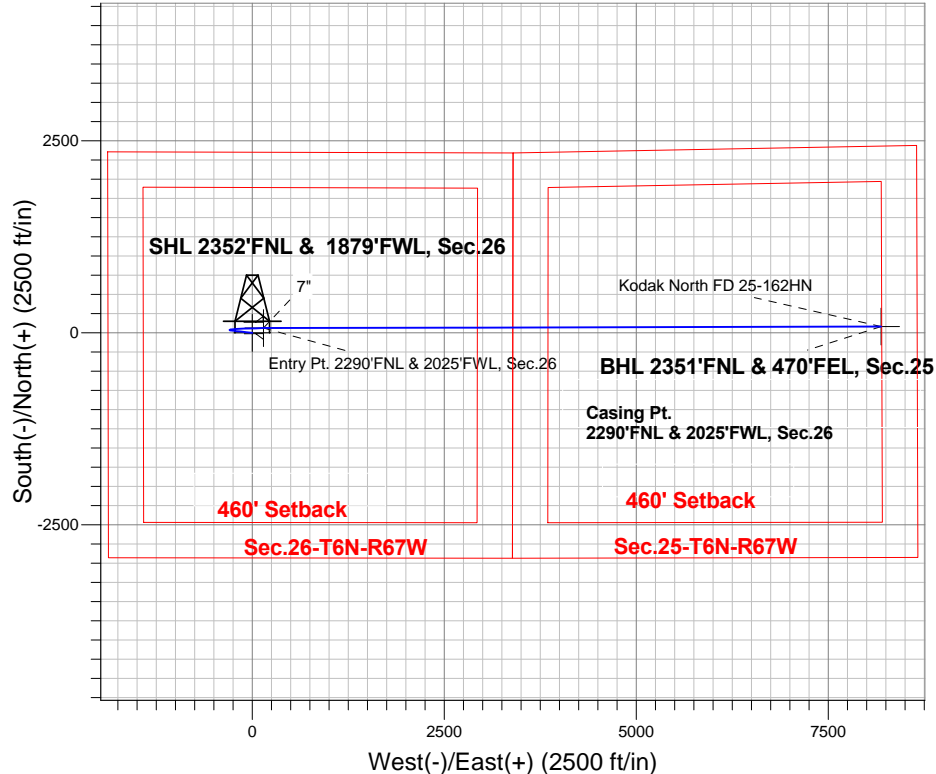
Azimuths to True North
 Magnetic North: 8.59°

Magnetic Field
 Strength: 52895.5snT
 Dip Angle: 67.00°
 Date: 11/21/2013
 Model: IGRF2010

Kodak North Pad Sec.26-T6N-R67W
 Kodak North FD 25-162HN
 Plan #1 (11-21-13)
 14:13, November 22 2013

ANNOTATIONS

TVD	MD	Annotation
5200.0	5200.0	KOP - Start Build 2.50
6328.0	6367.8	Start DLS 13.00 TFO 172.44
6922.6	15259.5	TD at 15259.5



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	5200.0	0.00	0.00	5200.0	0.0	0.0	0.00	0.00	0.0	
3	6028.3	20.71	276.59	6010.4	17.0	-147.1	2.50	276.59	-146.9	
4	6367.8	20.71	276.59	6327.9	30.8	-266.3	0.00	0.00	-266.0	
5	7218.0	90.00	89.51	6922.6	62.0	146.1	13.00	172.44	146.7	Entry Pt. 2290'FNL & 2025'FWL, Sec.26
6	7252.7	90.00	89.86	6922.6	62.2	180.7	1.00	90.00	181.4	
7	15259.5	90.00	89.86	6922.6	82.2	8187.5	0.00	0.00	8187.9	BHL 2351'FNL & 470'FEL, Sec.25

Vertical Section at 89.42° (950 ft/in)



Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 25-162HN

Wellbore #1

Plan: Plan #1 (11-21-13)

Standard Planning Report

22 November, 2013

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Company:	Great Western	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	North Reference:	True
Well:	Kodak North FD 25-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Project	SEC.26-T6N-R67W, Weld County, Colorado		
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	Kodak North Pad Sec.26-T6N-R67W				
Site Position:		Northing:	1,410,693.08 ft	Latitude:	40.459011
From:	Lat/Long	Easting:	3,177,026.41 ft	Longitude:	-104.863822
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.41 °

Well	Kodak North FD 25-162HN					
Well Position	+N/-S	-100.2 ft	Northing:	1,410,593.32 ft	Latitude:	40.458736
	+E/-W	59.6 ft	Easting:	3,177,086.68 ft	Longitude:	-104.863608
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,760.1 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/21/2013	8.59	67.00	52,895

Design	Plan #1 (11-21-13)			
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	89.42

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	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,028.3	20.71	276.59	6,010.4	17.0	-147.1	2.50	2.50	0.00	276.59	
6,367.8	20.71	276.59	6,327.9	30.8	-266.3	0.00	0.00	0.00	0.00	
7,218.0	90.00	89.51	6,922.6	62.0	146.1	13.00	8.15	20.34	172.44	Entry Pt. 2290'FNL
7,252.7	90.00	89.86	6,922.6	62.2	180.7	1.00	0.00	1.00	90.00	
15,259.5	90.00	89.86	6,922.6	82.2	8,187.5	0.00	0.00	0.00	0.00	BHL 2351'FNL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Company:	Great Western	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	North Reference:	True
Well:	Kodak North FD 25-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2352'FNL & 1879'FWL, Sec.26									
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Company:	Great Western	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	North Reference:	True
Well:	Kodak North FD 25-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

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)	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
KOP - Start Build 2.50										
5,300.0	2.50	276.59	5,300.0	0.3	-2.2	-2.2	2.50	2.50	0.00	
5,400.0	5.00	276.59	5,399.7	1.0	-8.7	-8.7	2.50	2.50	0.00	
5,500.0	7.50	276.59	5,499.1	2.2	-19.5	-19.5	2.50	2.50	0.00	
5,600.0	10.00	276.59	5,598.0	4.0	-34.6	-34.5	2.50	2.50	0.00	
5,700.0	12.50	276.59	5,696.0	6.2	-54.0	-53.9	2.50	2.50	0.00	
5,800.0	15.00	276.59	5,793.2	9.0	-77.6	-77.5	2.50	2.50	0.00	
5,900.0	17.50	276.59	5,889.2	12.2	-105.4	-105.2	2.50	2.50	0.00	
6,000.0	20.00	276.59	5,983.9	15.9	-137.3	-137.1	2.50	2.50	0.00	
6,028.3	20.71	276.59	6,010.4	17.0	-147.1	-146.9	2.50	2.50	0.00	
6,100.0	20.71	276.59	6,077.5	19.9	-172.3	-172.1	0.00	0.00	0.00	
6,200.0	20.71	276.59	6,171.0	24.0	-207.4	-207.1	0.00	0.00	0.00	
6,300.0	20.71	276.59	6,264.5	28.0	-242.5	-242.2	0.00	0.00	0.00	
6,367.8	20.71	276.59	6,328.0	30.8	-266.3	-266.0	0.00	0.00	0.00	
Start DLS 13.00 TFO 172.44										
6,400.0	16.56	278.52	6,358.5	32.1	-276.5	-276.2	13.02	-12.88	6.01	
6,500.0	4.28	308.00	6,456.7	36.5	-293.6	-293.3	13.00	-12.28	29.48	
6,600.0	10.01	74.21	6,556.2	41.2	-288.2	-287.8	13.00	5.73	126.20	
6,700.0	22.80	83.15	6,651.9	45.9	-260.5	-260.0	13.00	12.79	8.94	
6,800.0	35.74	85.80	6,739.0	50.4	-211.9	-211.4	13.00	12.94	2.65	
6,900.0	48.71	87.17	6,812.9	54.4	-145.0	-144.4	13.00	12.97	1.37	
7,000.0	61.69	88.07	6,869.8	57.8	-63.1	-62.5	13.00	12.98	0.91	
7,100.0	74.68	88.78	6,906.9	60.3	29.5	30.1	13.00	12.98	0.71	
7,200.0	87.66	89.40	6,922.2	61.8	128.1	128.7	13.00	12.99	0.62	
7,218.0	90.00	89.51	6,922.6	62.0	146.1	146.7	13.00	12.99	0.61	
7" - Entry Pt. 2290'FNL & 2025'FWL, Sec.26										
7,252.7	90.00	89.86	6,922.6	62.2	180.7	181.4	1.00	0.00	1.00	
7,300.0	90.00	89.86	6,922.6	62.3	228.1	228.7	0.00	0.00	0.00	
7,400.0	90.00	89.86	6,922.6	62.6	328.1	328.7	0.00	0.00	0.00	
7,500.0	90.00	89.86	6,922.6	62.8	428.1	428.7	0.00	0.00	0.00	
7,600.0	90.00	89.86	6,922.6	63.1	528.1	528.7	0.00	0.00	0.00	
7,700.0	90.00	89.86	6,922.6	63.3	628.1	628.7	0.00	0.00	0.00	
7,800.0	90.00	89.86	6,922.6	63.6	728.1	728.7	0.00	0.00	0.00	
7,900.0	90.00	89.86	6,922.6	63.8	828.1	828.7	0.00	0.00	0.00	
8,000.0	90.00	89.86	6,922.6	64.1	928.1	928.7	0.00	0.00	0.00	
8,100.0	90.00	89.86	6,922.6	64.3	1,028.1	1,028.7	0.00	0.00	0.00	
8,200.0	90.00	89.86	6,922.6	64.6	1,128.1	1,128.7	0.00	0.00	0.00	
8,300.0	90.00	89.86	6,922.6	64.8	1,228.1	1,228.7	0.00	0.00	0.00	
8,400.0	90.00	89.86	6,922.6	65.1	1,328.1	1,328.7	0.00	0.00	0.00	
8,500.0	90.00	89.86	6,922.6	65.3	1,428.1	1,428.7	0.00	0.00	0.00	
8,600.0	90.00	89.86	6,922.6	65.6	1,528.1	1,528.7	0.00	0.00	0.00	
8,700.0	90.00	89.86	6,922.6	65.8	1,628.1	1,628.7	0.00	0.00	0.00	
8,800.0	90.00	89.86	6,922.6	66.1	1,728.1	1,728.7	0.00	0.00	0.00	
8,900.0	90.00	89.86	6,922.6	66.3	1,828.1	1,828.7	0.00	0.00	0.00	
9,000.0	90.00	89.86	6,922.6	66.6	1,928.1	1,928.7	0.00	0.00	0.00	
9,100.0	90.00	89.86	6,922.6	66.8	2,028.1	2,028.7	0.00	0.00	0.00	
9,200.0	90.00	89.86	6,922.6	67.1	2,128.1	2,128.7	0.00	0.00	0.00	
9,300.0	90.00	89.86	6,922.6	67.3	2,228.1	2,228.7	0.00	0.00	0.00	
9,400.0	90.00	89.86	6,922.6	67.6	2,328.1	2,328.6	0.00	0.00	0.00	
9,500.0	90.00	89.86	6,922.6	67.8	2,428.1	2,428.6	0.00	0.00	0.00	
9,600.0	90.00	89.86	6,922.6	68.1	2,528.1	2,528.6	0.00	0.00	0.00	
9,700.0	90.00	89.86	6,922.6	68.3	2,628.1	2,628.6	0.00	0.00	0.00	

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Project:	SEC.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	North Reference:	True
Well:	Kodak North FD 25-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

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)	
9,800.0	90.00	89.86	6,922.6	68.6	2,728.1	2,728.6	0.00	0.00	0.00	
9,900.0	90.00	89.86	6,922.6	68.8	2,828.1	2,828.6	0.00	0.00	0.00	
10,000.0	90.00	89.86	6,922.6	69.1	2,928.1	2,928.6	0.00	0.00	0.00	
10,100.0	90.00	89.86	6,922.6	69.3	3,028.1	3,028.6	0.00	0.00	0.00	
10,200.0	90.00	89.86	6,922.6	69.6	3,128.1	3,128.6	0.00	0.00	0.00	
10,300.0	90.00	89.86	6,922.6	69.8	3,228.1	3,228.6	0.00	0.00	0.00	
10,400.0	90.00	89.86	6,922.6	70.1	3,328.1	3,328.6	0.00	0.00	0.00	
10,500.0	90.00	89.86	6,922.6	70.3	3,428.1	3,428.6	0.00	0.00	0.00	
10,600.0	90.00	89.86	6,922.6	70.6	3,528.1	3,528.6	0.00	0.00	0.00	
10,700.0	90.00	89.86	6,922.6	70.8	3,628.1	3,628.6	0.00	0.00	0.00	
10,800.0	90.00	89.86	6,922.6	71.1	3,728.1	3,728.6	0.00	0.00	0.00	
10,900.0	90.00	89.86	6,922.6	71.3	3,828.1	3,828.6	0.00	0.00	0.00	
11,000.0	90.00	89.86	6,922.6	71.6	3,928.1	3,928.6	0.00	0.00	0.00	
11,100.0	90.00	89.86	6,922.6	71.8	4,028.1	4,028.6	0.00	0.00	0.00	
11,200.0	90.00	89.86	6,922.6	72.1	4,128.1	4,128.6	0.00	0.00	0.00	
11,300.0	90.00	89.86	6,922.6	72.3	4,228.1	4,228.6	0.00	0.00	0.00	
11,400.0	90.00	89.86	6,922.6	72.6	4,328.1	4,328.6	0.00	0.00	0.00	
11,500.0	90.00	89.86	6,922.6	72.8	4,428.1	4,428.6	0.00	0.00	0.00	
11,600.0	90.00	89.86	6,922.6	73.1	4,528.1	4,528.6	0.00	0.00	0.00	
11,700.0	90.00	89.86	6,922.6	73.3	4,628.1	4,628.6	0.00	0.00	0.00	
11,800.0	90.00	89.86	6,922.6	73.6	4,728.1	4,728.6	0.00	0.00	0.00	
11,900.0	90.00	89.86	6,922.6	73.8	4,828.1	4,828.6	0.00	0.00	0.00	
12,000.0	90.00	89.86	6,922.6	74.1	4,928.1	4,928.6	0.00	0.00	0.00	
12,100.0	90.00	89.86	6,922.6	74.3	5,028.1	5,028.6	0.00	0.00	0.00	
12,200.0	90.00	89.86	6,922.6	74.6	5,128.1	5,128.6	0.00	0.00	0.00	
12,300.0	90.00	89.86	6,922.6	74.8	5,228.1	5,228.6	0.00	0.00	0.00	
12,400.0	90.00	89.86	6,922.6	75.1	5,328.1	5,328.6	0.00	0.00	0.00	
12,500.0	90.00	89.86	6,922.6	75.3	5,428.1	5,428.6	0.00	0.00	0.00	
12,600.0	90.00	89.86	6,922.6	75.6	5,528.1	5,528.6	0.00	0.00	0.00	
12,700.0	90.00	89.86	6,922.6	75.8	5,628.1	5,628.6	0.00	0.00	0.00	
12,800.0	90.00	89.86	6,922.6	76.1	5,728.1	5,728.6	0.00	0.00	0.00	
12,900.0	90.00	89.86	6,922.6	76.3	5,828.1	5,828.5	0.00	0.00	0.00	
13,000.0	90.00	89.86	6,922.6	76.6	5,928.1	5,928.5	0.00	0.00	0.00	
13,100.0	90.00	89.86	6,922.6	76.8	6,028.1	6,028.5	0.00	0.00	0.00	
13,200.0	90.00	89.86	6,922.6	77.1	6,128.1	6,128.5	0.00	0.00	0.00	
13,300.0	90.00	89.86	6,922.6	77.3	6,228.1	6,228.5	0.00	0.00	0.00	
13,400.0	90.00	89.86	6,922.6	77.6	6,328.1	6,328.5	0.00	0.00	0.00	
13,500.0	90.00	89.86	6,922.6	77.8	6,428.1	6,428.5	0.00	0.00	0.00	
13,600.0	90.00	89.86	6,922.6	78.1	6,528.1	6,528.5	0.00	0.00	0.00	
13,700.0	90.00	89.86	6,922.6	78.3	6,628.1	6,628.5	0.00	0.00	0.00	
13,800.0	90.00	89.86	6,922.6	78.6	6,728.1	6,728.5	0.00	0.00	0.00	
13,900.0	90.00	89.86	6,922.6	78.8	6,828.1	6,828.5	0.00	0.00	0.00	
14,000.0	90.00	89.86	6,922.6	79.1	6,928.1	6,928.5	0.00	0.00	0.00	
14,100.0	90.00	89.86	6,922.6	79.3	7,028.1	7,028.5	0.00	0.00	0.00	
14,200.0	90.00	89.86	6,922.6	79.6	7,128.1	7,128.5	0.00	0.00	0.00	
14,300.0	90.00	89.86	6,922.6	79.8	7,228.1	7,228.5	0.00	0.00	0.00	
14,400.0	90.00	89.86	6,922.6	80.1	7,328.1	7,328.5	0.00	0.00	0.00	
14,500.0	90.00	89.86	6,922.6	80.3	7,428.1	7,428.5	0.00	0.00	0.00	
14,600.0	90.00	89.86	6,922.6	80.6	7,528.1	7,528.5	0.00	0.00	0.00	
14,700.0	90.00	89.86	6,922.6	80.8	7,628.1	7,628.5	0.00	0.00	0.00	
14,800.0	90.00	89.86	6,922.6	81.1	7,728.1	7,728.5	0.00	0.00	0.00	
14,900.0	90.00	89.86	6,922.6	81.3	7,828.1	7,828.5	0.00	0.00	0.00	
15,000.0	90.00	89.86	6,922.6	81.6	7,928.1	7,928.5	0.00	0.00	0.00	
15,100.0	90.00	89.86	6,922.6	81.8	8,028.1	8,028.5	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Company:	Great Western	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	North Reference:	True
Well:	Kodak North FD 25-162HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

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)
15,200.0	90.00	89.86	6,922.6	82.1	8,128.1	8,128.5	0.00	0.00	0.00
15,259.5	90.00	89.86	6,922.6	82.2	8,187.5	8,187.9	0.00	0.00	0.00

BHL 2351'FNL & 470'FEL, Sec.25

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,218.0	6,922.6	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 2.50
6,367.8	6,328.0	30.8	-266.3	Start DLS 13.00 TFO 172.44
15,259.5	6,922.6	82.2	8,187.6	TD at 15259.5



Directional

Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 25-162HN

Wellbore #1

Plan #1 (11-21-13)

Anticollision Report

22 November, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (11-21-13)		
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	11/22/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,259.5	Plan #1 (11-21-13) (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						
Kodak North Pad Sec.26-T6N-R67W						
Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	30.1	6.9	1.298	Level 3, CC, ES
Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-2	15,259.5	15,378.4	582.9	112.6	1.239	Level 2, SF
Kodak North FD 27-179HC - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	89.6	66.5	3.871	CC
Kodak North FD 27-179HC - Wellbore #1 - Plan #1 (11-2	7,372.5	6,970.7	94.4	57.4	2.554	ES, SF
Kodak North FD 27-179HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	59.6	36.4	2.572	CC, ES, SF
Kodak North FD 27-182HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	119.7	96.5	5.169	CC, ES, SF

Offset Design	Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-21-13)											Offset Site Error:	0.0 ft
Survey Program:	0-MWD											Offset Well Error:	0.0 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft) Offset (ft)		Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	30.1	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	30.1	30.1	29.8	0.22	133.713	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	30.1	30.1	29.4	0.67	44.571	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	30.1	30.1	28.9	1.12	26.743	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	30.1	30.1	28.5	1.57	19.102	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	30.1	30.1	28.0	2.02	14.857	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	30.1	30.1	27.6	2.47	12.156	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	30.1	30.1	27.1	2.92	10.286	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	30.1	30.1	26.7	3.37	8.914	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	30.1	30.1	26.2	3.82	7.865	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	30.1	30.1	25.8	4.27	7.038	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	30.1	30.1	25.3	4.72	6.367	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	30.1	30.1	24.9	5.17	5.814	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	30.1	30.1	24.4	5.62	5.349	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	30.1	30.1	24.0	6.07	4.952	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	30.1	30.1	23.5	6.52	4.611	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	30.1	30.1	23.1	6.97	4.313	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	30.1	30.1	22.6	7.42	4.052	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	30.1	30.1	22.2	7.87	3.820	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	30.1	30.1	21.7	8.32	3.614	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	30.1	30.1	21.3	8.77	3.429	

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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	30.1	30.1	20.8	9.22	3.261			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	30.1	30.1	20.4	9.66	3.110			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	30.1	30.1	19.9	10.11	2.971			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	30.1	30.1	19.5	10.56	2.845			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	30.1	30.1	19.0	11.01	2.729			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	30.1	30.1	18.6	11.46	2.622			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	30.1	30.1	18.1	11.91	2.523			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	30.1	30.1	17.7	12.36	2.431			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	30.1	30.1	17.2	12.81	2.346			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	30.1	30.1	16.8	13.26	2.266			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	30.1	30.1	16.3	13.71	2.192			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	90.02	0.0	30.1	30.1	15.9	14.16	2.122			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	90.02	0.0	30.1	30.1	15.4	14.61	2.057			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	90.02	0.0	30.1	30.1	15.0	15.06	1.996			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	90.02	0.0	30.1	30.1	14.5	15.51	1.938			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	90.02	0.0	30.1	30.1	14.1	15.96	1.883			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	90.02	0.0	30.1	30.1	13.6	16.41	1.832			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	90.02	0.0	30.1	30.1	13.2	16.86	1.783			
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	90.02	0.0	30.1	30.1	12.7	17.31	1.737			
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	90.02	0.0	30.1	30.1	12.3	17.76	1.693			
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	90.02	0.0	30.1	30.1	11.8	18.21	1.651			
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	90.02	0.0	30.1	30.1	11.4	18.66	1.611			
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	90.02	0.0	30.1	30.1	10.9	19.11	1.573			
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	90.02	0.0	30.1	30.1	10.5	19.55	1.537			
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	90.02	0.0	30.1	30.1	10.1	20.00	1.502			
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	90.02	0.0	30.1	30.1	9.6	20.45	1.469 Level 3			
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	90.02	0.0	30.1	30.1	9.2	20.90	1.438 Level 3			
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	90.02	0.0	30.1	30.1	8.7	21.35	1.408 Level 3			
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	90.02	0.0	30.1	30.1	8.3	21.80	1.378 Level 3			
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	90.02	0.0	30.1	30.1	7.8	22.25	1.351 Level 3			
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	90.02	0.0	30.1	30.1	7.4	22.70	1.324 Level 3			
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	30.1	30.1	6.9	23.15	1.298 Level 3, CC, ES			
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	173.87	0.0	30.1	32.2	8.7	23.57	1.367 Level 3			
5,400.0	5,399.7	5,399.7	5,399.7	12.0	12.0	174.89	0.0	30.1	38.7	14.8	23.94	1.618			
5,500.0	5,499.1	5,503.0	5,502.7	12.2	12.3	170.16	4.8	25.8	45.5	21.2	24.27	1.873			
5,600.0	5,598.0	5,605.3	5,603.2	12.4	12.5	155.85	19.2	13.1	50.3	25.7	24.61	2.044			
5,700.0	5,696.0	5,704.7	5,697.7	12.7	12.7	135.64	42.0	-7.1	59.0	33.9	25.09	2.350			
5,800.0	5,793.2	5,800.0	5,784.3	12.9	13.0	116.15	71.8	-33.4	77.3	51.5	25.76	3.000			
5,900.0	5,889.2	5,891.8	5,863.7	13.2	13.3	102.26	106.2	-63.9	105.9	79.4	26.46	4.002			
6,000.0	5,983.9	5,985.5	5,944.4	13.5	13.8	95.23	142.0	-95.5	138.6	111.4	27.14	5.106			
6,100.0	6,077.5	6,079.4	6,025.2	13.9	14.2	92.29	177.8	-127.2	172.3	144.4	27.87	6.182			
6,200.0	6,171.0	6,173.3	6,106.0	14.3	14.8	90.53	213.6	-158.8	206.2	177.6	28.65	7.197			
6,300.0	6,264.5	6,267.2	6,186.8	14.7	15.3	89.26	249.4	-190.5	240.3	210.8	29.49	8.149			
6,400.0	6,358.5	6,361.1	6,267.6	15.1	16.0	87.71	285.2	-222.2	274.3	244.0	30.38	9.031			
6,500.0	6,456.7	6,453.1	6,346.8	15.4	16.6	58.77	320.3	-253.2	306.9	275.8	31.13	9.859			
6,600.0	6,556.2	6,537.7	6,420.1	15.6	17.2	-68.90	352.8	-280.1	340.1	308.5	31.60	10.762			
6,700.0	6,651.9	6,623.5	6,497.4	15.7	17.6	-78.92	387.2	-293.6	376.1	344.2	31.86	11.805			
6,800.0	6,739.0	6,718.3	6,583.6	15.7	18.0	-82.43	425.8	-289.2	413.6	381.5	32.04	12.908			
6,900.0	6,812.9	6,827.2	6,678.9	15.9	18.3	-84.73	468.7	-259.4	450.2	418.0	32.28	13.950			
7,000.0	6,869.8	6,957.3	6,779.6	16.4	18.4	-86.81	514.4	-191.8	483.0	450.2	32.81	14.721			
7,100.0	6,906.9	7,115.2	6,871.0	17.2	18.4	-88.76	556.5	-71.2	507.7	473.5	34.12	14.879			
7,200.0	6,922.2	7,299.1	6,920.8	18.4	18.6	-89.93	580.6	102.8	519.4	482.5	36.92	14.069			

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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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		
7,300.0	6,922.6	7,419.2	6,922.6	19.8	20.3	-90.00	582.6	222.7	520.3	480.3	40.04	12.997		
7,400.0	6,922.6	7,519.2	6,922.6	21.5	22.1	-90.00	583.7	322.7	521.1	477.7	43.42	12.003		
7,500.0	6,922.6	7,619.1	6,922.6	23.5	24.0	-90.00	584.7	422.7	521.9	474.7	47.23	11.052		
7,600.0	6,922.6	7,719.1	6,922.6	25.6	26.1	-90.00	585.7	522.7	522.7	471.3	51.37	10.176		
7,700.0	6,922.6	7,819.1	6,922.6	27.8	28.3	-90.00	586.8	622.7	523.5	467.7	55.77	9.387		
7,800.0	6,922.6	7,919.1	6,922.6	30.1	30.5	-90.00	587.8	722.7	524.3	463.9	60.37	8.685		
7,900.0	6,922.6	8,019.1	6,922.6	32.5	32.9	-90.00	588.8	822.7	525.1	459.9	65.13	8.062		
8,000.0	6,922.6	8,119.1	6,922.6	35.0	35.3	-90.00	589.9	922.6	525.8	455.8	70.02	7.510		
8,100.0	6,922.6	8,219.1	6,922.6	37.5	37.8	-90.00	590.9	1,022.6	526.6	451.6	75.00	7.021		
8,200.0	6,922.6	8,319.1	6,922.6	40.0	40.3	-90.00	592.0	1,122.6	527.4	447.3	80.08	6.587		
8,300.0	6,922.6	8,419.1	6,922.6	42.6	42.9	-90.00	593.0	1,222.6	528.2	443.0	85.22	6.198		
8,400.0	6,922.6	8,519.1	6,922.6	45.2	45.5	-90.00	594.0	1,322.6	529.0	438.6	90.41	5.851		
8,500.0	6,922.6	8,619.1	6,922.6	47.8	48.1	-90.00	595.1	1,422.6	529.8	434.1	95.65	5.538		
8,600.0	6,922.6	8,719.1	6,922.6	50.5	50.7	-90.00	596.1	1,522.6	530.6	429.6	100.94	5.256		
8,700.0	6,922.6	8,819.1	6,922.6	53.1	53.4	-90.00	597.1	1,622.6	531.3	425.1	106.25	5.001		
8,800.0	6,922.6	8,919.1	6,922.6	55.8	56.0	-90.00	598.2	1,722.6	532.1	420.5	111.60	4.768		
8,900.0	6,922.6	9,019.1	6,922.6	58.5	58.7	-90.00	599.2	1,822.6	532.9	415.9	116.97	4.556		
9,000.0	6,922.6	9,119.1	6,922.6	61.2	61.4	-90.00	600.2	1,922.6	533.7	411.3	122.36	4.362		
9,100.0	6,922.6	9,219.1	6,922.6	63.9	64.1	-90.00	601.3	2,022.6	534.5	406.7	127.78	4.183		
9,200.0	6,922.6	9,319.1	6,922.6	66.6	66.8	-90.00	602.3	2,122.5	535.3	402.1	133.21	4.018		
9,300.0	6,922.6	9,419.1	6,922.6	69.4	69.5	-90.00	603.4	2,222.5	536.1	397.4	138.65	3.866		
9,400.0	6,922.6	9,519.1	6,922.6	72.1	72.2	-90.00	604.4	2,322.5	536.8	392.7	144.10	3.725		
9,500.0	6,922.6	9,619.1	6,922.6	74.8	74.9	-90.00	605.4	2,422.5	537.6	388.1	149.57	3.594		
9,600.0	6,922.6	9,719.1	6,922.6	77.6	77.7	-90.00	606.5	2,522.5	538.4	383.4	155.05	3.473		
9,700.0	6,922.6	9,819.1	6,922.6	80.3	80.4	-90.00	607.5	2,622.5	539.2	378.7	160.54	3.359		
9,800.0	6,922.6	9,919.1	6,922.6	83.1	83.2	-90.00	608.5	2,722.5	540.0	374.0	166.03	3.252		
9,900.0	6,922.6	10,019.1	6,922.6	85.8	85.9	-90.00	609.6	2,822.5	540.8	369.2	171.54	3.153		
10,000.0	6,922.6	10,119.1	6,922.6	88.6	88.6	-90.00	610.6	2,922.5	541.6	364.5	177.05	3.059		
10,100.0	6,922.6	10,219.1	6,922.6	91.3	91.4	-90.00	611.6	3,022.5	542.3	359.8	182.57	2.971		
10,200.0	6,922.6	10,319.1	6,922.6	94.1	94.2	-90.00	612.7	3,122.5	543.1	355.0	188.09	2.888		
10,300.0	6,922.6	10,419.1	6,922.6	96.9	96.9	-90.00	613.7	3,222.4	543.9	350.3	193.62	2.809		
10,400.0	6,922.6	10,519.1	6,922.6	99.6	99.7	-90.00	614.7	3,322.4	544.7	345.6	199.15	2.735		
10,500.0	6,922.6	10,619.1	6,922.6	102.4	102.4	-90.00	615.8	3,422.4	545.5	340.8	204.69	2.665		
10,600.0	6,922.6	10,719.1	6,922.6	105.2	105.2	-90.00	616.8	3,522.4	546.3	336.0	210.23	2.599		
10,700.0	6,922.6	10,819.0	6,922.6	108.0	108.0	-90.00	617.9	3,622.4	547.1	331.3	215.77	2.535		
10,800.0	6,922.6	10,919.0	6,922.6	110.7	110.7	-90.00	618.9	3,722.4	547.8	326.5	221.32	2.475		
10,900.0	6,922.6	11,019.0	6,922.6	113.5	113.5	-90.00	619.9	3,822.4	548.6	321.8	226.87	2.418		
11,000.0	6,922.6	11,119.0	6,922.6	116.3	116.3	-90.00	621.0	3,922.4	549.4	317.0	232.43	2.364		
11,100.0	6,922.6	11,219.0	6,922.6	119.1	119.1	-90.00	622.0	4,022.4	550.2	312.2	237.98	2.312		
11,200.0	6,922.6	11,319.0	6,922.6	121.9	121.8	-90.00	623.0	4,122.4	551.0	307.4	243.54	2.262		
11,300.0	6,922.6	11,419.0	6,922.6	124.6	124.6	-90.00	624.1	4,222.4	551.8	302.7	249.11	2.215		
11,400.0	6,922.6	11,519.0	6,922.6	127.4	127.4	-90.00	625.1	4,322.4	552.6	297.9	254.67	2.170		
11,500.0	6,922.6	11,619.0	6,922.6	130.2	130.2	-90.00	626.1	4,422.3	553.3	293.1	260.24	2.126		
11,600.0	6,922.6	11,719.0	6,922.6	133.0	133.0	-90.00	627.2	4,522.3	554.1	288.3	265.80	2.085		
11,700.0	6,922.6	11,819.0	6,922.6	135.8	135.7	-90.00	628.2	4,622.3	554.9	283.5	271.37	2.045		
11,800.0	6,922.6	11,919.0	6,922.6	138.6	138.5	-90.00	629.3	4,722.3	555.7	278.8	276.95	2.007		
11,900.0	6,922.6	12,019.0	6,922.6	141.4	141.3	-90.00	630.3	4,822.3	556.5	274.0	282.52	1.970		
12,000.0	6,922.6	12,119.0	6,922.6	144.2	144.1	-90.00	631.3	4,922.3	557.3	269.2	288.10	1.934		
12,100.0	6,922.6	12,219.0	6,922.6	146.9	146.9	-90.00	632.4	5,022.3	558.1	264.4	293.67	1.900		
12,200.0	6,922.6	12,319.0	6,922.6	149.7	149.7	-90.00	633.4	5,122.3	558.8	259.6	299.25	1.867		
12,300.0	6,922.6	12,419.0	6,922.6	152.5	152.4	-90.00	634.4	5,222.3	559.6	254.8	304.83	1.836		
12,400.0	6,922.6	12,519.0	6,922.6	155.3	155.2	-90.00	635.5	5,322.3	560.4	250.0	310.41	1.805		

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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
12,500.0	6,922.6	12,619.0	6,922.6	158.1	158.0	-90.00	636.5	5,422.3	561.2	245.2	315.99	1.776			
12,600.0	6,922.6	12,719.0	6,922.6	160.9	160.8	-90.00	637.5	5,522.3	562.0	240.4	321.58	1.748			
12,700.0	6,922.6	12,819.0	6,922.6	163.7	163.6	-90.00	638.6	5,622.2	562.8	235.6	327.16	1.720			
12,800.0	6,922.6	12,919.0	6,922.6	166.5	166.4	-90.00	639.6	5,722.2	563.6	230.8	332.74	1.694			
12,900.0	6,922.6	13,019.0	6,922.6	169.3	169.2	-90.00	640.7	5,822.2	564.3	226.0	338.33	1.668			
13,000.0	6,922.6	13,119.0	6,922.6	172.1	172.0	-90.00	641.7	5,922.2	565.1	221.2	343.92	1.643			
13,100.0	6,922.6	13,219.0	6,922.6	174.9	174.8	-90.00	642.7	6,022.2	565.9	216.4	349.50	1.619			
13,200.0	6,922.6	13,319.0	6,922.6	177.7	177.5	-90.00	643.8	6,122.2	566.7	211.6	355.09	1.596			
13,300.0	6,922.6	13,419.0	6,922.6	180.5	180.3	-90.00	644.8	6,222.2	567.5	206.8	360.68	1.573			
13,400.0	6,922.6	13,519.0	6,922.6	183.3	183.1	-90.00	645.8	6,322.2	568.3	202.0	366.27	1.552			
13,500.0	6,922.6	13,619.0	6,922.6	186.1	185.9	-90.00	646.9	6,422.2	569.1	197.2	371.86	1.530			
13,600.0	6,922.6	13,719.0	6,922.6	188.9	188.7	-90.00	647.9	6,522.2	569.8	192.4	377.45	1.510			
13,700.0	6,922.6	13,819.0	6,922.6	191.7	191.5	-90.00	648.9	6,622.2	570.6	187.6	383.05	1.490	Level 3		
13,800.0	6,922.6	13,919.0	6,922.6	194.4	194.3	-90.00	650.0	6,722.2	571.4	182.8	388.64	1.470	Level 3		
13,900.0	6,922.6	14,018.9	6,922.6	197.2	197.1	-90.00	651.0	6,822.1	572.2	178.0	394.23	1.451	Level 3		
14,000.0	6,922.6	14,118.9	6,922.6	200.0	199.9	-90.00	652.0	6,922.1	573.0	173.2	399.83	1.433	Level 3		
14,100.0	6,922.6	14,218.9	6,922.6	202.8	202.7	-90.00	653.1	7,022.1	573.8	168.4	405.42	1.415	Level 3		
14,200.0	6,922.6	14,318.9	6,922.6	205.6	205.5	-90.00	654.1	7,122.1	574.6	163.5	411.01	1.398	Level 3		
14,300.0	6,922.6	14,418.9	6,922.6	208.4	208.3	-90.00	655.2	7,222.1	575.3	158.7	416.61	1.381	Level 3		
14,400.0	6,922.6	14,518.9	6,922.6	211.2	211.1	-90.00	656.2	7,322.1	576.1	153.9	422.21	1.365	Level 3		
14,500.0	6,922.6	14,618.9	6,922.6	214.0	213.9	-90.00	657.2	7,422.1	576.9	149.1	427.80	1.349	Level 3		
14,600.0	6,922.6	14,718.9	6,922.6	216.8	216.7	-90.00	658.3	7,522.1	577.7	144.3	433.40	1.333	Level 3		
14,700.0	6,922.6	14,818.9	6,922.6	219.6	219.5	-90.00	659.3	7,622.1	578.5	139.5	439.00	1.318	Level 3		
14,800.0	6,922.6	14,918.9	6,922.6	222.4	222.3	-90.00	660.3	7,722.1	579.3	134.7	444.59	1.303	Level 3		
14,900.0	6,922.6	15,018.9	6,922.6	225.2	225.1	-90.00	661.4	7,822.1	580.1	129.9	450.19	1.288	Level 3		
15,000.0	6,922.6	15,118.9	6,922.6	228.0	227.9	-90.00	662.4	7,922.1	580.8	125.1	455.79	1.274	Level 3		
15,100.0	6,922.6	15,218.9	6,922.6	230.8	230.7	-90.00	663.4	8,022.0	581.6	120.2	461.39	1.261	Level 3		
15,200.0	6,922.6	15,318.9	6,922.6	233.6	233.5	-90.00	664.5	8,122.0	582.4	115.4	466.99	1.247	Level 2		
15,259.5	6,922.6	15,378.4	6,922.6	235.3	235.1	-90.00	665.1	8,181.5	582.9	112.6	470.32	1.239	Level 2, SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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	90.02	0.0	89.6	89.6						
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	89.6	89.6	89.4	0.22	398.664			
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	89.6	89.6	88.9	0.67	132.888			
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	89.6	89.6	88.5	1.12	79.733			
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	89.6	89.6	88.0	1.57	56.952			
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	89.6	89.6	87.6	2.02	44.296			
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	89.6	89.6	87.1	2.47	36.242			
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	89.6	89.6	86.7	2.92	30.666			
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	89.6	89.6	86.2	3.37	26.578			
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	89.6	89.6	85.8	3.82	23.451			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	89.6	89.6	85.3	4.27	20.982			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	89.6	89.6	84.9	4.72	18.984			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	89.6	89.6	84.4	5.17	17.333			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	89.6	89.6	84.0	5.62	15.947			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	89.6	89.6	83.5	6.07	14.765			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	89.6	89.6	83.1	6.52	13.747			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	89.6	89.6	82.6	6.97	12.860			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	89.6	89.6	82.2	7.42	12.081			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	89.6	89.6	81.7	7.87	11.390			
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	89.6	89.6	81.3	8.32	10.775			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	89.6	89.6	80.8	8.77	10.222			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	89.6	89.6	80.4	9.22	9.724			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	89.6	89.6	79.9	9.66	9.271			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	89.6	89.6	79.5	10.11	8.859			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	89.6	89.6	79.0	10.56	8.482			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	89.6	89.6	78.6	11.01	8.136			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	89.6	89.6	78.1	11.46	7.817			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	89.6	89.6	77.7	11.91	7.522			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	89.6	89.6	77.2	12.36	7.248			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	89.6	89.6	76.8	12.81	6.994			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	89.6	89.6	76.3	13.26	6.757			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	89.6	89.6	75.9	13.71	6.535			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	90.02	0.0	89.6	89.6	75.4	14.16	6.328			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	90.02	0.0	89.6	89.6	75.0	14.61	6.133			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	90.02	0.0	89.6	89.6	74.5	15.06	5.950			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	90.02	0.0	89.6	89.6	74.1	15.51	5.778			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	90.02	0.0	89.6	89.6	73.6	15.96	5.615			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	90.02	0.0	89.6	89.6	73.2	16.41	5.461			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	90.02	0.0	89.6	89.6	72.7	16.86	5.316			
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	90.02	0.0	89.6	89.6	72.3	17.31	5.177			
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	90.02	0.0	89.6	89.6	71.8	17.76	5.046			
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	90.02	0.0	89.6	89.6	71.4	18.21	4.922			
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	90.02	0.0	89.6	89.6	71.0	18.66	4.803			
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	90.02	0.0	89.6	89.6	70.5	19.11	4.690			
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	90.02	0.0	89.6	89.6	70.1	19.55	4.582			
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	90.02	0.0	89.6	89.6	69.6	20.00	4.479			
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	90.02	0.0	89.6	89.6	69.2	20.45	4.381			
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	90.02	0.0	89.6	89.6	68.7	20.90	4.287			
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	90.02	0.0	89.6	89.6	68.3	21.35	4.196			
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	90.02	0.0	89.6	89.6	67.8	21.80	4.110			
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	90.02	0.0	89.6	89.6	67.4	22.25	4.027			
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	90.02	0.0	89.6	89.6	66.9	22.70	3.947			

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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	89.6	89.6	66.5	23.15	3.871	CC		
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	173.58	0.0	89.6	91.8	68.2	23.57	3.894			
5,400.0	5,399.7	5,399.7	5,399.7	12.0	12.0	173.99	0.0	89.6	98.3	74.3	23.94	4.106			
5,500.0	5,499.1	5,495.3	5,495.3	12.2	12.2	174.59	-0.2	91.3	110.8	86.6	24.24	4.572			
5,600.0	5,598.0	5,589.1	5,588.9	12.4	12.4	175.28	-0.6	96.1	131.1	106.6	24.49	5.353			
5,700.0	5,696.0	5,680.2	5,679.8	12.7	12.6	175.91	-1.2	103.9	158.9	134.2	24.70	6.433			
5,800.0	5,793.2	5,768.2	5,767.1	12.9	12.8	176.43	-2.0	114.3	194.0	169.1	24.87	7.801			
5,900.0	5,889.2	5,852.3	5,850.2	13.2	13.0	176.84	-3.0	126.9	236.0	211.0	24.98	9.446			
6,000.0	5,983.9	5,932.1	5,928.7	13.5	13.1	177.15	-4.1	141.2	284.6	259.5	25.06	11.356			
6,100.0	6,077.5	6,007.7	6,002.7	13.9	13.3	177.43	-5.4	156.8	338.4	313.1	25.32	13.363			
6,200.0	6,171.0	6,080.6	6,073.6	14.3	13.5	177.65	-6.7	173.8	394.6	369.0	25.68	15.370			
6,300.0	6,264.5	6,150.9	6,141.4	14.7	13.7	177.81	-8.2	192.0	453.0	427.0	26.03	17.406			
6,400.0	6,358.5	6,219.1	6,206.9	15.1	13.9	175.83	-9.7	211.3	512.5	485.7	26.86	19.084			
6,500.0	6,456.7	6,300.0	6,283.8	15.4	14.2	146.35	-11.7	236.2	559.5	531.5	28.00	19.979			
6,600.0	6,556.2	7,628.5	7,115.6	15.6	22.4	147.53	-37.5	-288.7	564.9	530.5	34.46	16.393			
6,700.0	6,651.9	7,600.8	7,115.6	15.7	21.8	156.36	-37.6	-261.0	471.1	440.3	30.81	15.290			
6,800.0	6,739.0	7,552.2	7,115.6	15.7	21.0	158.69	-37.9	-212.4	386.8	358.7	28.15	13.741			
6,900.0	6,812.9	7,485.3	7,115.6	15.9	19.9	158.14	-38.3	-145.5	316.6	291.1	25.49	12.422			
7,000.0	6,869.8	7,402.9	7,115.6	16.4	18.7	156.13	-38.7	-63.1	264.0	240.9	23.16	11.403			
7,100.0	6,906.9	7,233.0	7,085.1	17.2	16.9	147.01	-37.5	102.8	216.1	192.6	23.51	9.192			
7,200.0	6,922.2	7,106.3	7,020.8	18.4	16.2	134.16	-35.3	211.4	161.5	134.3	27.22	5.935			
7,300.0	6,922.6	7,015.7	6,956.4	19.8	16.0	109.47	-33.1	274.8	111.5	77.2	34.25	3.255			
7,372.5	6,922.6	6,970.7	6,919.6	21.1	15.9	88.19	-31.9	300.8	94.4	57.4	36.97	2.554	ES, SF		
7,400.0	6,922.6	6,956.8	6,907.7	21.5	15.9	81.02	-31.5	308.0	97.3	60.3	37.03	2.627			
7,500.0	6,922.6	6,916.9	6,872.4	23.5	15.9	61.63	-30.3	326.5	146.7	111.3	35.36	4.148			
7,600.0	6,922.6	6,888.6	6,846.4	25.6	15.9	50.38	-29.4	337.5	225.2	191.7	33.50	6.721			
7,700.0	6,922.6	6,867.7	6,826.7	27.8	15.9	43.62	-28.8	344.5	313.2	280.8	32.42	9.660			
7,800.0	6,922.6	6,850.0	6,809.8	30.1	15.8	38.84	-28.2	349.6	405.4	373.6	31.79	12.753			
7,900.0	6,922.6	6,839.0	6,799.1	32.5	15.8	36.25	-27.9	352.5	499.9	467.9	31.99	15.623			
8,000.0	6,922.6	6,825.0	6,785.5	35.0	15.8	33.31	-27.4	355.7	595.7	563.8	31.86	18.694			
8,100.0	6,922.6	6,825.0	6,785.5	37.5	15.8	33.31	-27.4	355.7	692.3	659.0	33.31	20.784			
8,200.0	6,922.6	6,813.3	6,774.1	40.0	15.8	31.13	-27.1	358.0	789.6	756.2	33.41	23.631			
8,300.0	6,922.6	6,800.0	6,761.0	42.6	15.8	28.92	-26.6	360.3	887.5	854.1	33.36	26.602			
8,400.0	6,922.6	6,800.0	6,761.0	45.2	15.8	28.92	-26.6	360.3	985.5	950.8	34.72	28.381			

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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	90.02	0.0	59.6	59.6						
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	59.6	59.6	59.3	0.22	264.951			
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	59.6	59.6	58.9	0.67	88.317			
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	59.6	59.6	58.4	1.12	52.990			
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	59.6	59.6	58.0	1.57	37.850			
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	59.6	59.6	57.5	2.02	29.439			
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	59.6	59.6	57.1	2.47	24.086			
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	59.6	59.6	56.6	2.92	20.381			
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	59.6	59.6	56.2	3.37	17.663			
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	59.6	59.6	55.7	3.82	15.585			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	59.6	59.6	55.3	4.27	13.945			
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	59.6	59.6	54.8	4.72	12.617			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	59.6	59.6	54.4	5.17	11.520			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	59.6	59.6	53.9	5.62	10.598			
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	59.6	59.6	53.5	6.07	9.813			
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	59.6	59.6	53.0	6.52	9.136			
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	59.6	59.6	52.6	6.97	8.547			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	59.6	59.6	52.1	7.42	8.029			
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	59.6	59.6	51.7	7.87	7.570			
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	59.6	59.6	51.2	8.32	7.161			
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	59.6	59.6	50.8	8.77	6.794			
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	59.6	59.6	50.3	9.22	6.462			
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	59.6	59.6	49.9	9.66	6.162			
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	59.6	59.6	49.4	10.11	5.888			
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	59.6	59.6	49.0	10.56	5.637			
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	59.6	59.6	48.5	11.01	5.407			
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	59.6	59.6	48.1	11.46	5.195			
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	59.6	59.6	47.6	11.91	4.999			
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	59.6	59.6	47.2	12.36	4.817			
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	59.6	59.6	46.7	12.81	4.648			
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	59.6	59.6	46.3	13.26	4.491			
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	59.6	59.6	45.8	13.71	4.343			
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	90.02	0.0	59.6	59.6	45.4	14.16	4.206			
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	90.02	0.0	59.6	59.6	44.9	14.61	4.076			
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	90.02	0.0	59.6	59.6	44.5	15.06	3.954			
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	90.02	0.0	59.6	59.6	44.0	15.51	3.840			
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	90.02	0.0	59.6	59.6	43.6	15.96	3.732			
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	90.02	0.0	59.6	59.6	43.1	16.41	3.629			
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	90.02	0.0	59.6	59.6	42.7	16.86	3.533			
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	90.02	0.0	59.6	59.6	42.2	17.31	3.441			
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	90.02	0.0	59.6	59.6	41.8	17.76	3.354			
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	90.02	0.0	59.6	59.6	41.3	18.21	3.271			
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	90.02	0.0	59.6	59.6	40.9	18.66	3.192			
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	90.02	0.0	59.6	59.6	40.4	19.11	3.117			
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	90.02	0.0	59.6	59.6	40.0	19.55	3.045			
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	90.02	0.0	59.6	59.6	39.5	20.00	2.977			
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	90.02	0.0	59.6	59.6	39.1	20.45	2.912			
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	90.02	0.0	59.6	59.6	38.6	20.90	2.849			
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	90.02	0.0	59.6	59.6	38.2	21.35	2.789			
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	90.02	0.0	59.6	59.6	37.7	21.80	2.731			
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	90.02	0.0	59.6	59.6	37.3	22.25	2.676			
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	90.02	0.0	59.6	59.6	36.9	22.70	2.623			

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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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			
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	59.6	59.6	36.4	23.15	2.572	CC, ES, SF		
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	173.66	0.0	59.6	61.7	38.2	23.57	2.619			
5,400.0	5,399.7	5,399.7	5,399.7	12.0	12.0	174.25	0.0	59.6	68.2	44.3	23.94	2.850			
5,500.0	5,499.1	5,499.1	5,499.1	12.2	12.2	175.02	0.0	59.6	79.1	54.8	24.27	3.258			
5,600.0	5,598.0	5,598.0	5,598.0	12.4	12.5	175.79	0.0	59.6	94.2	69.7	24.55	3.837			
5,700.0	5,696.0	5,683.2	5,683.0	12.7	12.7	175.54	1.4	64.2	118.9	94.2	24.77	4.802			
5,800.0	5,793.2	5,761.1	5,759.7	12.9	12.8	174.24	5.3	76.8	158.0	133.0	24.93	6.336			
5,900.0	5,889.2	5,829.8	5,825.9	13.2	13.0	172.77	10.8	94.5	209.6	184.6	25.04	8.371			
6,000.0	5,983.9	5,888.9	5,881.1	13.5	13.1	171.43	17.1	114.4	271.9	246.8	25.10	10.834			
6,100.0	6,077.5	5,939.2	5,926.7	13.9	13.3	170.51	23.4	134.8	342.1	316.8	25.33	13.509			
6,200.0	6,171.0	5,988.5	5,969.8	14.3	13.4	169.74	30.5	157.6	416.8	391.2	25.65	16.252			
6,300.0	6,264.5	6,053.6	6,026.2	14.7	13.7	168.95	40.1	188.5	492.7	466.7	25.99	18.957			
6,400.0	6,358.5	6,119.5	6,083.4	15.1	14.0	166.83	49.9	219.8	567.8	541.0	26.79	21.190			
6,500.0	6,456.7	7,506.6	6,930.6	15.4	23.2	63.68	193.1	-293.9	499.1	460.6	38.53	12.954			
6,600.0	6,556.2	7,501.1	6,930.6	15.6	23.1	-99.55	193.1	-288.4	404.0	367.3	36.74	10.997			
6,700.0	6,651.9	7,473.4	6,930.6	15.7	22.6	-122.18	193.1	-260.7	315.2	280.9	34.22	9.210			
6,800.0	6,739.0	7,424.8	6,930.6	15.7	21.7	-126.03	193.2	-212.1	239.0	206.1	32.86	7.272			
6,900.0	6,812.9	7,357.9	6,930.6	15.9	20.6	-121.21	193.3	-145.2	182.1	149.4	32.70	5.569			
7,000.0	6,869.8	7,276.0	6,930.6	16.4	19.3	-110.77	193.4	-63.3	148.7	115.0	33.69	4.413			
7,100.0	6,906.9	7,175.0	6,921.0	17.2	18.0	-94.72	192.0	37.0	132.7	97.6	35.03	3.787			
7,178.2	6,920.8	7,102.2	6,900.3	18.1	17.3	-80.78	188.5	106.6	128.6	93.5	35.12	3.662			
7,200.0	6,922.2	7,082.9	6,892.9	18.4	17.1	-76.91	187.3	124.4	128.9	94.0	34.89	3.695			
7,300.0	6,922.6	7,001.9	6,853.9	19.8	16.6	-59.91	180.8	195.0	140.9	108.1	32.78	4.298			
7,400.0	6,922.6	6,937.1	6,813.9	21.5	16.4	-45.78	174.1	245.5	176.3	146.6	29.71	5.934			
7,500.0	6,922.6	6,886.1	6,777.6	23.5	16.3	-36.04	167.9	280.7	232.0	204.8	27.19	8.532			
7,600.0	6,922.6	6,850.0	6,749.6	25.6	16.3	-30.20	163.2	302.9	301.1	275.3	25.84	11.655			
7,700.0	6,922.6	6,814.2	6,720.1	27.8	16.3	-25.29	158.2	322.6	378.6	353.9	24.68	15.342			
7,800.0	6,922.6	6,788.5	6,698.0	30.1	16.3	-22.25	154.5	335.2	461.6	437.3	24.26	19.030			
7,900.0	6,922.6	6,767.5	6,679.4	32.5	16.2	-20.05	151.3	344.5	548.3	524.1	24.15	22.704			
8,000.0	6,922.6	6,750.0	6,663.7	35.0	16.2	-18.38	148.7	351.6	637.6	613.4	24.25	26.289			
8,100.0	6,922.6	6,735.3	6,650.2	37.5	16.2	-17.10	146.4	357.0	728.9	704.3	24.51	29.739			
8,200.0	6,922.6	6,725.0	6,640.7	40.0	16.2	-16.24	144.8	360.6	821.6	796.6	24.96	32.911			
8,300.0	6,922.6	6,712.1	6,628.6	42.6	16.2	-15.24	142.7	364.7	915.4	890.1	25.31	36.171			

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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	90.02	0.0	119.7	119.7					
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	119.7	119.7	119.4	0.22	532.377		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	119.7	119.7	119.0	0.67	177.459		
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	119.7	119.7	118.5	1.12	106.475		
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	119.7	119.7	118.1	1.57	76.054		
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	119.7	119.7	117.6	2.02	59.153		
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	119.7	119.7	117.2	2.47	48.398		
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	119.7	119.7	116.7	2.92	40.952		
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	119.7	119.7	116.3	3.37	35.492		
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	119.7	119.7	115.8	3.82	31.316		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	119.7	119.7	115.4	4.27	28.020		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	119.7	119.7	114.9	4.72	25.351		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	119.7	119.7	114.5	5.17	23.147		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	119.7	119.7	114.0	5.62	21.295		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	119.7	119.7	113.6	6.07	19.718		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	119.7	119.7	113.1	6.52	18.358		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	119.7	119.7	112.7	6.97	17.173		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	119.7	119.7	112.2	7.42	16.133		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	119.7	119.7	111.8	7.87	15.211		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	119.7	119.7	111.3	8.32	14.389		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	119.7	119.7	110.9	8.77	13.651		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	119.7	119.7	110.4	9.22	12.985		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	119.7	119.7	110.0	9.66	12.381		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	119.7	119.7	109.5	10.11	11.831		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	119.7	119.7	109.1	10.56	11.327		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	119.7	119.7	108.6	11.01	10.865		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	119.7	119.7	108.2	11.46	10.439		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	119.7	119.7	107.7	11.91	10.045		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	119.7	119.7	107.3	12.36	9.680		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	119.7	119.7	106.8	12.81	9.340		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	119.7	119.7	106.4	13.26	9.023		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	119.7	119.7	105.9	13.71	8.727		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	90.02	0.0	119.7	119.7	105.5	14.16	8.450		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	90.02	0.0	119.7	119.7	105.1	14.61	8.190		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	90.02	0.0	119.7	119.7	104.6	15.06	7.946		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	90.02	0.0	119.7	119.7	104.2	15.51	7.716		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	90.02	0.0	119.7	119.7	103.7	15.96	7.498		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	90.02	0.0	119.7	119.7	103.3	16.41	7.293		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	90.02	0.0	119.7	119.7	102.8	16.86	7.098		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	90.02	0.0	119.7	119.7	102.4	17.31	6.914		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	90.02	0.0	119.7	119.7	101.9	17.76	6.739		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	90.02	0.0	119.7	119.7	101.5	18.21	6.573		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	90.02	0.0	119.7	119.7	101.0	18.66	6.414		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	90.02	0.0	119.7	119.7	100.6	19.11	6.263		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	90.02	0.0	119.7	119.7	100.1	19.55	6.119		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	90.02	0.0	119.7	119.7	99.7	20.00	5.982		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	90.02	0.0	119.7	119.7	99.2	20.45	5.850		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	90.02	0.0	119.7	119.7	98.8	20.90	5.724		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	90.02	0.0	119.7	119.7	98.3	21.35	5.604		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	90.02	0.0	119.7	119.7	97.9	21.80	5.488		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	90.02	0.0	119.7	119.7	97.4	22.25	5.378		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	90.02	0.0	119.7	119.7	97.0	22.70	5.271		

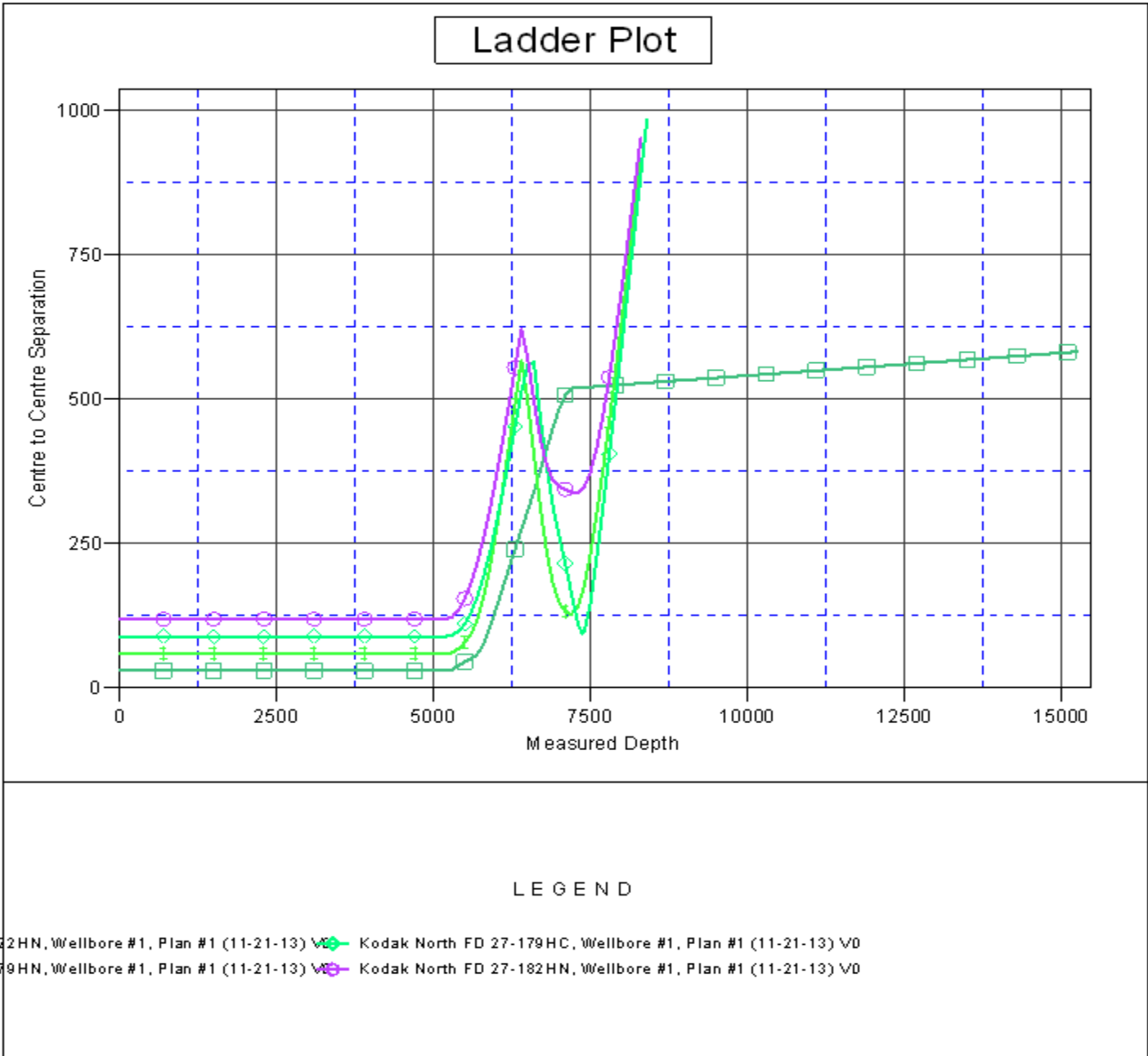
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	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			
5,200.0	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	119.7	119.7	96.5	23.15	5.169	CC, ES, SF		
5,300.0	5,300.0	5,295.6	5,295.6	11.8	11.8	174.04	-1.1	121.3	123.6	100.0	23.54	5.251			
5,400.0	5,399.7	5,390.3	5,390.1	12.0	11.9	175.64	-4.4	126.3	135.4	111.5	23.85	5.676			
5,500.0	5,499.1	5,483.1	5,482.3	12.2	12.1	177.75	-9.6	134.3	155.1	131.0	24.13	6.430			
5,600.0	5,598.0	5,573.0	5,571.4	12.4	12.3	179.94	-16.6	145.1	182.8	158.4	24.36	7.502			
5,700.0	5,696.0	5,659.5	5,656.4	12.7	12.5	-178.07	-25.1	158.2	218.0	193.5	24.55	8.881			
5,800.0	5,793.2	5,741.8	5,736.8	12.9	12.7	-176.36	-34.8	173.1	260.6	235.9	24.70	10.552			
5,900.0	5,889.2	5,819.5	5,812.0	13.2	12.9	-174.91	-45.4	189.4	310.1	285.3	24.81	12.502			
6,000.0	5,983.9	5,892.2	5,881.7	13.5	13.0	-173.69	-56.6	206.6	366.0	341.1	24.87	14.716			
6,100.0	6,077.5	5,960.2	5,946.4	13.9	13.3	-172.79	-68.1	224.4	427.0	401.8	25.13	16.988			
6,200.0	6,171.0	6,025.2	6,007.5	14.3	13.5	-172.08	-80.2	242.9	490.2	464.7	25.48	19.241			
6,300.0	6,264.5	6,090.2	6,068.0	14.7	13.7	-171.42	-93.1	262.8	555.6	529.7	25.83	21.508			
6,400.0	6,358.5	6,161.9	6,134.4	15.1	14.0	-173.56	-107.9	285.6	621.1	594.5	26.65	23.306			
6,500.0	6,456.7	7,484.4	6,930.6	15.4	22.5	-132.64	-286.7	-293.1	573.7	535.9	37.78	15.185			
6,600.0	6,556.2	7,478.9	6,930.6	15.6	22.4	115.78	-286.7	-287.7	497.7	460.4	37.33	13.334			
6,700.0	6,651.9	7,451.2	6,930.6	15.7	21.9	113.57	-286.7	-260.0	433.9	397.6	36.25	11.969			
6,800.0	6,739.0	7,402.6	6,930.6	15.7	20.9	111.37	-286.6	-211.4	387.6	352.4	35.27	10.990			
6,900.0	6,812.9	7,335.6	6,930.6	15.9	19.8	106.25	-286.5	-144.4	360.6	325.9	34.72	10.387			
7,000.0	6,869.8	7,253.8	6,930.6	16.4	18.5	99.69	-286.4	-62.6	349.4	315.0	34.45	10.144			
7,100.0	6,906.9	7,139.2	6,918.3	17.2	17.1	91.21	-283.5	51.0	344.6	310.4	34.23	10.068			
7,200.0	6,922.2	7,036.7	6,883.6	18.4	16.2	83.37	-275.6	146.9	340.1	305.8	34.35	9.901			
7,276.3	6,924.2	6,969.5	6,849.4	19.5	16.0	77.25	-267.8	204.2	338.6	304.0	34.59	9.787			
7,300.0	6,922.6	6,950.0	6,838.0	19.8	16.0	75.52	-265.3	219.7	338.4	303.8	34.65	9.767			
7,400.0	6,922.6	6,883.5	6,794.1	21.5	15.9	67.99	-255.4	268.6	348.1	313.2	34.89	9.975			
7,500.0	6,922.6	6,833.3	6,756.4	23.5	15.9	61.76	-246.9	300.7	373.9	338.7	35.13	10.641			
7,600.0	6,922.6	6,794.8	6,725.3	25.6	15.9	56.89	-239.9	322.2	416.1	380.6	35.49	11.724			
7,700.0	6,922.6	6,764.8	6,699.9	27.8	15.8	53.12	-234.2	337.0	472.1	436.1	36.00	13.114			
7,800.0	6,922.6	6,741.0	6,679.0	30.1	15.8	50.18	-229.6	347.5	538.6	502.0	36.67	14.689			
7,900.0	6,922.6	6,725.0	6,664.7	32.5	15.8	48.25	-226.3	353.8	612.9	575.2	37.66	16.275			
8,000.0	6,922.6	6,700.0	6,641.9	35.0	15.8	45.32	-221.2	362.7	692.7	654.6	38.06	18.200			
8,100.0	6,922.6	6,700.0	6,641.9	37.5	15.8	45.32	-221.2	362.7	776.6	736.7	39.88	19.472			
8,200.0	6,922.6	6,675.0	6,618.6	40.0	15.8	42.52	-216.0	370.3	863.4	823.3	40.11	21.526			
8,300.0	6,922.6	6,675.0	6,618.6	42.6	15.8	42.52	-216.0	370.3	952.4	910.5	41.90	22.730			

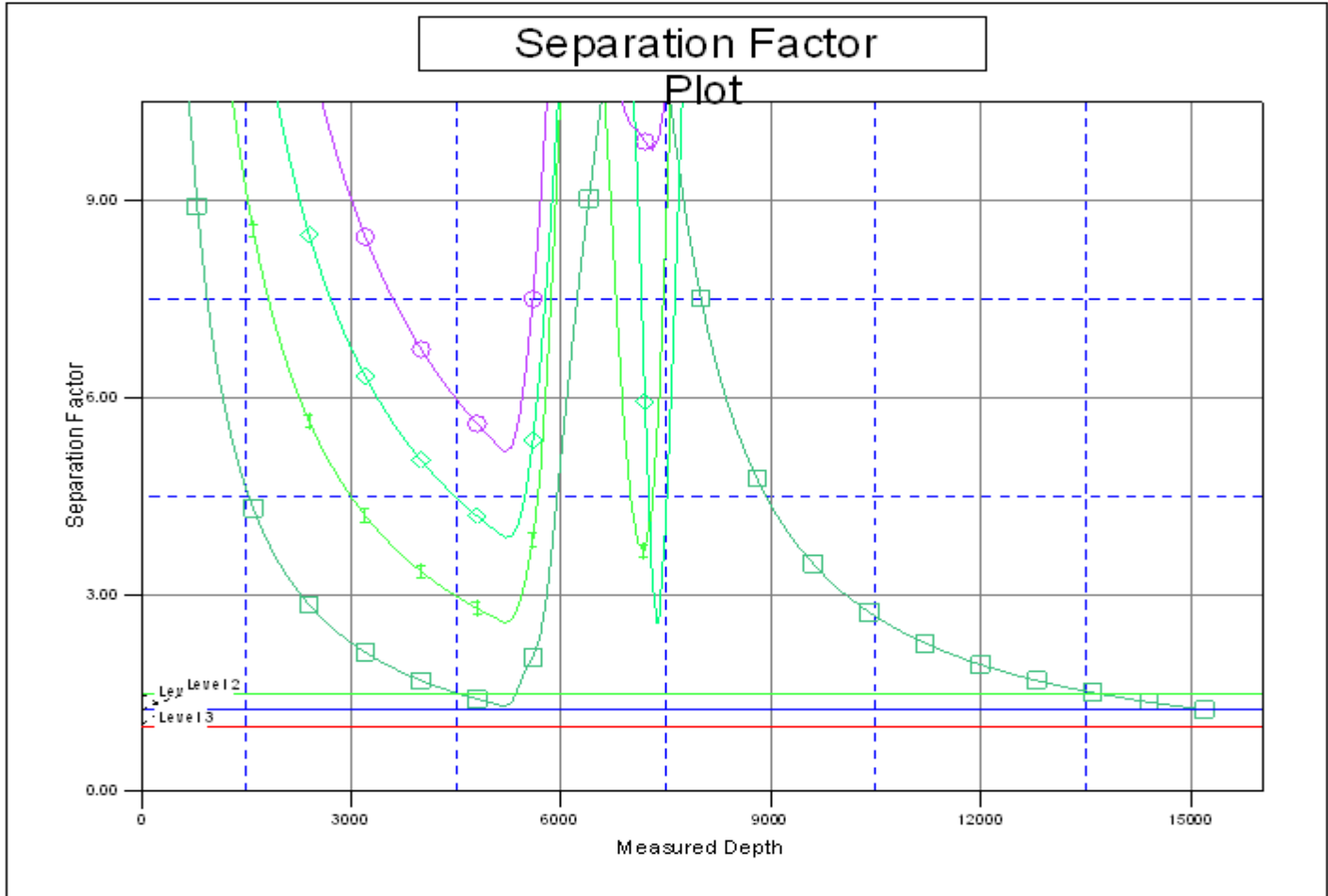
Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 25-162HN	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 (11-21-13)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4776.6ft (RKB - 16.5') Coordinates are relative to: Kodak North FD 25-162HN
 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: 0.41°



Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 25-162HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
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Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
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 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: 0.41°



LEGEND

- 122HN, Wellbore #1, Plan #1 (11-21-13) V0 - Kodak North FD 27-179HC, Wellbore #1, Plan #1 (11-21-13) V0
- 179HN, Wellbore #1, Plan #1 (11-21-13) V0 - Kodak North FD 27-182HN, Wellbore #1, Plan #1 (11-21-13) V0