

Great Western

Well Name: **Kodak North FD 27-019HN**

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	0.0	1410693.48	3177235.95	40.459008	-104.863069	

RKB - 16.5' WELL @ 4776.6ft (RKB - 16.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2253'FNL & 2030'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 170'FNL & 470'FWL, Sec.27	6930.6	2072.4	-6778.0	Point
Entry Pt. 170'FNL & 1825'FWL, Sec.26	6930.6	2082.8	-208.7	Point



Azimuths to True North
Magnetic North: 8.59°

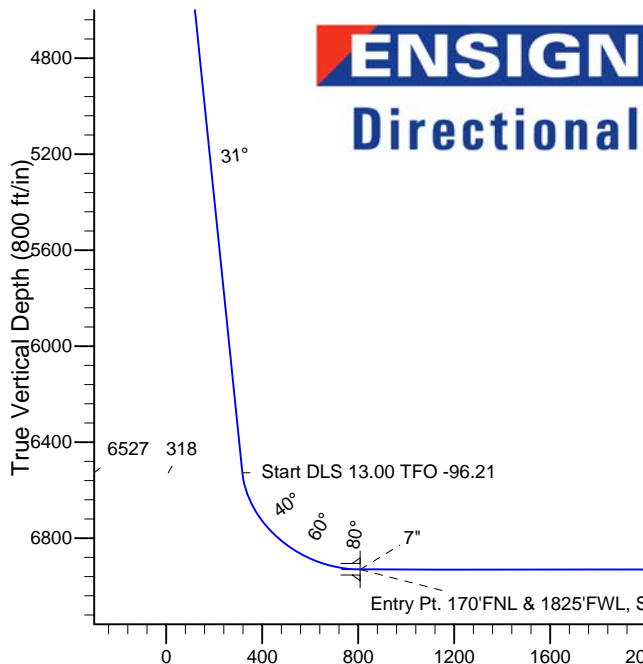
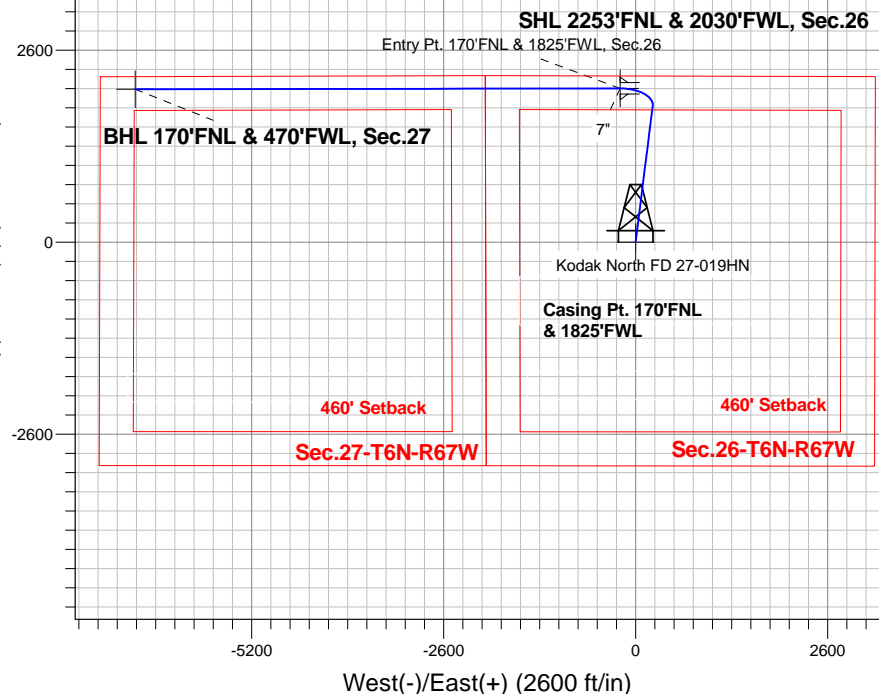
Magnetic Field
Strength: 52895.7nT
Dip Angle: 67.00°
Date: 11/21/2013
Model: IGRF2010

Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 27-019HN
Plan #1 (11-21-13)
13:12, November 22 2013

ANNOTATIONS

TVD	MD	Annotation
2900.0	2900.0	KOP - Start Build 3.00
6527.3	7015.8	Start DLS 13.00 TFO -96.21
6930.6	14306.0	TD at 14306.0

South(-)/North(+) (2600 ft/in)



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	2900.0	0.00	0.00	2900.0	0.0	0.0	0.00	0.00	0.0	
3	3931.6	30.95	7.16	3882.2	269.8	33.9	3.00	7.16	46.5	
4	7015.8	30.95	7.16	6527.3	1843.5	231.5	0.00	0.00	317.7	
5	7736.7	90.00	269.92	6930.6	2082.8	-208.7	13.00	-96.21	808.6	Entry Pt. 170'FNL & 1825'FWL, Sec.26
6	7737.7	90.00	269.91	6930.6	2082.8	-209.7	1.00	-90.00	809.6	
7	14306.0	90.00	269.91	6930.6	2072.4	-6778.0	0.00	0.00	7087.8	BHL 170'FNL & 470'FWL, Sec.27

BHL 170'FNL & 470'FWL, Sec.27

Vertical Section at 287.00° (800 ft/in)



Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 27-019HN

Wellbore #1

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

Standard Planning Report

22 November, 2013

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	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,931.6	30.95	7.16	3,882.2	269.8	33.9	3.00	3.00	0.00	7.16	
7,015.8	30.95	7.16	6,527.3	1,843.5	231.5	0.00	0.00	0.00	0.00	
7,736.7	90.00	269.92	6,930.6	2,082.8	-208.7	13.00	8.19	-13.49	-96.21	Entry Pt. 170'FNL & 470'WFL
7,737.7	90.00	269.91	6,930.6	2,082.8	-209.7	1.00	0.00	-1.00	-90.00	
14,306.0	90.00	269.91	6,930.6	2,072.4	-6,778.0	0.00	0.00	0.00	0.00	BHL 170'FNL & 470'WFL

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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 2253'FNL & 2030'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
KOP - Start Build 3.00									
3,000.0	3.00	7.16	3,000.0	2.6	0.3	0.4	3.00	3.00	0.00
3,100.0	6.00	7.16	3,099.6	10.4	1.3	1.8	3.00	3.00	0.00
3,200.0	9.00	7.16	3,198.8	23.3	2.9	4.0	3.00	3.00	0.00
3,300.0	12.00	7.16	3,297.1	41.4	5.2	7.1	3.00	3.00	0.00
3,400.0	15.00	7.16	3,394.3	64.6	8.1	11.1	3.00	3.00	0.00
3,500.0	18.00	7.16	3,490.2	92.7	11.6	16.0	3.00	3.00	0.00
3,600.0	21.00	7.16	3,584.4	125.9	15.8	21.7	3.00	3.00	0.00
3,700.0	24.00	7.16	3,676.8	163.8	20.6	28.2	3.00	3.00	0.00
3,800.0	27.00	7.16	3,767.1	206.5	25.9	35.6	3.00	3.00	0.00
3,900.0	30.00	7.16	3,854.9	253.9	31.9	43.8	3.00	3.00	0.00
3,931.6	30.95	7.16	3,882.2	269.8	33.9	46.5	3.00	3.00	0.00
4,000.0	30.95	7.16	3,940.8	304.7	38.3	52.5	0.00	0.00	0.00
4,100.0	30.95	7.16	4,026.6	355.7	44.7	61.3	0.00	0.00	0.00
4,200.0	30.95	7.16	4,112.4	406.7	51.1	70.1	0.00	0.00	0.00
4,300.0	30.95	7.16	4,198.1	457.8	57.5	78.9	0.00	0.00	0.00
4,400.0	30.95	7.16	4,283.9	508.8	63.9	87.7	0.00	0.00	0.00
4,500.0	30.95	7.16	4,369.6	559.8	70.3	96.5	0.00	0.00	0.00
4,600.0	30.95	7.16	4,455.4	610.8	76.7	105.3	0.00	0.00	0.00
4,700.0	30.95	7.16	4,541.2	661.9	83.1	114.1	0.00	0.00	0.00
4,800.0	30.95	7.16	4,626.9	712.9	89.5	122.9	0.00	0.00	0.00
4,900.0	30.95	7.16	4,712.7	763.9	95.9	131.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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)
5,000.0	30.95	7.16	4,798.5	814.9	102.3	140.4	0.00	0.00	0.00
5,100.0	30.95	7.16	4,884.2	866.0	108.7	149.2	0.00	0.00	0.00
5,200.0	30.95	7.16	4,970.0	917.0	115.1	158.0	0.00	0.00	0.00
5,300.0	30.95	7.16	5,055.8	968.0	121.5	166.8	0.00	0.00	0.00
5,400.0	30.95	7.16	5,141.5	1,019.0	127.9	175.6	0.00	0.00	0.00
5,500.0	30.95	7.16	5,227.3	1,070.1	134.3	184.4	0.00	0.00	0.00
5,600.0	30.95	7.16	5,313.0	1,121.1	140.8	193.2	0.00	0.00	0.00
5,700.0	30.95	7.16	5,398.8	1,172.1	147.2	202.0	0.00	0.00	0.00
5,800.0	30.95	7.16	5,484.6	1,223.1	153.6	210.8	0.00	0.00	0.00
5,900.0	30.95	7.16	5,570.3	1,274.2	160.0	219.6	0.00	0.00	0.00
6,000.0	30.95	7.16	5,656.1	1,325.2	166.4	228.4	0.00	0.00	0.00
6,100.0	30.95	7.16	5,741.9	1,376.2	172.8	237.2	0.00	0.00	0.00
6,200.0	30.95	7.16	5,827.6	1,427.2	179.2	246.0	0.00	0.00	0.00
6,300.0	30.95	7.16	5,913.4	1,478.3	185.6	254.8	0.00	0.00	0.00
6,400.0	30.95	7.16	5,999.1	1,529.3	192.0	263.5	0.00	0.00	0.00
6,500.0	30.95	7.16	6,084.9	1,580.3	198.4	272.3	0.00	0.00	0.00
6,600.0	30.95	7.16	6,170.7	1,631.3	204.8	281.1	0.00	0.00	0.00
6,700.0	30.95	7.16	6,256.4	1,682.4	211.2	289.9	0.00	0.00	0.00
6,800.0	30.95	7.16	6,342.2	1,733.4	217.6	298.7	0.00	0.00	0.00
6,900.0	30.95	7.16	6,428.0	1,784.4	224.0	307.5	0.00	0.00	0.00
7,000.0	30.95	7.16	6,513.7	1,835.4	230.4	316.3	0.00	0.00	0.00
7,015.8	30.95	7.16	6,527.3	1,843.5	231.5	317.7	0.00	0.00	0.00
Start DLS 13.00 TFO -96.21									
7,100.0	31.50	345.98	6,599.5	1,886.5	228.8	332.8	13.00	0.66	-25.15
7,200.0	36.25	324.13	6,682.8	1,936.0	205.1	370.0	13.00	4.75	-21.85
7,300.0	44.04	307.88	6,759.4	1,981.5	160.1	426.3	13.00	7.78	-16.25
7,400.0	53.52	296.01	6,825.4	2,020.6	96.3	498.8	13.00	9.48	-11.87
7,500.0	63.92	286.85	6,877.3	2,051.4	16.8	583.7	13.00	10.40	-9.16
7,600.0	74.80	279.22	6,912.5	2,072.2	-74.2	676.9	13.00	10.88	-7.62
7,700.0	85.90	272.36	6,929.3	2,082.1	-172.1	773.3	13.00	11.11	-6.86
7,736.7	90.00	269.92	6,930.6	2,082.8	-208.7	808.6	12.99	11.16	-6.65
7" - Entry Pt. 170'FNL & 1825'FWL, Sec.26									
7,737.7	90.00	269.91	6,930.6	2,082.8	-209.7	809.6	1.21	0.29	-1.17
7,800.0	90.00	269.91	6,930.6	2,082.7	-272.0	869.1	0.00	0.00	0.00
7,900.0	90.00	269.91	6,930.6	2,082.5	-372.0	964.7	0.00	0.00	0.00
8,000.0	90.00	269.91	6,930.6	2,082.4	-472.0	1,060.3	0.00	0.00	0.00
8,100.0	90.00	269.91	6,930.6	2,082.2	-572.0	1,155.9	0.00	0.00	0.00
8,200.0	90.00	269.91	6,930.6	2,082.1	-672.0	1,251.4	0.00	0.00	0.00
8,300.0	90.00	269.91	6,930.6	2,081.9	-772.0	1,347.0	0.00	0.00	0.00
8,400.0	90.00	269.91	6,930.6	2,081.8	-872.0	1,442.6	0.00	0.00	0.00
8,500.0	90.00	269.91	6,930.6	2,081.6	-972.0	1,538.2	0.00	0.00	0.00
8,600.0	90.00	269.91	6,930.6	2,081.4	-1,072.0	1,633.8	0.00	0.00	0.00
8,700.0	90.00	269.91	6,930.6	2,081.3	-1,172.0	1,729.4	0.00	0.00	0.00
8,800.0	90.00	269.91	6,930.6	2,081.1	-1,272.0	1,824.9	0.00	0.00	0.00
8,900.0	90.00	269.91	6,930.6	2,081.0	-1,372.0	1,920.5	0.00	0.00	0.00
9,000.0	90.00	269.91	6,930.6	2,080.8	-1,472.0	2,016.1	0.00	0.00	0.00
9,100.0	90.00	269.91	6,930.6	2,080.7	-1,572.0	2,111.7	0.00	0.00	0.00
9,200.0	90.00	269.91	6,930.6	2,080.5	-1,672.0	2,207.3	0.00	0.00	0.00
9,300.0	90.00	269.91	6,930.6	2,080.3	-1,772.0	2,302.9	0.00	0.00	0.00
9,400.0	90.00	269.91	6,930.6	2,080.2	-1,872.0	2,398.4	0.00	0.00	0.00
9,500.0	90.00	269.91	6,930.6	2,080.0	-1,972.0	2,494.0	0.00	0.00	0.00
9,600.0	90.00	269.91	6,930.6	2,079.9	-2,072.0	2,589.6	0.00	0.00	0.00
9,700.0	90.00	269.91	6,930.6	2,079.7	-2,172.0	2,685.2	0.00	0.00	0.00
9,800.0	90.00	269.91	6,930.6	2,079.5	-2,272.0	2,780.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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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 27-019HN	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)
9,900.0	90.00	269.91	6,930.6	2,079.4	-2,372.0	2,876.4	0.00	0.00	0.00
10,000.0	90.00	269.91	6,930.6	2,079.2	-2,472.0	2,971.9	0.00	0.00	0.00
10,100.0	90.00	269.91	6,930.6	2,079.1	-2,572.0	3,067.5	0.00	0.00	0.00
10,200.0	90.00	269.91	6,930.6	2,078.9	-2,672.0	3,163.1	0.00	0.00	0.00
10,300.0	90.00	269.91	6,930.6	2,078.8	-2,772.0	3,258.7	0.00	0.00	0.00
10,400.0	90.00	269.91	6,930.6	2,078.6	-2,872.0	3,354.3	0.00	0.00	0.00
10,500.0	90.00	269.91	6,930.6	2,078.4	-2,972.0	3,449.9	0.00	0.00	0.00
10,600.0	90.00	269.91	6,930.6	2,078.3	-3,072.0	3,545.4	0.00	0.00	0.00
10,700.0	90.00	269.91	6,930.6	2,078.1	-3,172.0	3,641.0	0.00	0.00	0.00
10,800.0	90.00	269.91	6,930.6	2,078.0	-3,272.0	3,736.6	0.00	0.00	0.00
10,900.0	90.00	269.91	6,930.6	2,077.8	-3,372.0	3,832.2	0.00	0.00	0.00
11,000.0	90.00	269.91	6,930.6	2,077.7	-3,472.0	3,927.8	0.00	0.00	0.00
11,100.0	90.00	269.91	6,930.6	2,077.5	-3,572.0	4,023.4	0.00	0.00	0.00
11,200.0	90.00	269.91	6,930.6	2,077.3	-3,672.0	4,118.9	0.00	0.00	0.00
11,300.0	90.00	269.91	6,930.6	2,077.2	-3,772.0	4,214.5	0.00	0.00	0.00
11,400.0	90.00	269.91	6,930.6	2,077.0	-3,872.0	4,310.1	0.00	0.00	0.00
11,500.0	90.00	269.91	6,930.6	2,076.9	-3,972.0	4,405.7	0.00	0.00	0.00
11,600.0	90.00	269.91	6,930.6	2,076.7	-4,072.0	4,501.3	0.00	0.00	0.00
11,700.0	90.00	269.91	6,930.6	2,076.5	-4,172.0	4,596.9	0.00	0.00	0.00
11,800.0	90.00	269.91	6,930.6	2,076.4	-4,272.0	4,692.4	0.00	0.00	0.00
11,900.0	90.00	269.91	6,930.6	2,076.2	-4,372.0	4,788.0	0.00	0.00	0.00
12,000.0	90.00	269.91	6,930.6	2,076.1	-4,472.0	4,883.6	0.00	0.00	0.00
12,100.0	90.00	269.91	6,930.6	2,075.9	-4,572.0	4,979.2	0.00	0.00	0.00
12,200.0	90.00	269.91	6,930.6	2,075.8	-4,672.0	5,074.8	0.00	0.00	0.00
12,300.0	90.00	269.91	6,930.6	2,075.6	-4,772.0	5,170.4	0.00	0.00	0.00
12,400.0	90.00	269.91	6,930.6	2,075.4	-4,872.0	5,265.9	0.00	0.00	0.00
12,500.0	90.00	269.91	6,930.6	2,075.3	-4,972.0	5,361.5	0.00	0.00	0.00
12,600.0	90.00	269.91	6,930.6	2,075.1	-5,072.0	5,457.1	0.00	0.00	0.00
12,700.0	90.00	269.91	6,930.6	2,075.0	-5,172.0	5,552.7	0.00	0.00	0.00
12,800.0	90.00	269.91	6,930.6	2,074.8	-5,272.0	5,648.3	0.00	0.00	0.00
12,900.0	90.00	269.91	6,930.6	2,074.7	-5,372.0	5,743.9	0.00	0.00	0.00
13,000.0	90.00	269.91	6,930.6	2,074.5	-5,472.0	5,839.4	0.00	0.00	0.00
13,100.0	90.00	269.91	6,930.6	2,074.3	-5,572.0	5,935.0	0.00	0.00	0.00
13,200.0	90.00	269.91	6,930.6	2,074.2	-5,672.0	6,030.6	0.00	0.00	0.00
13,300.0	90.00	269.91	6,930.6	2,074.0	-5,772.0	6,126.2	0.00	0.00	0.00
13,400.0	90.00	269.91	6,930.6	2,073.9	-5,872.0	6,221.8	0.00	0.00	0.00
13,500.0	90.00	269.91	6,930.6	2,073.7	-5,972.0	6,317.4	0.00	0.00	0.00
13,600.0	90.00	269.91	6,930.6	2,073.6	-6,072.0	6,412.9	0.00	0.00	0.00
13,700.0	90.00	269.91	6,930.6	2,073.4	-6,172.0	6,508.5	0.00	0.00	0.00
13,800.0	90.00	269.91	6,930.6	2,073.2	-6,272.0	6,604.1	0.00	0.00	0.00
13,900.0	90.00	269.91	6,930.6	2,073.1	-6,372.0	6,699.7	0.00	0.00	0.00
14,000.0	90.00	269.91	6,930.6	2,072.9	-6,472.0	6,795.3	0.00	0.00	0.00
14,100.0	90.00	269.91	6,930.6	2,072.8	-6,572.0	6,890.9	0.00	0.00	0.00
14,200.0	90.00	269.91	6,930.6	2,072.6	-6,672.0	6,986.4	0.00	0.00	0.00
14,300.0	90.00	269.91	6,930.6	2,072.4	-6,772.0	7,082.0	0.00	0.00	0.00
14,306.0	90.00	269.91	6,930.6	2,072.4	-6,778.0	7,087.8	0.00	0.00	0.00
TD at 14306.0 - BHL 170'FNL & 470'FWL, Sec.27									

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BHL 170'FNL & 470'F - plan hits target center - Point	0.00	0.00	6,930.6	2,072.4	-6,778.0	1,412,717.10	3,170,443.48	40.464694	-104.887428
Entry Pt. 170'FNL & 1 - plan hits target center - Point	0.00	0.00	6,930.6	2,082.8	-208.7	1,412,774.65	3,177,012.31	40.464725	-104.863819
SHL 2253'FNL & 203C - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,410,693.49	3,177,235.95	40.459008	-104.863069

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,736.7	6,930.6	7"	7	7-1/2	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
2,900.0	2,900.0	0.0	0.0	KOP - Start Build 3.00
7,015.8	6,527.3	1,843.5	231.5	Start DLS 13.00 TFO -96.21
14,306.0	6,930.6	2,072.4	-6,778.0	TD at 14306.0



Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 27-019HN

Wellbore #1

Plan #1 (11-21-13)

Anticollision Report

22 November, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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						
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	Warning
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-89.70	1.1	-209.5	209.5	202.1	7.42	28.251	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-89.70	1.1	-209.5	209.5	201.7	7.87	26.637	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-89.70	1.1	-209.5	209.5	201.2	8.32	25.197	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-89.70	1.1	-209.5	209.5	200.8	8.77	23.905	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-89.70	1.1	-209.5	209.5	200.3	9.22	22.739	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-89.70	1.1	-209.5	209.5	199.9	9.66	21.681	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-89.70	1.1	-209.5	209.5	199.4	10.11	20.718	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-89.70	1.1	-209.5	209.5	199.0	10.56	19.836	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-89.70	1.1	-209.5	209.5	198.5	11.01	19.026	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-89.70	1.1	-209.5	209.5	198.1	11.46	18.280	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-89.70	1.1	-209.5	209.5	197.6	11.91	17.590	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-89.70	1.1	-209.5	209.5	197.2	12.36	16.951	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-89.70	1.1	-209.5	209.5	196.7	12.81	16.356	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-97.56	1.1	-209.5	209.9	196.6	13.26	15.829	
3,100.0	3,099.6	3,099.6	3,099.6	6.9	6.9	-99.63	1.1	-209.5	211.1	197.3	13.70	15.402	
3,200.0	3,198.8	3,198.8	3,198.8	7.1	7.1	-102.29	3.6	-209.9	213.7	199.6	14.14	15.112	
3,300.0	3,297.1	3,297.6	3,297.2	7.3	7.3	-104.80	11.2	-210.9	218.2	203.6	14.59	14.958	
3,400.0	3,394.3	3,397.2	3,396.0	7.6	7.5	-107.12	24.0	-212.6	224.4	209.4	15.05	14.913	
3,500.0	3,490.2	3,497.3	3,494.4	7.9	7.8	-109.21	41.9	-215.0	232.3	216.8	15.54	14.947	
3,600.0	3,584.4	3,597.8	3,592.2	8.2	8.0	-111.03	65.0	-218.1	241.9	225.8	16.09	15.029	
3,700.0	3,676.8	3,698.7	3,689.0	8.6	8.3	-112.58	93.3	-222.0	252.9	236.1	16.72	15.127	
3,800.0	3,767.1	3,800.0	3,784.5	9.1	8.7	-113.86	126.8	-226.5	265.2	247.8	17.44	15.213	
3,900.0	3,854.9	3,901.7	3,878.4	9.7	9.1	-114.88	165.4	-231.6	279.0	260.7	18.28	15.263	
4,000.0	3,940.8	4,003.9	3,970.5	10.3	9.6	-115.71	209.1	-237.5	293.4	274.1	19.29	15.205	
4,100.0	4,026.6	4,106.3	4,060.4	11.0	10.1	-115.62	257.8	-244.1	306.7	286.3	20.50	14.964	
4,200.0	4,112.4	4,205.4	4,146.2	11.8	10.8	-115.14	306.9	-250.7	319.6	297.8	21.81	14.653	
4,300.0	4,198.1	4,304.5	4,232.1	12.5	11.4	-114.69	356.0	-257.3	332.5	309.3	23.21	14.328	
4,400.0	4,283.9	4,403.7	4,318.0	13.3	12.2	-114.27	405.1	-263.9	345.5	320.8	24.67	14.002	
4,500.0	4,369.6	4,502.8	4,403.8	14.2	12.9	-113.89	454.1	-270.5	358.4	332.2	26.19	13.683	
4,600.0	4,455.4	4,601.9	4,489.7	15.0	13.7	-113.53	503.2	-277.1	371.4	343.6	27.76	13.377	
4,700.0	4,541.2	4,701.1	4,575.6	15.9	14.5	-113.19	552.3	-283.7	384.3	355.0	29.37	13.086	
4,800.0	4,626.9	4,800.2	4,661.5	16.8	15.3	-112.88	601.4	-290.3	397.3	366.3	31.01	12.811	
4,900.0	4,712.7	4,899.3	4,747.3	17.7	16.1	-112.59	650.5	-296.9	410.3	377.6	32.69	12.553	
5,000.0	4,798.5	4,998.5	4,833.2	18.5	17.0	-112.32	699.6	-303.5	423.3	388.9	34.39	12.311	
5,100.0	4,884.2	5,097.6	4,919.1	19.5	17.8	-112.06	748.7	-310.1	436.3	400.2	36.11	12.085	
5,200.0	4,970.0	5,196.7	5,004.9	20.4	18.7	-111.81	797.8	-316.7	449.3	411.5	37.84	11.873	
5,300.0	5,055.8	5,295.9	5,090.8	21.3	19.6	-111.58	846.9	-323.3	462.4	422.8	39.60	11.676	
5,400.0	5,141.5	5,395.0	5,176.7	22.2	20.5	-111.37	896.0	-329.9	475.4	434.0	41.37	11.492	
5,500.0	5,227.3	5,494.1	5,262.5	23.1	21.4	-111.16	945.0	-336.5	488.5	445.3	43.15	11.319	
5,600.0	5,313.0	5,593.2	5,348.4	24.1	22.3	-110.97	994.1	-343.1	501.5	456.6	44.95	11.158	
5,700.0	5,398.8	5,692.4	5,434.3	25.0	23.2	-110.78	1,043.2	-349.7	514.6	467.8	46.75	11.006	
5,800.0	5,484.6	5,791.5	5,520.1	26.0	24.1	-110.61	1,092.3	-356.3	527.6	479.0	48.56	10.864	
5,900.0	5,570.3	5,890.6	5,606.0	26.9	25.0	-110.44	1,141.4	-362.9	540.7	490.3	50.38	10.731	
6,000.0	5,656.1	5,989.8	5,691.9	27.9	25.9	-110.28	1,190.5	-369.5	553.7	501.5	52.21	10.606	
6,100.0	5,741.9	6,088.9	5,777.8	28.8	26.8	-110.13	1,239.6	-376.1	566.8	512.8	54.05	10.487	
6,200.0	5,827.6	6,188.0	5,863.6	29.8	27.8	-109.98	1,288.7	-382.7	579.9	524.0	55.89	10.376	
6,300.0	5,913.4	6,287.2	5,949.5	30.7	28.7	-109.84	1,337.8	-389.3	593.0	535.2	57.73	10.271	
6,400.0	5,999.1	6,386.3	6,035.4	31.7	29.6	-109.71	1,386.9	-395.9	606.0	546.5	59.58	10.171	
6,500.0	6,084.9	6,485.4	6,121.2	32.6	30.6	-109.58	1,435.9	-402.5	619.1	557.7	61.44	10.077	
6,600.0	6,170.7	6,584.6	6,207.1	33.6	31.5	-109.46	1,485.0	-409.1	632.2	568.9	63.30	9.988	
6,700.0	6,256.4	6,683.7	6,293.0	34.6	32.4	-109.35	1,534.1	-415.8	645.3	580.1	65.16	9.904	
6,800.0	6,342.2	6,782.8	6,378.8	35.5	33.4	-109.23	1,583.2	-422.4	658.4	591.4	67.02	9.823	

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 27-019HN
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 27-019HN	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 Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-039HC - Wellbore #1 - Plan #1 (11-21-13)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
6,900.0	6,428.0	6,882.0	6,464.7	36.5	34.3	-109.13	1,632.3	-429.0	671.5	602.6	68.89	9.747	
7,000.0	6,513.7	8,114.0	7,108.6	37.5	40.8	-172.27	2,004.4	229.5	618.4	573.2	45.22	13.675	
7,100.0	6,599.5	8,112.7	7,108.6	38.3	40.8	170.59	2,004.4	228.1	522.6	467.8	54.79	9.538	
7,200.0	6,682.8	8,089.2	7,108.6	39.1	40.7	169.15	2,004.3	204.7	431.2	368.6	62.59	6.890	
7,300.0	6,759.4	8,044.5	7,108.6	39.8	40.6	175.65	2,004.0	160.0	349.9	290.6	59.33	5.898	
7,400.0	6,825.4	7,980.9	7,108.6	40.4	40.5	-176.25	2,003.6	96.4	283.8	232.2	51.54	5.505	
7,500.0	6,877.3	7,901.6	7,108.6	40.9	40.3	-167.85	2,003.2	17.1	236.3	193.3	43.02	5.493	
7,600.0	6,912.5	7,783.2	7,100.2	41.3	40.2	-156.30	1,997.7	-100.7	203.6	165.6	38.04	5.353	
7,700.0	6,929.3	7,670.9	7,068.0	41.6	39.9	-142.44	1,978.7	-206.2	176.3	136.3	40.04	4.403	
7,800.0	6,930.6	7,577.1	7,024.0	41.8	39.6	-125.78	1,953.1	-284.8	160.3	115.9	44.39	3.611	
7,831.8	6,930.6	7,552.3	7,010.1	41.9	39.5	-119.99	1,945.0	-303.6	158.9	113.6	45.36	3.504 CC, ES, SF	
7,900.0	6,930.6	7,506.6	6,982.0	42.1	39.2	-108.48	1,928.8	-335.8	166.1	119.8	46.38	3.582	
8,000.0	6,930.6	7,454.6	6,946.7	42.6	39.0	-95.29	1,908.4	-368.1	203.3	156.9	46.39	4.382	
8,100.0	6,930.6	7,415.6	6,918.3	43.2	38.8	-86.29	1,892.0	-389.1	264.2	218.1	46.09	5.733	
8,200.0	6,930.6	7,385.7	6,895.4	43.9	38.6	-80.20	1,878.9	-403.1	338.9	292.7	46.16	7.341	
8,300.0	6,930.6	7,362.3	6,877.0	44.8	38.4	-75.94	1,868.2	-412.9	421.3	374.6	46.70	9.022	
8,400.0	6,930.6	7,350.0	6,867.1	45.9	38.4	-73.89	1,862.6	-417.6	508.5	460.5	48.06	10.582	
8,500.0	6,930.6	7,325.0	6,846.7	47.1	38.2	-70.08	1,850.8	-426.0	598.6	550.0	48.62	12.312	
8,600.0	6,930.6	7,315.6	6,838.9	48.5	38.1	-68.77	1,846.4	-428.9	690.8	640.6	50.28	13.740	
8,700.0	6,930.6	7,300.0	6,825.9	50.1	38.0	-66.74	1,838.9	-433.2	784.6	733.0	51.56	15.216	
8,800.0	6,930.6	7,300.0	6,825.9	51.9	38.0	-66.74	1,838.9	-433.2	879.4	825.5	53.90	16.315	
8,900.0	6,930.6	7,287.9	6,815.7	53.7	37.9	-65.27	1,833.1	-436.2	974.9	919.5	55.44	17.585	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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						
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	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-87.88	1.1	-29.5	29.5				
100.0	100.0	100.0	100.0	0.1	0.1	-87.88	1.1	-29.5	29.5	29.3	0.22	131.327	
200.0	200.0	200.0	200.0	0.3	0.3	-87.88	1.1	-29.5	29.5	28.8	0.67	43.776	
300.0	300.0	300.0	300.0	0.6	0.6	-87.88	1.1	-29.5	29.5	28.4	1.12	26.265	
400.0	400.0	400.0	400.0	0.8	0.8	-87.88	1.1	-29.5	29.5	27.9	1.57	18.761	
500.0	500.0	500.0	500.0	1.0	1.0	-87.88	1.1	-29.5	29.5	27.5	2.02	14.592	
600.0	600.0	600.0	600.0	1.2	1.2	-87.88	1.1	-29.5	29.5	27.0	2.47	11.939	
700.0	700.0	700.0	700.0	1.5	1.5	-87.88	1.1	-29.5	29.5	26.6	2.92	10.102	
800.0	800.0	800.0	800.0	1.7	1.7	-87.88	1.1	-29.5	29.5	26.1	3.37	8.755	
900.0	900.0	900.0	900.0	1.9	1.9	-87.88	1.1	-29.5	29.5	25.7	3.82	7.725	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-87.88	1.1	-29.5	29.5	25.2	4.27	6.912	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-87.88	1.1	-29.5	29.5	24.8	4.72	6.254	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-87.88	1.1	-29.5	29.5	24.3	5.17	5.710	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-87.88	1.1	-29.5	29.5	23.9	5.62	5.253	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-87.88	1.1	-29.5	29.5	23.4	6.07	4.864	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-87.88	1.1	-29.5	29.5	23.0	6.52	4.529	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-87.88	1.1	-29.5	29.5	22.6	6.97	4.236	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-87.88	1.1	-29.5	29.5	22.1	7.42	3.980	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-87.88	1.1	-29.5	29.5	21.7	7.87	3.752	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-87.88	1.1	-29.5	29.5	21.2	8.32	3.549	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-87.88	1.1	-29.5	29.5	20.8	8.77	3.367	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-87.88	1.1	-29.5	29.5	20.3	9.22	3.203	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-87.88	1.1	-29.5	29.5	19.9	9.66	3.054	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-87.88	1.1	-29.5	29.5	19.4	10.11	2.918	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-87.88	1.1	-29.5	29.5	19.0	10.56	2.794	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-87.88	1.1	-29.5	29.5	18.5	11.01	2.680	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-87.88	1.1	-29.5	29.5	18.1	11.46	2.575	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-87.88	1.1	-29.5	29.5	17.6	11.91	2.478	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-87.88	1.1	-29.5	29.5	17.2	12.36	2.388	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-87.88	1.1	-29.5	29.5	16.7	12.81	2.304 CC	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-100.03	1.1	-29.5	29.9	16.6	13.26	2.252 ES	
3,100.0	3,099.6	3,099.6	3,099.6	6.9	6.9	-113.82	1.1	-29.5	32.2	18.5	13.69	2.349	
3,200.0	3,198.8	3,198.8	3,198.8	7.1	7.1	-131.25	1.1	-29.5	39.3	25.2	14.09	2.790	
3,300.0	3,297.1	3,297.1	3,297.1	7.3	7.3	-145.86	1.1	-29.5	53.2	38.8	14.43	3.687	
3,400.0	3,394.3	3,394.3	3,394.3	7.6	7.5	-155.78	1.1	-29.5	73.8	59.1	14.71	5.016	
3,500.0	3,490.2	3,490.2	3,490.2	7.9	7.7	-162.16	1.1	-29.5	100.5	85.5	14.95	6.720	
3,600.0	3,584.4	3,584.4	3,584.4	8.2	7.9	-166.32	1.1	-29.5	132.7	117.6	15.16	8.758	
3,700.0	3,676.8	3,676.8	3,676.8	8.6	8.2	-169.14	1.1	-29.5	170.3	154.9	15.33	11.108	
3,800.0	3,767.1	3,767.1	3,767.1	9.1	8.4	-171.10	1.1	-29.5	212.8	197.3	15.47	13.759	
3,900.0	3,854.9	3,854.9	3,854.9	9.7	8.6	-172.52	1.1	-29.5	260.1	244.6	15.57	16.705	
4,000.0	3,940.8	3,948.8	3,948.8	10.3	8.8	-173.78	1.7	-29.4	310.5	294.6	15.92	19.511	
4,100.0	4,026.6	4,055.9	4,055.7	11.0	9.0	-174.84	7.3	-28.1	357.1	340.7	16.41	21.768	
4,200.0	4,112.4	4,169.2	4,168.3	11.8	9.3	-175.68	19.6	-25.4	398.6	381.6	16.92	23.551	
4,300.0	4,198.1	4,288.5	4,285.8	12.5	9.5	-176.40	39.5	-21.0	434.5	417.0	17.47	24.865	
4,400.0	4,283.9	4,413.2	4,407.1	13.3	9.8	-177.04	68.0	-14.7	464.4	446.3	18.05	25.726	
4,500.0	4,369.6	4,542.6	4,530.5	14.2	10.2	-177.66	105.7	-6.4	487.9	469.2	18.66	26.147	
4,600.0	4,455.4	4,675.6	4,654.5	15.0	10.7	-178.27	152.8	4.0	504.7	485.4	19.30	26.154	
4,700.0	4,541.2	4,811.2	4,777.0	15.9	11.2	-178.92	209.3	16.5	514.6	494.6	19.97	25.773	
4,800.0	4,626.9	4,935.0	4,885.3	16.8	11.9	-179.54	268.1	29.5	517.9	497.3	20.64	25.096	
4,900.0	4,712.7	5,034.9	4,971.8	17.7	12.5	-179.95	316.8	40.2	519.7	498.4	21.26	24.440	
5,000.0	4,798.5	5,134.8	5,058.3	18.5	13.1	-179.44	365.6	51.0	521.6	499.6	21.91	23.803	
5,100.0	4,884.2	5,234.7	5,144.7	19.5	13.7	-178.94	414.4	61.8	523.4	500.9	22.58	23.186	

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 27-019HN
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 27-019HN	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-MWDD												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	4,970.0	5,334.5	5,231.2	20.4	14.4	178.44	463.2	72.5	525.4	502.1	23.26	22.589	
5,300.0	5,055.8	5,434.4	5,317.7	21.3	15.2	177.95	511.9	83.3	527.3	503.4	23.96	22.013	
5,400.0	5,141.5	5,534.3	5,404.2	22.2	15.9	177.46	560.7	94.1	529.4	504.7	24.67	21.456	
5,500.0	5,227.3	5,634.2	5,490.7	23.1	16.7	176.97	609.5	104.8	531.4	506.0	25.40	20.919	
5,600.0	5,313.0	5,734.1	5,577.2	24.1	17.5	176.48	658.3	115.6	533.5	507.3	26.15	20.400	
5,700.0	5,398.8	5,833.9	5,663.7	25.0	18.3	176.00	707.0	126.4	535.6	508.7	26.92	19.900	
5,800.0	5,484.6	5,933.8	5,750.2	26.0	19.1	175.53	755.8	137.2	537.8	510.1	27.70	19.418	
5,900.0	5,570.3	6,033.7	5,836.6	26.9	20.0	175.05	804.6	147.9	540.0	511.5	28.49	18.952	
6,000.0	5,656.1	6,133.6	5,923.1	27.9	20.8	174.58	853.4	158.7	542.2	512.9	29.30	18.503	
6,100.0	5,741.9	6,233.4	6,009.6	28.8	21.7	174.12	902.1	169.5	544.5	514.3	30.13	18.070	
6,200.0	5,827.6	6,333.3	6,096.1	29.8	22.5	173.66	950.9	180.2	546.8	515.8	30.98	17.652	
6,300.0	5,913.4	6,433.2	6,182.6	30.7	23.4	173.20	999.7	191.0	549.1	517.3	31.84	17.249	
6,400.0	5,999.1	6,533.1	6,269.1	31.7	24.3	172.75	1,048.5	201.8	551.5	518.8	32.71	16.860	
6,500.0	6,084.9	6,632.9	6,355.6	32.6	25.1	172.30	1,097.2	212.6	553.9	520.3	33.60	16.484	
6,600.0	6,170.7	6,732.8	6,442.1	33.6	26.0	171.85	1,146.0	223.3	556.4	521.8	34.51	16.121	
6,700.0	6,256.4	6,834.1	6,529.9	34.6	26.9	171.50	1,195.5	233.3	558.8	523.4	35.41	15.781	
6,800.0	6,342.2	6,936.8	6,618.8	35.5	27.7	172.94	1,245.7	225.8	560.8	524.9	35.84	15.646	
6,900.0	6,428.0	7,028.5	6,695.2	36.5	28.3	176.21	1,288.7	199.3	563.7	527.7	35.98	15.669	
7,000.0	6,513.7	7,104.6	6,753.8	37.5	28.7	-179.80	1,321.7	163.9	571.0	534.6	36.36	15.703	
7,100.0	6,599.5	7,169.4	6,798.9	38.3	29.0	-156.38	1,347.1	125.0	584.4	546.8	37.60	15.542	
7,200.0	6,682.8	7,231.4	6,837.1	39.1	29.3	-132.98	1,368.5	81.1	601.0	561.4	39.56	15.192	
7,300.0	6,759.4	7,291.8	6,868.6	39.8	29.5	-115.94	1,386.2	32.9	618.4	577.1	41.30	14.973	
7,400.0	6,825.4	7,350.0	6,893.4	40.4	29.8	-104.35	1,400.1	-17.9	634.6	592.5	42.14	15.060	
7,500.0	6,877.3	7,409.4	6,912.4	40.9	29.9	-96.72	1,410.7	-73.1	647.9	605.8	42.08	15.395	
7,600.0	6,912.5	7,467.3	6,924.5	41.3	30.1	-92.17	1,417.5	-129.2	657.1	615.5	41.61	15.792	
7,700.0	6,929.3	7,525.0	6,930.2	41.6	30.3	-90.16	1,420.6	-186.6	661.6	620.2	41.45	15.963	
7,800.0	6,930.6	7,609.4	6,930.6	41.8	30.5	-90.00	1,420.7	-271.0	662.0	618.8	43.14	15.343	
7,900.0	6,930.6	7,709.4	6,930.6	42.1	31.0	-90.00	1,420.6	-371.0	662.0	615.9	46.08	14.366	
8,000.0	6,930.6	7,809.4	6,930.6	42.6	31.7	-90.00	1,420.4	-471.0	661.9	612.5	49.48	13.379	
8,100.0	6,930.6	7,909.4	6,930.6	43.2	32.7	-90.00	1,420.3	-571.0	661.9	608.7	53.25	12.430	
8,200.0	6,930.6	8,009.4	6,930.6	43.9	33.9	-90.00	1,420.1	-671.0	661.9	604.6	57.33	11.546	
8,300.0	6,930.6	8,109.4	6,930.6	44.8	35.4	-90.00	1,420.0	-771.0	661.9	600.3	61.65	10.737	
8,400.0	6,930.6	8,209.4	6,930.6	45.9	37.1	-90.00	1,419.8	-871.0	661.9	595.8	66.17	10.004	
8,500.0	6,930.6	8,309.4	6,930.6	47.1	39.1	-90.00	1,419.7	-971.0	661.9	591.1	70.84	9.344	
8,600.0	6,930.6	8,409.4	6,930.6	48.5	41.1	-90.00	1,419.5	-1,071.0	661.9	586.3	75.64	8.751	
8,700.0	6,930.6	8,509.4	6,930.6	50.1	43.3	-90.00	1,419.4	-1,171.0	661.9	581.4	80.54	8.218	
8,800.0	6,930.6	8,609.4	6,930.6	51.9	45.5	-90.00	1,419.2	-1,271.0	661.9	576.4	85.54	7.738	
8,900.0	6,930.6	8,709.4	6,930.6	53.7	47.9	-90.00	1,419.1	-1,371.0	661.9	571.3	90.60	7.305	
9,000.0	6,930.6	8,809.4	6,930.6	55.7	50.3	-90.00	1,418.9	-1,471.0	661.9	566.2	95.73	6.914	
9,100.0	6,930.6	8,909.4	6,930.6	57.8	52.7	-90.00	1,418.8	-1,571.0	661.9	561.0	100.91	6.559	
9,200.0	6,930.6	9,009.4	6,930.6	60.0	55.2	-90.00	1,418.6	-1,671.0	661.9	555.7	106.13	6.236	
9,300.0	6,930.6	9,109.4	6,930.6	62.2	57.7	-90.00	1,418.5	-1,771.0	661.9	550.5	111.40	5.942	
9,400.0	6,930.6	9,209.4	6,930.6	64.5	60.3	-90.00	1,418.3	-1,871.0	661.9	545.2	116.69	5.672	
9,500.0	6,930.6	9,309.4	6,930.6	66.8	62.8	-90.00	1,418.2	-1,971.0	661.9	539.9	122.01	5.425	
9,600.0	6,930.6	9,409.4	6,930.6	69.2	65.4	-90.00	1,418.0	-2,071.0	661.9	534.5	127.36	5.197	
9,700.0	6,930.6	9,509.4	6,930.6	71.6	68.0	-90.00	1,417.9	-2,171.0	661.9	529.1	132.73	4.986	
9,800.0	6,930.6	9,609.4	6,930.6	74.1	70.6	-90.00	1,417.7	-2,271.0	661.8	523.7	138.12	4.792	
9,900.0	6,930.6	9,709.4	6,930.6	76.6	73.3	-90.00	1,417.5	-2,371.0	661.8	518.3	143.53	4.611	
10,000.0	6,930.6	9,809.4	6,930.6	79.1	75.9	-90.00	1,417.4	-2,471.0	661.8	512.9	148.95	4.443	
10,100.0	6,930.6	9,909.4	6,930.6	81.7	78.6	-90.00	1,417.2	-2,571.0	661.8	507.4	154.39	4.287	
10,200.0	6,930.6	10,009.4	6,930.6	84.2	81.3	-90.00	1,417.1	-2,671.0	661.8	502.0	159.84	4.141	
10,300.0	6,930.6	10,109.4	6,930.6	86.8	84.0	-90.00	1,416.9	-2,771.0	661.8	496.5	165.30	4.004	

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 27-019HN
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 27-019HN	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		
10,400.0	6,930.6	10,209.4	6,930.6	89.4	86.6	-90.00	1,416.8	-2,871.0	661.8	491.0	170.77	3.876		
10,500.0	6,930.6	10,309.4	6,930.6	92.0	89.3	-90.00	1,416.6	-2,971.0	661.8	485.6	176.25	3.755		
10,600.0	6,930.6	10,409.4	6,930.6	94.6	92.0	-90.00	1,416.5	-3,071.0	661.8	480.1	181.74	3.642		
10,700.0	6,930.6	10,509.4	6,930.6	97.3	94.8	-90.00	1,416.3	-3,171.0	661.8	474.6	187.23	3.535		
10,800.0	6,930.6	10,609.4	6,930.6	99.9	97.5	-90.00	1,416.2	-3,271.0	661.8	469.1	192.73	3.434		
10,900.0	6,930.6	10,709.4	6,930.6	102.5	100.2	-90.00	1,416.0	-3,371.0	661.8	463.5	198.24	3.338		
11,000.0	6,930.6	10,809.4	6,930.6	105.2	102.9	-90.00	1,415.9	-3,471.0	661.8	458.0	203.76	3.248		
11,100.0	6,930.6	10,909.4	6,930.6	107.9	105.7	-90.00	1,415.7	-3,571.0	661.8	452.5	209.28	3.162		
11,200.0	6,930.6	11,009.4	6,930.6	110.6	108.4	-90.00	1,415.6	-3,671.0	661.8	447.0	214.80	3.081		
11,300.0	6,930.6	11,109.4	6,930.6	113.2	111.1	-90.00	1,415.4	-3,771.0	661.8	441.4	220.33	3.004		
11,400.0	6,930.6	11,209.4	6,930.6	115.9	113.9	-90.00	1,415.3	-3,871.0	661.8	435.9	225.86	2.930		
11,500.0	6,930.6	11,309.4	6,930.6	118.6	116.6	-90.00	1,415.1	-3,971.0	661.8	430.4	231.40	2.860		
11,600.0	6,930.6	11,409.4	6,930.6	121.3	119.4	-90.00	1,415.0	-4,071.0	661.7	424.8	236.94	2.793		
11,700.0	6,930.6	11,509.4	6,930.6	124.0	122.1	-90.00	1,414.8	-4,171.0	661.7	419.3	242.49	2.729		
11,800.0	6,930.6	11,609.4	6,930.6	126.8	124.9	-90.00	1,414.7	-4,271.0	661.7	413.7	248.04	2.668		
11,900.0	6,930.6	11,709.4	6,930.6	129.5	127.6	-90.00	1,414.5	-4,371.0	661.7	408.1	253.59	2.609		
12,000.0	6,930.6	11,809.4	6,930.6	132.2	130.4	-90.00	1,414.3	-4,471.0	661.7	402.6	259.14	2.554		
12,100.0	6,930.6	11,909.4	6,930.6	134.9	133.1	-90.00	1,414.2	-4,571.0	661.7	397.0	264.70	2.500		
12,200.0	6,930.6	12,009.4	6,930.6	137.6	135.9	-90.00	1,414.0	-4,671.0	661.7	391.5	270.26	2.448		
12,300.0	6,930.6	12,109.4	6,930.6	140.4	138.7	-90.00	1,413.9	-4,771.0	661.7	385.9	275.82	2.399		
12,400.0	6,930.6	12,209.4	6,930.6	143.1	141.4	-90.00	1,413.7	-4,871.0	661.7	380.3	281.38	2.352		
12,500.0	6,930.6	12,309.4	6,930.6	145.8	144.2	-90.00	1,413.6	-4,971.0	661.7	374.8	286.95	2.306		
12,600.0	6,930.6	12,409.4	6,930.6	148.6	147.0	-90.00	1,413.4	-5,071.0	661.7	369.2	292.51	2.262		
12,700.0	6,930.6	12,509.4	6,930.6	151.3	149.7	-90.00	1,413.3	-5,171.0	661.7	363.6	298.08	2.220		
12,800.0	6,930.6	12,609.4	6,930.6	154.1	152.5	-90.00	1,413.1	-5,271.0	661.7	358.0	303.65	2.179		
12,900.0	6,930.6	12,709.4	6,930.6	156.8	155.3	-90.00	1,413.0	-5,371.0	661.7	352.5	309.23	2.140		
13,000.0	6,930.6	12,809.4	6,930.6	159.6	158.1	-90.00	1,412.8	-5,471.0	661.7	346.9	314.80	2.102		
13,100.0	6,930.6	12,909.4	6,930.6	162.3	160.8	-90.00	1,412.7	-5,571.0	661.7	341.3	320.37	2.065		
13,200.0	6,930.6	13,009.4	6,930.6	165.1	163.6	-90.00	1,412.5	-5,671.0	661.7	335.7	325.95	2.030		
13,300.0	6,930.6	13,109.4	6,930.6	167.8	166.4	-90.00	1,412.4	-5,771.0	661.7	330.1	331.53	1.996		
13,400.0	6,930.6	13,209.4	6,930.6	170.6	169.2	-90.00	1,412.2	-5,871.0	661.6	324.5	337.11	1.963		
13,500.0	6,930.6	13,309.4	6,930.6	173.3	171.9	-90.00	1,412.1	-5,971.0	661.6	319.0	342.69	1.931		
13,600.0	6,930.6	13,409.4	6,930.6	176.1	174.7	-90.00	1,411.9	-6,071.0	661.6	313.4	348.27	1.900		
13,700.0	6,930.6	13,509.4	6,930.6	178.9	177.5	-90.00	1,411.8	-6,171.0	661.6	307.8	353.85	1.870		
13,800.0	6,930.6	13,609.4	6,930.6	181.6	180.3	-90.00	1,411.6	-6,271.0	661.6	302.2	359.44	1.841		
13,900.0	6,930.6	13,709.4	6,930.6	184.4	183.1	-90.00	1,411.5	-6,371.0	661.6	296.6	365.02	1.813		
14,000.0	6,930.6	13,809.4	6,930.6	187.2	185.9	-90.00	1,411.3	-6,471.0	661.6	291.0	370.61	1.785		
14,100.0	6,930.6	13,909.4	6,930.6	189.9	188.6	-90.00	1,411.2	-6,571.0	661.6	285.4	376.20	1.759		
14,200.0	6,930.6	14,009.4	6,930.6	192.7	191.4	-90.00	1,411.0	-6,671.0	661.6	279.8	381.78	1.733		
14,300.0	6,930.6	14,109.4	6,930.6	194.5	194.2	-90.00	1,410.8	-6,771.0	661.6	275.2	386.38	1.712		
14,306.0	6,930.6	14,115.5	6,930.6	194.6	194.4	-90.00	1,410.8	-6,777.0	661.6	274.9	386.66	1.711 SF		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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	-89.01	1.0	-59.6	59.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.01	1.0	-59.6	59.6	59.3	0.22	264.989		
200.0	200.0	200.0	200.0	0.3	0.3	-89.01	1.0	-59.6	59.6	58.9	0.67	88.330		
300.0	300.0	300.0	300.0	0.6	0.6	-89.01	1.0	-59.6	59.6	58.4	1.12	52.998		
400.0	400.0	400.0	400.0	0.8	0.8	-89.01	1.0	-59.6	59.6	58.0	1.57	37.856		
500.0	500.0	500.0	500.0	1.0	1.0	-89.01	1.0	-59.6	59.6	57.5	2.02	29.443		
600.0	600.0	600.0	600.0	1.2	1.2	-89.01	1.0	-59.6	59.6	57.1	2.47	24.090		
700.0	700.0	700.0	700.0	1.5	1.5	-89.01	1.0	-59.6	59.6	56.6	2.92	20.384		
800.0	800.0	800.0	800.0	1.7	1.7	-89.01	1.0	-59.6	59.6	56.2	3.37	17.666		
900.0	900.0	900.0	900.0	1.9	1.9	-89.01	1.0	-59.6	59.6	55.7	3.82	15.588		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.01	1.0	-59.6	59.6	55.3	4.27	13.947		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-89.01	1.0	-59.6	59.6	54.8	4.72	12.619		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-89.01	1.0	-59.6	59.6	54.4	5.17	11.521		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-89.01	1.0	-59.6	59.6	53.9	5.62	10.600		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-89.01	1.0	-59.6	59.6	53.5	6.07	9.814		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-89.01	1.0	-59.6	59.6	53.0	6.52	9.138		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-89.01	1.0	-59.6	59.6	52.6	6.97	8.548		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-89.01	1.0	-59.6	59.6	52.1	7.42	8.030		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-89.01	1.0	-59.6	59.6	51.7	7.87	7.571		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-89.01	1.0	-59.6	59.6	51.2	8.32	7.162		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-89.01	1.0	-59.6	59.6	50.8	8.77	6.795		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-89.01	1.0	-59.6	59.6	50.3	9.22	6.463		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-89.01	1.0	-59.6	59.6	49.9	9.66	6.163		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-89.01	1.0	-59.6	59.6	49.4	10.11	5.889		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-89.01	1.0	-59.6	59.6	49.0	10.56	5.638		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-89.01	1.0	-59.6	59.6	48.5	11.01	5.408		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-89.01	1.0	-59.6	59.6	48.1	11.46	5.196		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-89.01	1.0	-59.6	59.6	47.6	11.91	5.000		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-89.01	1.0	-59.6	59.6	47.2	12.36	4.818		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-89.01	1.0	-59.6	59.6	46.7	12.81	4.649 CC		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-98.65	1.0	-59.6	59.9	46.6	13.26	4.518 ES		
3,100.0	3,099.6	3,099.6	3,099.6	6.9	6.9	-105.81	1.0	-59.6	61.6	47.9	13.70	4.494		
3,200.0	3,198.8	3,198.8	3,198.8	7.1	7.1	-116.52	1.0	-59.6	66.3	52.2	14.12	4.697		
3,300.0	3,297.1	3,297.1	3,297.1	7.3	7.3	-128.49	1.0	-59.6	76.3	61.8	14.51	5.261		
3,400.0	3,394.3	3,394.3	3,394.3	7.6	7.5	-139.38	1.0	-59.6	92.8	78.0	14.82	6.261		
3,500.0	3,490.2	3,490.2	3,490.2	7.9	7.7	-148.06	1.0	-59.6	116.1	101.0	15.08	7.697		
3,600.0	3,584.4	3,584.4	3,584.4	8.2	7.9	-154.55	1.0	-59.6	145.8	130.5	15.30	9.533		
3,700.0	3,676.8	3,676.8	3,676.8	8.6	8.2	-159.30	1.0	-59.6	181.4	166.0	15.47	11.732		
3,800.0	3,767.1	3,767.1	3,767.1	9.1	8.4	-162.79	1.0	-59.6	222.6	207.0	15.60	14.266		
3,900.0	3,854.9	3,854.9	3,854.9	9.7	8.6	-165.39	1.0	-59.6	268.9	253.2	15.71	17.118		
4,000.0	3,940.8	3,940.8	3,940.8	10.3	8.7	-167.58	1.0	-59.6	319.0	303.0	16.02	19.911		
4,100.0	4,026.6	4,026.6	4,026.6	11.0	8.9	-169.29	1.0	-59.6	369.7	353.2	16.46	22.454		
4,200.0	4,112.4	4,112.4	4,112.4	11.8	9.1	-170.58	1.0	-59.6	420.5	403.6	16.92	24.849		
4,300.0	4,198.1	4,198.1	4,198.1	12.5	9.3	-171.60	1.0	-59.6	471.5	454.1	17.40	27.103		
4,400.0	4,283.9	4,283.9	4,283.9	13.3	9.5	-172.42	1.0	-59.6	522.5	504.7	17.88	29.222		
4,500.0	4,369.6	4,369.6	4,369.6	14.2	9.7	-173.10	1.0	-59.6	573.7	555.3	18.38	31.216		
4,600.0	4,455.4	4,455.4	4,455.4	15.0	9.9	-173.67	1.0	-59.6	624.8	606.0	18.88	33.092		
4,700.0	4,541.2	4,541.2	4,541.2	15.9	10.1	-174.15	1.0	-59.6	676.1	656.7	19.39	34.858		
4,800.0	4,626.9	4,643.3	4,643.3	16.8	10.3	-174.64	1.5	-59.4	727.0	707.0	19.94	36.453		
4,900.0	4,712.7	4,788.7	4,788.4	17.7	10.7	-175.29	9.9	-56.6	773.0	752.5	20.57	37.579		
5,000.0	4,798.5	4,945.1	4,943.2	18.5	11.0	-175.99	30.5	-49.8	812.0	790.8	21.23	38.242		
5,100.0	4,884.2	5,111.4	5,105.4	19.5	11.4	-176.75	65.7	-38.2	843.2	821.3	21.93	38.447		

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 27-019HN
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 27-019HN	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						
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	Warning
5,200.0	4,970.0	5,286.0	5,271.3	20.4	11.9	-177.60	116.7	-21.2	865.9	843.2	22.67	38.198	
5,300.0	5,055.8	5,466.2	5,436.8	21.3	12.5	-178.57	184.3	1.1	879.7	856.2	23.45	37.509	
5,400.0	5,141.5	5,634.1	5,584.3	22.2	13.3	-179.59	260.3	26.3	884.4	860.1	24.25	36.470	
5,500.0	5,227.3	5,733.6	5,670.1	23.1	13.9	179.78	308.2	42.1	886.0	861.1	24.90	35.579	
5,600.0	5,313.0	5,833.1	5,755.8	24.1	14.5	179.15	356.1	58.0	887.7	862.2	25.58	34.710	
5,700.0	5,398.8	5,932.6	5,841.6	25.0	15.1	178.52	404.0	73.9	889.6	863.3	26.27	33.863	
5,800.0	5,484.6	6,032.1	5,927.3	26.0	15.7	177.90	452.0	89.7	891.5	864.5	26.99	33.038	
5,900.0	5,570.3	6,131.6	6,013.1	26.9	16.4	177.27	499.9	105.6	893.6	865.9	27.72	32.234	
6,000.0	5,656.1	6,231.1	6,098.8	27.9	17.2	176.65	547.8	121.5	895.8	867.3	28.48	31.450	
6,100.0	5,741.9	6,330.6	6,184.6	28.8	17.9	176.04	595.7	137.3	898.0	868.8	29.26	30.688	
6,200.0	5,827.6	6,430.1	6,270.3	29.8	18.7	175.42	643.6	153.2	900.4	870.3	30.07	29.946	
6,300.0	5,913.4	6,529.6	6,356.1	30.7	19.5	174.81	691.5	169.1	902.9	872.0	30.90	29.224	
6,400.0	5,999.1	6,629.1	6,441.8	31.7	20.3	174.21	739.5	184.9	905.4	873.7	31.75	28.522	
6,500.0	6,084.9	6,728.6	6,527.6	32.6	21.1	173.60	787.4	200.8	908.1	875.5	32.62	27.839	
6,600.0	6,170.7	6,828.1	6,613.3	33.6	21.9	173.00	835.3	216.7	910.9	877.4	33.52	27.176	
6,700.0	6,256.4	6,929.6	6,701.0	34.6	22.7	172.48	884.3	231.5	913.8	879.3	34.42	26.551	
6,800.0	6,342.2	7,034.1	6,791.8	35.5	23.4	173.14	935.2	227.6	916.2	881.2	35.01	26.171	
6,900.0	6,428.0	7,128.7	6,871.3	36.5	24.0	175.04	979.8	203.1	918.9	883.6	35.32	26.013	
7,000.0	6,513.7	7,207.8	6,933.0	37.5	24.4	177.49	1,014.6	168.0	923.8	888.2	35.63	25.932	
7,100.0	6,599.5	7,275.0	6,980.3	38.3	24.6	-161.01	1,041.3	128.6	932.4	896.1	36.23	25.737	
7,200.0	6,682.8	7,339.1	7,020.1	39.1	24.9	-139.45	1,063.9	83.8	942.9	905.6	37.30	25.276	
7,300.0	6,759.4	7,400.0	7,052.3	39.8	25.1	-123.98	1,082.2	35.5	953.9	915.4	38.56	24.738	
7,400.0	6,825.4	7,461.8	7,078.7	40.4	25.2	-113.53	1,097.3	-18.3	964.3	924.5	39.75	24.260	
7,500.0	6,877.3	7,525.0	7,098.6	40.9	25.4	-106.73	1,108.8	-77.0	972.7	932.0	40.73	23.884	
7,600.0	6,912.5	7,580.8	7,109.9	41.3	25.5	-102.76	1,115.5	-131.2	978.6	937.0	41.53	23.565	
7,700.0	6,929.3	7,639.7	7,115.3	41.6	25.7	-101.00	1,118.9	-189.7	981.2	938.7	42.44	23.118	
7,800.0	6,930.6	7,727.8	7,115.6	41.8	26.0	-100.87	1,119.6	-277.8	980.8	936.3	44.45	22.063	
7,900.0	6,930.6	7,827.8	7,115.6	42.1	26.7	-100.88	1,120.2	-377.8	980.0	932.7	47.36	20.693	
8,000.0	6,930.6	7,927.8	7,115.6	42.6	27.7	-100.89	1,120.8	-477.8	979.3	928.6	50.70	19.314	
8,100.0	6,930.6	8,027.8	7,115.6	43.2	29.1	-100.90	1,121.4	-577.8	978.5	924.1	54.40	17.987	
8,200.0	6,930.6	8,127.8	7,115.6	43.9	30.8	-100.91	1,122.0	-677.8	977.8	919.4	58.39	16.745	
8,300.0	6,930.6	8,227.8	7,115.6	44.8	32.7	-100.92	1,122.6	-777.8	977.0	914.4	62.61	15.604	
8,400.0	6,930.6	8,327.8	7,115.6	45.9	34.8	-100.92	1,123.2	-877.8	976.3	909.3	67.03	14.566	
8,500.0	6,930.6	8,427.8	7,115.6	47.1	37.0	-100.93	1,123.8	-977.8	975.5	904.0	71.59	13.627	
8,600.0	6,930.6	8,527.8	7,115.6	48.5	39.3	-100.94	1,124.4	-1,077.8	974.8	898.5	76.28	12.779	
8,700.0	6,930.6	8,627.8	7,115.6	50.1	41.7	-100.95	1,125.0	-1,177.8	974.1	893.0	81.08	12.014	
8,800.0	6,930.6	8,727.8	7,115.6	51.9	44.1	-100.96	1,125.6	-1,277.8	973.3	887.3	85.96	11.323	
8,900.0	6,930.6	8,827.8	7,115.6	53.7	46.5	-100.97	1,126.2	-1,377.8	972.6	881.6	90.92	10.697	
9,000.0	6,930.6	8,927.7	7,115.6	55.7	49.0	-100.97	1,126.8	-1,477.8	971.8	875.9	95.94	10.130	
9,100.0	6,930.6	9,027.7	7,115.6	57.8	51.6	-100.98	1,127.4	-1,577.8	971.1	870.1	101.01	9.614	
9,200.0	6,930.6	9,127.7	7,115.6	60.0	54.1	-100.99	1,128.0	-1,677.8	970.3	864.2	106.12	9.144	
9,300.0	6,930.6	9,227.7	7,115.6	62.2	56.7	-101.00	1,128.6	-1,777.7	969.6	858.3	111.27	8.713	
9,400.0	6,930.6	9,327.7	7,115.6	64.5	59.3	-101.01	1,129.2	-1,877.7	968.8	852.4	116.46	8.319	
9,500.0	6,930.6	9,427.7	7,115.6	66.8	62.0	-101.02	1,129.8	-1,977.7	968.1	846.4	121.68	7.956	
9,600.0	6,930.6	9,527.7	7,115.6	69.2	64.6	-101.03	1,130.4	-2,077.7	967.3	840.4	126.92	7.622	
9,700.0	6,930.6	9,627.7	7,115.6	71.6	67.3	-101.03	1,131.0	-2,177.7	966.6	834.4	132.18	7.313	
9,800.0	6,930.6	9,727.7	7,115.6	74.1	69.9	-101.04	1,131.6	-2,277.7	965.8	828.4	137.46	7.026	
9,900.0	6,930.6	9,827.7	7,115.6	76.6	72.6	-101.05	1,132.2	-2,377.7	965.1	822.3	142.77	6.760	
10,000.0	6,930.6	9,927.7	7,115.6	79.1	75.3	-101.06	1,132.8	-2,477.7	964.4	816.3	148.08	6.512	
10,100.0	6,930.6	10,027.7	7,115.6	81.7	78.0	-101.07	1,133.4	-2,577.7	963.6	810.2	153.41	6.281	
10,200.0	6,930.6	10,127.7	7,115.6	84.2	80.7	-101.08	1,134.0	-2,677.7	962.9	804.1	158.76	6.065	
10,300.0	6,930.6	10,227.7	7,115.6	86.8	83.4	-101.09	1,134.6	-2,777.7	962.1	798.0	164.11	5.863	

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

Offset Design		Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-099HC - Wellbore #1 - Plan #1 (11-21-13)											Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
10,400.0	6,930.6	10,327.7	7,115.6	89.4	86.1	-101.10	1,135.2	-2,877.7	961.4	791.9	169.48	5.673			
10,500.0	6,930.6	10,427.7	7,115.6	92.0	88.9	-101.10	1,135.8	-2,977.7	960.6	785.8	174.85	5.494			
10,600.0	6,930.6	10,527.7	7,115.6	94.6	91.6	-101.11	1,136.4	-3,077.7	959.9	779.6	180.23	5.326			
10,700.0	6,930.6	10,627.7	7,115.6	97.3	94.3	-101.12	1,137.0	-3,177.7	959.1	773.5	185.62	5.167			
10,800.0	6,930.6	10,727.7	7,115.6	99.9	97.1	-101.13	1,137.6	-3,277.7	958.4	767.4	191.02	5.017			
10,900.0	6,930.6	10,827.7	7,115.6	102.5	99.8	-101.14	1,138.2	-3,377.7	957.6	761.2	196.42	4.875			
11,000.0	6,930.6	10,927.7	7,115.6	105.2	102.6	-101.15	1,138.8	-3,477.7	956.9	755.1	201.83	4.741			
11,100.0	6,930.6	11,027.7	7,115.6	107.9	105.3	-101.16	1,139.4	-3,577.7	956.2	748.9	207.25	4.614			
11,200.0	6,930.6	11,127.7	7,115.6	110.6	108.1	-101.17	1,140.0	-3,677.7	955.4	742.7	212.67	4.493			
11,300.0	6,930.6	11,227.7	7,115.6	113.2	110.8	-101.17	1,140.6	-3,777.7	954.7	736.6	218.09	4.377			
11,400.0	6,930.6	11,327.7	7,115.6	115.9	113.6	-101.18	1,141.2	-3,877.6	953.9	730.4	223.52	4.268			
11,500.0	6,930.6	11,427.7	7,115.6	118.6	116.3	-101.19	1,141.8	-3,977.6	953.2	724.2	228.95	4.163			
11,600.0	6,930.6	11,527.7	7,115.6	121.3	119.1	-101.20	1,142.4	-4,077.6	952.4	718.0	234.39	4.063			
11,700.0	6,930.6	11,627.7	7,115.6	124.0	121.9	-101.21	1,143.0	-4,177.6	951.7	711.9	239.82	3.968			
11,800.0	6,930.6	11,727.7	7,115.6	126.8	124.6	-101.22	1,143.6	-4,277.6	950.9	705.7	245.27	3.877			
11,900.0	6,930.6	11,827.7	7,115.6	129.5	127.4	-101.23	1,144.2	-4,377.6	950.2	699.5	250.71	3.790			
12,000.0	6,930.6	11,927.7	7,115.6	132.2	130.2	-101.24	1,144.9	-4,477.6	949.4	693.3	256.16	3.706			
12,100.0	6,930.6	12,027.7	7,115.6	134.9	132.9	-101.25	1,145.5	-4,577.6	948.7	687.1	261.61	3.626			
12,200.0	6,930.6	12,127.7	7,115.6	137.6	135.7	-101.25	1,146.1	-4,677.6	947.9	680.9	267.06	3.550			
12,300.0	6,930.6	12,227.7	7,115.6	140.4	138.5	-101.26	1,146.7	-4,777.6	947.2	674.7	272.51	3.476			
12,400.0	6,930.6	12,327.6	7,115.6	143.1	141.3	-101.27	1,147.3	-4,877.6	946.5	668.5	277.97	3.405			
12,500.0	6,930.6	12,427.6	7,115.6	145.8	144.0	-101.28	1,147.9	-4,977.6	945.7	662.3	283.43	3.337			
12,600.0	6,930.6	12,527.6	7,115.6	148.6	146.8	-101.29	1,148.5	-5,077.6	945.0	656.1	288.89	3.271			
12,700.0	6,930.6	12,627.6	7,115.6	151.3	149.6	-101.30	1,149.1	-5,177.6	944.2	649.9	294.35	3.208			
12,800.0	6,930.6	12,727.6	7,115.6	154.1	152.4	-101.31	1,149.7	-5,277.6	943.5	643.7	299.81	3.147			
12,900.0	6,930.6	12,827.6	7,115.6	156.8	155.2	-101.32	1,150.3	-5,377.6	942.7	637.5	305.28	3.088			
13,000.0	6,930.6	12,927.6	7,115.6	159.6	157.9	-101.33	1,150.9	-5,477.6	942.0	631.2	310.74	3.031			
13,100.0	6,930.6	13,027.6	7,115.6	162.3	160.7	-101.34	1,151.5	-5,577.6	941.2	625.0	316.21	2.977			
13,200.0	6,930.6	13,127.6	7,115.6	165.1	163.5	-101.34	1,152.1	-5,677.6	940.5	618.8	321.67	2.924			
13,300.0	6,930.6	13,227.6	7,115.6	167.8	166.3	-101.35	1,152.7	-5,777.6	939.8	612.6	327.14	2.873			
13,400.0	6,930.6	13,327.6	7,115.6	170.6	169.1	-101.36	1,153.3	-5,877.6	939.0	606.4	332.61	2.823			
13,500.0	6,930.6	13,427.6	7,115.6	173.3	171.9	-101.37	1,153.9	-5,977.6	938.3	600.2	338.08	2.775			
13,600.0	6,930.6	13,527.6	7,115.6	176.1	174.6	-101.38	1,154.5	-6,077.5	937.5	594.0	343.56	2.729			
13,700.0	6,930.6	13,627.6	7,115.6	178.9	177.4	-101.39	1,155.1	-6,177.5	936.8	587.7	349.03	2.684			
13,800.0	6,930.6	13,727.6	7,115.6	181.6	180.2	-101.40	1,155.7	-6,277.5	936.0	581.5	354.50	2.640			
13,900.0	6,930.6	13,827.6	7,115.6	184.4	183.0	-101.41	1,156.3	-6,377.5	935.3	575.3	359.97	2.598			
14,000.0	6,930.6	13,927.6	7,115.6	187.2	185.8	-101.42	1,156.9	-6,477.5	934.5	569.1	365.45	2.557			
14,100.0	6,930.6	14,027.6	7,115.6	189.9	188.6	-101.43	1,157.5	-6,577.5	933.8	562.9	370.92	2.517			
14,200.0	6,930.6	14,127.6	7,115.6	192.7	191.4	-101.44	1,158.1	-6,677.5	933.0	556.6	376.40	2.479			
14,300.0	6,930.6	14,227.6	7,115.6	194.5	194.2	-101.45	1,158.7	-6,777.5	932.3	551.4	380.90	2.448			
14,306.0	6,930.6	14,230.6	7,115.6	194.6	194.3	-101.45	1,158.7	-6,780.5	932.3	551.2	381.09	2.446 SF			

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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	-89.30	1.1	-89.9	89.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.30	1.1	-89.9	89.9	89.7	0.22	399.930		
200.0	200.0	200.0	200.0	0.3	0.3	-89.30	1.1	-89.9	89.9	89.2	0.67	133.310		
300.0	300.0	300.0	300.0	0.6	0.6	-89.30	1.1	-89.9	89.9	88.8	1.12	79.986		
400.0	400.0	400.0	400.0	0.8	0.8	-89.30	1.1	-89.9	89.9	88.3	1.57	57.133		
500.0	500.0	500.0	500.0	1.0	1.0	-89.30	1.1	-89.9	89.9	87.9	2.02	44.437		
600.0	600.0	600.0	600.0	1.2	1.2	-89.30	1.1	-89.9	89.9	87.4	2.47	36.357		
700.0	700.0	700.0	700.0	1.5	1.5	-89.30	1.1	-89.9	89.9	87.0	2.92	30.764		
800.0	800.0	800.0	800.0	1.7	1.7	-89.30	1.1	-89.9	89.9	86.5	3.37	26.662		
900.0	900.0	900.0	900.0	1.9	1.9	-89.30	1.1	-89.9	89.9	86.1	3.82	23.525		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.30	1.1	-89.9	89.9	85.6	4.27	21.049		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-89.30	1.1	-89.9	89.9	85.2	4.72	19.044		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-89.30	1.1	-89.9	89.9	84.7	5.17	17.388		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-89.30	1.1	-89.9	89.9	84.3	5.62	15.997		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-89.30	1.1	-89.9	89.9	83.8	6.07	14.812		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-89.30	1.1	-89.9	89.9	83.4	6.52	13.791		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-89.30	1.1	-89.9	89.9	82.9	6.97	12.901		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-89.30	1.1	-89.9	89.9	82.5	7.42	12.119		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-89.30	1.1	-89.9	89.9	82.0	7.87	11.427		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-89.30	1.1	-89.9	89.9	81.6	8.32	10.809		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-89.30	1.1	-89.9	89.9	81.1	8.77	10.255		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-89.30	1.1	-89.9	89.9	80.7	9.22	9.754		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-89.30	1.1	-89.9	89.9	80.2	9.66	9.301		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-89.30	1.1	-89.9	89.9	79.8	10.11	8.887		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-89.30	1.1	-89.9	89.9	79.3	10.56	8.509		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-89.30	1.1	-89.9	89.9	78.9	11.01	8.162		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-89.30	1.1	-89.9	89.9	78.4	11.46	7.842		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-89.30	1.1	-89.9	89.9	78.0	11.91	7.546		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-89.30	1.1	-89.9	89.9	77.5	12.36	7.271		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-89.30	1.1	-89.9	89.9	77.1	12.81	7.016 CC		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-98.10	1.1	-89.9	90.2	77.0	13.26	6.805 ES		
3,100.0	3,099.6	3,099.6	3,099.6	6.9	6.9	-102.90	1.1	-89.9	91.7	78.0	13.70	6.690 SF		
3,200.0	3,198.8	3,198.8	3,198.8	7.1	7.1	-110.40	1.1	-89.9	95.4	81.3	14.13	6.752		
3,300.0	3,297.1	3,297.1	3,297.1	7.3	7.3	-119.59	1.1	-89.9	103.3	88.7	14.54	7.101		
3,400.0	3,394.3	3,394.3	3,394.3	7.6	7.5	-129.12	1.1	-89.9	116.8	101.8	14.91	7.833		
3,500.0	3,490.2	3,490.2	3,490.2	7.9	7.7	-137.80	1.1	-89.9	136.8	121.6	15.21	8.994		
3,600.0	3,584.4	3,584.4	3,584.4	8.2	7.9	-145.06	1.1	-89.9	163.5	148.1	15.45	10.584		
3,700.0	3,676.8	3,676.8	3,676.8	8.6	8.2	-150.84	1.1	-89.9	196.7	181.0	15.64	12.576		
3,800.0	3,767.1	3,767.1	3,767.1	9.1	8.4	-155.33	1.1	-89.9	235.8	220.1	15.79	14.938		
3,900.0	3,854.9	3,854.9	3,854.9	9.7	8.6	-158.81	1.1	-89.9	280.6	264.7	15.90	17.646		
4,000.0	3,940.8	3,940.8	3,940.8	10.3	8.7	-161.82	1.1	-89.9	329.5	313.3	16.20	20.341		
4,100.0	4,026.6	4,026.6	4,026.6	11.0	8.9	-164.22	1.1	-89.9	379.3	362.7	16.62	22.819		
4,200.0	4,112.4	4,112.4	4,112.4	11.8	9.1	-166.07	1.1	-89.9	429.4	412.4	17.07	25.164		
4,300.0	4,198.1	4,198.1	4,198.1	12.5	9.3	-167.54	1.1	-89.9	479.8	462.3	17.53	27.377		
4,400.0	4,283.9	4,283.9	4,283.9	13.3	9.5	-168.74	1.1	-89.9	530.5	512.5	18.00	29.464		
4,500.0	4,369.6	4,369.6	4,369.6	14.2	9.7	-169.72	1.1	-89.9	581.2	562.7	18.49	31.432		
4,600.0	4,455.4	4,455.4	4,455.4	15.0	9.9	-170.55	1.1	-89.9	632.1	613.1	18.99	33.286		
4,700.0	4,541.2	4,541.2	4,541.2	15.9	10.1	-171.26	1.1	-89.9	683.0	663.5	19.50	35.034		
4,800.0	4,626.9	4,626.9	4,626.9	16.8	10.3	-171.87	1.1	-89.9	734.0	714.0	20.01	36.683		
4,900.0	4,712.7	4,712.7	4,712.7	17.7	10.5	-172.39	1.1	-89.9	785.1	764.6	20.53	38.239		
5,000.0	4,798.5	4,798.5	4,798.5	18.5	10.7	-172.86	1.1	-89.9	836.2	815.2	21.06	39.709		
5,100.0	4,884.2	4,952.2	4,952.0	19.5	11.0	-173.68	6.4	-87.0	884.1	862.4	21.70	40.741		

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

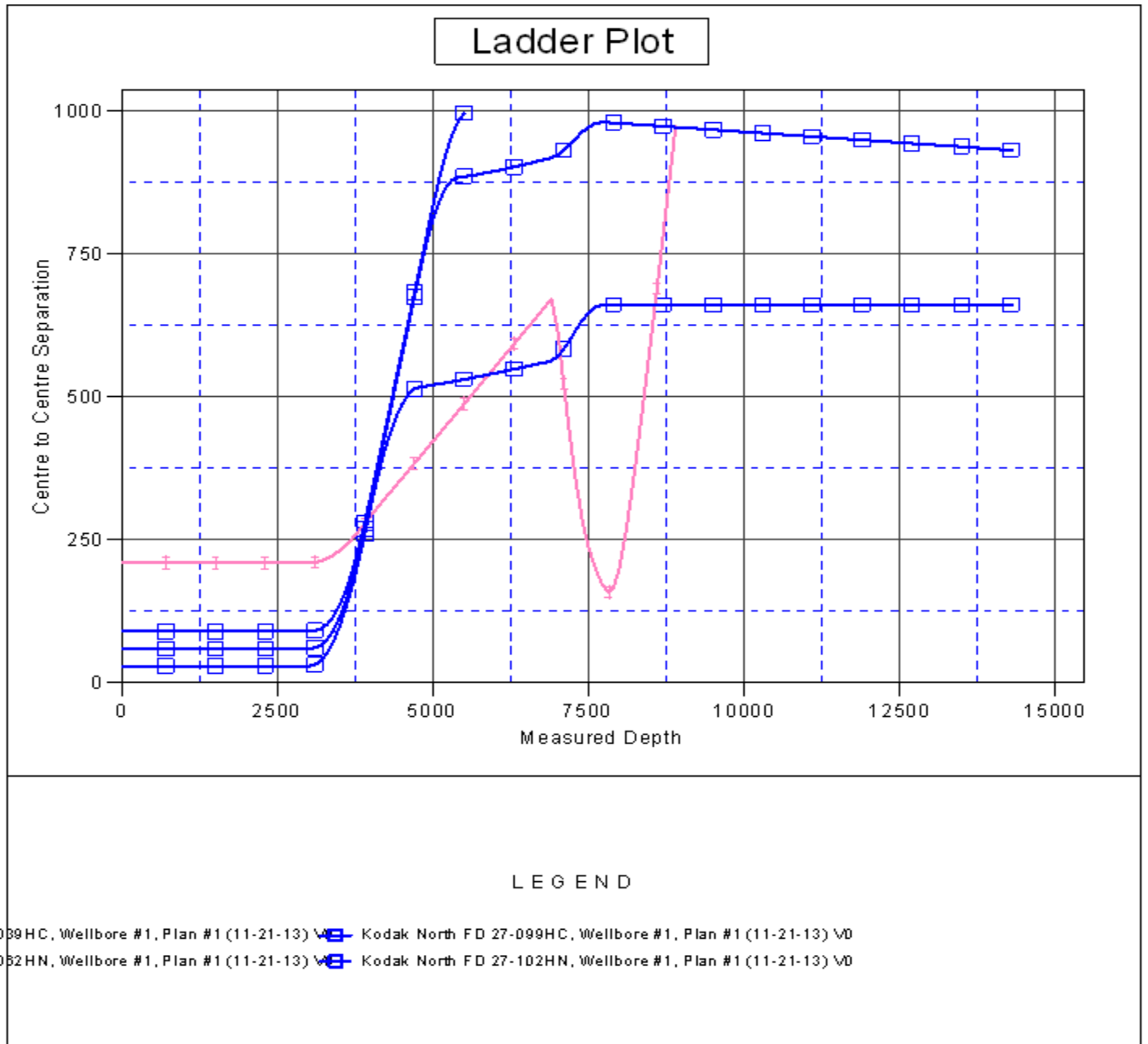
Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
Project:	SEC.26-T6N-R67W	TVD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	MD Reference:	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Kodak North FD 27-019HN	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 Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-21-13)												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.0	4,970.0	5,119.5	5,118.0	20.4	11.4	-174.68	24.5	-77.2	924.9	902.5	22.37	41.338	
5,300.0	5,055.8	5,297.8	5,292.2	21.3	11.8	-175.88	57.8	-59.2	957.6	934.5	23.08	41.486	
5,400.0	5,141.5	5,485.1	5,470.5	22.2	12.3	-177.31	108.0	-32.1	981.7	957.9	23.84	41.176	
5,500.0	5,227.3	5,678.1	5,647.5	23.1	13.0	-178.99	175.5	4.5	996.8	972.1	24.67	40.400	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Kodak North FD 27-019HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-019HN
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 27-019HN	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')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Kodak North FD 27-019HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°

