

Great Western

Well Name: **Kodak North FD 27-179HN**

Surface Location: Kodak North Pad Sec.26-T6N-R67W

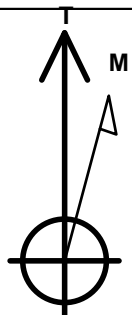
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4760.1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1410593.72	3177146.23	40.458736	-104.863394	
RKB - 16.5' WELL @ 4776.6ft (RKB - 16.5')						

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2352'FNL & 1939'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 2159'FNL & 470'FWL, Sec.27	6930.6	183.1	-6693.4	Point
Entry Pt. 2159'FNL & 1825'FWL, Sec. 26	6930.6	193.5	-114.7	Point



Azimuths to True North
Magnetic North: 8.59°

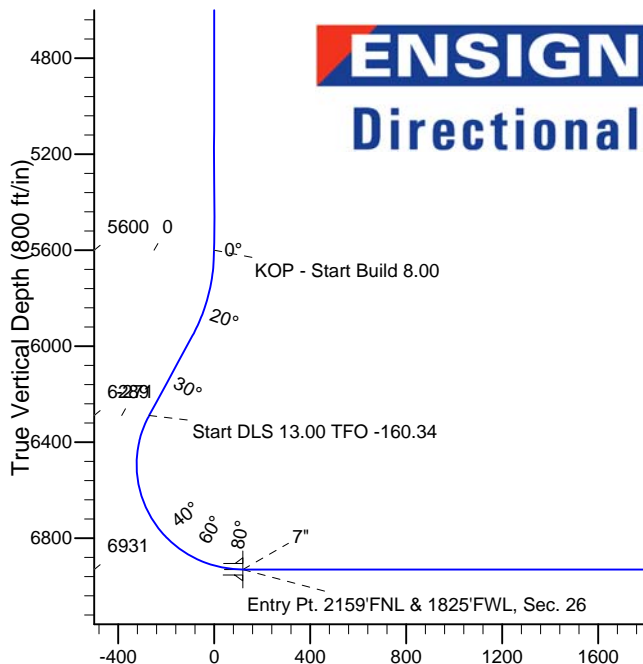
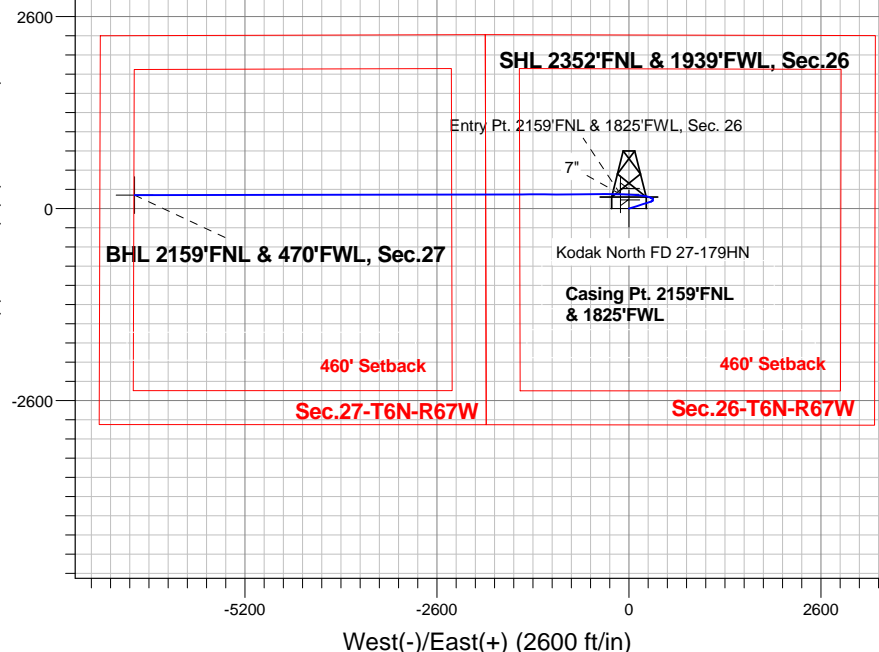
Magnetic Field
Strength: 52895.5nT
Dip Angle: 67.00°
Date: 11/21/2013
Model: IGRF2010

Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 27-179HN
Plan #1 (11-21-13)
13:30, November 22 2013

ANNOTATIONS

TVD	MD	Annotation
5600.0	5600.0	KOP - Start Build 8.00
6289.5	6357.1	Start DLS 13.00 TFO -160.34
6930.6	13846.6	TD at 13846.6

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	5600.0	0.00	0.00	5600.0	0.0	0.0	0.00	0.00	0.0	
3	5973.2	29.86	72.70	5956.5	28.3	90.8	8.00	72.70	-90.0	
4	6357.1	29.86	72.70	6289.5	85.1	273.2	0.00	0.00	-270.8	
5	7267.8	90.00	269.92	6930.6	193.5	-114.7	13.00	-160.34	119.9	Entry Pt. 2159'FNL & 1825'FWL, Sec. 26
6	7268.8	90.00	269.91	6930.6	193.5	-115.7	1.00	-90.00	120.9	
7	13846.6	90.00	269.91	6930.6	183.1	-6693.4	0.00	0.00	6695.9	BHL 2159'FNL & 470'FWL, Sec.27

BHL 2159'FNL & 470'FWL, Sec.27

Vertical Section at 271.57° (800 ft/in)



Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 27-179HN

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	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,973.2	29.86	72.70	5,956.5	28.3	90.8	8.00	8.00	0.00	72.70	
6,357.1	29.86	72.70	6,289.5	85.1	273.2	0.00	0.00	0.00	0.00	
7,267.8	90.00	269.92	6,930.6	193.5	-114.7	13.00	6.60	-17.87	-160.34	Entry Pt. 2159'FNL
7,268.8	90.00	269.91	6,930.6	193.5	-115.7	1.00	0.00	-1.00	-90.00	
13,846.6	90.00	269.91	6,930.6	183.1	-6,693.4	0.00	0.00	0.00	0.00	BHL 2159'FNL & 47

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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 & 1939'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 27-179HN
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 27-179HN	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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 8.00									
5,700.0	8.00	72.70	5,699.7	2.1	6.7	-6.6	8.00	8.00	0.00
5,800.0	16.00	72.70	5,797.4	8.2	26.5	-26.3	8.00	8.00	0.00
5,900.0	24.00	72.70	5,891.3	18.4	59.1	-58.6	8.00	8.00	0.00
5,973.2	29.86	72.70	5,956.5	28.3	90.8	-90.0	8.00	8.00	0.00
6,000.0	29.86	72.70	5,979.8	32.2	103.5	-102.6	0.00	0.00	0.00
6,100.0	29.86	72.70	6,066.5	47.0	151.0	-149.7	0.00	0.00	0.00
6,200.0	29.86	72.70	6,153.2	61.8	198.6	-196.8	0.00	0.00	0.00
6,300.0	29.86	72.70	6,240.0	76.6	246.1	-243.9	0.00	0.00	0.00
6,357.1	29.86	72.70	6,289.5	85.1	273.2	-270.8	0.00	0.00	0.00
Start DLS 13.00 TFO -160.34									
6,400.0	24.67	68.21	6,327.6	91.6	291.7	-289.1	13.00	-12.09	-10.48
6,500.0	13.73	45.84	6,422.0	107.7	319.8	-316.7	13.00	-10.94	-22.37
6,600.0	10.15	341.54	6,520.2	124.4	325.5	-322.0	13.00	-3.57	-64.30
6,700.0	18.77	299.91	6,617.2	140.8	308.7	-304.7	13.00	8.62	-41.63
6,800.0	30.60	286.61	6,708.0	156.2	270.2	-265.8	13.00	11.83	-13.30
6,900.0	43.07	280.39	6,787.9	169.7	212.0	-207.2	13.00	12.47	-6.22
7,000.0	55.75	276.56	6,852.8	180.6	137.0	-132.0	13.00	12.68	-3.83
7,100.0	68.51	273.76	6,899.5	188.4	49.1	-44.0	13.00	12.76	-2.81
7,200.0	81.31	271.41	6,925.5	192.7	-47.1	52.4	13.00	12.80	-2.35
7,267.8	90.00	269.92	6,930.6	193.5	-114.7	119.9	13.00	12.81	-2.19
7" - Entry Pt. 2159'FNL & 1825'FWL, Sec. 26									
7,268.8	90.00	269.91	6,930.6	193.5	-115.7	120.9	1.01	0.04	-1.01
7,300.0	90.00	269.91	6,930.6	193.4	-146.8	152.1	0.00	0.00	0.00
7,400.0	90.00	269.91	6,930.6	193.3	-246.8	252.0	0.00	0.00	0.00
7,500.0	90.00	269.91	6,930.6	193.1	-346.8	352.0	0.00	0.00	0.00
7,600.0	90.00	269.91	6,930.6	193.0	-446.8	452.0	0.00	0.00	0.00
7,700.0	90.00	269.91	6,930.6	192.8	-546.8	551.9	0.00	0.00	0.00
7,800.0	90.00	269.91	6,930.6	192.6	-646.8	651.9	0.00	0.00	0.00
7,900.0	90.00	269.91	6,930.6	192.5	-746.8	751.8	0.00	0.00	0.00
8,000.0	90.00	269.91	6,930.6	192.3	-846.8	851.8	0.00	0.00	0.00
8,100.0	90.00	269.91	6,930.6	192.2	-946.8	951.7	0.00	0.00	0.00
8,200.0	90.00	269.91	6,930.6	192.0	-1,046.8	1,051.7	0.00	0.00	0.00
8,300.0	90.00	269.91	6,930.6	191.9	-1,146.8	1,151.7	0.00	0.00	0.00
8,400.0	90.00	269.91	6,930.6	191.7	-1,246.8	1,251.6	0.00	0.00	0.00
8,500.0	90.00	269.91	6,930.6	191.5	-1,346.8	1,351.6	0.00	0.00	0.00
8,600.0	90.00	269.91	6,930.6	191.4	-1,446.8	1,451.5	0.00	0.00	0.00
8,700.0	90.00	269.91	6,930.6	191.2	-1,546.8	1,551.5	0.00	0.00	0.00
8,800.0	90.00	269.91	6,930.6	191.1	-1,646.8	1,651.5	0.00	0.00	0.00
8,900.0	90.00	269.91	6,930.6	190.9	-1,746.8	1,751.4	0.00	0.00	0.00
9,000.0	90.00	269.91	6,930.6	190.7	-1,846.8	1,851.4	0.00	0.00	0.00
9,100.0	90.00	269.91	6,930.6	190.6	-1,946.8	1,951.3	0.00	0.00	0.00
9,200.0	90.00	269.91	6,930.6	190.4	-2,046.8	2,051.3	0.00	0.00	0.00
9,300.0	90.00	269.91	6,930.6	190.3	-2,146.8	2,151.2	0.00	0.00	0.00
9,400.0	90.00	269.91	6,930.6	190.1	-2,246.8	2,251.2	0.00	0.00	0.00
9,500.0	90.00	269.91	6,930.6	190.0	-2,346.8	2,351.2	0.00	0.00	0.00
9,600.0	90.00	269.91	6,930.6	189.8	-2,446.8	2,451.1	0.00	0.00	0.00
9,700.0	90.00	269.91	6,930.6	189.6	-2,546.8	2,551.1	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	269.91	6,930.6	189.5	-2,646.8	2,651.0	0.00	0.00	0.00	
9,900.0	90.00	269.91	6,930.6	189.3	-2,746.8	2,751.0	0.00	0.00	0.00	
10,000.0	90.00	269.91	6,930.6	189.2	-2,846.8	2,851.0	0.00	0.00	0.00	
10,100.0	90.00	269.91	6,930.6	189.0	-2,946.8	2,950.9	0.00	0.00	0.00	
10,200.0	90.00	269.91	6,930.6	188.9	-3,046.8	3,050.9	0.00	0.00	0.00	
10,300.0	90.00	269.91	6,930.6	188.7	-3,146.8	3,150.8	0.00	0.00	0.00	
10,400.0	90.00	269.91	6,930.6	188.5	-3,246.8	3,250.8	0.00	0.00	0.00	
10,500.0	90.00	269.91	6,930.6	188.4	-3,346.8	3,350.7	0.00	0.00	0.00	
10,600.0	90.00	269.91	6,930.6	188.2	-3,446.8	3,450.7	0.00	0.00	0.00	
10,700.0	90.00	269.91	6,930.6	188.1	-3,546.8	3,550.7	0.00	0.00	0.00	
10,800.0	90.00	269.91	6,930.6	187.9	-3,646.8	3,650.6	0.00	0.00	0.00	
10,900.0	90.00	269.91	6,930.6	187.8	-3,746.8	3,750.6	0.00	0.00	0.00	
11,000.0	90.00	269.91	6,930.6	187.6	-3,846.8	3,850.5	0.00	0.00	0.00	
11,100.0	90.00	269.91	6,930.6	187.4	-3,946.8	3,950.5	0.00	0.00	0.00	
11,200.0	90.00	269.91	6,930.6	187.3	-4,046.8	4,050.4	0.00	0.00	0.00	
11,300.0	90.00	269.91	6,930.6	187.1	-4,146.8	4,150.4	0.00	0.00	0.00	
11,400.0	90.00	269.91	6,930.6	187.0	-4,246.8	4,250.4	0.00	0.00	0.00	
11,500.0	90.00	269.91	6,930.6	186.8	-4,346.8	4,350.3	0.00	0.00	0.00	
11,600.0	90.00	269.91	6,930.6	186.6	-4,446.8	4,450.3	0.00	0.00	0.00	
11,700.0	90.00	269.91	6,930.6	186.5	-4,546.8	4,550.2	0.00	0.00	0.00	
11,800.0	90.00	269.91	6,930.6	186.3	-4,646.8	4,650.2	0.00	0.00	0.00	
11,900.0	90.00	269.91	6,930.6	186.2	-4,746.8	4,750.2	0.00	0.00	0.00	
12,000.0	90.00	269.91	6,930.6	186.0	-4,846.8	4,850.1	0.00	0.00	0.00	
12,100.0	90.00	269.91	6,930.6	185.9	-4,946.8	4,950.1	0.00	0.00	0.00	
12,200.0	90.00	269.91	6,930.6	185.7	-5,046.8	5,050.0	0.00	0.00	0.00	
12,300.0	90.00	269.91	6,930.6	185.5	-5,146.8	5,150.0	0.00	0.00	0.00	
12,400.0	90.00	269.91	6,930.6	185.4	-5,246.8	5,249.9	0.00	0.00	0.00	
12,500.0	90.00	269.91	6,930.6	185.2	-5,346.8	5,349.9	0.00	0.00	0.00	
12,600.0	90.00	269.91	6,930.6	185.1	-5,446.8	5,449.9	0.00	0.00	0.00	
12,700.0	90.00	269.91	6,930.6	184.9	-5,546.8	5,549.8	0.00	0.00	0.00	
12,800.0	90.00	269.91	6,930.6	184.8	-5,646.8	5,649.8	0.00	0.00	0.00	
12,900.0	90.00	269.91	6,930.6	184.6	-5,746.8	5,749.7	0.00	0.00	0.00	
13,000.0	90.00	269.91	6,930.6	184.4	-5,846.8	5,849.7	0.00	0.00	0.00	
13,100.0	90.00	269.91	6,930.6	184.3	-5,946.8	5,949.7	0.00	0.00	0.00	
13,200.0	90.00	269.91	6,930.6	184.1	-6,046.8	6,049.6	0.00	0.00	0.00	
13,300.0	90.00	269.91	6,930.6	184.0	-6,146.8	6,149.6	0.00	0.00	0.00	
13,400.0	90.00	269.91	6,930.6	183.8	-6,246.8	6,249.5	0.00	0.00	0.00	
13,500.0	90.00	269.91	6,930.6	183.6	-6,346.8	6,349.5	0.00	0.00	0.00	
13,600.0	90.00	269.91	6,930.6	183.5	-6,446.8	6,449.4	0.00	0.00	0.00	
13,700.0	90.00	269.91	6,930.6	183.3	-6,546.8	6,549.4	0.00	0.00	0.00	
13,800.0	90.00	269.91	6,930.6	183.2	-6,646.8	6,649.4	0.00	0.00	0.00	
13,846.6	90.00	269.91	6,930.6	183.1	-6,693.4	6,695.9	0.00	0.00	0.00	
BHL 2159'FNL & 470'FWL, Sec.27										

Database:	Landmark	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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 2159'FNL & 470' - hit/miss target - Shape - Point	0.00	0.00	6,930.6	183.1	-6,693.4	1,410,728.76	3,170,451.93	40.459236	-104.887447
SHL 2352'FNL & 193' - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	1,410,593.75	3,177,146.23	40.458736	-104.863394
Entry Pt. 2159'FNL & 470' - plan hits target center - Point	0.00	0.00	6,930.6	193.5	-114.7	1,410,786.37	3,177,030.20	40.459267	-104.863806

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,267.8	6,930.6	7"	7	7-1/2	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
5,600.0	5,600.0	0.0	0.0	KOP - Start Build 8.00
6,357.1	6,289.5	85.1	273.2	Start DLS 13.00 TFO -160.34
13,846.6	6,930.6	183.1	-6,693.4	TD at 13846.6



Great Western

SEC.26-T6N-R67W

Kodak North Pad Sec.26-T6N-R67W

Kodak North FD 27-179HN

Wellbore #1

Plan #1 (11-21-13)

Anticollision Report

22 November, 2013

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	13,846.6	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 25-039HC - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	155.7	141.9	11.352	CC, ES
Kodak North FD 25-039HC - Wellbore #1 - Plan #1 (11-2	3,200.0	3,194.2	157.5	143.3	11.133	SF
Kodak North FD 25-039HN - Wellbore #1 - Plan #1 (11-2	3,300.0	3,300.0	134.0	119.4	9.175	CC, ES
Kodak North FD 25-039HN - Wellbore #1 - Plan #1 (11-2	3,400.0	3,394.3	136.2	121.1	9.050	SF
Kodak North FD 25-079HN - Wellbore #1 - Plan #1 (11-2	4,300.0	4,300.0	116.5	97.4	6.100	CC, ES
Kodak North FD 25-079HN - Wellbore #1 - Plan #1 (11-2	4,400.0	4,394.3	119.0	99.4	6.088	SF
Kodak North FD 25-119HC - Wellbore #1 - Plan #1 (11-2	5,333.3	5,333.3	104.4	80.7	4.397	CC, ES
Kodak North FD 25-119HC - Wellbore #1 - Plan #1 (11-2	5,400.0	5,395.2	105.6	81.5	4.392	SF
Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-2	5,400.0	5,400.0	29.5	5.4	1.227	Level 2, CC, ES, SF
Kodak North FD 25-162HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	59.6	36.4	2.572	CC, ES, SF
Kodak North FD 27-019HN - Wellbore #1 - Plan #1 (11-2	2,900.0	2,900.0	134.2	121.4	10.473	CC, ES
Kodak North FD 27-019HN - Wellbore #1 - Plan #1 (11-2	3,000.0	2,994.5	136.2	123.0	10.281	SF
Kodak North FD 27-062HN - Wellbore #1 - Plan #1 (11-2	3,900.0	3,900.0	117.3	100.0	6.777	CC, ES
Kodak North FD 27-062HN - Wellbore #1 - Plan #1 (11-2	4,000.0	3,994.4	119.6	101.9	6.742	SF
Kodak North FD 27-099HC - Wellbore #1 - Plan #1 (11-2	4,600.0	4,600.0	104.8	84.3	5.124	CC, ES, SF
Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-2	4,800.0	4,800.0	100.2	78.9	4.693	CC, ES
Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-2	13,846.6	13,975.7	684.2	295.7	1.761	SF
Kodak North FD 27-179HC - Wellbore #1 - Plan #1 (11-2	5,905.6	5,896.4	26.6	0.5	1.019	Level 2, CC
Kodak North FD 27-179HC - Wellbore #1 - Plan #1 (11-2	13,846.6	13,974.7	259.6	-23.9	0.916	Level 1, ES, SF
Kodak North FD 27-182HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	60.1	37.0	2.596	CC, ES
Kodak North FD 27-182HN - Wellbore #1 - Plan #1 (11-2	13,846.6	13,824.3	479.8	90.6	1.233	Level 2, SF

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						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
0.0	0.0	0.0	0.0	0.0	0.0	-49.92	100.2	-119.1	155.7				
100.0	100.0	100.0	100.0	0.1	0.1	-49.92	100.2	-119.1	155.7	155.4	0.22	692.501	
200.0	200.0	200.0	200.0	0.3	0.3	-49.92	100.2	-119.1	155.7	155.0	0.67	230.834	
300.0	300.0	300.0	300.0	0.6	0.6	-49.92	100.2	-119.1	155.7	154.5	1.12	138.500	
400.0	400.0	400.0	400.0	0.8	0.8	-49.92	100.2	-119.1	155.7	154.1	1.57	98.929	
500.0	500.0	500.0	500.0	1.0	1.0	-49.92	100.2	-119.1	155.7	153.6	2.02	76.945	
600.0	600.0	600.0	600.0	1.2	1.2	-49.92	100.2	-119.1	155.7	153.2	2.47	62.955	

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

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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
700.0	700.0	700.0	700.0	1.5	1.5	-49.92	100.2	-119.1	155.7	152.7	2.92	53.269		
800.0	800.0	800.0	800.0	1.7	1.7	-49.92	100.2	-119.1	155.7	152.3	3.37	46.167		
900.0	900.0	900.0	900.0	1.9	1.9	-49.92	100.2	-119.1	155.7	151.8	3.82	40.735		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-49.92	100.2	-119.1	155.7	151.4	4.27	36.447		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-49.92	100.2	-119.1	155.7	150.9	4.72	32.976		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-49.92	100.2	-119.1	155.7	150.5	5.17	30.109		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-49.92	100.2	-119.1	155.7	150.0	5.62	27.700		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-49.92	100.2	-119.1	155.7	149.6	6.07	25.648		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-49.92	100.2	-119.1	155.7	149.1	6.52	23.879		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-49.92	100.2	-119.1	155.7	148.7	6.97	22.339		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-49.92	100.2	-119.1	155.7	148.2	7.42	20.985		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-49.92	100.2	-119.1	155.7	147.8	7.87	19.786		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-49.92	100.2	-119.1	155.7	147.3	8.32	18.716		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-49.92	100.2	-119.1	155.7	146.9	8.77	17.756		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-49.92	100.2	-119.1	155.7	146.4	9.22	16.890		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-49.92	100.2	-119.1	155.7	146.0	9.66	16.105		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-49.92	100.2	-119.1	155.7	145.5	10.11	15.389		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-49.92	100.2	-119.1	155.7	145.1	10.56	14.734		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-49.92	100.2	-119.1	155.7	144.6	11.01	14.133		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-49.92	100.2	-119.1	155.7	144.2	11.46	13.578		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-49.92	100.2	-119.1	155.7	143.7	11.91	13.066		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-49.92	100.2	-119.1	155.7	143.3	12.36	12.591		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-49.92	100.2	-119.1	155.7	142.8	12.81	12.149		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-49.92	100.2	-119.1	155.7	142.4	13.26	11.737		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-49.92	100.2	-119.1	155.7	141.9	13.71	11.352 CC, ES		
3,200.0	3,200.0	3,194.2	3,194.2	7.1	7.1	-49.36	102.5	-119.4	157.5	143.3	14.15	11.133 SF		
3,300.0	3,300.0	3,288.0	3,287.7	7.3	7.3	-47.73	109.4	-120.3	163.1	148.5	14.58	11.185		
3,400.0	3,400.0	3,380.9	3,379.9	7.5	7.5	-45.29	120.6	-121.9	172.6	157.6	15.01	11.499		
3,500.0	3,500.0	3,472.5	3,470.1	7.8	7.7	-42.32	136.1	-123.9	186.5	171.0	15.45	12.067		
3,600.0	3,600.0	3,562.3	3,557.8	8.0	7.9	-39.15	155.4	-126.5	204.8	188.9	15.90	12.877		
3,700.0	3,700.0	3,650.1	3,642.6	8.2	8.2	-36.03	178.2	-129.6	227.7	211.3	16.37	13.908		
3,800.0	3,800.0	3,735.6	3,724.0	8.4	8.4	-33.11	204.1	-133.1	255.2	238.4	16.86	15.134		
3,900.0	3,900.0	3,818.6	3,801.7	8.7	8.7	-30.48	232.6	-136.9	287.2	269.9	17.38	16.524		
4,000.0	4,000.0	3,900.0	3,876.8	8.9	9.1	-28.14	263.8	-141.1	323.6	305.6	17.94	18.041		
4,100.0	4,100.0	3,976.0	3,945.6	9.1	9.4	-26.17	295.9	-145.4	364.0	345.5	18.52	19.653		
4,200.0	4,200.0	4,050.4	4,011.6	9.3	9.8	-24.46	329.8	-150.0	408.3	389.2	19.14	21.331		
4,300.0	4,300.0	4,126.9	4,078.2	9.6	10.3	-22.89	367.1	-155.0	456.1	436.2	19.81	23.018		
4,400.0	4,400.0	4,213.5	4,153.2	9.8	10.8	-21.41	410.0	-160.8	504.8	484.2	20.59	24.522		
4,500.0	4,500.0	4,300.1	4,228.3	10.0	11.4	-20.19	452.9	-166.5	553.8	532.4	21.39	25.887		
4,600.0	4,600.0	4,386.7	4,303.3	10.2	12.0	-19.16	495.8	-172.3	602.9	580.7	22.23	27.120		
4,700.0	4,700.0	4,473.4	4,378.3	10.5	12.7	-18.29	538.7	-178.1	652.2	629.1	23.09	28.243		
4,800.0	4,800.0	4,560.0	4,453.4	10.7	13.4	-17.54	581.6	-183.9	701.6	677.6	23.97	29.266		
4,900.0	4,900.0	4,646.6	4,528.4	10.9	14.0	-16.89	624.5	-189.6	751.0	726.1	24.87	30.200		
5,000.0	5,000.0	4,733.2	4,603.5	11.1	14.7	-16.32	667.4	-195.4	800.5	774.7	25.78	31.054		
5,100.0	5,100.0	4,819.9	4,678.5	11.4	15.5	-15.81	710.3	-201.2	850.1	823.4	26.70	31.837		
5,200.0	5,200.0	4,906.5	4,753.5	11.6	16.2	-15.36	753.2	-206.9	899.7	872.0	27.63	32.557		
5,300.0	5,300.0	4,993.1	4,828.6	11.8	16.9	-14.96	796.1	-212.7	949.3	920.7	28.58	33.219		
5,400.0	5,400.0	5,079.7	4,903.6	12.0	17.7	-14.60	839.0	-218.5	999.0	969.5	29.53	33.831		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	-41.63	100.2	-89.0	134.0					
100.0	100.0	100.0	100.0	0.1	0.1	-41.63	100.2	-89.0	134.0	133.8	0.22	596.388		
200.0	200.0	200.0	200.0	0.3	0.3	-41.63	100.2	-89.0	134.0	133.4	0.67	198.796		
300.0	300.0	300.0	300.0	0.6	0.6	-41.63	100.2	-89.0	134.0	132.9	1.12	119.278		
400.0	400.0	400.0	400.0	0.8	0.8	-41.63	100.2	-89.0	134.0	132.5	1.57	85.198		
500.0	500.0	500.0	500.0	1.0	1.0	-41.63	100.2	-89.0	134.0	132.0	2.02	66.265		
600.0	600.0	600.0	600.0	1.2	1.2	-41.63	100.2	-89.0	134.0	131.6	2.47	54.217		
700.0	700.0	700.0	700.0	1.5	1.5	-41.63	100.2	-89.0	134.0	131.1	2.92	45.876		
800.0	800.0	800.0	800.0	1.7	1.7	-41.63	100.2	-89.0	134.0	130.7	3.37	39.759		
900.0	900.0	900.0	900.0	1.9	1.9	-41.63	100.2	-89.0	134.0	130.2	3.82	35.082		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-41.63	100.2	-89.0	134.0	129.8	4.27	31.389		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-41.63	100.2	-89.0	134.0	129.3	4.72	28.399		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-41.63	100.2	-89.0	134.0	128.9	5.17	25.930		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-41.63	100.2	-89.0	134.0	128.4	5.62	23.856		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-41.63	100.2	-89.0	134.0	128.0	6.07	22.088		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-41.63	100.2	-89.0	134.0	127.5	6.52	20.565		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-41.63	100.2	-89.0	134.0	127.1	6.97	19.238		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-41.63	100.2	-89.0	134.0	126.6	7.42	18.072		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-41.63	100.2	-89.0	134.0	126.2	7.87	17.040		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-41.63	100.2	-89.0	134.0	125.7	8.32	16.119		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-41.63	100.2	-89.0	134.0	125.3	8.77	15.292		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-41.63	100.2	-89.0	134.0	124.8	9.22	14.546		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-41.63	100.2	-89.0	134.0	124.4	9.66	13.869		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-41.63	100.2	-89.0	134.0	123.9	10.11	13.253		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-41.63	100.2	-89.0	134.0	123.5	10.56	12.689		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-41.63	100.2	-89.0	134.0	123.0	11.01	12.171		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-41.63	100.2	-89.0	134.0	122.6	11.46	11.694		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-41.63	100.2	-89.0	134.0	122.1	11.91	11.253		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-41.63	100.2	-89.0	134.0	121.7	12.36	10.843		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-41.63	100.2	-89.0	134.0	121.2	12.81	10.463		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-41.63	100.2	-89.0	134.0	120.8	13.26	10.108		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-41.63	100.2	-89.0	134.0	120.3	13.71	9.777		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-41.63	100.2	-89.0	134.0	119.9	14.16	9.466		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-41.63	100.2	-89.0	134.0	119.4	14.61	9.175 CC, ES		
3,400.0	3,400.0	3,394.3	3,394.3	7.5	7.5	-41.11	102.5	-89.4	136.2	121.1	15.05	9.050 SF		
3,500.0	3,500.0	3,488.1	3,487.8	7.8	7.7	-39.66	109.3	-90.6	142.5	127.0	15.48	9.208		
3,600.0	3,600.0	3,581.1	3,580.1	8.0	7.9	-37.52	120.5	-92.6	153.3	137.4	15.91	9.633		
3,700.0	3,700.0	3,672.7	3,670.3	8.2	8.2	-35.01	135.9	-95.2	168.6	152.2	16.35	10.311		
3,800.0	3,800.0	3,762.6	3,758.1	8.4	8.4	-32.41	155.1	-98.5	188.5	171.7	16.80	11.220		
3,900.0	3,900.0	3,850.5	3,842.9	8.7	8.6	-29.94	177.8	-102.4	213.0	195.8	17.26	12.338		
4,000.0	4,000.0	3,936.0	3,924.3	8.9	8.9	-27.69	203.6	-106.9	242.1	224.3	17.75	13.636		
4,100.0	4,100.0	4,019.0	4,002.1	9.1	9.2	-25.72	232.0	-111.7	275.5	257.2	18.27	15.082		
4,200.0	4,200.0	4,100.0	4,076.8	9.3	9.5	-24.00	262.9	-117.1	313.1	294.3	18.81	16.646		
4,300.0	4,300.0	4,176.5	4,146.1	9.6	9.8	-22.57	295.0	-122.6	354.6	335.2	19.38	18.292		
4,400.0	4,400.0	4,250.9	4,212.1	9.8	10.2	-21.34	328.7	-128.4	399.8	379.8	19.99	19.998		
4,500.0	4,500.0	4,326.6	4,277.9	10.0	10.7	-20.24	365.5	-134.7	448.4	427.7	20.64	21.723		
4,600.0	4,600.0	4,413.1	4,352.8	10.2	11.2	-19.19	408.2	-142.1	498.0	476.6	21.40	23.272		
4,700.0	4,700.0	4,499.6	4,427.6	10.5	11.8	-18.33	451.0	-149.5	547.7	525.5	22.19	24.684		
4,800.0	4,800.0	4,586.1	4,502.4	10.7	12.4	-17.62	493.8	-156.8	597.5	574.4	23.01	25.965		
4,900.0	4,900.0	4,672.6	4,577.3	10.9	13.0	-17.02	536.5	-164.2	647.3	623.4	23.86	27.133		
5,000.0	5,000.0	4,759.1	4,652.1	11.1	13.7	-16.50	579.3	-171.6	697.2	672.4	24.72	28.200		
5,100.0	5,100.0	4,845.6	4,727.0	11.4	14.4	-16.05	622.1	-178.9	747.1	721.5	25.61	29.177		

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 27-179HN
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 27-179HN	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 25-039HN - 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	5,200.0	4,932.1	4,801.8	11.6	15.1	-15.65	664.8	-186.3	797.0	770.5	26.50	30.072	
5,300.0	5,300.0	5,018.7	4,876.6	11.8	15.8	-15.31	707.6	-193.6	847.0	819.6	27.42	30.894	
5,400.0	5,400.0	5,105.2	4,951.5	12.0	16.5	-15.00	750.4	-201.0	897.0	868.7	28.34	31.651	
5,500.0	5,500.0	5,191.7	5,026.3	12.2	17.3	-14.72	793.1	-208.4	947.0	917.7	29.28	32.348	
5,600.0	5,600.0	5,278.2	5,101.2	12.5	18.0	-14.47	835.9	-215.7	997.0	966.8	30.22	32.992	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	-30.73	100.2	-59.6	116.5					
100.0	100.0	100.0	100.0	0.1	0.1	-30.73	100.2	-59.6	116.5	116.3	0.22	518.522		
200.0	200.0	200.0	200.0	0.3	0.3	-30.73	100.2	-59.6	116.5	115.9	0.67	172.841		
300.0	300.0	300.0	300.0	0.6	0.6	-30.73	100.2	-59.6	116.5	115.4	1.12	103.704		
400.0	400.0	400.0	400.0	0.8	0.8	-30.73	100.2	-59.6	116.5	115.0	1.57	74.075		
500.0	500.0	500.0	500.0	1.0	1.0	-30.73	100.2	-59.6	116.5	114.5	2.02	57.614		
600.0	600.0	600.0	600.0	1.2	1.2	-30.73	100.2	-59.6	116.5	114.1	2.47	47.138		
700.0	700.0	700.0	700.0	1.5	1.5	-30.73	100.2	-59.6	116.5	113.6	2.92	39.886		
800.0	800.0	800.0	800.0	1.7	1.7	-30.73	100.2	-59.6	116.5	113.2	3.37	34.568		
900.0	900.0	900.0	900.0	1.9	1.9	-30.73	100.2	-59.6	116.5	112.7	3.82	30.501		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-30.73	100.2	-59.6	116.5	112.3	4.27	27.291		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-30.73	100.2	-59.6	116.5	111.8	4.72	24.692		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-30.73	100.2	-59.6	116.5	111.4	5.17	22.544		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-30.73	100.2	-59.6	116.5	110.9	5.62	20.741		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-30.73	100.2	-59.6	116.5	110.5	6.07	19.205		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-30.73	100.2	-59.6	116.5	110.0	6.52	17.880		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-30.73	100.2	-59.6	116.5	109.6	6.97	16.727		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-30.73	100.2	-59.6	116.5	109.1	7.42	15.713		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-30.73	100.2	-59.6	116.5	108.7	7.87	14.815		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-30.73	100.2	-59.6	116.5	108.2	8.32	14.014		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-30.73	100.2	-59.6	116.5	107.8	8.77	13.295		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-30.73	100.2	-59.6	116.5	107.3	9.22	12.647		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-30.73	100.2	-59.6	116.5	106.9	9.66	12.059		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-30.73	100.2	-59.6	116.5	106.4	10.11	11.523		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-30.73	100.2	-59.6	116.5	106.0	10.56	11.032		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-30.73	100.2	-59.6	116.5	105.5	11.01	10.582		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-30.73	100.2	-59.6	116.5	105.1	11.46	10.167		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-30.73	100.2	-59.6	116.5	104.6	11.91	9.783		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-30.73	100.2	-59.6	116.5	104.2	12.36	9.428		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-30.73	100.2	-59.6	116.5	103.7	12.81	9.097		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-30.73	100.2	-59.6	116.5	103.3	13.26	8.789		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-30.73	100.2	-59.6	116.5	102.8	13.71	8.500		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-30.73	100.2	-59.6	116.5	102.4	14.16	8.231		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-30.73	100.2	-59.6	116.5	101.9	14.61	7.977		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-30.73	100.2	-59.6	116.5	101.5	15.06	7.739		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-30.73	100.2	-59.6	116.5	101.0	15.51	7.515		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-30.73	100.2	-59.6	116.5	100.6	15.96	7.303		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-30.73	100.2	-59.6	116.5	100.1	16.41	7.103		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-30.73	100.2	-59.6	116.5	99.7	16.86	6.914		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-30.73	100.2	-59.6	116.5	99.2	17.31	6.734		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-30.73	100.2	-59.6	116.5	98.8	17.76	6.564		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-30.73	100.2	-59.6	116.5	98.3	18.21	6.402		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-30.73	100.2	-59.6	116.5	97.9	18.66	6.247		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-30.73	100.2	-59.6	116.5	97.4	19.11	6.100 CC, ES		
4,400.0	4,400.0	4,394.3	4,394.3	9.8	9.8	-30.47	102.4	-60.2	119.0	99.4	19.54	6.088 SF		
4,500.0	4,500.0	4,488.2	4,487.9	10.0	10.0	-29.75	109.0	-62.3	126.2	106.2	19.97	6.317		
4,600.0	4,600.0	4,581.1	4,580.1	10.2	10.2	-28.73	119.9	-65.7	138.2	117.8	20.40	6.772		
4,700.0	4,700.0	4,672.8	4,670.4	10.5	10.4	-27.57	134.8	-70.4	154.9	134.1	20.84	7.435		
4,800.0	4,800.0	4,762.7	4,758.2	10.7	10.6	-26.41	153.4	-76.2	176.3	155.1	21.28	8.287		
4,900.0	4,900.0	4,850.6	4,843.0	10.9	10.8	-25.34	175.4	-83.1	202.3	180.6	21.73	9.310		
5,000.0	5,000.0	4,936.1	4,924.5	11.1	11.1	-24.40	200.4	-90.9	232.6	210.4	22.20	10.480		
5,100.0	5,100.0	5,019.1	5,002.3	11.4	11.4	-23.59	227.9	-99.5	267.2	244.5	22.68	11.779		

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

Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-079HN - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,200.0	5,200.0	5,100.0	5,076.8	11.6	11.6	-22.89	257.8	-108.8	305.7	282.5	23.19	13.183		
5,300.0	5,300.0	5,176.7	5,146.2	11.8	12.0	-22.32	288.9	-118.6	348.1	324.3	23.73	14.669		
5,400.0	5,400.0	5,251.1	5,212.2	12.0	12.3	-21.83	321.6	-128.8	394.0	369.7	24.29	16.220		
5,500.0	5,500.0	5,324.7	5,276.2	12.2	12.7	-21.40	356.3	-139.6	443.3	418.4	24.88	17.816		
5,600.0	5,600.0	5,410.9	5,350.6	12.5	13.2	-20.99	397.9	-152.7	493.8	468.2	25.58	19.302		
5,700.0	5,699.7	5,496.9	5,424.8	12.7	13.7	-89.50	439.4	-165.6	544.5	519.6	24.93	21.845		
5,800.0	5,797.4	5,581.2	5,497.5	12.9	14.3	-86.70	480.1	-178.4	595.4	570.1	25.36	23.475		
5,900.0	5,891.3	5,662.2	5,567.4	13.2	14.8	-84.83	519.2	-190.6	646.6	620.7	25.83	25.027		
6,000.0	5,979.8	5,738.5	5,633.2	13.5	15.4	-84.73	556.0	-202.1	698.5	672.1	26.35	26.505		
6,100.0	6,066.5	5,813.3	5,697.7	13.9	15.9	-87.96	592.1	-213.4	752.3	725.4	26.91	27.952		
6,200.0	6,153.2	5,888.1	5,762.2	14.4	16.5	-90.84	628.2	-224.7	808.0	780.4	27.54	29.337		
6,300.0	6,240.0	5,962.8	5,826.8	14.9	17.1	-93.41	664.3	-236.0	865.2	836.9	28.23	30.646		
6,400.0	6,327.6	6,038.8	5,892.3	15.5	17.7	-95.05	701.0	-247.5	922.8	893.8	28.99	31.831		
6,500.0	6,422.0	6,123.8	5,965.6	15.8	18.4	-81.18	742.0	-260.3	973.2	943.3	29.92	32.526		
7,200.0	6,925.5	6,654.5	6,423.4	18.3	23.0	55.74	998.2	-340.4	993.4	962.5	30.95	32.099		
7,300.0	6,930.6	6,674.3	6,440.5	19.6	23.2	58.97	1,007.8	-343.4	970.5	937.4	33.09	29.329		
7,400.0	6,930.6	6,689.4	6,453.5	21.3	23.3	59.87	1,015.0	-345.7	955.3	920.6	34.75	27.492		
7,499.8	6,930.6	6,704.3	6,466.4	23.1	23.4	60.76	1,022.2	-347.9	950.2	913.6	36.62	25.947		
7,500.0	6,930.6	6,704.4	6,466.5	23.1	23.4	60.76	1,022.3	-347.9	950.2	913.6	36.62	25.944		
7,600.0	6,930.6	6,719.4	6,479.4	25.1	23.6	61.66	1,029.5	-350.2	955.4	916.7	38.68	24.700		
7,700.0	6,930.6	6,730.5	6,489.0	27.3	23.6	62.32	1,034.9	-351.8	970.6	929.8	40.80	23.790		
7,800.0	6,930.6	6,738.2	6,495.7	29.6	23.7	62.78	1,038.6	-352.8	995.6	952.7	42.97	23.170		

Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-119HC - 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 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	
0.0	0.0	0.0	0.0	0.0	0.0	-16.41	100.2	-29.5	104.4				
100.0	100.0	100.0	100.0	0.1	0.1	-16.41	100.2	-29.5	104.4	104.2	0.22	464.587	
200.0	200.0	200.0	200.0	0.3	0.3	-16.41	100.2	-29.5	104.4	103.7	0.67	154.862	
300.0	300.0	300.0	300.0	0.6	0.6	-16.41	100.2	-29.5	104.4	103.3	1.12	92.917	
400.0	400.0	400.0	400.0	0.8	0.8	-16.41	100.2	-29.5	104.4	102.9	1.57	66.370	
500.0	500.0	500.0	500.0	1.0	1.0	-16.41	100.2	-29.5	104.4	102.4	2.02	51.621	
600.0	600.0	600.0	600.0	1.2	1.2	-16.41	100.2	-29.5	104.4	102.0	2.47	42.235	
700.0	700.0	700.0	700.0	1.5	1.5	-16.41	100.2	-29.5	104.4	101.5	2.92	35.737	
800.0	800.0	800.0	800.0	1.7	1.7	-16.41	100.2	-29.5	104.4	101.1	3.37	30.972	
900.0	900.0	900.0	900.0	1.9	1.9	-16.41	100.2	-29.5	104.4	100.6	3.82	27.329	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-16.41	100.2	-29.5	104.4	100.2	4.27	24.452	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-16.41	100.2	-29.5	104.4	99.7	4.72	22.123	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-16.41	100.2	-29.5	104.4	99.3	5.17	20.199	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-16.41	100.2	-29.5	104.4	98.8	5.62	18.583	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-16.41	100.2	-29.5	104.4	98.4	6.07	17.207	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-16.41	100.2	-29.5	104.4	97.9	6.52	16.020	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-16.41	100.2	-29.5	104.4	97.5	6.97	14.987	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-16.41	100.2	-29.5	104.4	97.0	7.42	14.078	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-16.41	100.2	-29.5	104.4	96.6	7.87	13.274	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-16.41	100.2	-29.5	104.4	96.1	8.32	12.556	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-16.41	100.2	-29.5	104.4	95.7	8.77	11.912	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-16.41	100.2	-29.5	104.4	95.2	9.22	11.331	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-16.41	100.2	-29.5	104.4	94.8	9.66	10.804	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-16.41	100.2	-29.5	104.4	94.3	10.11	10.324	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-16.41	100.2	-29.5	104.4	93.9	10.56	9.885	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-16.41	100.2	-29.5	104.4	93.4	11.01	9.481	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-16.41	100.2	-29.5	104.4	93.0	11.46	9.110	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-16.41	100.2	-29.5	104.4	92.5	11.91	8.766	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-16.41	100.2	-29.5	104.4	92.1	12.36	8.447	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-16.41	100.2	-29.5	104.4	91.6	12.81	8.151	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-16.41	100.2	-29.5	104.4	91.2	13.26	7.874	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-16.41	100.2	-29.5	104.4	90.7	13.71	7.616	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-16.41	100.2	-29.5	104.4	90.3	14.16	7.374	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-16.41	100.2	-29.5	104.4	89.8	14.61	7.147	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-16.41	100.2	-29.5	104.4	89.4	15.06	6.934	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-16.41	100.2	-29.5	104.4	88.9	15.51	6.733	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-16.41	100.2	-29.5	104.4	88.5	15.96	6.543	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-16.41	100.2	-29.5	104.4	88.0	16.41	6.364	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-16.41	100.2	-29.5	104.4	87.6	16.86	6.194	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-16.41	100.2	-29.5	104.4	87.1	17.31	6.034	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-16.41	100.2	-29.5	104.4	86.7	17.76	5.881	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-16.41	100.2	-29.5	104.4	86.2	18.21	5.736	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-16.41	100.2	-29.5	104.4	85.8	18.66	5.597	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-16.41	100.2	-29.5	104.4	85.3	19.11	5.466	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-16.41	100.2	-29.5	104.4	84.9	19.55	5.340	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-16.41	100.2	-29.5	104.4	84.4	20.00	5.220	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-16.41	100.2	-29.5	104.4	84.0	20.45	5.105	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-16.41	100.2	-29.5	104.4	83.5	20.90	4.996	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-16.41	100.2	-29.5	104.4	83.1	21.35	4.890	
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-16.41	100.2	-29.5	104.4	82.6	21.80	4.790	
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-16.41	100.2	-29.5	104.4	82.2	22.25	4.693	
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-16.41	100.2	-29.5	104.4	81.7	22.70	4.600	

Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-119HC - 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	5,200.0	5,200.0	5,200.0	11.6	11.6	-16.41	100.2	-29.5	104.4	81.3	23.15	4.511		
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	-16.41	100.2	-29.5	104.4	80.8	23.60	4.425		
5,333.3	5,333.3	5,333.3	5,333.3	11.9	11.9	-16.41	100.2	-29.5	104.4	80.7	23.75	4.397	CC, ES	
5,400.0	5,400.0	5,395.2	5,395.2	12.0	12.0	-16.56	101.1	-30.1	105.6	81.5	24.04	4.392	SF	
5,500.0	5,500.0	5,484.8	5,484.3	12.2	12.2	-17.69	108.2	-34.5	114.7	90.2	24.46	4.689		
5,600.0	5,600.0	5,572.1	5,570.1	12.5	12.4	-19.45	122.0	-43.1	132.8	107.9	24.87	5.339		
5,700.0	5,699.7	5,655.0	5,649.8	12.7	12.6	-93.94	141.2	-55.0	160.1	134.8	25.28	6.333		
5,800.0	5,797.4	5,730.6	5,720.6	12.9	12.8	-97.11	163.7	-69.0	198.0	172.3	25.65	7.717		
5,900.0	5,891.3	5,800.0	5,783.5	13.2	13.0	-99.73	188.6	-84.5	247.3	221.3	26.01	9.509		
6,000.0	5,979.8	5,853.1	5,830.1	13.5	13.2	-101.41	210.1	-97.9	307.6	281.2	26.38	11.659		
6,100.0	6,066.5	5,921.8	5,889.5	13.9	13.5	-107.60	239.4	-116.1	373.8	347.0	26.73	13.985		
6,200.0	6,153.2	5,990.5	5,948.9	14.4	13.8	-112.13	268.7	-134.3	442.0	414.9	27.12	16.301		
6,300.0	6,240.0	6,059.1	6,008.3	14.9	14.1	-115.54	298.1	-152.6	511.5	483.9	27.57	18.553		
6,400.0	6,327.6	6,129.2	6,068.8	15.5	14.5	-117.40	328.0	-171.2	580.6	552.4	28.20	20.592		
6,500.0	6,422.0	6,210.2	6,138.9	15.8	14.9	-102.28	362.5	-192.7	638.5	609.5	29.03	21.997		
6,600.0	6,520.2	6,300.7	6,217.1	16.1	15.5	-41.58	401.2	-216.7	680.0	650.7	29.34	23.175		
6,700.0	6,617.2	6,396.0	6,299.5	16.2	16.1	-1.12	441.9	-242.0	703.4	674.6	28.82	24.409		
6,800.0	6,708.0	6,491.3	6,381.9	16.3	16.7	12.98	482.5	-267.3	708.3	680.8	27.48	25.777		
6,900.0	6,787.9	6,581.6	6,459.9	16.4	17.4	21.97	521.0	-291.2	695.8	670.1	25.78	26.989		
7,000.0	6,852.8	6,662.3	6,529.7	16.6	18.0	30.61	555.5	-312.7	668.7	643.9	24.79	26.970		
7,100.0	6,899.5	6,729.3	6,587.6	17.3	18.5	40.16	584.1	-330.4	630.8	604.9	25.84	24.411		
7,200.0	6,925.5	6,825.2	6,671.5	18.3	19.2	54.93	625.6	-350.8	586.6	556.2	30.42	19.280		
7,300.0	6,930.6	6,855.1	6,698.2	19.6	19.3	62.46	638.8	-353.2	543.1	509.6	33.54	16.191		
7,400.0	6,930.6	6,861.1	6,703.5	21.3	19.4	63.14	641.5	-353.5	513.6	478.5	35.15	14.613		
7,500.0	6,930.6	6,864.3	6,706.5	23.1	19.4	63.52	642.9	-353.6	502.6	465.7	36.89	13.623		
7,506.0	6,930.6	6,864.5	6,706.6	23.2	19.4	63.53	643.0	-353.6	502.6	465.6	37.01	13.581		
7,600.0	6,930.6	6,866.4	6,708.3	25.1	19.4	63.75	643.9	-353.6	511.3	472.5	38.77	13.187		
7,700.0	6,930.6	6,867.8	6,709.6	27.3	19.4	63.91	644.5	-353.6	538.7	497.9	40.76	13.216		
7,800.0	6,930.6	6,868.9	6,710.5	29.6	19.4	64.03	645.0	-353.7	582.2	539.4	42.84	13.589		
7,900.0	6,930.6	6,875.0	6,716.0	31.9	19.4	64.73	647.7	-353.7	638.6	593.4	45.19	14.133		
8,000.0	6,930.6	6,875.0	6,716.0	34.3	19.4	64.73	647.7	-353.7	704.7	657.3	47.39	14.870		
8,100.0	6,930.6	6,875.0	6,716.0	36.8	19.4	64.73	647.7	-353.7	778.0	728.4	49.64	15.673		
8,200.0	6,930.6	6,875.0	6,716.0	39.3	19.4	64.73	647.7	-353.7	856.8	804.9	51.93	16.498		
8,300.0	6,930.6	6,875.0	6,716.0	41.9	19.4	64.73	647.7	-353.7	939.6	885.4	54.26	17.317		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	-89.98	0.0	-29.5	29.5				
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-29.5	29.5	29.3	0.22	131.237	
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-29.5	29.5	28.8	0.67	43.746	
300.0	300.0	300.0	300.0	0.6	0.6	-89.98	0.0	-29.5	29.5	28.4	1.12	26.247	
400.0	400.0	400.0	400.0	0.8	0.8	-89.98	0.0	-29.5	29.5	27.9	1.57	18.748	
500.0	500.0	500.0	500.0	1.0	1.0	-89.98	0.0	-29.5	29.5	27.5	2.02	14.582	
600.0	600.0	600.0	600.0	1.2	1.2	-89.98	0.0	-29.5	29.5	27.0	2.47	11.931	
700.0	700.0	700.0	700.0	1.5	1.5	-89.98	0.0	-29.5	29.5	26.6	2.92	10.095	
800.0	800.0	800.0	800.0	1.7	1.7	-89.98	0.0	-29.5	29.5	26.1	3.37	8.749	
900.0	900.0	900.0	900.0	1.9	1.9	-89.98	0.0	-29.5	29.5	25.7	3.82	7.720	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-89.98	0.0	-29.5	29.5	25.2	4.27	6.907	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	-89.98	0.0	-29.5	29.5	24.8	4.72	6.249	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-89.98	0.0	-29.5	29.5	24.3	5.17	5.706	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-89.98	0.0	-29.5	29.5	23.9	5.62	5.249	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-89.98	0.0	-29.5	29.5	23.4	6.07	4.861	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	-89.98	0.0	-29.5	29.5	23.0	6.52	4.525	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-89.98	0.0	-29.5	29.5	22.5	6.97	4.233	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-89.98	0.0	-29.5	29.5	22.1	7.42	3.977	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-89.98	0.0	-29.5	29.5	21.6	7.87	3.750	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	-89.98	0.0	-29.5	29.5	21.2	8.32	3.547	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-89.98	0.0	-29.5	29.5	20.7	8.77	3.365	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-89.98	0.0	-29.5	29.5	20.3	9.22	3.201	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-89.98	0.0	-29.5	29.5	19.8	9.66	3.052	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	-89.98	0.0	-29.5	29.5	19.4	10.11	2.916	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-89.98	0.0	-29.5	29.5	18.9	10.56	2.792	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-89.98	0.0	-29.5	29.5	18.5	11.01	2.678	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-89.98	0.0	-29.5	29.5	18.0	11.46	2.573	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	-89.98	0.0	-29.5	29.5	17.6	11.91	2.476	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-89.98	0.0	-29.5	29.5	17.1	12.36	2.386	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-89.98	0.0	-29.5	29.5	16.7	12.81	2.302	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-89.98	0.0	-29.5	29.5	16.2	13.26	2.224	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	-89.98	0.0	-29.5	29.5	15.8	13.71	2.151	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	-89.98	0.0	-29.5	29.5	15.3	14.16	2.083	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	-89.98	0.0	-29.5	29.5	14.9	14.61	2.019	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	-89.98	0.0	-29.5	29.5	14.4	15.06	1.959	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	-89.98	0.0	-29.5	29.5	14.0	15.51	1.902	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	-89.98	0.0	-29.5	29.5	13.5	15.96	1.848	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	-89.98	0.0	-29.5	29.5	13.1	16.41	1.798	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	-89.98	0.0	-29.5	29.5	12.6	16.86	1.750	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	-89.98	0.0	-29.5	29.5	12.2	17.31	1.704	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	-89.98	0.0	-29.5	29.5	11.7	17.76	1.661	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	-89.98	0.0	-29.5	29.5	11.3	18.21	1.620	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	-89.98	0.0	-29.5	29.5	10.8	18.66	1.581	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	-89.98	0.0	-29.5	29.5	10.4	19.11	1.544	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	-89.98	0.0	-29.5	29.5	9.9	19.55	1.508	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	-89.98	0.0	-29.5	29.5	9.5	20.00	1.475 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	-89.98	0.0	-29.5	29.5	9.0	20.45	1.442 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	-89.98	0.0	-29.5	29.5	8.6	20.90	1.411 Level 3	
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	-89.98	0.0	-29.5	29.5	8.1	21.35	1.381 Level 3	
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	-89.98	0.0	-29.5	29.5	7.7	21.80	1.353 Level 3	
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	-89.98	0.0	-29.5	29.5	7.2	22.25	1.326 Level 3	
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	-89.98	0.0	-29.5	29.5	6.8	22.70	1.299 Level 3	

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 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		Offset		Semi Major Axis			Distance							Warning		
Measured Depth 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	-89.98	0.0	-29.5	29.5	6.3	23.15	1.274	Level 3			
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	-89.98	0.0	-29.5	29.5	5.9	23.60	1.250	Level 2			
5,400.0	5,400.0	5,400.0	5,400.0	12.0	12.0	-89.98	0.0	-29.5	29.5	5.4	24.05	1.227	Level 2, CC, ES, SF			
5,500.0	5,500.0	5,497.2	5,497.0	12.2	12.2	-82.59	4.3	-33.3	33.7	9.2	24.49	1.377	Level 3			
5,600.0	5,600.0	5,591.7	5,590.0	12.5	12.5	-69.28	16.8	-44.3	48.4	23.5	24.92	1.943				
5,700.0	5,699.7	5,680.2	5,674.8	12.7	12.7	-134.16	35.6	-61.0	79.5	54.2	25.22	3.151				
5,800.0	5,797.4	5,758.2	5,746.9	12.9	12.9	-131.57	57.8	-80.6	128.4	103.0	25.34	5.065				
5,900.0	5,891.3	5,823.4	5,804.8	13.2	13.1	-129.32	80.2	-100.5	191.8	166.4	25.35	7.565				
6,000.0	5,979.8	5,886.9	5,859.5	13.5	13.3	-128.50	104.4	-121.8	265.4	240.0	25.40	10.448				
6,100.0	6,066.5	5,951.2	5,914.8	13.9	13.6	-131.62	128.9	-143.5	341.2	315.6	25.66	13.297				
6,200.0	6,153.2	6,015.5	5,970.1	14.4	13.9	-133.63	153.4	-165.2	417.4	391.4	26.01	16.049				
6,300.0	6,240.0	6,079.7	6,025.4	14.9	14.2	-135.02	177.9	-186.8	493.6	467.2	26.42	18.682				
6,400.0	6,327.6	6,145.5	6,082.0	15.5	14.6	-134.31	203.0	-209.0	568.7	541.4	27.35	20.796				
6,500.0	6,422.0	6,223.4	6,149.1	15.8	15.1	-116.49	232.7	-235.3	631.0	602.4	28.65	22.025				
6,600.0	6,520.2	7,576.7	6,922.6	16.1	23.2	21.40	584.3	320.7	611.1	572.6	38.53	15.859				
6,700.0	6,617.2	7,560.1	6,922.6	16.2	22.8	73.28	584.1	304.1	538.3	500.6	37.73	14.268				
6,800.0	6,708.0	7,521.8	6,922.6	16.3	22.1	90.06	583.7	265.8	478.4	441.4	36.97	12.942				
6,900.0	6,787.9	7,463.7	6,922.6	16.4	21.1	94.85	583.1	207.7	434.8	398.5	36.36	11.959				
7,000.0	6,852.8	7,388.8	6,922.6	16.6	19.9	94.23	582.3	132.8	407.8	371.8	35.93	11.349				
7,100.0	6,899.5	7,273.7	6,917.9	17.3	18.4	89.47	579.1	18.0	392.3	356.8	35.54	11.038				
7,200.0	6,925.5	7,144.7	6,883.4	18.3	18.4	82.01	562.4	-104.7	376.5	341.1	35.39	10.639				
7,300.0	6,930.6	7,040.4	6,832.7	19.6	18.5	74.17	538.8	-192.4	361.8	326.3	35.57	10.172				
7,400.0	6,930.6	6,963.2	6,783.7	21.3	18.4	65.55	516.3	-247.6	354.9	319.3	35.55	9.981				
7,400.4	6,930.6	6,963.0	6,783.5	21.3	18.4	65.52	516.2	-247.7	354.9	319.3	35.55	9.981				
7,500.0	6,930.6	6,908.2	6,743.8	23.1	18.4	58.51	498.1	-280.7	363.7	328.3	35.45	10.260				
7,600.0	6,930.6	6,868.2	6,712.6	25.1	18.3	53.14	484.0	-301.3	391.7	356.2	35.46	11.044				
7,700.0	6,930.6	6,838.3	6,688.2	27.3	18.3	49.08	472.9	-314.6	437.3	401.6	35.67	12.257				
7,800.0	6,930.6	6,815.2	6,668.8	29.6	18.2	45.99	464.2	-323.5	496.8	460.7	36.08	13.768				
7,900.0	6,930.6	6,800.0	6,655.8	31.9	18.2	43.97	458.3	-328.9	566.5	529.6	36.85	15.373				
8,000.0	6,930.6	6,782.3	6,640.5	34.3	18.2	41.67	451.4	-334.4	643.3	606.0	37.38	17.212				
8,100.0	6,930.6	6,775.0	6,634.1	36.8	18.1	40.74	448.5	-336.5	725.4	686.8	38.55	18.816				
8,200.0	6,930.6	6,760.1	6,621.0	39.3	18.1	38.86	442.6	-340.4	811.0	771.9	39.12	20.729				
8,300.0	6,930.6	6,750.0	6,612.0	41.9	18.1	37.61	438.6	-342.8	899.4	859.4	39.99	22.489				
8,400.0	6,930.6	6,750.0	6,612.0	44.5	18.1	37.61	438.6	-342.8	989.8	948.2	41.64	23.770				

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	-89.98	0.0	-59.6	59.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-59.6	59.6	59.3	0.22	264.951		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-59.6	59.6	58.9	0.67	88.317		
300.0	300.0	300.0	300.0	0.6	0.6	-89.98	0.0	-59.6	59.6	58.4	1.12	52.990		
400.0	400.0	400.0	400.0	0.8	0.8	-89.98	0.0	-59.6	59.6	58.0	1.57	37.850		
500.0	500.0	500.0	500.0	1.0	1.0	-89.98	0.0	-59.6	59.6	57.5	2.02	29.439		
600.0	600.0	600.0	600.0	1.2	1.2	-89.98	0.0	-59.6	59.6	57.1	2.47	24.086		
700.0	700.0	700.0	700.0	1.5	1.5	-89.98	0.0	-59.6	59.6	56.6	2.92	20.381		
800.0	800.0	800.0	800.0	1.7	1.7	-89.98	0.0	-59.6	59.6	56.2	3.37	17.663		
900.0	900.0	900.0	900.0	1.9	1.9	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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 27-179HN
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 27-179HN	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	-89.98	0.0	-59.6	59.6	36.4	23.15	2.572	CC, ES, SF	
5,300.0	5,300.0	5,297.4	5,297.4	11.8	11.8	-89.76	0.3	-61.6	61.7	38.1	23.58	2.615		
5,400.0	5,400.0	5,394.5	5,394.3	12.0	12.0	-89.18	1.0	-67.7	68.0	44.0	24.01	2.832		
5,500.0	5,500.0	5,490.9	5,490.1	12.2	12.2	-88.43	2.1	-77.9	78.5	54.1	24.43	3.214		
5,600.0	5,600.0	5,586.2	5,584.4	12.5	12.4	-87.66	3.8	-91.8	93.2	68.3	24.87	3.748		
5,700.0	5,699.7	5,678.7	5,675.2	12.7	12.6	-160.13	5.7	-109.0	118.3	93.2	25.06	4.722		
5,800.0	5,797.4	5,764.5	5,758.8	12.9	12.8	-160.82	8.0	-128.3	159.5	134.6	24.89	6.407		
5,900.0	5,891.3	5,840.8	5,832.5	13.2	13.0	-161.31	10.2	-148.0	215.4	191.1	24.35	8.846		
6,000.0	5,979.8	5,906.2	5,895.1	13.5	13.2	-161.79	12.4	-166.8	283.9	260.1	23.82	11.921		
6,100.0	6,066.5	5,965.9	5,951.7	13.9	13.4	-163.28	14.6	-185.5	357.0	333.0	24.09	14.820		
6,200.0	6,153.2	6,022.5	6,004.9	14.4	13.6	-164.20	16.8	-204.6	431.9	407.5	24.39	17.705		
6,300.0	6,240.0	6,086.4	6,064.8	14.9	13.8	-164.93	19.4	-227.1	507.8	483.1	24.72	20.538		
6,400.0	6,327.6	6,153.0	6,127.0	15.5	14.1	-161.00	22.1	-250.4	582.3	556.3	25.96	22.430		
6,500.0	6,422.0	7,451.3	6,922.6	15.8	22.5	167.77	62.7	319.9	502.6	468.0	34.62	14.519		
6,600.0	6,520.2	7,457.1	6,922.6	16.1	22.6	-171.43	62.7	325.7	407.1	368.9	38.13	10.676		
6,700.0	6,617.2	7,440.3	6,922.6	16.2	22.3	-153.45	62.7	308.9	315.2	279.6	35.61	8.852		
6,800.0	6,708.0	7,401.9	6,922.6	16.3	21.6	-145.92	62.6	270.4	234.1	200.7	33.41	7.008		
6,900.0	6,787.9	7,343.7	6,922.6	16.4	20.6	-135.24	62.4	212.2	172.2	139.6	32.65	5.275		
7,000.0	6,852.8	7,268.7	6,922.6	16.6	19.3	-119.11	62.3	137.3	137.4	103.7	33.66	4.081		
7,100.0	6,899.5	7,180.3	6,921.0	17.3	18.1	-100.28	61.6	48.9	128.6	93.5	35.08	3.666		
7,102.2	6,900.3	7,178.2	6,920.8	17.3	18.1	-99.85	61.6	46.8	128.6	93.5	35.10	3.664		
7,200.0	6,925.5	7,091.7	6,904.6	18.3	17.1	-81.95	60.1	-38.0	134.5	99.5	35.02	3.841		
7,300.0	6,930.6	7,010.0	6,874.5	19.6	16.4	-67.48	58.1	-113.8	150.2	116.7	33.57	4.475		
7,400.0	6,930.6	6,940.0	6,837.9	21.3	16.1	-56.01	55.9	-173.3	181.3	149.6	31.79	5.704		
7,500.0	6,930.6	6,883.2	6,801.5	23.1	15.9	-47.23	53.8	-216.9	230.1	199.9	30.20	7.619		
7,600.0	6,930.6	6,837.5	6,768.4	25.1	15.8	-41.06	52.0	-248.4	292.5	263.3	29.18	10.024		
7,700.0	6,930.6	6,800.0	6,739.0	27.3	15.7	-36.70	50.4	-271.5	364.5	335.8	28.66	12.715		
7,800.0	6,930.6	6,775.0	6,718.3	29.6	15.7	-34.13	49.3	-285.4	443.0	414.2	28.82	15.373		
7,900.0	6,930.6	6,750.0	6,696.8	31.9	15.7	-31.81	48.2	-298.2	526.0	497.1	28.99	18.145		
8,000.0	6,930.6	6,725.0	6,674.7	34.3	15.7	-29.72	47.1	-309.8	612.4	583.2	29.19	20.980		
8,100.0	6,930.6	6,708.8	6,660.0	36.8	15.7	-28.48	46.3	-316.6	701.2	671.5	29.78	23.545		
8,200.0	6,930.6	6,700.0	6,651.9	39.3	15.7	-27.85	45.9	-320.0	792.0	761.3	30.69	25.804		
8,300.0	6,930.6	6,675.0	6,628.6	41.9	15.6	-26.17	44.8	-329.0	884.1	853.2	30.90	28.609		
8,400.0	6,930.6	6,675.0	6,628.6	44.5	15.6	-26.17	44.8	-329.0	977.4	945.2	32.17	30.385		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	42.38	99.1	90.4	134.2					
100.0	100.0	100.0	100.0	0.1	0.1	42.38	99.1	90.4	134.2	134.0	0.22	596.971		
200.0	200.0	200.0	200.0	0.3	0.3	42.38	99.1	90.4	134.2	133.5	0.67	198.990		
300.0	300.0	300.0	300.0	0.6	0.6	42.38	99.1	90.4	134.2	133.1	1.12	119.394		
400.0	400.0	400.0	400.0	0.8	0.8	42.38	99.1	90.4	134.2	132.6	1.57	85.282		
500.0	500.0	500.0	500.0	1.0	1.0	42.38	99.1	90.4	134.2	132.2	2.02	66.330		
600.0	600.0	600.0	600.0	1.2	1.2	42.38	99.1	90.4	134.2	131.7	2.47	54.270		
700.0	700.0	700.0	700.0	1.5	1.5	42.38	99.1	90.4	134.2	131.3	2.92	45.921		
800.0	800.0	800.0	800.0	1.7	1.7	42.38	99.1	90.4	134.2	130.8	3.37	39.798		
900.0	900.0	900.0	900.0	1.9	1.9	42.38	99.1	90.4	134.2	130.4	3.82	35.116		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	42.38	99.1	90.4	134.2	129.9	4.27	31.420		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	42.38	99.1	90.4	134.2	129.5	4.72	28.427		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	42.38	99.1	90.4	134.2	129.0	5.17	25.955		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	42.38	99.1	90.4	134.2	128.6	5.62	23.879		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	42.38	99.1	90.4	134.2	128.1	6.07	22.110		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	42.38	99.1	90.4	134.2	127.7	6.52	20.585		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	42.38	99.1	90.4	134.2	127.2	6.97	19.257		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	42.38	99.1	90.4	134.2	126.8	7.42	18.090		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	42.38	99.1	90.4	134.2	126.3	7.87	17.056		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	42.38	99.1	90.4	134.2	125.9	8.32	16.134		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	42.38	99.1	90.4	134.2	125.4	8.77	15.307		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	42.38	99.1	90.4	134.2	125.0	9.22	14.560		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	42.38	99.1	90.4	134.2	124.5	9.66	13.883		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	42.38	99.1	90.4	134.2	124.1	10.11	13.266		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	42.38	99.1	90.4	134.2	123.6	10.56	12.702		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	42.38	99.1	90.4	134.2	123.2	11.01	12.183		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	42.38	99.1	90.4	134.2	122.7	11.46	11.705		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	42.38	99.1	90.4	134.2	122.3	11.91	11.264		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	42.38	99.1	90.4	134.2	121.8	12.36	10.854		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	42.38	99.1	90.4	134.2	121.4	12.81	10.473 CC, ES		
3,000.0	3,000.0	2,994.5	2,994.5	6.6	6.6	41.81	101.4	90.7	136.2	123.0	13.25	10.281 SF		
3,100.0	3,100.0	3,088.5	3,088.2	6.9	6.8	40.21	108.3	91.6	142.4	128.7	13.68	10.404		
3,200.0	3,200.0	3,181.7	3,180.6	7.1	7.0	37.85	119.7	93.0	152.8	138.7	14.12	10.823		
3,300.0	3,300.0	3,273.5	3,271.1	7.3	7.3	35.08	135.2	95.0	167.8	153.2	14.56	11.525		
3,400.0	3,400.0	3,363.5	3,359.0	7.5	7.5	32.21	154.7	97.4	187.3	172.3	15.00	12.489		
3,500.0	3,500.0	3,451.6	3,443.9	7.8	7.7	29.45	177.6	100.3	211.5	196.1	15.45	13.687		
3,600.0	3,600.0	3,537.3	3,525.5	8.0	8.0	26.96	203.6	103.6	240.3	224.4	15.93	15.086		
3,700.0	3,700.0	3,620.4	3,603.4	8.2	8.3	24.76	232.3	107.2	273.5	257.1	16.42	16.651		
3,800.0	3,800.0	3,700.0	3,676.8	8.4	8.6	22.89	262.9	111.0	310.9	293.9	16.94	18.348		
3,900.0	3,900.0	3,778.1	3,747.5	8.7	9.0	21.26	295.9	115.1	352.2	334.7	17.51	20.123		
4,000.0	4,000.0	3,852.6	3,813.6	8.9	9.4	19.90	330.0	119.4	397.4	379.3	18.09	21.963		
4,100.0	4,100.0	3,924.0	3,875.6	9.1	9.8	18.74	365.0	123.8	446.0	427.3	18.70	23.852		
4,200.0	4,200.0	4,008.0	3,947.7	9.3	10.4	17.58	407.9	129.2	496.7	477.3	19.43	25.568		
4,300.0	4,300.0	4,093.8	4,021.2	9.6	11.0	16.61	451.6	134.7	547.6	527.4	20.20	27.106		
4,400.0	4,400.0	4,179.5	4,094.8	9.8	11.6	15.80	495.4	140.2	598.5	577.5	21.01	28.488		
4,500.0	4,500.0	4,265.3	4,168.3	10.0	12.3	15.12	539.2	145.7	649.6	627.7	21.84	29.735		
4,600.0	4,600.0	4,351.0	4,241.9	10.2	13.0	14.54	582.9	151.2	700.6	677.9	22.70	30.862		
4,700.0	4,700.0	4,436.8	4,315.4	10.5	13.7	14.04	626.7	156.7	751.8	728.2	23.58	31.882		
4,800.0	4,800.0	4,522.6	4,389.0	10.7	14.4	13.60	670.4	162.2	802.9	778.5	24.47	32.808		
4,900.0	4,900.0	4,608.3	4,462.6	10.9	15.1	13.21	714.2	167.7	854.1	828.8	25.38	33.650		
5,000.0	5,000.0	4,694.1	4,536.1	11.1	15.8	12.87	758.0	173.2	905.4	879.1	26.31	34.417		
5,100.0	5,100.0	4,779.9	4,609.7	11.4	16.6	12.56	801.7	178.7	956.6	929.4	27.24	35.118		

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 27-179HN
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 27-179HN	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

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	31.31	100.2	60.9	117.3					
100.0	100.0	100.0	100.0	0.1	0.1	31.31	100.2	60.9	117.3	117.1	0.22	521.820		
200.0	200.0	200.0	200.0	0.3	0.3	31.31	100.2	60.9	117.3	116.6	0.67	173.940		
300.0	300.0	300.0	300.0	0.6	0.6	31.31	100.2	60.9	117.3	116.2	1.12	104.364		
400.0	400.0	400.0	400.0	0.8	0.8	31.31	100.2	60.9	117.3	115.7	1.57	74.546		
500.0	500.0	500.0	500.0	1.0	1.0	31.31	100.2	60.9	117.3	115.3	2.02	57.980		
600.0	600.0	600.0	600.0	1.2	1.2	31.31	100.2	60.9	117.3	114.8	2.47	47.438		
700.0	700.0	700.0	700.0	1.5	1.5	31.31	100.2	60.9	117.3	114.4	2.92	40.140		
800.0	800.0	800.0	800.0	1.7	1.7	31.31	100.2	60.9	117.3	113.9	3.37	34.788		
900.0	900.0	900.0	900.0	1.9	1.9	31.31	100.2	60.9	117.3	113.5	3.82	30.695		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	31.31	100.2	60.9	117.3	113.0	4.27	27.464		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	31.31	100.2	60.9	117.3	112.6	4.72	24.849		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	31.31	100.2	60.9	117.3	112.1	5.17	22.688		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	31.31	100.2	60.9	117.3	111.7	5.62	20.873		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	31.31	100.2	60.9	117.3	111.2	6.07	19.327		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	31.31	100.2	60.9	117.3	110.8	6.52	17.994		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	31.31	100.2	60.9	117.3	110.3	6.97	16.833		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	31.31	100.2	60.9	117.3	109.9	7.42	15.813		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	31.31	100.2	60.9	117.3	109.4	7.87	14.909		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	31.31	100.2	60.9	117.3	109.0	8.32	14.103		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	31.31	100.2	60.9	117.3	108.5	8.77	13.380		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	31.31	100.2	60.9	117.3	108.1	9.22	12.727		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	31.31	100.2	60.9	117.3	107.6	9.66	12.135		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	31.31	100.2	60.9	117.3	107.2	10.11	11.596		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	31.31	100.2	60.9	117.3	106.7	10.56	11.103		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	31.31	100.2	60.9	117.3	106.3	11.01	10.649		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	31.31	100.2	60.9	117.3	105.8	11.46	10.232		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	31.31	100.2	60.9	117.3	105.4	11.91	9.846		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	31.31	100.2	60.9	117.3	104.9	12.36	9.488		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	31.31	100.2	60.9	117.3	104.5	12.81	9.155		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	31.31	100.2	60.9	117.3	104.0	13.26	8.844		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	31.31	100.2	60.9	117.3	103.6	13.71	8.554		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	31.31	100.2	60.9	117.3	103.1	14.16	8.283		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	31.31	100.2	60.9	117.3	102.7	14.61	8.028		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	31.31	100.2	60.9	117.3	102.2	15.06	7.788		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	31.31	100.2	60.9	117.3	101.8	15.51	7.563		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	31.31	100.2	60.9	117.3	101.3	15.96	7.350		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	31.31	100.2	60.9	117.3	100.9	16.41	7.148		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	31.31	100.2	60.9	117.3	100.4	16.86	6.958		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	31.31	100.2	60.9	117.3	100.0	17.31	6.777 CC, ES		
4,000.0	4,000.0	3,994.4	3,994.4	8.9	8.9	30.94	102.5	61.4	119.6	101.9	17.74	6.742 SF		
4,100.0	4,100.0	4,088.4	4,088.1	9.1	9.1	29.94	109.3	62.9	126.7	108.5	18.18	6.969		
4,200.0	4,200.0	4,181.5	4,180.4	9.3	9.3	28.51	120.4	65.4	138.4	119.8	18.61	7.439		
4,300.0	4,300.0	4,273.2	4,270.8	9.6	9.5	26.88	135.7	68.8	154.9	135.9	19.04	8.135		
4,400.0	4,400.0	4,363.2	4,358.7	9.8	9.7	25.25	154.8	73.0	176.1	156.6	19.48	9.036		
4,500.0	4,500.0	4,451.2	4,443.6	10.0	9.9	23.73	177.3	78.0	201.8	181.8	19.93	10.122		
4,600.0	4,600.0	4,536.8	4,525.1	10.2	10.2	22.40	202.9	83.6	231.9	211.5	20.40	11.369		
4,700.0	4,700.0	4,619.9	4,603.0	10.5	10.5	21.24	231.1	89.9	266.3	245.4	20.88	12.753		
4,800.0	4,800.0	4,700.0	4,676.8	10.7	10.7	20.27	261.4	96.5	304.7	283.3	21.38	14.250		
4,900.0	4,900.0	4,777.6	4,747.0	10.9	11.1	19.44	293.7	103.7	347.0	325.0	21.92	15.830		
5,000.0	5,000.0	4,852.0	4,813.1	11.1	11.4	18.75	327.1	111.1	392.8	370.3	22.47	17.478		
5,100.0	5,100.0	4,928.7	4,879.8	11.4	11.8	18.13	364.1	119.2	441.9	418.8	23.08	19.150		

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 27-179HN
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 27-179HN	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 27-062HN - 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
5,200.0	5,200.0	5,015.3	4,954.8	11.6	12.3	17.55	406.4	128.6	491.7	468.0	23.76	20.692	
5,300.0	5,300.0	5,101.9	5,029.8	11.8	12.9	17.08	448.7	137.9	541.6	517.1	24.49	22.119	
5,400.0	5,400.0	5,188.5	5,104.8	12.0	13.4	16.69	491.0	147.2	591.5	566.3	25.24	23.435	
5,500.0	5,500.0	5,275.1	5,179.8	12.2	14.0	16.36	533.3	156.6	641.4	615.4	26.02	24.650	
5,600.0	5,600.0	5,361.7	5,254.8	12.5	14.6	16.08	575.5	165.9	691.4	664.5	26.82	25.773	
5,700.0	5,699.7	5,449.8	5,331.0	12.7	15.3	-53.92	618.5	175.4	737.9	712.9	24.97	29.549	
5,800.0	5,797.4	5,539.6	5,408.8	12.9	16.0	-52.71	662.4	185.1	777.2	751.9	25.32	30.693	
5,900.0	5,891.3	5,629.3	5,486.5	13.2	16.7	-52.69	706.2	194.8	809.6	784.0	25.57	31.664	
6,000.0	5,979.8	5,717.5	5,562.8	13.5	17.4	-53.98	749.3	204.3	835.6	809.7	25.90	32.255	
6,100.0	6,066.5	5,804.9	5,638.6	13.9	18.1	-56.58	792.0	213.7	861.4	834.8	26.63	32.351	
6,200.0	6,153.2	5,892.4	5,714.3	14.4	18.8	-59.05	834.7	223.1	889.2	861.7	27.43	32.417	
6,300.0	6,240.0	5,979.9	5,790.0	14.9	19.5	-61.39	877.4	232.6	918.6	890.3	28.31	32.449	
6,400.0	6,327.6	6,068.0	5,866.4	15.5	20.2	-61.37	920.5	242.1	949.9	920.5	29.34	32.369	
6,500.0	6,422.0	6,160.6	5,946.6	15.8	21.0	-45.72	965.7	252.1	983.3	952.9	30.40	32.342	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	17.14	100.1	30.9	104.8				
100.0	100.0	100.0	100.0	0.1	0.1	17.14	100.1	30.9	104.8	104.6	0.22	466.270	
200.0	200.0	200.0	200.0	0.3	0.3	17.14	100.1	30.9	104.8	104.1	0.67	155.423	
300.0	300.0	300.0	300.0	0.6	0.6	17.14	100.1	30.9	104.8	103.7	1.12	93.254	
400.0	400.0	400.0	400.0	0.8	0.8	17.14	100.1	30.9	104.8	103.2	1.57	66.610	
500.0	500.0	500.0	500.0	1.0	1.0	17.14	100.1	30.9	104.8	102.8	2.02	51.808	
600.0	600.0	600.0	600.0	1.2	1.2	17.14	100.1	30.9	104.8	102.3	2.47	42.388	
700.0	700.0	700.0	700.0	1.5	1.5	17.14	100.1	30.9	104.8	101.9	2.92	35.867	
800.0	800.0	800.0	800.0	1.7	1.7	17.14	100.1	30.9	104.8	101.4	3.37	31.085	
900.0	900.0	900.0	900.0	1.9	1.9	17.14	100.1	30.9	104.8	101.0	3.82	27.428	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	17.14	100.1	30.9	104.8	100.5	4.27	24.541	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	17.14	100.1	30.9	104.8	100.1	4.72	22.203	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	17.14	100.1	30.9	104.8	99.6	5.17	20.273	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	17.14	100.1	30.9	104.8	99.2	5.62	18.651	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	17.14	100.1	30.9	104.8	98.7	6.07	17.269	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	17.14	100.1	30.9	104.8	98.3	6.52	16.078	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	17.14	100.1	30.9	104.8	97.8	6.97	15.041	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	17.14	100.1	30.9	104.8	97.4	7.42	14.129	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	17.14	100.1	30.9	104.8	96.9	7.87	13.322	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	17.14	100.1	30.9	104.8	96.5	8.32	12.602	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	17.14	100.1	30.9	104.8	96.0	8.77	11.956	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	17.14	100.1	30.9	104.8	95.6	9.22	11.372	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	17.14	100.1	30.9	104.8	95.1	9.66	10.843	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	17.14	100.1	30.9	104.8	94.7	10.11	10.362	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	17.14	100.1	30.9	104.8	94.2	10.56	9.921	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	17.14	100.1	30.9	104.8	93.8	11.01	9.516	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	17.14	100.1	30.9	104.8	93.3	11.46	9.143	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	17.14	100.1	30.9	104.8	92.9	11.91	8.798	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	17.14	100.1	30.9	104.8	92.4	12.36	8.478	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	17.14	100.1	30.9	104.8	92.0	12.81	8.180	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	17.14	100.1	30.9	104.8	91.5	13.26	7.903	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	17.14	100.1	30.9	104.8	91.1	13.71	7.644	
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	17.14	100.1	30.9	104.8	90.6	14.16	7.401	
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	17.14	100.1	30.9	104.8	90.2	14.61	7.173	
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	17.14	100.1	30.9	104.8	89.7	15.06	6.959	
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	17.14	100.1	30.9	104.8	89.3	15.51	6.758	
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	17.14	100.1	30.9	104.8	88.8	15.96	6.567	
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	17.14	100.1	30.9	104.8	88.4	16.41	6.387	
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	17.14	100.1	30.9	104.8	87.9	16.86	6.217	
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	17.14	100.1	30.9	104.8	87.5	17.31	6.055	
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	17.14	100.1	30.9	104.8	87.0	17.76	5.902	
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	17.14	100.1	30.9	104.8	86.6	18.21	5.756	
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	17.14	100.1	30.9	104.8	86.1	18.66	5.618	
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	17.14	100.1	30.9	104.8	85.7	19.11	5.486	
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	17.14	100.1	30.9	104.8	85.2	19.55	5.359	
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	17.14	100.1	30.9	104.8	84.8	20.00	5.239	
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	17.14	100.1	30.9	104.8	84.3	20.45	5.124 CC, ES, SF	
4,700.0	4,700.0	4,694.7	4,694.7	10.5	10.4	17.17	102.4	31.6	107.3	86.4	20.89	5.136	
4,800.0	4,800.0	4,789.0	4,788.7	10.7	10.7	17.24	109.0	33.8	114.7	93.4	21.32	5.380	
4,900.0	4,900.0	4,882.3	4,881.3	10.9	10.9	17.34	119.9	37.4	127.0	105.3	21.75	5.839	
5,000.0	5,000.0	4,974.3	4,971.9	11.1	11.1	17.45	134.9	42.4	144.1	121.9	22.19	6.496	
5,100.0	5,100.0	5,064.6	5,060.0	11.4	11.3	17.55	153.5	48.6	165.9	143.3	22.63	7.332	

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

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-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	5,200.0	5,152.8	5,145.1	11.6	11.5	17.65	175.6	55.9	192.2	169.2	23.08	8.331	
5,300.0	5,300.0	5,238.7	5,226.8	11.8	11.7	17.73	200.6	64.1	222.9	199.4	23.54	9.471	
5,400.0	5,400.0	5,321.9	5,304.9	12.0	12.0	17.80	228.1	73.3	257.8	233.8	24.02	10.734	
5,500.0	5,500.0	5,400.0	5,376.8	12.2	12.3	17.86	256.9	82.8	296.7	272.2	24.51	12.106	
5,600.0	5,600.0	5,479.9	5,449.1	12.5	12.6	17.91	289.2	93.5	339.3	314.3	25.04	13.550	
5,700.0	5,699.7	5,555.9	5,516.5	12.7	12.9	-52.51	322.5	104.5	381.9	356.9	24.99	15.280	
5,800.0	5,797.4	5,634.2	5,584.4	12.9	13.3	-51.90	359.5	116.7	420.5	395.3	25.20	16.692	
5,900.0	5,891.3	5,725.2	5,662.9	13.2	13.8	-53.04	403.3	131.3	453.3	428.0	25.36	17.876	
6,000.0	5,979.8	5,815.2	5,740.4	13.5	14.3	-55.75	446.6	145.6	480.4	454.7	25.72	18.680	
6,100.0	6,066.5	5,904.6	5,817.5	13.9	14.9	-59.70	489.7	159.9	508.0	481.5	26.52	19.157	
6,200.0	6,153.2	5,994.1	5,894.6	14.4	15.5	-63.28	532.8	174.1	537.9	510.5	27.39	19.636	
6,300.0	6,240.0	6,083.5	5,971.7	14.9	16.1	-66.52	575.9	188.4	569.7	541.3	28.34	20.100	
6,400.0	6,327.6	6,173.6	6,049.2	15.5	16.7	-67.27	619.2	202.7	603.1	573.7	29.43	20.496	
6,500.0	6,422.0	6,267.1	6,129.9	15.8	17.4	-51.45	664.3	217.7	636.8	606.4	30.42	20.937	
6,600.0	6,520.2	6,360.7	6,210.5	16.1	18.1	8.76	709.3	232.6	668.4	637.3	31.12	21.479	
6,700.0	6,617.2	6,449.5	6,287.1	16.2	18.8	48.23	752.1	246.7	697.5	666.0	31.51	22.137	
6,800.0	6,708.0	6,529.0	6,355.6	16.3	19.5	60.34	790.4	259.4	725.6	693.9	31.69	22.897	
6,900.0	6,787.9	6,595.1	6,412.5	16.4	20.0	65.25	822.2	269.9	755.0	723.2	31.82	23.727	
7,000.0	6,852.8	6,644.4	6,455.0	16.6	20.4	66.61	845.9	277.8	787.9	755.9	31.99	24.632	
7,100.0	6,899.5	6,674.3	6,480.8	17.3	20.6	64.96	860.4	282.6	825.4	793.3	32.09	25.721	
7,200.0	6,925.5	6,683.4	6,488.7	18.3	20.7	60.53	864.8	284.0	867.2	835.4	31.87	27.214	
7,300.0	6,930.6	6,672.3	6,479.1	19.6	20.6	55.83	859.4	282.3	911.9	880.2	31.70	28.767	
7,400.0	6,930.6	6,656.3	6,465.3	21.3	20.5	54.71	851.7	279.7	963.0	930.3	32.69	29.457	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	0.32	100.2	0.6	100.2					
100.0	100.0	100.0	100.0	0.1	0.1	0.32	100.2	0.6	100.2	100.0	0.22	445.854		
200.0	200.0	200.0	200.0	0.3	0.3	0.32	100.2	0.6	100.2	99.5	0.67	148.618		
300.0	300.0	300.0	300.0	0.6	0.6	0.32	100.2	0.6	100.2	99.1	1.12	89.171		
400.0	400.0	400.0	400.0	0.8	0.8	0.32	100.2	0.6	100.2	98.6	1.57	63.693		
500.0	500.0	500.0	500.0	1.0	1.0	0.32	100.2	0.6	100.2	98.2	2.02	49.539		
600.0	600.0	600.0	600.0	1.2	1.2	0.32	100.2	0.6	100.2	97.7	2.47	40.532		
700.0	700.0	700.0	700.0	1.5	1.5	0.32	100.2	0.6	100.2	97.3	2.92	34.296		
800.0	800.0	800.0	800.0	1.7	1.7	0.32	100.2	0.6	100.2	96.8	3.37	29.724		
900.0	900.0	900.0	900.0	1.9	1.9	0.32	100.2	0.6	100.2	96.4	3.82	26.227		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	0.32	100.2	0.6	100.2	95.9	4.27	23.466		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	0.32	100.2	0.6	100.2	95.5	4.72	21.231		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	0.32	100.2	0.6	100.2	95.0	5.17	19.385		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	0.32	100.2	0.6	100.2	94.6	5.62	17.834		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	0.32	100.2	0.6	100.2	94.1	6.07	16.513		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	0.32	100.2	0.6	100.2	93.7	6.52	15.374		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	0.32	100.2	0.6	100.2	93.2	6.97	14.382		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	0.32	100.2	0.6	100.2	92.8	7.42	13.511		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	0.32	100.2	0.6	100.2	92.3	7.87	12.739		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	0.32	100.2	0.6	100.2	91.9	8.32	12.050		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	0.32	100.2	0.6	100.2	91.4	8.77	11.432		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	0.32	100.2	0.6	100.2	91.0	9.22	10.874		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	0.32	100.2	0.6	100.2	90.5	9.66	10.369		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	0.32	100.2	0.6	100.2	90.1	10.11	9.908		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	0.32	100.2	0.6	100.2	89.6	10.56	9.486		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	0.32	100.2	0.6	100.2	89.2	11.01	9.099		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	0.32	100.2	0.6	100.2	88.7	11.46	8.742		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	0.32	100.2	0.6	100.2	88.3	11.91	8.412		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	0.32	100.2	0.6	100.2	87.9	12.36	8.106		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	0.32	100.2	0.6	100.2	87.4	12.81	7.822		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	0.32	100.2	0.6	100.2	87.0	13.26	7.557		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	0.32	100.2	0.6	100.2	86.5	13.71	7.309		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	0.32	100.2	0.6	100.2	86.1	14.16	7.077		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	0.32	100.2	0.6	100.2	85.6	14.61	6.859		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	0.32	100.2	0.6	100.2	85.2	15.06	6.655		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	0.32	100.2	0.6	100.2	84.7	15.51	6.462		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	0.32	100.2	0.6	100.2	84.3	15.96	6.280		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	0.32	100.2	0.6	100.2	83.8	16.41	6.108		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	0.32	100.2	0.6	100.2	83.4	16.86	5.945		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	0.32	100.2	0.6	100.2	82.9	17.31	5.790		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	0.32	100.2	0.6	100.2	82.5	17.76	5.644		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	0.32	100.2	0.6	100.2	82.0	18.21	5.504		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	0.32	100.2	0.6	100.2	81.6	18.66	5.372		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	0.32	100.2	0.6	100.2	81.1	19.11	5.245		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	0.32	100.2	0.6	100.2	80.7	19.55	5.125		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	0.32	100.2	0.6	100.2	80.2	20.00	5.010		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	0.32	100.2	0.6	100.2	79.8	20.45	4.899		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	0.32	100.2	0.6	100.2	79.3	20.90	4.794		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	0.32	100.2	0.6	100.2	78.9	21.35	4.693 CC, ES		
4,900.0	4,900.0	4,895.5	4,895.5	10.9	10.9	0.95	102.3	1.7	102.4	80.6	21.79	4.701		
5,000.0	5,000.0	4,990.5	4,990.2	11.1	11.1	2.68	108.6	5.1	109.1	86.9	22.22	4.911		
5,100.0	5,100.0	5,084.6	5,083.5	11.4	11.3	5.11	118.8	10.6	120.4	97.8	22.65	5.316		

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 27-179HN
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 27-179HN	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	5,177.3	5,174.9	11.6	11.5	7.81	132.9	18.2	136.5	113.4	23.09	5.911	
5,300.0	5,300.0	5,268.3	5,263.6	11.8	11.7	10.44	150.5	27.7	157.3	133.7	23.53	6.684	
5,400.0	5,400.0	5,357.1	5,349.2	12.0	12.0	12.82	171.2	38.9	182.7	158.8	23.98	7.620	
5,500.0	5,500.0	5,443.5	5,431.4	12.2	12.2	14.86	194.7	51.6	212.8	188.3	24.45	8.701	
5,600.0	5,600.0	5,527.3	5,509.8	12.5	12.5	16.58	220.5	65.6	247.1	222.2	24.94	9.909	
5,700.0	5,699.7	5,609.7	5,585.7	12.7	12.8	-53.36	248.9	81.0	281.9	256.8	25.11	11.225	
5,800.0	5,797.4	5,691.8	5,659.8	12.9	13.1	-52.77	280.1	97.8	312.9	287.6	25.32	12.357	
5,900.0	5,891.3	5,772.8	5,731.3	13.2	13.5	-53.67	313.5	115.9	340.4	314.9	25.47	13.364	
6,000.0	5,979.8	5,858.9	5,805.7	13.5	13.9	-56.36	351.4	136.4	365.1	339.2	25.84	14.127	
6,100.0	6,066.5	5,951.7	5,885.8	13.9	14.4	-60.48	392.8	158.8	390.2	363.5	26.69	14.620	
6,200.0	6,153.2	6,044.5	5,965.8	14.4	15.0	-64.12	434.1	181.2	417.2	389.6	27.62	15.104	
6,300.0	6,240.0	6,137.3	6,045.9	14.9	15.6	-67.34	475.5	203.5	445.6	417.0	28.63	15.565	
6,400.0	6,327.6	6,230.6	6,126.3	15.5	16.2	-67.69	517.0	226.0	475.2	445.5	29.76	15.970	
6,500.0	6,422.0	6,325.9	6,208.5	15.8	16.9	-50.57	559.5	249.0	504.7	474.0	30.73	16.426	
6,600.0	6,520.2	6,419.4	6,289.1	16.1	17.5	11.22	601.1	271.5	532.6	501.2	31.37	16.974	
6,700.0	6,617.2	6,506.3	6,364.0	16.2	18.2	52.10	639.8	292.4	559.8	528.0	31.76	17.626	
6,800.0	6,708.0	6,582.2	6,429.4	16.3	18.8	65.08	673.6	310.7	589.0	557.0	32.03	18.391	
6,900.0	6,787.9	6,660.1	6,497.4	16.4	19.3	71.14	708.7	325.1	622.6	590.3	32.31	19.269	
7,000.0	6,852.8	6,758.7	6,584.9	16.6	19.8	75.41	753.6	324.0	659.6	626.8	32.81	20.107	
7,100.0	6,899.5	6,901.4	6,706.4	17.3	20.4	80.37	815.7	284.2	697.1	663.5	33.67	20.706	
7,200.0	6,925.5	7,156.3	6,872.7	18.3	20.9	87.57	899.7	115.5	727.3	692.1	35.20	20.661	
7,300.0	6,930.6	7,437.1	6,930.6	19.6	21.6	90.00	927.0	-153.5	733.6	694.5	39.05	18.785	
7,400.0	6,930.6	7,537.1	6,930.6	21.3	22.6	90.00	926.0	-253.5	732.8	690.7	42.15	17.385	
7,500.0	6,930.6	7,637.1	6,930.6	23.1	24.0	90.00	925.1	-353.5	732.0	686.3	45.74	16.003	
7,600.0	6,930.6	7,737.1	6,930.6	25.1	25.9	90.00	924.2	-453.5	731.3	681.6	49.71	14.711	
7,700.0	6,930.6	7,837.1	6,930.6	27.3	27.9	90.00	923.3	-553.5	730.5	676.6	53.97	13.535	
7,800.0	6,930.6	7,937.1	6,930.6	29.6	30.0	90.00	922.4	-653.5	729.8	671.3	58.47	12.482	
7,900.0	6,930.6	8,037.1	6,930.6	31.9	32.3	90.00	921.5	-753.5	729.0	665.9	63.14	11.547	
8,000.0	6,930.6	8,137.1	6,930.6	34.3	34.6	90.00	920.6	-853.5	728.3	660.3	67.95	10.718	
8,100.0	6,930.6	8,237.1	6,930.6	36.8	37.0	90.00	919.7	-953.5	727.5	654.6	72.88	9.982	
8,200.0	6,930.6	8,337.1	6,930.6	39.3	39.4	90.00	918.7	-1,053.5	726.8	648.9	77.90	9.329	
8,300.0	6,930.6	8,437.1	6,930.6	41.9	41.9	90.00	917.8	-1,153.5	726.0	643.0	83.00	8.747	
8,400.0	6,930.6	8,537.1	6,930.6	44.5	44.5	90.00	916.9	-1,253.5	725.3	637.1	88.16	8.226	
8,500.0	6,930.6	8,637.1	6,930.6	47.1	47.0	90.00	916.0	-1,353.5	724.5	631.1	93.38	7.759	
8,600.0	6,930.6	8,737.1	6,930.6	49.7	49.6	90.00	915.1	-1,453.5	723.7	625.1	98.63	7.338	
8,700.0	6,930.6	8,837.1	6,930.6	52.4	52.2	90.00	914.2	-1,553.4	723.0	619.1	103.93	6.957	
8,800.0	6,930.6	8,937.1	6,930.6	55.1	54.9	90.00	913.3	-1,653.4	722.2	613.0	109.25	6.611	
8,900.0	6,930.6	9,037.1	6,930.6	57.7	57.5	90.00	912.4	-1,753.4	721.5	606.9	114.61	6.295	
9,000.0	6,930.6	9,137.1	6,930.6	60.4	60.2	90.00	911.4	-1,853.4	720.7	600.7	119.99	6.007	
9,100.0	6,930.6	9,237.1	6,930.6	63.1	62.8	90.00	910.5	-1,953.4	720.0	594.6	125.38	5.742	
9,200.0	6,930.6	9,337.1	6,930.6	65.8	65.5	90.00	909.6	-2,053.4	719.2	588.4	130.80	5.499	
9,300.0	6,930.6	9,437.1	6,930.6	68.6	68.2	90.00	908.7	-2,153.4	718.5	582.2	136.23	5.274	
9,400.0	6,930.6	9,537.1	6,930.6	71.3	70.9	90.00	907.8	-2,253.4	717.7	576.0	141.68	5.066	
9,500.0	6,930.6	9,637.1	6,930.6	74.0	73.6	90.00	906.9	-2,353.4	717.0	569.8	147.14	4.873	
9,600.0	6,930.6	9,737.1	6,930.6	76.8	76.3	90.00	906.0	-2,453.4	716.2	563.6	152.61	4.693	
9,700.0	6,930.6	9,837.1	6,930.6	79.5	79.1	90.00	905.1	-2,553.4	715.4	557.4	158.09	4.525	
9,800.0	6,930.6	9,937.1	6,930.6	82.2	81.8	90.00	904.1	-2,653.4	714.7	551.1	163.58	4.369	
9,900.0	6,930.6	10,037.1	6,930.6	85.0	84.5	90.00	903.2	-2,753.4	713.9	544.9	169.08	4.222	
10,000.0	6,930.6	10,137.1	6,930.6	87.7	87.2	90.00	902.3	-2,853.4	713.2	538.6	174.58	4.085	
10,100.0	6,930.6	10,237.1	6,930.6	90.5	90.0	90.00	901.4	-2,953.3	712.4	532.3	180.10	3.956	
10,200.0	6,930.6	10,337.0	6,930.6	93.3	92.7	90.00	900.5	-3,053.3	711.7	526.1	185.61	3.834	
10,300.0	6,930.6	10,437.0	6,930.6	96.0	95.5	90.00	899.6	-3,153.3	710.9	519.8	191.14	3.719	

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 27-179HN
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 27-179HN	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	10,537.0	6,930.6	98.8	98.2	90.00	898.7	-3,253.3	710.2	513.5	196.67	3.611	
10,500.0	6,930.6	10,637.0	6,930.6	101.6	101.0	90.00	897.8	-3,353.3	709.4	507.2	202.20	3.508	
10,600.0	6,930.6	10,737.0	6,930.6	104.3	103.7	90.00	896.8	-3,453.3	708.6	500.9	207.74	3.411	
10,700.0	6,930.6	10,837.0	6,930.6	107.1	106.5	90.00	895.9	-3,553.3	707.9	494.6	213.28	3.319	
10,800.0	6,930.6	10,937.0	6,930.6	109.9	109.3	90.00	895.0	-3,653.3	707.1	488.3	218.83	3.232	
10,900.0	6,930.6	11,037.0	6,930.6	112.7	112.0	90.00	894.1	-3,753.3	706.4	482.0	224.37	3.148	
11,000.0	6,930.6	11,137.0	6,930.6	115.4	114.8	90.00	893.2	-3,853.3	705.6	475.7	229.93	3.069	
11,100.0	6,930.6	11,237.0	6,930.6	118.2	117.6	90.00	892.3	-3,953.3	704.9	469.4	235.48	2.993	
11,200.0	6,930.6	11,337.0	6,930.6	121.0	120.3	90.00	891.4	-4,053.3	704.1	463.1	241.04	2.921	
11,300.0	6,930.6	11,437.0	6,930.6	123.8	123.1	90.00	890.5	-4,153.3	703.4	456.8	246.60	2.852	
11,400.0	6,930.6	11,537.0	6,930.6	126.6	125.9	90.00	889.5	-4,253.3	702.6	450.4	252.16	2.786	
11,500.0	6,930.6	11,637.0	6,930.6	129.3	128.7	90.00	888.6	-4,353.2	701.9	444.1	257.73	2.723	
11,600.0	6,930.6	11,737.0	6,930.6	132.1	131.4	90.00	887.7	-4,453.2	701.1	437.8	263.29	2.663	
11,700.0	6,930.6	11,837.0	6,930.6	134.9	134.2	90.00	886.8	-4,553.2	700.3	431.5	268.86	2.605	
11,800.0	6,930.6	11,937.0	6,930.6	137.7	137.0	90.00	885.9	-4,653.2	699.6	425.2	274.43	2.549	
11,900.0	6,930.6	12,037.0	6,930.6	140.5	139.8	90.00	885.0	-4,753.2	698.8	418.8	280.01	2.496	
12,000.0	6,930.6	12,137.0	6,930.6	143.3	142.5	90.00	884.1	-4,853.2	698.1	412.5	285.58	2.444	
12,100.0	6,930.6	12,237.0	6,930.6	146.1	145.3	90.00	883.2	-4,953.2	697.3	406.2	291.15	2.395	
12,200.0	6,930.6	12,337.0	6,930.6	148.9	148.1	90.00	882.2	-5,053.2	696.6	399.8	296.73	2.347	
12,300.0	6,930.6	12,437.0	6,930.6	151.6	150.9	90.00	881.3	-5,153.2	695.8	393.5	302.31	2.302	
12,400.0	6,930.6	12,537.0	6,930.6	154.4	153.7	90.00	880.4	-5,253.2	695.1	387.2	307.89	2.257	
12,500.0	6,930.6	12,637.0	6,930.6	157.2	156.5	90.00	879.5	-5,353.2	694.3	380.8	313.47	2.215	
12,600.0	6,930.6	12,737.0	6,930.6	160.0	159.2	90.00	878.6	-5,453.2	693.6	374.5	319.05	2.174	
12,700.0	6,930.6	12,837.0	6,930.6	162.8	162.0	90.00	877.7	-5,553.2	692.8	368.2	324.64	2.134	
12,800.0	6,930.6	12,937.0	6,930.6	165.6	164.8	90.00	876.8	-5,653.2	692.0	361.8	330.22	2.096	
12,900.0	6,930.6	13,037.0	6,930.6	168.4	167.6	90.00	875.9	-5,753.1	691.3	355.5	335.81	2.059	
13,000.0	6,930.6	13,137.0	6,930.6	171.2	170.4	90.00	874.9	-5,853.1	690.5	349.1	341.39	2.023	
13,100.0	6,930.6	13,237.0	6,930.6	174.0	173.2	90.00	874.0	-5,953.1	689.8	342.8	346.98	1.988	
13,200.0	6,930.6	13,337.0	6,930.6	176.8	176.0	90.00	873.1	-6,053.1	689.0	336.5	352.57	1.954	
13,300.0	6,930.6	13,437.0	6,930.6	179.6	178.8	90.00	872.2	-6,153.1	688.3	330.1	358.16	1.922	
13,400.0	6,930.6	13,537.0	6,930.6	182.4	181.6	90.00	871.3	-6,253.1	687.5	323.8	363.74	1.890	
13,500.0	6,930.6	13,637.0	6,930.6	185.2	184.3	90.00	870.4	-6,353.1	686.8	317.4	369.33	1.859	
13,600.0	6,930.6	13,737.0	6,930.6	188.0	187.1	90.00	869.5	-6,453.1	686.0	311.1	374.93	1.830	
13,700.0	6,930.6	13,836.9	6,930.6	190.8	189.9	90.00	868.5	-6,553.1	685.2	304.7	380.52	1.801	
13,800.0	6,930.6	13,936.9	6,930.6	193.6	192.7	90.00	867.6	-6,653.1	684.5	298.4	386.11	1.773	
13,843.9	6,930.6	13,975.7	6,930.6	194.8	193.8	90.00	867.3	-6,691.8	684.2	295.8	388.42	1.761	
13,846.6	6,930.6	13,975.7	6,930.6	194.9	193.8	90.00	867.3	-6,691.8	684.2	295.7	388.50	1.761 SF	

Offset Design		Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-179HC - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	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		
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	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	30.1	30.1	6.9	23.15	1.298	Level 3	
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	90.02	0.0	30.1	30.1	6.5	23.60	1.273	Level 3	
5,400.0	5,400.0	5,400.0	5,400.0	12.0	12.0	90.02	0.0	30.1	30.1	6.0	24.05	1.250	Level 2	
5,500.0	5,500.0	5,498.9	5,498.8	12.2	12.2	90.28	-0.2	31.8	31.9	7.4	24.48	1.301	Level 3	
5,600.0	5,600.0	5,597.5	5,597.3	12.5	12.4	90.89	-0.6	37.2	37.3	12.4	24.90	1.497	Level 3	
5,700.0	5,699.7	5,696.0	5,695.4	12.7	12.6	22.03	-1.3	46.0	39.8	14.6	25.12	1.583		
5,800.0	5,797.4	5,794.0	5,792.7	12.9	12.8	35.29	-2.3	58.4	33.9	8.7	25.16	1.347	Level 3	
5,900.0	5,891.3	5,890.9	5,888.3	13.2	13.0	72.01	-3.5	74.0	26.6	0.6	26.01	1.024	Level 2	
5,905.6	5,896.5	5,896.4	5,893.6	13.2	13.1	75.04	-3.6	74.9	26.6	0.5	26.09	1.019	Level 2, CC	
6,000.0	5,979.8	5,986.0	5,981.5	13.5	13.3	121.17	-5.0	92.6	38.8	12.8	26.02	1.491	Level 3	
6,100.0	6,066.5	6,081.8	6,074.7	13.9	13.5	139.96	-6.7	114.5	65.5	39.9	25.62	2.556		
6,200.0	6,153.2	6,179.2	6,168.7	14.4	13.8	145.99	-8.7	140.2	92.9	67.0	25.84	3.593		
6,300.0	6,240.0	6,278.1	6,263.0	14.9	14.1	147.91	-11.1	169.7	118.6	92.2	26.33	4.503		
6,400.0	6,327.6	6,378.5	6,357.6	15.5	14.4	152.16	-13.7	203.1	140.9	113.5	27.42	5.138		
6,500.0	6,422.0	6,478.1	6,450.4	15.8	14.8	167.24	-16.6	239.5	150.7	121.5	29.12	5.174		
6,600.0	6,520.2	6,570.9	6,536.3	16.1	15.2	-142.08	-19.4	274.1	153.5	123.0	30.48	5.036		
6,700.0	6,617.2	6,652.3	6,614.2	16.2	15.5	-114.50	-21.9	297.6	163.1	131.9	31.23	5.221		
6,800.0	6,708.0	6,741.4	6,702.6	16.3	15.7	-113.54	-24.7	305.7	184.4	153.1	31.36	5.882		
6,900.0	6,787.9	6,842.3	6,802.4	16.4	15.8	-117.46	-28.0	292.1	213.8	182.9	30.88	6.923		
7,000.0	6,852.8	6,960.7	6,911.1	16.6	15.9	-121.83	-31.6	246.5	245.8	215.7	30.05	8.181		
7,100.0	6,899.5	7,102.9	7,018.6	17.3	16.2	-125.59	-35.2	154.5	274.4	245.0	29.40	9.332		
7,200.0	6,925.5	7,271.1	7,097.7	18.3	17.2	-128.04	-38.0	7.4	293.0	263.0	29.95	9.782		
7,300.0	6,930.6	7,428.2	7,115.6	19.6	19.0	-128.56	-38.7	-147.9	296.8	264.6	32.22	9.213		
7,400.0	6,930.6	7,528.5	7,115.6	21.3	20.6	-128.65	-38.1	-248.2	296.2	261.5	34.69	8.540		
7,500.0	6,930.6	7,628.5	7,115.6	23.1	22.4	-128.74	-37.5	-348.2	295.6	258.1	37.50	7.884		
7,600.0	6,930.6	7,728.5	7,115.6	25.1	24.3	-128.84	-36.8	-448.2	295.0	254.4	40.60	7.267		
7,700.0	6,930.6	7,828.5	7,115.6	27.3	26.5	-128.93	-36.2	-548.2	294.4	250.5	43.92	6.704		
7,800.0	6,930.6	7,928.5	7,115.6	29.6	28.7	-129.02	-35.6	-648.2	293.8	246.4	47.42	6.197		
7,900.0	6,930.6	8,028.5	7,115.6	31.9	31.0	-129.12	-35.0	-748.2	293.2	242.2	51.05	5.744		
8,000.0	6,930.6	8,128.5	7,115.6	34.3	33.5	-129.21	-34.4	-848.2	292.7	237.9	54.80	5.341		
8,100.0	6,930.6	8,228.5	7,115.6	36.8	35.9	-129.30	-33.8	-948.2	292.1	233.4	58.62	4.982		
8,200.0	6,930.6	8,328.5	7,115.6	39.3	38.4	-129.40	-33.2	-1,048.2	291.5	229.0	62.51	4.663		
8,300.0	6,930.6	8,428.5	7,115.6	41.9	41.0	-129.49	-32.6	-1,148.2	290.9	224.4	66.45	4.377		
8,400.0	6,930.6	8,528.5	7,115.6	44.5	43.6	-129.59	-32.0	-1,248.2	290.3	219.9	70.43	4.121		
8,500.0	6,930.6	8,628.5	7,115.6	47.1	46.2	-129.69	-31.4	-1,348.2	289.7	215.3	74.45	3.891		
8,600.0	6,930.6	8,728.5	7,115.6	49.7	48.8	-129.78	-30.8	-1,448.2	289.1	210.6	78.49	3.684		
8,700.0	6,930.6	8,828.5	7,115.6	52.4	51.5	-129.88	-30.2	-1,548.2	288.5	206.0	82.55	3.495		
8,800.0	6,930.6	8,928.5	7,115.6	55.1	54.1	-129.98	-29.6	-1,648.2	287.9	201.3	86.62	3.324		
8,900.0	6,930.6	9,028.5	7,115.6	57.7	56.8	-130.08	-29.0	-1,748.2	287.4	196.7	90.71	3.168		
9,000.0	6,930.6	9,128.4	7,115.6	60.4	59.5	-130.17	-28.4	-1,848.2	286.8	192.0	94.80	3.025		
9,100.0	6,930.6	9,228.4	7,115.6	63.1	62.2	-130.27	-27.8	-1,948.2	286.2	187.3	98.90	2.894		
9,200.0	6,930.6	9,328.4	7,115.6	65.8	64.9	-130.37	-27.2	-2,048.2	285.6	182.6	103.01	2.773		
9,300.0	6,930.6	9,428.4	7,115.6	68.6	67.7	-130.47	-26.6	-2,148.2	285.0	177.9	107.11	2.661		
9,400.0	6,930.6	9,528.4	7,115.6	71.3	70.4	-130.57	-26.0	-2,248.2	284.5	173.2	111.21	2.558		
9,500.0	6,930.6	9,628.4	7,115.6	74.0	73.1	-130.67	-25.4	-2,348.1	283.9	168.6	115.32	2.462		
9,600.0	6,930.6	9,728.4	7,115.6	76.8	75.9	-130.77	-24.7	-2,448.1	283.3	163.9	119.41	2.372		
9,700.0	6,930.6	9,828.4	7,115.6	79.5	78.6	-130.87	-24.1	-2,548.1	282.7	159.2	123.51	2.289		
9,800.0	6,930.6	9,928.4	7,115.6	82.2	81.4	-130.97	-23.5	-2,648.1	282.1	154.5	127.60	2.211		
9,900.0	6,930.6	10,028.4	7,115.6	85.0	84.1	-131.07	-22.9	-2,748.1	281.6	149.9	131.68	2.138		
10,000.0	6,930.6	10,128.4	7,115.6	87.7	86.9	-131.18	-22.3	-2,848.1	281.0	145.2	135.76	2.070		
10,100.0	6,930.6	10,228.4	7,115.6	90.5	89.6	-131.28	-21.7	-2,948.1	280.4	140.6	139.83	2.005		
10,200.0	6,930.6	10,328.4	7,115.6	93.3	92.4	-131.38	-21.1	-3,048.1	279.8	136.0	143.89	1.945		

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 27-179HN
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 27-179HN	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		
10,300.0	6,930.6	10,428.4	7,115.6	96.0	95.1	-131.49	-20.5	-3,148.1	279.3	131.3	147.94	1.888		
10,400.0	6,930.6	10,528.4	7,115.6	98.8	97.9	-131.59	-19.9	-3,248.1	278.7	126.7	151.99	1.834		
10,500.0	6,930.6	10,628.4	7,115.6	101.6	100.7	-131.69	-19.3	-3,348.1	278.1	122.1	156.02	1.783		
10,600.0	6,930.6	10,728.4	7,115.6	104.3	103.5	-131.80	-18.7	-3,448.1	277.6	117.5	160.05	1.734		
10,700.0	6,930.6	10,828.4	7,115.6	107.1	106.2	-131.90	-18.1	-3,548.1	277.0	112.9	164.06	1.688		
10,800.0	6,930.6	10,928.4	7,115.6	109.9	109.0	-132.01	-17.5	-3,648.1	276.4	108.4	168.06	1.645		
10,900.0	6,930.6	11,028.4	7,115.6	112.7	111.8	-132.12	-16.9	-3,748.1	275.9	103.8	172.06	1.603		
11,000.0	6,930.6	11,128.4	7,115.6	115.4	114.6	-132.22	-16.3	-3,848.1	275.3	99.3	176.04	1.564		
11,100.0	6,930.6	11,228.4	7,115.6	118.2	117.3	-132.33	-15.7	-3,948.1	274.7	94.7	180.01	1.526		
11,200.0	6,930.6	11,328.4	7,115.6	121.0	120.1	-132.44	-15.1	-4,048.1	274.2	90.2	183.96	1.490 Level 3		
11,300.0	6,930.6	11,428.4	7,115.6	123.8	122.9	-132.54	-14.5	-4,148.1	273.6	85.7	187.91	1.456 Level 3		
11,400.0	6,930.6	11,528.4	7,115.6	126.6	125.7	-132.65	-13.9	-4,248.1	273.0	81.2	191.84	1.423 Level 3		
11,500.0	6,930.6	11,628.4	7,115.6	129.3	128.5	-132.76	-13.2	-4,348.1	272.5	76.7	195.76	1.392 Level 3		
11,600.0	6,930.6	11,728.4	7,115.6	132.1	131.3	-132.87	-12.6	-4,448.0	271.9	72.3	199.66	1.362 Level 3		
11,700.0	6,930.6	11,828.4	7,115.6	134.9	134.1	-132.98	-12.0	-4,548.0	271.4	67.8	203.56	1.333 Level 3		
11,800.0	6,930.6	11,928.4	7,115.6	137.7	136.8	-133.09	-11.4	-4,648.0	270.8	63.4	207.44	1.305 Level 3		
11,900.0	6,930.6	12,028.4	7,115.6	140.5	139.6	-133.20	-10.8	-4,748.0	270.3	58.9	211.30	1.279 Level 3		
12,000.0	6,930.6	12,128.4	7,115.6	143.3	142.4	-133.31	-10.2	-4,848.0	269.7	54.5	215.15	1.254 Level 3		
12,100.0	6,930.6	12,228.4	7,115.6	146.1	145.2	-133.42	-9.6	-4,948.0	269.1	50.2	218.99	1.229 Level 2		
12,200.0	6,930.6	12,328.4	7,115.6	148.9	148.0	-133.54	-9.0	-5,048.0	268.6	45.8	222.81	1.205 Level 2		
12,300.0	6,930.6	12,428.4	7,115.6	151.6	150.8	-133.65	-8.4	-5,148.0	268.0	41.4	226.62	1.183 Level 2		
12,400.0	6,930.6	12,528.4	7,115.6	154.4	153.6	-133.76	-7.8	-5,248.0	267.5	37.1	230.41	1.161 Level 2		
12,500.0	6,930.6	12,628.3	7,115.6	157.2	156.4	-133.87	-7.2	-5,348.0	266.9	32.7	234.19	1.140 Level 2		
12,600.0	6,930.6	12,728.3	7,115.6	160.0	159.2	-133.99	-6.6	-5,448.0	266.4	28.4	237.96	1.119 Level 2		
12,700.0	6,930.6	12,828.3	7,115.6	162.8	162.0	-134.10	-6.0	-5,548.0	265.8	24.1	241.70	1.100 Level 2		
12,800.0	6,930.6	12,928.3	7,115.6	165.6	164.8	-134.22	-5.4	-5,648.0	265.3	19.9	245.44	1.081 Level 2		
12,900.0	6,930.6	13,028.3	7,115.6	168.4	167.6	-134.33	-4.8	-5,748.0	264.7	15.6	249.15	1.063 Level 2		
13,000.0	6,930.6	13,128.3	7,115.6	171.2	170.4	-134.45	-4.2	-5,848.0	264.2	11.3	252.85	1.045 Level 2		
13,100.0	6,930.6	13,228.3	7,115.6	174.0	173.2	-134.56	-3.6	-5,948.0	263.7	7.1	256.54	1.028 Level 2		
13,200.0	6,930.6	13,328.3	7,115.6	176.8	176.0	-134.68	-3.0	-6,048.0	263.1	2.9	260.20	1.011 Level 2		
13,300.0	6,930.6	13,428.3	7,115.6	179.6	178.8	-134.80	-2.4	-6,148.0	262.6	-1.3	263.86	0.995 Level 1		
13,400.0	6,930.6	13,528.3	7,115.6	182.4	181.5	-134.91	-1.8	-6,248.0	262.0	-5.5	267.49	0.980 Level 1		
13,500.0	6,930.6	13,628.3	7,115.6	185.2	184.3	-135.03	-1.1	-6,348.0	261.5	-9.6	271.11	0.965 Level 1		
13,600.0	6,930.6	13,728.3	7,115.6	188.0	187.1	-135.15	-0.5	-6,448.0	260.9	-13.8	274.71	0.950 Level 1		
13,700.0	6,930.6	13,828.3	7,115.6	190.8	189.9	-135.27	0.1	-6,547.9	260.4	-17.9	278.29	0.936 Level 1		
13,800.0	6,930.6	13,928.3	7,115.6	193.6	192.7	-135.39	0.7	-6,647.9	259.9	-22.0	281.86	0.922 Level 1		
13,846.6	6,930.6	13,974.7	7,115.6	194.9	194.0	-135.45	0.9	-6,694.3	259.6	-23.9	283.51	0.916 Level 1, ES, SF		

Offset Design		Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-182HN - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	60.1	60.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	60.1	60.1	59.9	0.22	267.427		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	60.1	60.1	59.4	0.67	89.142		
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	60.1	60.1	59.0	1.12	53.485		
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	60.1	60.1	58.5	1.57	38.204		
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	60.1	60.1	58.1	2.02	29.714		
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	60.1	60.1	57.6	2.47	24.312		
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	60.1	60.1	57.2	2.92	20.571		
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	60.1	60.1	56.7	3.37	17.828		
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	60.1	60.1	56.3	3.82	15.731		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	60.1	60.1	55.8	4.27	14.075		
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	60.1	60.1	55.4	4.72	12.735		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	60.1	60.1	54.9	5.17	11.627		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	60.1	60.1	54.5	5.62	10.697		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	60.1	60.1	54.0	6.07	9.905		
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	60.1	60.1	53.6	6.52	9.222		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	60.1	60.1	53.1	6.97	8.627		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	60.1	60.1	52.7	7.42	8.104		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	60.1	60.1	52.2	7.87	7.641		
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	60.1	60.1	51.8	8.32	7.228		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	60.1	60.1	51.3	8.77	6.857		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	60.1	60.1	50.9	9.22	6.523		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	60.1	60.1	50.4	9.66	6.219		
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	60.1	60.1	50.0	10.11	5.943		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	60.1	60.1	49.5	10.56	5.690		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	60.1	60.1	49.1	11.01	5.458		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	60.1	60.1	48.6	11.46	5.244		
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	60.1	60.1	48.2	11.91	5.046		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	60.1	60.1	47.7	12.36	4.862		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	60.1	60.1	47.3	12.81	4.692		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	60.1	60.1	46.8	13.26	4.533		
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	60.1	60.1	46.4	13.71	4.384		
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	90.02	0.0	60.1	60.1	45.9	14.16	4.245		
3,300.0	3,300.0	3,300.0	3,300.0	7.3	7.3	90.02	0.0	60.1	60.1	45.5	14.61	4.114		
3,400.0	3,400.0	3,400.0	3,400.0	7.5	7.5	90.02	0.0	60.1	60.1	45.0	15.06	3.991		
3,500.0	3,500.0	3,500.0	3,500.0	7.8	7.8	90.02	0.0	60.1	60.1	44.6	15.51	3.876		
3,600.0	3,600.0	3,600.0	3,600.0	8.0	8.0	90.02	0.0	60.1	60.1	44.2	15.96	3.767		
3,700.0	3,700.0	3,700.0	3,700.0	8.2	8.2	90.02	0.0	60.1	60.1	43.7	16.41	3.663		
3,800.0	3,800.0	3,800.0	3,800.0	8.4	8.4	90.02	0.0	60.1	60.1	43.3	16.86	3.566		
3,900.0	3,900.0	3,900.0	3,900.0	8.7	8.7	90.02	0.0	60.1	60.1	42.8	17.31	3.473		
4,000.0	4,000.0	4,000.0	4,000.0	8.9	8.9	90.02	0.0	60.1	60.1	42.4	17.76	3.385		
4,100.0	4,100.0	4,100.0	4,100.0	9.1	9.1	90.02	0.0	60.1	60.1	41.9	18.21	3.302		
4,200.0	4,200.0	4,200.0	4,200.0	9.3	9.3	90.02	0.0	60.1	60.1	41.5	18.66	3.222		
4,300.0	4,300.0	4,300.0	4,300.0	9.6	9.6	90.02	0.0	60.1	60.1	41.0	19.11	3.146		
4,400.0	4,400.0	4,400.0	4,400.0	9.8	9.8	90.02	0.0	60.1	60.1	40.6	19.55	3.074		
4,500.0	4,500.0	4,500.0	4,500.0	10.0	10.0	90.02	0.0	60.1	60.1	40.1	20.00	3.005		
4,600.0	4,600.0	4,600.0	4,600.0	10.2	10.2	90.02	0.0	60.1	60.1	39.7	20.45	2.939		
4,700.0	4,700.0	4,700.0	4,700.0	10.5	10.5	90.02	0.0	60.1	60.1	39.2	20.90	2.876		
4,800.0	4,800.0	4,800.0	4,800.0	10.7	10.7	90.02	0.0	60.1	60.1	38.8	21.35	2.815		
4,900.0	4,900.0	4,900.0	4,900.0	10.9	10.9	90.02	0.0	60.1	60.1	38.3	21.80	2.757		
5,000.0	5,000.0	5,000.0	5,000.0	11.1	11.1	90.02	0.0	60.1	60.1	37.9	22.25	2.701		
5,100.0	5,100.0	5,100.0	5,100.0	11.4	11.4	90.02	0.0	60.1	60.1	37.4	22.70	2.648		

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	60.1	60.1	37.0	23.15	2.596	CC, ES
5,300.0	5,300.0	5,297.8	5,297.8	11.8	11.8	91.08	-1.2	61.9	61.9	38.3	23.57	2.626	
5,400.0	5,400.0	5,395.2	5,395.0	12.0	12.0	93.88	-4.6	67.1	67.4	43.4	23.98	2.811	
5,500.0	5,500.0	5,492.0	5,491.2	12.2	12.1	97.64	-10.1	75.7	76.9	52.5	24.39	3.152	
5,600.0	5,600.0	5,587.7	5,585.8	12.5	12.3	101.53	-17.9	87.5	90.5	65.7	24.80	3.647	
5,700.0	5,699.7	5,682.6	5,679.0	12.7	12.5	33.84	-27.6	102.6	102.5	77.5	25.02	4.096	
5,800.0	5,797.4	5,776.5	5,770.5	12.9	12.7	42.48	-39.3	120.6	108.8	83.7	25.11	4.334	
5,900.0	5,891.3	5,868.4	5,859.0	13.2	13.0	54.69	-52.8	141.3	113.4	88.0	25.38	4.468	
6,000.0	5,979.8	5,957.4	5,943.7	13.5	13.2	69.49	-67.6	164.1	122.2	96.1	26.18	4.670	
6,100.0	6,066.5	6,045.5	6,026.4	13.9	13.5	82.53	-84.1	189.4	142.4	115.2	27.14	5.245	
6,200.0	6,153.2	6,135.6	6,110.0	14.4	13.9	91.77	-102.5	217.7	170.9	143.0	27.98	6.111	
6,300.0	6,240.0	6,227.9	6,195.5	14.9	14.2	98.47	-121.5	247.0	203.1	174.3	28.80	7.052	
6,400.0	6,327.6	6,320.5	6,281.1	15.5	14.7	108.91	-140.6	276.4	237.3	207.8	29.55	8.032	
6,500.0	6,422.0	6,413.3	6,367.0	15.8	15.1	134.28	-159.8	305.8	273.4	243.2	30.16	9.065	
6,600.0	6,520.2	6,503.2	6,452.6	16.1	15.4	-160.38	-178.9	324.9	310.7	280.1	30.64	10.140	
6,700.0	6,617.2	6,595.9	6,542.9	16.2	15.6	-117.71	-199.1	325.5	348.3	317.3	31.00	11.234	
6,800.0	6,708.0	6,693.3	6,635.7	16.3	15.8	-103.60	-219.8	305.3	384.5	353.2	31.30	12.285	
6,900.0	6,787.9	6,797.2	6,727.3	16.4	15.9	-96.97	-240.4	261.4	417.4	385.8	31.63	13.199	
7,000.0	6,852.8	6,909.2	6,811.9	16.6	15.9	-93.28	-259.4	191.0	445.2	413.0	32.21	13.821	
7,100.0	6,899.5	7,029.7	6,880.4	17.3	16.2	-91.20	-274.8	93.5	465.8	432.4	33.40	13.945	
7,200.0	6,925.5	7,157.3	6,922.2	18.3	17.3	-90.20	-284.3	-26.2	477.5	442.0	35.53	13.438	
7,300.0	6,930.6	7,277.8	6,930.6	19.6	18.9	-90.00	-286.4	-146.1	479.8	441.4	38.43	12.485	
7,400.0	6,930.6	7,377.8	6,930.6	21.3	20.5	-90.00	-286.5	-246.1	479.8	438.1	41.66	11.518	
7,500.0	6,930.6	7,477.8	6,930.6	23.1	22.4	-90.00	-286.7	-346.1	479.8	434.5	45.34	10.582	
7,600.0	6,930.6	7,577.8	6,930.6	25.1	24.4	-90.00	-286.8	-446.1	479.8	430.4	49.39	9.714	
7,700.0	6,930.6	7,677.8	6,930.6	27.3	26.6	-90.00	-287.0	-546.1	479.8	426.1	53.72	8.931	
7,800.0	6,930.6	7,777.8	6,930.6	29.6	28.9	-90.00	-287.2	-646.1	479.8	421.5	58.28	8.233	
7,900.0	6,930.6	7,877.8	6,930.6	31.9	31.2	-90.00	-287.3	-746.1	479.8	416.8	63.00	7.616	
8,000.0	6,930.6	7,977.8	6,930.6	34.3	33.7	-90.00	-287.5	-846.1	479.8	411.9	67.86	7.070	
8,100.0	6,930.6	8,077.8	6,930.6	36.8	36.1	-90.00	-287.6	-946.1	479.8	407.0	72.83	6.588	
8,200.0	6,930.6	8,177.8	6,930.6	39.3	38.7	-90.00	-287.8	-1,046.1	479.8	401.9	77.89	6.160	
8,300.0	6,930.6	8,277.8	6,930.6	41.9	41.2	-90.00	-287.9	-1,146.1	479.8	396.8	83.02	5.779	
8,400.0	6,930.6	8,377.8	6,930.6	44.5	43.8	-90.00	-288.1	-1,246.1	479.8	391.6	88.21	5.439	
8,500.0	6,930.6	8,477.8	6,930.6	47.1	46.5	-90.00	-288.3	-1,346.1	479.8	386.4	93.45	5.135	
8,600.0	6,930.6	8,577.8	6,930.6	49.7	49.1	-90.00	-288.4	-1,446.1	479.8	381.1	98.73	4.860	
8,700.0	6,930.6	8,677.8	6,930.6	52.4	51.8	-90.00	-288.6	-1,546.1	479.8	375.8	104.04	4.612	
8,800.0	6,930.6	8,777.8	6,930.6	55.1	54.4	-90.00	-288.7	-1,646.1	479.8	370.4	109.39	4.386	
8,900.0	6,930.6	8,877.8	6,930.6	57.7	57.1	-90.00	-288.9	-1,746.1	479.8	365.0	114.76	4.181	
9,000.0	6,930.6	8,977.8	6,930.6	60.4	59.8	-90.00	-289.0	-1,846.1	479.8	359.7	120.15	3.993	
9,100.0	6,930.6	9,077.8	6,930.6	63.1	62.5	-90.00	-289.2	-1,946.1	479.8	354.2	125.56	3.821	
9,200.0	6,930.6	9,177.8	6,930.6	65.8	65.2	-90.00	-289.4	-2,046.1	479.8	348.8	130.99	3.663	
9,300.0	6,930.6	9,277.8	6,930.6	68.6	68.0	-90.00	-289.5	-2,146.1	479.8	343.4	136.44	3.517	
9,400.0	6,930.6	9,377.8	6,930.6	71.3	70.7	-90.00	-289.7	-2,246.1	479.8	337.9	141.90	3.381	
9,500.0	6,930.6	9,477.8	6,930.6	74.0	73.4	-90.00	-289.8	-2,346.1	479.8	332.4	147.37	3.256	
9,600.0	6,930.6	9,577.8	6,930.6	76.8	76.2	-90.00	-290.0	-2,446.1	479.8	327.0	152.85	3.139	
9,700.0	6,930.6	9,677.8	6,930.6	79.5	78.9	-90.00	-290.2	-2,546.1	479.8	321.5	158.34	3.030	
9,800.0	6,930.6	9,777.8	6,930.6	82.2	81.7	-90.00	-290.3	-2,646.1	479.8	316.0	163.84	2.929	
9,900.0	6,930.6	9,877.8	6,930.6	85.0	84.4	-90.00	-290.5	-2,746.1	479.8	310.5	169.34	2.833	
10,000.0	6,930.6	9,977.8	6,930.6	87.7	87.2	-90.00	-290.6	-2,846.1	479.8	304.9	174.85	2.744	
10,100.0	6,930.6	10,077.8	6,930.6	90.5	89.9	-90.00	-290.8	-2,946.1	479.8	299.4	180.37	2.660	
10,200.0	6,930.6	10,177.8	6,930.6	93.3	92.7	-90.00	-290.9	-3,046.1	479.8	293.9	185.90	2.581	
10,300.0	6,930.6	10,277.8	6,930.6	96.0	95.5	-90.00	-291.1	-3,146.1	479.8	288.4	191.43	2.506	

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 27-179HN
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 27-179HN	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
10,400.0	6,930.6	10,377.8	6,930.6	98.8	98.2	-90.00	-291.3	-3,246.1	479.8	282.8	196.97	2.436	
10,500.0	6,930.6	10,477.8	6,930.6	101.6	101.0	-90.00	-291.4	-3,346.1	479.8	277.3	202.51	2.369	
10,600.0	6,930.6	10,577.8	6,930.6	104.3	103.8	-90.00	-291.6	-3,446.1	479.8	271.7	208.05	2.306	
10,700.0	6,930.6	10,677.8	6,930.6	107.1	106.5	-90.00	-291.7	-3,546.1	479.8	266.2	213.60	2.246	
10,800.0	6,930.6	10,777.8	6,930.6	109.9	109.3	-90.00	-291.9	-3,646.1	479.8	260.6	219.15	2.189	
10,900.0	6,930.6	10,877.8	6,930.6	112.7	112.1	-90.00	-292.0	-3,746.1	479.8	255.1	224.70	2.135	
11,000.0	6,930.6	10,977.8	6,930.6	115.4	114.9	-90.00	-292.2	-3,846.1	479.8	249.5	230.26	2.084	
11,100.0	6,930.6	11,077.8	6,930.6	118.2	117.7	-90.00	-292.4	-3,946.1	479.8	244.0	235.82	2.035	
11,200.0	6,930.6	11,177.8	6,930.6	121.0	120.4	-90.00	-292.5	-4,046.1	479.8	238.4	241.38	1.988	
11,300.0	6,930.6	11,277.8	6,930.6	123.8	123.2	-90.00	-292.7	-4,146.1	479.8	232.8	246.95	1.943	
11,400.0	6,930.6	11,377.8	6,930.6	126.6	126.0	-90.00	-292.8	-4,246.1	479.8	227.3	252.52	1.900	
11,500.0	6,930.6	11,477.8	6,930.6	129.3	128.8	-90.00	-293.0	-4,346.1	479.8	221.7	258.09	1.859	
11,600.0	6,930.6	11,577.8	6,930.6	132.1	131.6	-90.00	-293.1	-4,446.1	479.8	216.1	263.66	1.820	
11,700.0	6,930.6	11,677.8	6,930.6	134.9	134.4	-90.00	-293.3	-4,546.1	479.8	210.6	269.23	1.782	
11,800.0	6,930.6	11,777.8	6,930.6	137.7	137.2	-90.00	-293.5	-4,646.1	479.8	205.0	274.81	1.746	
11,900.0	6,930.6	11,877.8	6,930.6	140.5	139.9	-90.00	-293.6	-4,746.1	479.8	199.4	280.38	1.711	
12,000.0	6,930.6	11,977.8	6,930.6	143.3	142.7	-90.00	-293.8	-4,846.1	479.8	193.8	285.96	1.678	
12,100.0	6,930.6	12,077.8	6,930.6	146.1	145.5	-90.00	-293.9	-4,946.1	479.8	188.2	291.54	1.646	
12,200.0	6,930.6	12,177.8	6,930.6	148.9	148.3	-90.00	-294.1	-5,046.1	479.8	182.7	297.12	1.615	
12,300.0	6,930.6	12,277.8	6,930.6	151.6	151.1	-90.00	-294.2	-5,146.1	479.8	177.1	302.70	1.585	
12,400.0	6,930.6	12,377.8	6,930.6	154.4	153.9	-90.00	-294.4	-5,246.1	479.8	171.5	308.29	1.556	
12,500.0	6,930.6	12,477.8	6,930.6	157.2	156.7	-90.00	-294.6	-5,346.1	479.8	165.9	313.87	1.529	
12,600.0	6,930.6	12,577.8	6,930.6	160.0	159.5	-90.00	-294.7	-5,446.1	479.8	160.3	319.46	1.502	
12,700.0	6,930.6	12,677.8	6,930.6	162.8	162.3	-90.00	-294.9	-5,546.1	479.8	154.7	325.04	1.476 Level 3	
12,800.0	6,930.6	12,777.8	6,930.6	165.6	165.1	-90.00	-295.0	-5,646.1	479.8	149.2	330.63	1.451 Level 3	
12,900.0	6,930.6	12,877.8	6,930.6	168.4	167.9	-90.00	-295.2	-5,746.1	479.8	143.6	336.22	1.427 Level 3	
13,000.0	6,930.6	12,977.8	6,930.6	171.2	170.7	-90.00	-295.4	-5,846.1	479.8	138.0	341.81	1.404 Level 3	
13,100.0	6,930.6	13,077.8	6,930.6	174.0	173.5	-90.00	-295.5	-5,946.1	479.8	132.4	347.40	1.381 Level 3	
13,200.0	6,930.6	13,177.8	6,930.6	176.8	176.2	-90.00	-295.7	-6,046.1	479.8	126.8	352.99	1.359 Level 3	
13,300.0	6,930.6	13,277.8	6,930.6	179.6	179.0	-90.00	-295.8	-6,146.1	479.8	121.2	358.58	1.338 Level 3	
13,400.0	6,930.6	13,377.8	6,930.6	182.4	181.8	-90.00	-296.0	-6,246.1	479.8	115.6	364.18	1.317 Level 3	
13,500.0	6,930.6	13,477.8	6,930.6	185.2	184.6	-90.00	-296.1	-6,346.1	479.8	110.0	369.77	1.298 Level 3	
13,600.0	6,930.6	13,577.8	6,930.6	188.0	187.4	-90.00	-296.3	-6,446.1	479.8	104.4	375.36	1.278 Level 3	
13,700.0	6,930.6	13,677.8	6,930.6	190.8	190.2	-90.00	-296.5	-6,546.1	479.8	98.8	380.96	1.259 Level 3	
13,800.0	6,930.6	13,777.8	6,930.6	193.6	193.0	-90.00	-296.6	-6,646.1	479.8	93.2	386.55	1.241 Level 2	
13,846.6	6,930.6	13,824.3	6,930.6	194.9	194.3	-90.00	-296.7	-6,692.7	479.8	90.6	389.16	1.233 Level 2, SF	

Company:	Great Western	Local Co-ordinate Reference:	Well Kodak North FD 27-179HN
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 27-179HN	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')

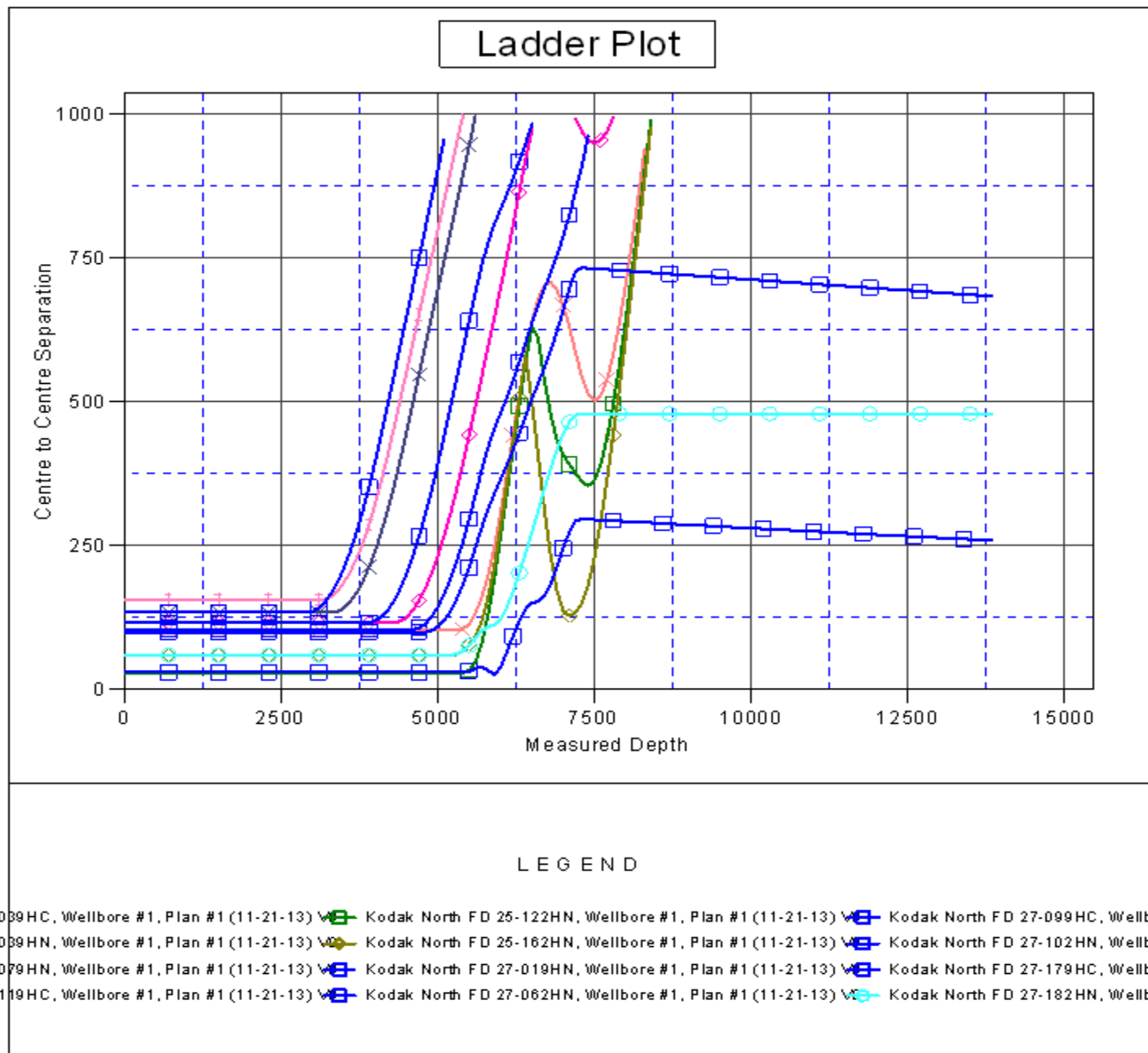
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Kodak North FD 27-179HN

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 27-179HN
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 27-179HN	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 27-179HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

