Great Western

Well Name: **Kodak North FD 25-039HC**

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

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

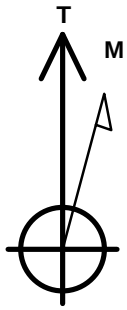
Ground Elevation: 4760.1

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1410693.07	3177026.41	40.459011	-104.863822	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2252'FNL & 1820'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 284'FNL & 470'FEL, Sec.25	7108.6	2048.8	8241.7	Point
Entry Pt. 250'FNL & 2025'FWL, Sec.26	7108.6	2001.9	200.9	Point



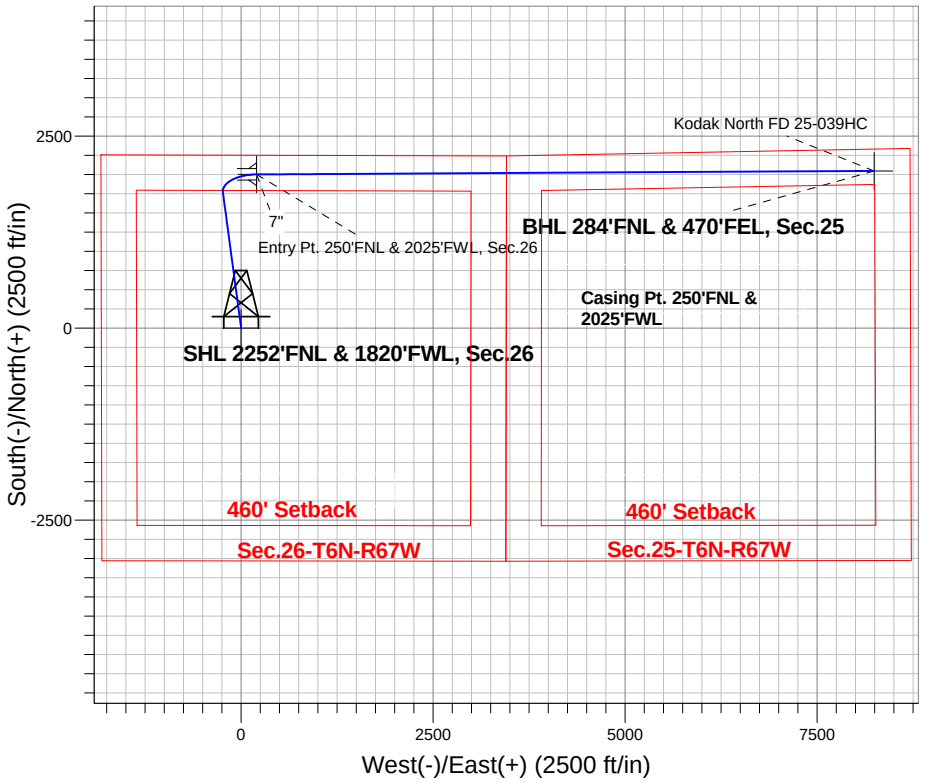
Azimuths to True North
Magnetic North: 8.59°

Magnetic Field
Strength: 52895.6snT
Dip Angle: 67.00°
Date: 11/21/2013
Model: IGRF2010

Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-039HC
Plan #1 (11-21-13)
12:46, November 22 2013

ANNOTATIONS

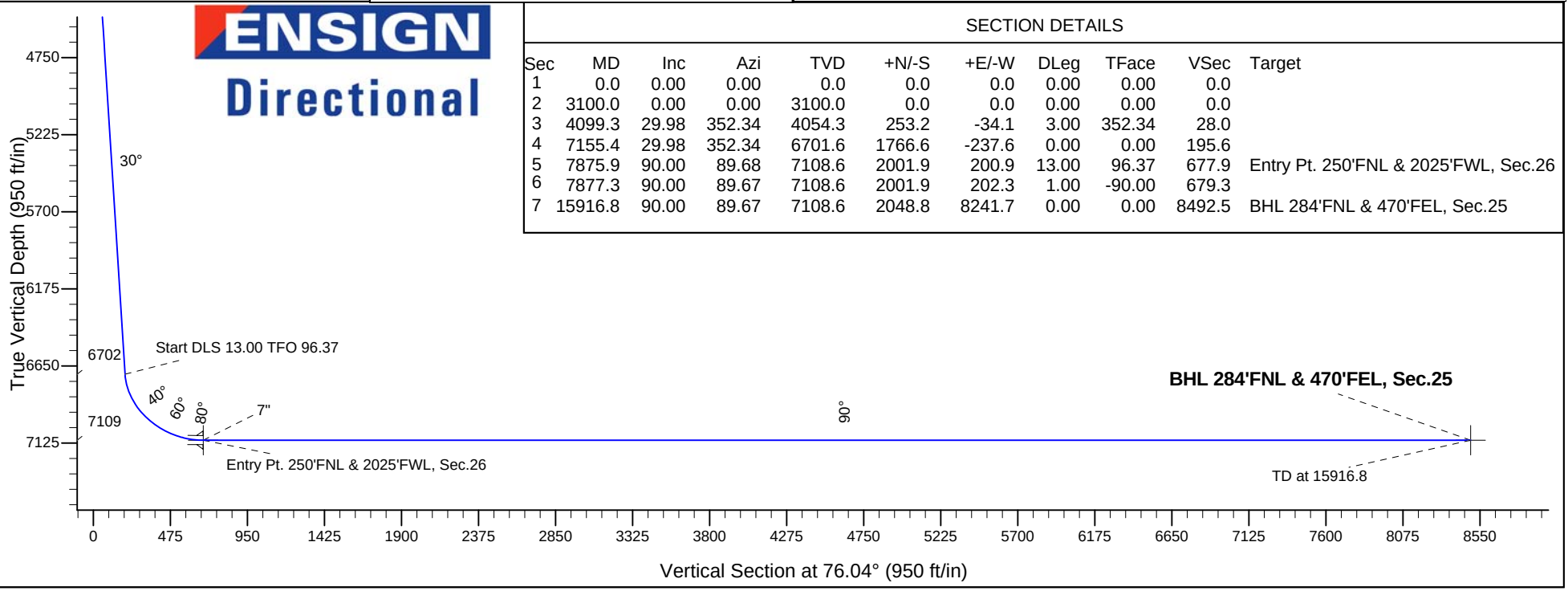
TVD	MD	Annotation
3100.0	3100.0	KOP - Start Build 3.00
6701.6	7155.4	Start DLS 13.00 TFO 96.37
7108.6	15916.8	TD at 15916.8



ENSIGN Directional

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	3100.0	0.00	0.00	3100.0	0.0	0.0	0.00	0.00	0.0	
3	4099.3	29.98	352.34	4054.3	253.2	-34.1	3.00	352.34	28.0	
4	7155.4	29.98	352.34	6701.6	1766.6	-237.6	0.00	0.00	195.6	
5	7875.9	90.00	89.68	7108.6	2001.9	200.9	13.00	96.37	677.9	Entry Pt. 250'FNL & 2025'FWL, Sec.26
6	7877.3	90.00	89.67	7108.6	2001.9	202.3	1.00	-90.00	679.3	
7	15916.8	90.00	89.67	7108.6	2048.8	8241.7	0.00	0.00	8492.5	BHL 284'FNL & 470'FEL, Sec.25



Great Western

SEC.26-T6N-R67W
Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-039HC

Wellbore #1

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

Standard Planning Report

22 November, 2013

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Company:	Great Western	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	**North Reference:**	True
Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Project SEC.26-T6N-R67W, Weld County, Colorado

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site Kodak North Pad Sec.26-T6N-R67W

Site Position:		**Northing:**	1,410,693.08 ft	**Latitude:**	40.459011
From:	Lat/Long	**Easting:**	3,177,026.41 ft	**Longitude:**	-104.863822
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.41 °

Well Kodak North FD 25-039HC

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,410,693.07 ft	**Latitude:**	40.459011
	+E/-W	0.0 ft	**Easting:**	3,177,026.41 ft	**Longitude:**	-104.863822
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,760.1 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/21/2013	8.59	67.00	52,896

Design Plan #1 (11-21-13)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	76.04

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	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,099.3	29.98	352.34	4,054.3	253.2	-34.1	3.00	3.00	0.00	352.34	
7,155.4	29.98	352.34	6,701.6	1,766.6	-237.6	0.00	0.00	0.00	0.00	
7,875.9	90.00	89.68	7,108.6	2,001.9	200.9	13.00	8.33	13.51	96.37	Entry Pt. 250'FNL &
7,877.3	90.00	89.67	7,108.6	2,001.9	202.3	1.00	0.00	-1.00	-90.00	
15,916.8	90.00	89.67	7,108.6	2,048.8	8,241.7	0.00	0.00	0.00	0.00	BHL 284'FNL & 47(

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Company:	Great Western	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	**North Reference:**	True
Well:	Kodak North FD 25-039HC	**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 2252'FNL & 1820'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
KOP - Start Build 3.00									
3,200.0	3.00	352.34	3,200.0	2.6	-0.3	0.3	3.00	3.00	0.00
3,300.0	6.00	352.34	3,299.6	10.4	-1.4	1.1	3.00	3.00	0.00
3,400.0	9.00	352.34	3,398.8	23.3	-3.1	2.6	3.00	3.00	0.00
3,500.0	12.00	352.34	3,497.1	41.4	-5.6	4.6	3.00	3.00	0.00
3,600.0	15.00	352.34	3,594.3	64.5	-8.7	7.1	3.00	3.00	0.00
3,700.0	18.00	352.34	3,690.2	92.6	-12.5	10.3	3.00	3.00	0.00
3,800.0	21.00	352.34	3,784.4	125.7	-16.9	13.9	3.00	3.00	0.00
3,900.0	24.00	352.34	3,876.8	163.6	-22.0	18.1	3.00	3.00	0.00
4,000.0	27.00	352.34	3,967.1	206.3	-27.7	22.8	3.00	3.00	0.00
4,099.3	29.98	352.34	4,054.3	253.2	-34.1	28.0	3.00	3.00	0.00
4,100.0	29.98	352.34	4,054.9	253.6	-34.1	28.1	0.00	0.00	0.00
4,200.0	29.98	352.34	4,141.6	303.1	-40.8	33.6	0.00	0.00	0.00
4,300.0	29.98	352.34	4,228.2	352.6	-47.4	39.0	0.00	0.00	0.00
4,400.0	29.98	352.34	4,314.8	402.1	-54.1	44.5	0.00	0.00	0.00
4,500.0	29.98	352.34	4,401.4	451.7	-60.8	50.0	0.00	0.00	0.00
4,600.0	29.98	352.34	4,488.0	501.2	-67.4	55.5	0.00	0.00	0.00
4,700.0	29.98	352.34	4,574.7	550.7	-74.1	61.0	0.00	0.00	0.00
4,800.0	29.98	352.34	4,661.3	600.2	-80.7	66.5	0.00	0.00	0.00
4,900.0	29.98	352.34	4,747.9	649.7	-87.4	71.9	0.00	0.00	0.00

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Site:	Kodak North Pad Sec.26-T6N-R67W	**North Reference:**	True
Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	29.98	352.34	4,834.5	699.3	-94.1	77.4	0.00	0.00	0.00
5,100.0	29.98	352.34	4,921.2	748.8	-100.7	82.9	0.00	0.00	0.00
5,200.0	29.98	352.34	5,007.8	798.3	-107.4	88.4	0.00	0.00	0.00
5,300.0	29.98	352.34	5,094.4	847.8	-114.0	93.9	0.00	0.00	0.00
5,400.0	29.98	352.34	5,181.0	897.3	-120.7	99.4	0.00	0.00	0.00
5,500.0	29.98	352.34	5,267.6	946.9	-127.4	104.8	0.00	0.00	0.00
5,600.0	29.98	352.34	5,354.3	996.4	-134.0	110.3	0.00	0.00	0.00
5,700.0	29.98	352.34	5,440.9	1,045.9	-140.7	115.8	0.00	0.00	0.00
5,800.0	29.98	352.34	5,527.5	1,095.4	-147.3	121.3	0.00	0.00	0.00
5,900.0	29.98	352.34	5,614.1	1,144.9	-154.0	126.8	0.00	0.00	0.00
6,000.0	29.98	352.34	5,700.8	1,194.5	-160.7	132.2	0.00	0.00	0.00
6,100.0	29.98	352.34	5,787.4	1,244.0	-167.3	137.7	0.00	0.00	0.00
6,200.0	29.98	352.34	5,874.0	1,293.5	-174.0	143.2	0.00	0.00	0.00
6,300.0	29.98	352.34	5,960.6	1,343.0	-180.7	148.7	0.00	0.00	0.00
6,400.0	29.98	352.34	6,047.2	1,392.5	-187.3	154.2	0.00	0.00	0.00
6,500.0	29.98	352.34	6,133.9	1,442.1	-194.0	159.7	0.00	0.00	0.00
6,600.0	29.98	352.34	6,220.5	1,491.6	-200.6	165.1	0.00	0.00	0.00
6,700.0	29.98	352.34	6,307.1	1,541.1	-207.3	170.6	0.00	0.00	0.00
6,800.0	29.98	352.34	6,393.7	1,590.6	-214.0	176.1	0.00	0.00	0.00
6,900.0	29.98	352.34	6,480.4	1,640.1	-220.6	181.6	0.00	0.00	0.00
7,000.0	29.98	352.34	6,567.0	1,689.7	-227.3	187.1	0.00	0.00	0.00
7,100.0	29.98	352.34	6,653.6	1,739.2	-233.9	192.6	0.00	0.00	0.00
7,155.4	29.98	352.34	6,701.6	1,766.6	-237.6	195.6	0.00	0.00	0.00
Start DLS 13.00 TFO 96.37									
7,200.0	29.84	3.97	6,740.3	1,788.8	-238.3	200.2	12.99	-0.30	26.07
7,300.0	33.08	28.25	6,825.9	1,837.8	-223.6	226.3	13.00	3.24	24.28
7,400.0	40.05	46.80	6,906.4	1,884.1	-187.1	273.0	13.00	6.97	18.54
7,500.0	49.17	60.06	6,977.7	1,925.2	-130.6	337.7	13.00	9.12	13.26
7,600.0	59.43	69.93	7,036.1	1,959.0	-57.1	417.2	13.00	10.26	9.87
7,700.0	70.29	77.85	7,078.5	1,983.8	29.7	507.4	13.00	10.86	7.92
7,800.0	81.45	84.74	7,102.9	1,998.3	125.4	603.8	13.00	11.16	6.89
7,875.9	90.00	89.68	7,108.6	2,001.9	200.9	677.9	13.00	11.27	6.50
7" - Entry Pt. 250'FNL & 2025'FWL, Sec.26									
7,877.3	90.00	89.67	7,108.6	2,001.9	202.3	679.3	0.97	0.06	-0.96
7,900.0	90.00	89.67	7,108.6	2,002.1	225.0	701.4	0.00	0.00	0.00
8,000.0	90.00	89.67	7,108.6	2,002.7	325.0	798.5	0.00	0.00	0.00
8,100.0	90.00	89.67	7,108.6	2,003.2	425.0	895.7	0.00	0.00	0.00
8,200.0	90.00	89.67	7,108.6	2,003.8	525.0	992.9	0.00	0.00	0.00
8,300.0	90.00	89.67	7,108.6	2,004.4	625.0	1,090.1	0.00	0.00	0.00
8,400.0	90.00	89.67	7,108.6	2,005.0	725.0	1,187.3	0.00	0.00	0.00
8,500.0	90.00	89.67	7,108.6	2,005.6	825.0	1,284.5	0.00	0.00	0.00
8,600.0	90.00	89.67	7,108.6	2,006.2	925.0	1,381.7	0.00	0.00	0.00
8,700.0	90.00	89.67	7,108.6	2,006.7	1,025.0	1,478.8	0.00	0.00	0.00
8,800.0	90.00	89.67	7,108.6	2,007.3	1,125.0	1,576.0	0.00	0.00	0.00
8,900.0	90.00	89.67	7,108.6	2,007.9	1,225.0	1,673.2	0.00	0.00	0.00
9,000.0	90.00	89.67	7,108.6	2,008.5	1,325.0	1,770.4	0.00	0.00	0.00
9,100.0	90.00	89.67	7,108.6	2,009.1	1,425.0	1,867.6	0.00	0.00	0.00
9,200.0	90.00	89.67	7,108.6	2,009.7	1,525.0	1,964.8	0.00	0.00	0.00
9,300.0	90.00	89.67	7,108.6	2,010.2	1,625.0	2,061.9	0.00	0.00	0.00
9,400.0	90.00	89.67	7,108.6	2,010.8	1,725.0	2,159.1	0.00	0.00	0.00
9,500.0	90.00	89.67	7,108.6	2,011.4	1,825.0	2,256.3	0.00	0.00	0.00
9,600.0	90.00	89.67	7,108.6	2,012.0	1,925.0	2,353.5	0.00	0.00	0.00
9,700.0	90.00	89.67	7,108.6	2,012.6	2,025.0	2,450.7	0.00	0.00	0.00
9,800.0	90.00	89.67	7,108.6	2,013.2	2,125.0	2,547.9	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
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Project:	SEC.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	**North Reference:**	True
Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,900.0	90.00	89.67	7,108.6	2,013.7	2,225.0	2,645.1	0.00	0.00	0.00
10,000.0	90.00	89.67	7,108.6	2,014.3	2,325.0	2,742.2	0.00	0.00	0.00
10,100.0	90.00	89.67	7,108.6	2,014.9	2,425.0	2,839.4	0.00	0.00	0.00
10,200.0	90.00	89.67	7,108.6	2,015.5	2,525.0	2,936.6	0.00	0.00	0.00
10,300.0	90.00	89.67	7,108.6	2,016.1	2,625.0	3,033.8	0.00	0.00	0.00
10,400.0	90.00	89.67	7,108.6	2,016.7	2,725.0	3,131.0	0.00	0.00	0.00
10,500.0	90.00	89.67	7,108.6	2,017.2	2,824.9	3,228.2	0.00	0.00	0.00
10,600.0	90.00	89.67	7,108.6	2,017.8	2,924.9	3,325.4	0.00	0.00	0.00
10,700.0	90.00	89.67	7,108.6	2,018.4	3,024.9	3,422.5	0.00	0.00	0.00
10,800.0	90.00	89.67	7,108.6	2,019.0	3,124.9	3,519.7	0.00	0.00	0.00
10,900.0	90.00	89.67	7,108.6	2,019.6	3,224.9	3,616.9	0.00	0.00	0.00
11,000.0	90.00	89.67	7,108.6	2,020.2	3,324.9	3,714.1	0.00	0.00	0.00
11,100.0	90.00	89.67	7,108.6	2,020.7	3,424.9	3,811.3	0.00	0.00	0.00
11,200.0	90.00	89.67	7,108.6	2,021.3	3,524.9	3,908.5	0.00	0.00	0.00
11,300.0	90.00	89.67	7,108.6	2,021.9	3,624.9	4,005.7	0.00	0.00	0.00
11,400.0	90.00	89.67	7,108.6	2,022.5	3,724.9	4,102.8	0.00	0.00	0.00
11,500.0	90.00	89.67	7,108.6	2,023.1	3,824.9	4,200.0	0.00	0.00	0.00
11,600.0	90.00	89.67	7,108.6	2,023.7	3,924.9	4,297.2	0.00	0.00	0.00
11,700.0	90.00	89.67	7,108.6	2,024.2	4,024.9	4,394.4	0.00	0.00	0.00
11,800.0	90.00	89.67	7,108.6	2,024.8	4,124.9	4,491.6	0.00	0.00	0.00
11,900.0	90.00	89.67	7,108.6	2,025.4	4,224.9	4,588.8	0.00	0.00	0.00
12,000.0	90.00	89.67	7,108.6	2,026.0	4,324.9	4,686.0	0.00	0.00	0.00
12,100.0	90.00	89.67	7,108.6	2,026.6	4,424.9	4,783.1	0.00	0.00	0.00
12,200.0	90.00	89.67	7,108.6	2,027.2	4,524.9	4,880.3	0.00	0.00	0.00
12,300.0	90.00	89.67	7,108.6	2,027.7	4,624.9	4,977.5	0.00	0.00	0.00
12,400.0	90.00	89.67	7,108.6	2,028.3	4,724.9	5,074.7	0.00	0.00	0.00
12,500.0	90.00	89.67	7,108.6	2,028.9	4,824.9	5,171.9	0.00	0.00	0.00
12,600.0	90.00	89.67	7,108.6	2,029.5	4,924.9	5,269.1	0.00	0.00	0.00
12,700.0	90.00	89.67	7,108.6	2,030.1	5,024.9	5,366.2	0.00	0.00	0.00
12,800.0	90.00	89.67	7,108.6	2,030.7	5,124.9	5,463.4	0.00	0.00	0.00
12,900.0	90.00	89.67	7,108.6	2,031.2	5,224.9	5,560.6	0.00	0.00	0.00
13,000.0	90.00	89.67	7,108.6	2,031.8	5,324.9	5,657.8	0.00	0.00	0.00
13,100.0	90.00	89.67	7,108.6	2,032.4	5,424.9	5,755.0	0.00	0.00	0.00
13,200.0	90.00	89.67	7,108.6	2,033.0	5,524.9	5,852.2	0.00	0.00	0.00
13,300.0	90.00	89.67	7,108.6	2,033.6	5,624.9	5,949.4	0.00	0.00	0.00
13,400.0	90.00	89.67	7,108.6	2,034.2	5,724.9	6,046.5	0.00	0.00	0.00
13,500.0	90.00	89.67	7,108.6	2,034.7	5,824.9	6,143.7	0.00	0.00	0.00
13,600.0	90.00	89.67	7,108.6	2,035.3	5,924.9	6,240.9	0.00	0.00	0.00
13,700.0	90.00	89.67	7,108.6	2,035.9	6,024.9	6,338.1	0.00	0.00	0.00
13,800.0	90.00	89.67	7,108.6	2,036.5	6,124.9	6,435.3	0.00	0.00	0.00
13,900.0	90.00	89.67	7,108.6	2,037.1	6,224.9	6,532.5	0.00	0.00	0.00
14,000.0	90.00	89.67	7,108.6	2,037.7	6,324.9	6,629.7	0.00	0.00	0.00
14,100.0	90.00	89.67	7,108.6	2,038.2	6,424.9	6,726.8	0.00	0.00	0.00
14,200.0	90.00	89.67	7,108.6	2,038.8	6,524.9	6,824.0	0.00	0.00	0.00
14,300.0	90.00	89.67	7,108.6	2,039.4	6,624.9	6,921.2	0.00	0.00	0.00
14,400.0	90.00	89.67	7,108.6	2,040.0	6,724.9	7,018.4	0.00	0.00	0.00
14,500.0	90.00	89.67	7,108.6	2,040.6	6,824.9	7,115.6	0.00	0.00	0.00
14,600.0	90.00	89.67	7,108.6	2,041.2	6,924.9	7,212.8	0.00	0.00	0.00
14,700.0	90.00	89.67	7,108.6	2,041.7	7,024.9	7,310.0	0.00	0.00	0.00
14,800.0	90.00	89.67	7,108.6	2,042.3	7,124.9	7,407.1	0.00	0.00	0.00
14,900.0	90.00	89.67	7,108.6	2,042.9	7,224.9	7,504.3	0.00	0.00	0.00
15,000.0	90.00	89.67	7,108.6	2,043.5	7,324.9	7,601.5	0.00	0.00	0.00
15,100.0	90.00	89.67	7,108.6	2,044.1	7,424.9	7,698.7	0.00	0.00	0.00
15,200.0	90.00	89.67	7,108.6	2,044.7	7,524.9	7,795.9	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Company:	Great Western	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Project:	SEC.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site:	Kodak North Pad Sec.26-T6N-R67W	**North Reference:**	True
Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,300.0	90.00	89.67	7,108.6	2,045.2	7,624.9	7,893.1	0.00	0.00	0.00
15,400.0	90.00	89.67	7,108.6	2,045.8	7,724.9	7,990.3	0.00	0.00	0.00
15,500.0	90.00	89.67	7,108.6	2,046.4	7,824.9	8,087.4	0.00	0.00	0.00
15,600.0	90.00	89.67	7,108.6	2,047.0	7,924.9	8,184.6	0.00	0.00	0.00
15,700.0	90.00	89.67	7,108.6	2,047.6	8,024.9	8,281.8	0.00	0.00	0.00
15,800.0	90.00	89.67	7,108.6	2,048.2	8,124.9	8,379.0	0.00	0.00	0.00
15,900.0	90.00	89.67	7,108.6	2,048.7	8,224.9	8,476.2	0.00	0.00	0.00
15,916.8	90.00	89.67	7,108.6	2,048.8	8,241.7	8,492.5	0.00	0.00	0.00
BHL 284'FNL & 470'FEL, Sec.25									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,875.9	7,108.6	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
3,100.0	3,100.0	0.0	0.0	KOP - Start Build 3.00
7,155.4	6,701.6	1,766.6	-237.6	Start DLS 13.00 TFO 96.37
15,916.8	7,108.6	2,048.8	8,241.7	TD at 15916.8

ENSIGN Directional

Great Western

SEC.26-T6N-R67W
Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-039HC

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

Anticollision Report

22 November, 2013

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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
Depth Range: Unlimited
Results Limited by: Maximum center-center distance of 1,000.0ft
Error Model: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Levels Evaluated at: 2.00 **Sigma**

Survey Tool Program **Date** 11/22/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,916.8	Plan #1 (11-21-13) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Kodak North Pad Sec.26-T6N-R67W						
Kodak North FD 25-039HN - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	30.1	16.3	2.192	CC
Kodak North FD 25-039HN - Wellbore #1 - Plan #1 (11-2	15,916.8	15,674.1	263.4	-77.4	0.773	Level 1, ES, SF
Kodak North FD 25-079HN - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	59.6	45.8	4.343	CC
Kodak North FD 25-079HN - Wellbore #1 - Plan #1 (11-2	3,200.0	3,200.0	60.0	45.8	4.235	ES
Kodak North FD 25-079HN - Wellbore #1 - Plan #1 (11-2	15,916.8	15,520.6	827.8	370.6	1.811	SF
Kodak North FD 25-119HC - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	89.6	75.9	6.535	CC
Kodak North FD 25-119HC - Wellbore #1 - Plan #1 (11-2	3,200.0	3,200.0	90.0	75.8	6.356	ES
Kodak North FD 25-119HC - Wellbore #1 - Plan #1 (11-2	3,300.0	3,299.6	91.6	77.0	6.274	SF
Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	134.4	120.7	9.804	CC, ES
Kodak North FD 25-122HN - Wellbore #1 - Plan #1 (11-2	3,200.0	3,200.0	136.6	122.4	9.655	SF
Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	119.7	105.9	8.727	CC
Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-2	3,200.0	3,200.0	120.0	105.9	8.478	ES
Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-2	3,400.0	3,398.8	125.0	110.0	8.313	SF

Offset Design Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-039HN - Wellbore #1 - Plan #1 (11-21-13)
Survey Program: 0-MWD
Offset Site Error: 0.0 ft
Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	30.1	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	30.1	30.1	29.8	0.22	133.713	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	30.1	30.1	29.4	0.67	44.571	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	30.1	30.1	28.9	1.12	26.743	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	30.1	30.1	28.5	1.57	19.102	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	30.1	30.1	28.0	2.02	14.857	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	30.1	30.1	27.6	2.47	12.156	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	30.1	30.1	27.1	2.92	10.286	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	30.1	30.1	26.7	3.37	8.914	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	30.1	30.1	26.2	3.82	7.865	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	30.1	30.1	25.8	4.27	7.038	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	30.1	30.1	25.3	4.72	6.367	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	30.1	30.1	24.9	5.17	5.814	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	30.1	30.1	24.4	5.62	5.349	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	30.1	30.1	24.0	6.07	4.952	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
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	CC
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	102.54	0.0	30.1	30.5	16.4	14.16	2.155	
3,300.0	3,299.6	3,299.6	3,299.6	7.3	7.3	115.81	0.0	30.1	33.1	18.5	14.59	2.270	
3,400.0	3,398.8	3,400.2	3,400.1	7.5	7.5	129.89	2.6	29.6	38.8	23.8	14.99	2.587	
3,500.0	3,497.1	3,501.3	3,500.9	7.8	7.8	140.13	10.4	28.3	46.0	30.7	15.34	2.999	
3,600.0	3,594.3	3,603.0	3,601.7	8.0	8.0	147.58	23.6	26.0	54.1	38.5	15.64	3.458	
3,700.0	3,690.2	3,705.2	3,702.2	8.3	8.2	153.15	42.2	22.8	62.7	46.8	15.91	3.941	
3,800.0	3,784.4	3,808.0	3,802.1	8.7	8.5	157.47	66.2	18.7	71.6	55.4	16.15	4.432	
3,900.0	3,876.8	3,911.4	3,901.0	9.1	8.8	160.92	95.6	13.6	80.5	64.2	16.35	4.924	
4,000.0	3,967.1	4,015.4	3,998.8	9.5	9.2	163.77	130.5	7.6	89.5	72.9	16.53	5.412	
4,100.0	4,054.9	4,119.9	4,095.0	10.1	9.6	166.18	170.8	0.6	98.3	81.6	16.69	5.892	
4,200.0	4,141.6	4,225.2	4,189.4	10.7	10.1	168.01	216.6	-7.2	104.4	87.2	17.21	6.070	
4,300.0	4,228.2	4,329.4	4,280.4	11.4	10.7	169.16	266.7	-15.9	105.4	87.6	17.76	5.933	
4,400.0	4,314.8	4,429.4	4,366.9	12.1	11.3	170.13	316.1	-24.4	104.9	86.5	18.33	5.721	
4,500.0	4,401.4	4,529.4	4,453.4	12.9	12.0	171.11	365.5	-32.9	104.4	85.5	18.92	5.518	
4,600.0	4,488.0	4,629.4	4,539.9	13.7	12.7	172.10	415.0	-41.4	103.9	84.4	19.51	5.326	
4,700.0	4,574.7	4,729.4	4,626.4	14.5	13.5	173.10	464.4	-49.9	103.5	83.4	20.12	5.143	
4,800.0	4,661.3	4,829.3	4,712.9	15.3	14.3	174.11	513.8	-58.4	103.1	82.3	20.75	4.969	
4,900.0	4,747.9	4,929.3	4,799.4	16.1	15.1	175.12	563.2	-66.9	102.7	81.3	21.38	4.804	
5,000.0	4,834.5	5,029.3	4,885.9	17.0	15.9	176.14	612.6	-75.5	102.4	80.4	22.03	4.647	
5,100.0	4,921.2	5,129.3	4,972.4	17.9	16.7	177.17	662.1	-84.0	102.1	79.4	22.70	4.497	
5,200.0	5,007.8	5,229.3	5,058.8	18.7	17.6	178.20	711.5	-92.5	101.8	78.4	23.39	4.354	
5,300.0	5,094.4	5,329.2	5,145.3	19.6	18.5	179.24	760.9	-101.0	101.6	77.5	24.09	4.218	
5,400.0	5,181.0	5,429.2	5,231.8	20.5	19.3	-179.72	810.3	-109.5	101.4	76.6	24.81	4.086	
5,500.0	5,267.6	5,529.2	5,318.3	21.4	20.2	-178.68	859.8	-118.0	101.2	75.7	25.56	3.960	
5,600.0	5,354.3	5,629.2	5,404.8	22.3	21.1	-177.63	909.2	-126.5	101.1	74.8	26.34	3.838	
5,700.0	5,440.9	5,729.2	5,491.3	23.2	22.0	-176.58	958.6	-135.0	101.0	73.8	27.14	3.721	
5,800.0	5,527.5	5,829.2	5,577.8	24.2	22.9	-175.52	1,008.0	-143.5	100.9	72.9	27.98	3.607	
5,900.0	5,614.1	5,929.1	5,664.3	25.1	23.9	-174.47	1,057.4	-152.0	100.9	72.0	28.85	3.497	
5,940.4	5,649.2	5,969.6	5,699.3	25.5	24.2	-174.04	1,077.4	-155.5	100.9	71.7	29.22	3.453	
6,000.0	5,700.8	6,029.1	5,750.8	26.0	24.8	-173.41	1,106.9	-160.6	100.9	71.1	29.76	3.390	
6,100.0	5,787.4	6,129.1	5,837.3	26.9	25.7	-172.36	1,156.3	-169.1	100.9	70.2	30.71	3.286	
6,200.0	5,874.0	6,229.1	5,923.8	27.9	26.6	-171.31	1,205.7	-177.6	101.0	69.3	31.70	3.186	
6,300.0	5,960.6	6,329.1	6,010.3	28.8	27.6	-170.26	1,255.1	-186.1	101.1	68.4	32.74	3.088	
6,400.0	6,047.2	6,429.1	6,096.8	29.8	28.5	-169.21	1,304.6	-194.6	101.3	67.4	33.82	2.994	
6,500.0	6,133.9	6,529.0	6,183.3	30.7	29.4	-168.16	1,354.0	-203.1	101.4	66.5	34.95	2.902	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
6,600.0	6,220.5	6,629.0	6,269.8	31.6	30.4	-167.12	1,403.4	-211.6	101.6	65.5	36.12	2.814	
6,700.0	6,307.1	6,729.0	6,356.3	32.6	31.3	-166.09	1,452.8	-220.1	101.9	64.5	37.34	2.728	
6,800.0	6,393.7	6,829.0	6,442.8	33.5	32.3	-165.05	1,502.2	-228.6	102.1	63.5	38.62	2.645	
6,900.0	6,480.4	6,929.9	6,530.1	34.5	33.2	-164.38	1,552.2	-236.6	102.4	62.6	39.79	2.572	
7,000.0	6,567.0	7,031.1	6,617.4	35.4	34.0	-172.88	1,602.2	-228.1	101.0	63.1	37.83	2.669	
7,006.5	6,572.6	7,037.4	6,622.7	35.5	34.0	-173.84	1,605.3	-226.9	101.0	63.3	37.67	2.680	
7,100.0	6,653.6	7,121.3	6,691.9	36.4	34.6	169.27	1,645.1	-201.5	106.7	67.6	39.04	2.732	
7,200.0	6,740.3	7,197.1	6,749.8	37.3	35.0	140.13	1,678.6	-165.8	132.2	83.4	48.86	2.706	
7,300.0	6,825.9	7,267.1	6,797.7	38.0	35.3	105.51	1,706.4	-123.3	167.7	111.2	56.46	2.970	
7,400.0	6,906.4	7,334.1	6,837.6	38.7	35.6	82.16	1,729.7	-74.8	202.9	145.6	57.31	3.541	
7,500.0	6,977.7	7,400.0	6,870.1	39.2	35.8	67.47	1,748.9	-20.8	233.9	180.8	53.12	4.403	
7,600.0	7,036.1	7,462.7	6,894.2	39.6	36.0	58.50	1,763.2	35.1	258.8	213.1	45.67	5.666	
7,700.0	7,078.5	7,525.0	6,911.0	40.0	36.1	53.19	1,773.5	94.2	276.5	239.6	36.90	7.493	
7,800.0	7,102.9	7,587.5	6,920.5	40.2	36.2	50.49	1,779.5	155.7	286.5	256.9	29.56	9.692	
7,900.0	7,108.6	7,659.2	6,922.6	40.3	36.3	49.87	1,781.4	227.2	288.6	260.8	27.82	10.374	
8,000.0	7,108.6	7,759.2	6,922.6	40.5	36.5	49.82	1,782.4	327.2	288.3	258.3	29.99	9.612	
8,100.0	7,108.6	7,859.2	6,922.6	40.8	36.8	49.76	1,783.4	427.2	288.0	255.4	32.59	8.837	
8,200.0	7,108.6	7,959.2	6,922.6	41.1	37.2	49.71	1,784.4	527.2	287.6	252.1	35.53	8.096	
8,300.0	7,108.6	8,059.2	6,922.6	41.6	37.8	49.65	1,785.4	627.2	287.3	248.6	38.73	7.418	
8,400.0	7,108.6	8,159.2	6,922.6	42.3	38.6	49.60	1,786.5	727.2	287.0	244.8	42.14	6.810	
8,500.0	7,108.6	8,259.2	6,922.6	43.1	39.6	49.54	1,787.5	827.2	286.7	241.0	45.70	6.272	
8,600.0	7,108.6	8,359.2	6,922.6	44.2	40.9	49.49	1,788.5	927.2	286.3	236.9	49.38	5.798	
8,700.0	7,108.6	8,459.2	6,922.6	45.5	42.5	49.43	1,789.5	1,027.2	286.0	232.8	53.16	5.380	
8,800.0	7,108.6	8,559.2	6,922.6	47.0	44.2	49.38	1,790.5	1,127.2	285.7	228.7	57.01	5.011	
8,900.0	7,108.6	8,659.2	6,922.6	48.7	46.2	49.32	1,791.5	1,227.2	285.4	224.4	60.92	4.684	
9,000.0	7,108.6	8,759.2	6,922.6	50.6	48.3	49.27	1,792.5	1,327.2	285.0	220.2	64.87	4.394	
9,100.0	7,108.6	8,859.2	6,922.6	52.6	50.5	49.21	1,793.5	1,427.1	284.7	215.9	68.86	4.135	
9,200.0	7,108.6	8,959.2	6,922.6	54.7	52.8	49.15	1,794.5	1,527.1	284.4	211.5	72.88	3.902	
9,300.0	7,108.6	9,059.2	6,922.6	56.9	55.1	49.10	1,795.5	1,627.1	284.1	207.1	76.92	3.693	
9,400.0	7,108.6	9,159.2	6,922.6	59.2	57.6	49.04	1,796.6	1,727.1	283.7	202.8	80.98	3.504	
9,500.0	7,108.6	9,259.2	6,922.6	61.6	60.0	48.98	1,797.6	1,827.1	283.4	198.4	85.06	3.332	
9,600.0	7,108.6	9,359.2	6,922.6	64.0	62.5	48.93	1,798.6	1,927.1	283.1	194.0	89.15	3.176	
9,700.0	7,108.6	9,459.2	6,922.6	66.4	65.1	48.87	1,799.6	2,027.1	282.8	189.5	93.25	3.033	
9,800.0	7,108.6	9,559.2	6,922.6	68.9	67.6	48.81	1,800.6	2,127.1	282.5	185.1	97.36	2.901	
9,900.0	7,108.6	9,659.2	6,922.6	71.4	70.2	48.76	1,801.6	2,227.1	282.1	180.7	101.47	2.781	
10,000.0	7,108.6	9,759.2	6,922.6	74.0	72.8	48.70	1,802.6	2,327.1	281.8	176.2	105.59	2.669	
10,100.0	7,108.6	9,859.2	6,922.6	76.6	75.4	48.64	1,803.6	2,427.1	281.5	171.8	109.71	2.566	
10,200.0	7,108.6	9,959.2	6,922.6	79.1	78.0	48.59	1,804.6	2,527.1	281.2	167.4	113.83	2.470	
10,300.0	7,108.6	10,059.2	6,922.6	81.7	80.7	48.53	1,805.6	2,627.1	280.9	162.9	117.95	2.381	
10,400.0	7,108.6	10,159.2	6,922.6	84.4	83.3	48.47	1,806.6	2,727.1	280.5	158.5	122.07	2.298	
10,500.0	7,108.6	10,259.1	6,922.6	87.0	86.0	48.41	1,807.7	2,827.1	280.2	154.0	126.19	2.221	
10,600.0	7,108.6	10,359.1	6,922.6	89.6	88.7	48.36	1,808.7	2,927.1	279.9	149.6	130.31	2.148	
10,700.0	7,108.6	10,459.1	6,922.6	92.3	91.4	48.30	1,809.7	3,027.1	279.6	145.2	134.43	2.080	
10,800.0	7,108.6	10,559.1	6,922.6	95.0	94.1	48.24	1,810.7	3,127.0	279.3	140.7	138.55	2.016	
10,900.0	7,108.6	10,659.1	6,922.6	97.6	96.8	48.18	1,811.7	3,227.0	279.0	136.3	142.66	1.955	
11,000.0	7,108.6	10,759.1	6,922.6	100.3	99.5	48.12	1,812.7	3,327.0	278.6	131.9	146.77	1.898	
11,100.0	7,108.6	10,859.1	6,922.6	103.0	102.2	48.06	1,813.7	3,427.0	278.3	127.4	150.87	1.845	
11,200.0	7,108.6	10,959.1	6,922.6	105.7	104.9	48.01	1,814.7	3,527.0	278.0	123.0	154.97	1.794	
11,300.0	7,108.6	11,059.1	6,922.6	108.4	107.6	47.95	1,815.7	3,627.0	277.7	118.6	159.07	1.746	
11,400.0	7,108.6	11,159.1	6,922.6	111.1	110.3	47.89	1,816.7	3,727.0	277.4	114.2	163.16	1.700	
11,500.0	7,108.6	11,259.1	6,922.6	113.8	113.1	47.83	1,817.7	3,827.0	277.1	109.8	167.25	1.657	
11,600.0	7,108.6	11,359.1	6,922.6	116.6	115.8	47.77	1,818.8	3,927.0	276.7	105.4	171.33	1.615	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
11,700.0	7,108.6	11,459.1	6,922.6	119.3	118.5	47.71	1,819.8	4,027.0	276.4	101.0	175.41	1.576	
11,800.0	7,108.6	11,559.1	6,922.6	122.0	121.3	47.65	1,820.8	4,127.0	276.1	96.6	179.48	1.538	
11,900.0	7,108.6	11,659.1	6,922.6	124.7	124.0	47.59	1,821.8	4,227.0	275.8	92.3	183.54	1.503	
12,000.0	7,108.6	11,759.1	6,922.6	127.5	126.8	47.53	1,822.8	4,327.0	275.5	87.9	187.60	1.468	Level 3
12,100.0	7,108.6	11,859.1	6,922.6	130.2	129.5	47.47	1,823.8	4,427.0	275.2	83.5	191.66	1.436	Level 3
12,200.0	7,108.6	11,959.1	6,922.6	132.9	132.3	47.41	1,824.8	4,527.0	274.9	79.1	195.71	1.404	Level 3
12,300.0	7,108.6	12,059.1	6,922.6	135.7	135.0	47.35	1,825.8	4,627.0	274.5	74.8	199.75	1.374	Level 3
12,400.0	7,108.6	12,159.1	6,922.6	138.4	137.8	47.29	1,826.8	4,726.9	274.2	70.4	203.78	1.346	Level 3
12,500.0	7,108.6	12,259.1	6,922.6	141.2	140.5	47.23	1,827.8	4,826.9	273.9	66.1	207.81	1.318	Level 3
12,600.0	7,108.6	12,359.1	6,922.6	143.9	143.3	47.17	1,828.8	4,926.9	273.6	61.8	211.83	1.292	Level 3
12,700.0	7,108.6	12,459.1	6,922.6	146.7	146.1	47.11	1,829.9	5,026.9	273.3	57.4	215.85	1.266	Level 3
12,800.0	7,108.6	12,559.1	6,922.6	149.4	148.8	47.05	1,830.9	5,126.9	273.0	53.1	219.85	1.242	Level 2
12,900.0	7,108.6	12,659.1	6,922.6	152.2	151.6	46.99	1,831.9	5,226.9	272.7	48.8	223.85	1.218	Level 2
13,000.0	7,108.6	12,759.1	6,922.6	155.0	154.3	46.93	1,832.9	5,326.9	272.4	44.5	227.85	1.195	Level 2
13,100.0	7,108.6	12,859.1	6,922.6	157.7	157.1	46.87	1,833.9	5,426.9	272.0	40.2	231.83	1.173	Level 2
13,200.0	7,108.6	12,959.1	6,922.6	160.5	159.9	46.80	1,834.9	5,526.9	271.7	35.9	235.81	1.152	Level 2
13,300.0	7,108.6	13,059.1	6,922.6	163.2	162.7	46.74	1,835.9	5,626.9	271.4	31.6	239.79	1.132	Level 2
13,400.0	7,108.6	13,159.1	6,922.6	166.0	165.4	46.68	1,836.9	5,726.9	271.1	27.4	243.75	1.112	Level 2
13,500.0	7,108.6	13,259.1	6,922.6	168.8	168.2	46.62	1,837.9	5,826.9	270.8	23.1	247.71	1.093	Level 2
13,600.0	7,108.6	13,359.1	6,922.6	171.5	171.0	46.56	1,838.9	5,926.9	270.5	18.8	251.66	1.075	Level 2
13,700.0	7,108.6	13,459.1	6,922.6	174.3	173.7	46.50	1,839.9	6,026.9	270.2	14.6	255.60	1.057	Level 2
13,800.0	7,108.6	13,559.1	6,922.6	177.1	176.5	46.43	1,841.0	6,126.9	269.9	10.3	259.53	1.040	Level 2
13,900.0	7,108.6	13,659.1	6,922.6	179.9	179.3	46.37	1,842.0	6,226.9	269.6	6.1	263.46	1.023	Level 2
14,000.0	7,108.6	13,759.1	6,922.6	182.6	182.1	46.31	1,843.0	6,326.9	269.3	1.9	267.38	1.007	Level 2
14,100.0	7,108.6	13,859.1	6,922.6	185.4	184.9	46.25	1,844.0	6,426.8	269.0	-2.3	271.29	0.991	Level 1
14,200.0	7,108.6	13,959.1	6,922.6	188.2	187.6	46.18	1,845.0	6,526.8	268.6	-6.5	275.19	0.976	Level 1
14,300.0	7,108.6	14,059.1	6,922.6	191.0	190.4	46.12	1,846.0	6,626.8	268.3	-10.7	279.09	0.961	Level 1
14,400.0	7,108.6	14,159.1	6,922.6	193.7	193.2	46.06	1,847.0	6,726.8	268.0	-14.9	282.97	0.947	Level 1
14,500.0	7,108.6	14,259.1	6,922.6	196.5	196.0	45.99	1,848.0	6,826.8	267.7	-19.1	286.85	0.933	Level 1
14,600.0	7,108.6	14,359.1	6,922.6	199.3	198.8	45.93	1,849.0	6,926.8	267.4	-23.3	290.72	0.920	Level 1
14,700.0	7,108.6	14,459.1	6,922.6	202.1	201.5	45.87	1,850.0	7,026.8	267.1	-27.5	294.58	0.907	Level 1
14,800.0	7,108.6	14,559.1	6,922.6	204.8	204.3	45.80	1,851.1	7,126.8	266.8	-31.6	298.44	0.894	Level 1
14,900.0	7,108.6	14,659.1	6,922.6	207.6	207.1	45.74	1,852.1	7,226.8	266.5	-35.8	302.28	0.882	Level 1
15,000.0	7,108.6	14,759.1	6,922.6	210.4	209.9	45.67	1,853.1	7,326.8	266.2	-39.9	306.12	0.870	Level 1
15,100.0	7,108.6	14,859.1	6,922.6	213.2	212.7	45.61	1,854.1	7,426.8	265.9	-44.1	309.95	0.858	Level 1
15,200.0	7,108.6	14,959.1	6,922.6	216.0	215.5	45.55	1,855.1	7,526.8	265.6	-48.2	313.77	0.846	Level 1
15,300.0	7,108.6	15,059.1	6,922.6	218.8	218.3	45.48	1,856.1	7,626.8	265.3	-52.3	317.58	0.835	Level 1
15,400.0	7,108.6	15,159.1	6,922.6	221.5	221.0	45.42	1,857.1	7,726.8	265.0	-56.4	321.38	0.825	Level 1
15,500.0	7,108.6	15,259.1	6,922.6	224.3	223.8	45.35	1,858.1	7,826.8	264.7	-60.5	325.17	0.814	Level 1
15,600.0	7,108.6	15,359.1	6,922.6	227.1	226.6	45.29	1,859.1	7,926.8	264.4	-64.6	328.96	0.804	Level 1
15,700.0	7,108.6	15,459.1	6,922.6	229.9	229.4	45.22	1,860.1	8,026.8	264.1	-68.7	332.74	0.794	Level 1
15,800.0	7,108.6	15,559.1	6,922.6	232.7	232.2	45.16	1,861.1	8,126.7	263.8	-72.7	336.50	0.784	Level 1
15,900.0	7,108.6	15,659.1	6,922.6	235.5	235.0	45.09	1,862.2	8,226.7	263.5	-76.8	340.26	0.774	Level 1
15,915.8	7,108.6	15,674.1	6,922.6	235.9	235.4	45.08	1,862.3	8,241.7	263.4	-77.4	340.84	0.773	Level 1
15,916.8	7,108.6	15,674.1	6,922.6	235.9	235.4	45.08	1,862.3	8,241.7	263.4	-77.4	340.86	0.773	Level 1, ES, SF

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-079HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	59.6	59.6				
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	59.6	59.6	59.3	0.22	264.949	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	59.6	59.6	58.9	0.67	88.316	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	59.6	59.6	58.4	1.12	52.990	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	59.6	59.6	58.0	1.57	37.850	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	59.6	59.6	57.5	2.02	29.439	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	59.6	59.6	57.1	2.47	24.086	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	59.6	59.6	56.6	2.92	20.381	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	59.6	59.6	56.2	3.37	17.663	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	59.6	59.6	55.7	3.82	15.585	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	59.6	59.6	55.3	4.27	13.945	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	59.6	59.6	54.8	4.72	12.617	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	59.6	59.6	54.4	5.17	11.520	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	59.6	59.6	53.9	5.62	10.598	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	59.6	59.6	53.5	6.07	9.813	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	59.6	59.6	53.0	6.52	9.136	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	59.6	59.6	52.6	6.97	8.547	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	59.6	59.6	52.1	7.42	8.029	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	59.6	59.6	51.7	7.87	7.570	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	59.6	59.6	51.2	8.32	7.161	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	59.6	59.6	50.8	8.77	6.794	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	59.6	59.6	50.3	9.22	6.462	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	59.6	59.6	49.9	9.66	6.162	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	59.6	59.6	49.4	10.11	5.888	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	59.6	59.6	49.0	10.56	5.637	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	59.6	59.6	48.5	11.01	5.407	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	59.6	59.6	48.1	11.46	5.195	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	59.6	59.6	47.6	11.91	4.999	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	59.6	59.6	47.2	12.36	4.817	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	59.6	59.6	46.7	12.81	4.648	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	59.6	59.6	46.3	13.26	4.491	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	59.6	59.6	45.8	13.71	4.343	CC
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	100.15	0.0	59.6	60.0	45.8	14.16	4.235	ES
3,300.0	3,299.6	3,299.6	3,299.6	7.3	7.3	107.25	0.0	59.6	61.8	47.2	14.60	4.235	
3,400.0	3,398.8	3,398.8	3,398.8	7.5	7.5	117.78	0.0	59.6	66.9	51.9	15.02	4.454	
3,500.0	3,497.1	3,497.1	3,497.1	7.8	7.7	129.48	0.0	59.6	77.2	61.8	15.39	5.014	
3,600.0	3,594.3	3,594.3	3,594.3	8.0	8.0	140.09	0.0	59.6	93.9	78.2	15.69	5.983	
3,700.0	3,690.2	3,690.2	3,690.2	8.3	8.2	148.54	0.0	59.6	117.4	101.4	15.94	7.363	
3,800.0	3,784.4	3,784.4	3,784.4	8.7	8.4	154.88	0.0	59.6	147.2	131.0	16.13	9.122	
3,900.0	3,876.8	3,876.8	3,876.8	9.1	8.6	159.53	0.0	59.6	182.9	166.6	16.29	11.229	
4,000.0	3,967.1	3,967.1	3,967.1	9.5	8.8	162.96	0.0	59.6	224.0	207.6	16.40	13.660	
4,100.0	4,054.9	4,054.9	4,054.9	10.1	9.0	165.52	0.0	59.6	270.4	253.9	16.49	16.399	
4,200.0	4,141.6	4,141.6	4,141.6	10.7	9.2	167.75	0.0	59.6	319.3	302.4	16.90	18.890	
4,300.0	4,228.2	4,228.2	4,228.2	11.4	9.4	169.39	0.0	59.6	368.5	351.2	17.34	21.249	
4,400.0	4,314.8	4,318.9	4,318.9	12.1	9.6	170.70	0.1	59.5	417.8	400.0	17.81	23.466	
4,500.0	4,401.4	4,434.0	4,433.9	12.9	9.9	171.99	4.5	58.1	463.9	445.6	18.32	25.321	
4,600.0	4,488.0	4,556.2	4,555.4	13.7	10.1	173.10	16.3	54.4	504.4	485.6	18.86	26.746	
4,700.0	4,574.7	4,684.9	4,682.3	14.5	10.4	174.11	36.9	48.0	539.0	519.6	19.43	27.740	
4,800.0	4,661.3	4,819.6	4,813.2	15.3	10.8	175.07	67.0	38.6	567.1	547.1	20.03	28.315	
4,900.0	4,747.9	4,959.2	4,946.1	16.1	11.2	176.04	107.5	25.9	588.4	567.7	20.66	28.482	
5,000.0	4,834.5	5,102.4	5,079.0	17.0	11.7	177.03	158.5	10.0	602.5	581.2	21.32	28.262	
5,100.0	4,921.2	5,247.7	5,209.3	17.9	12.3	178.10	219.8	-9.2	609.3	587.2	22.02	27.675	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-079HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,007.8	5,367.9	5,313.6	18.7	12.9	179.05	276.9	-27.1	609.7	587.1	22.68	26.884	
5,300.0	5,094.4	5,467.6	5,399.5	19.6	13.5	179.85	325.0	-42.1	609.6	586.3	23.32	26.142	
5,385.6	5,168.5	5,552.8	5,473.1	20.4	14.1	-179.47	366.2	-55.0	609.5	585.6	23.88	25.524	
5,400.0	5,181.0	5,567.2	5,485.5	20.5	14.2	-179.35	373.1	-57.2	609.5	585.6	23.98	25.421	
5,500.0	5,267.6	5,666.8	5,571.4	21.4	14.9	-178.55	421.2	-72.2	609.6	584.9	24.66	24.719	
5,600.0	5,354.3	5,766.5	5,657.4	22.3	15.6	-177.75	469.3	-87.2	609.8	584.4	25.37	24.035	
5,700.0	5,440.9	5,866.1	5,743.3	23.2	16.3	-176.96	517.4	-102.3	610.1	584.0	26.11	23.370	
5,800.0	5,527.5	5,965.8	5,829.3	24.2	17.1	-176.16	565.5	-117.3	610.6	583.7	26.87	22.723	
5,900.0	5,614.1	6,065.4	5,915.2	25.1	17.9	-175.36	613.6	-132.4	611.1	583.4	27.66	22.093	
6,000.0	5,700.8	6,165.0	6,001.2	26.0	18.7	-174.57	661.7	-147.4	611.8	583.3	28.48	21.480	
6,100.0	5,787.4	6,264.7	6,087.1	26.9	19.6	-173.78	709.8	-162.5	612.6	583.2	29.33	20.883	
6,200.0	5,874.0	6,364.3	6,173.1	27.9	20.4	-172.99	757.9	-177.5	613.5	583.3	30.22	20.303	
6,300.0	5,960.6	6,463.9	6,259.0	28.8	21.3	-172.20	806.0	-192.5	614.5	583.4	31.13	19.740	
6,400.0	6,047.2	6,563.6	6,345.0	29.8	22.2	-171.42	854.1	-207.6	615.6	583.6	32.08	19.192	
6,500.0	6,133.9	6,663.2	6,430.9	30.7	23.1	-170.64	902.2	-222.6	616.9	583.8	33.06	18.661	
6,600.0	6,220.5	6,766.9	6,520.7	31.6	23.9	-170.04	952.4	-236.0	618.1	584.1	34.01	18.173	
6,700.0	6,307.1	6,874.1	6,613.6	32.6	24.6	-171.41	1,004.6	-228.3	618.3	583.8	34.42	17.963	
6,731.5	6,334.4	6,905.7	6,640.5	32.9	24.8	-172.27	1,019.7	-221.1	618.2	583.8	34.44	17.950	
6,800.0	6,393.7	6,969.2	6,692.6	33.5	25.1	-174.58	1,049.1	-200.1	618.7	584.2	34.44	17.967	
6,900.0	6,480.4	7,047.1	6,752.1	34.5	25.5	-178.42	1,082.8	-162.9	622.8	588.2	34.57	18.015	
7,000.0	6,567.0	7,108.6	6,794.4	35.4	25.7	177.87	1,106.8	-125.4	633.9	598.9	35.07	18.076	
7,100.0	6,653.6	7,156.5	6,824.0	36.4	25.8	174.66	1,123.6	-91.7	654.4	618.5	35.88	18.236	
7,200.0	6,740.3	7,200.0	6,847.9	37.3	26.0	159.66	1,137.3	-58.1	684.5	647.0	37.48	18.263	
7,300.0	6,825.9	7,234.7	6,864.9	38.0	26.0	132.36	1,147.0	-29.5	718.7	678.6	40.02	17.955	
7,400.0	6,906.4	7,275.0	6,882.0	38.7	26.1	111.28	1,156.9	5.6	752.7	710.6	42.09	17.884	
7,500.0	6,977.7	7,317.9	6,897.1	39.2	26.2	96.69	1,165.6	44.8	783.7	741.1	42.60	18.397	
7,600.0	7,036.1	7,360.8	6,908.8	39.6	26.2	87.06	1,172.5	85.6	809.4	767.9	41.48	19.512	
7,700.0	7,078.5	7,400.0	6,916.4	40.0	26.3	81.12	1,177.0	123.7	828.2	788.7	39.53	20.950	
7,800.0	7,102.9	7,450.0	6,921.7	40.2	26.3	77.93	1,180.4	173.3	839.0	800.8	38.23	21.948	
7,900.0	7,108.6	7,508.0	6,922.6	40.3	26.4	77.23	1,181.3	231.2	841.6	802.8	38.81	21.683	
8,000.0	7,108.6	7,608.0	6,922.6	40.5	26.7	77.23	1,182.1	331.2	841.4	799.9	41.49	20.280	
8,100.0	7,108.6	7,708.0	6,922.6	40.8	27.2	77.23	1,182.9	431.2	841.2	796.5	44.68	18.827	
8,200.0	7,108.6	7,808.0	6,922.6	41.1	28.1	77.22	1,183.6	531.2	841.0	792.8	48.29	17.418	
8,300.0	7,108.6	7,908.0	6,922.6	41.6	29.5	77.22	1,184.4	631.2	840.9	788.7	52.22	16.103	
8,400.0	7,108.6	8,008.0	6,922.6	42.3	31.3	77.22	1,185.1	731.2	840.7	784.3	56.41	14.904	
8,500.0	7,108.6	8,108.0	6,922.6	43.1	33.3	77.22	1,185.9	831.2	840.5	779.7	60.80	13.824	
8,600.0	7,108.6	8,208.0	6,922.6	44.2	35.4	77.21	1,186.7	931.2	840.4	775.0	65.36	12.857	
8,700.0	7,108.6	8,308.0	6,922.6	45.5	37.7	77.21	1,187.4	1,031.2	840.2	770.1	70.05	11.993	
8,800.0	7,108.6	8,408.0	6,922.6	47.0	40.0	77.21	1,188.2	1,131.2	840.0	765.2	74.85	11.222	
8,900.0	7,108.6	8,508.0	6,922.6	48.7	42.5	77.20	1,188.9	1,231.2	839.8	760.1	79.74	10.532	
9,000.0	7,108.6	8,608.0	6,922.6	50.6	44.9	77.20	1,189.7	1,331.2	839.7	755.0	84.70	9.914	
9,100.0	7,108.6	8,708.0	6,922.6	52.6	47.4	77.20	1,190.5	1,431.2	839.5	749.8	89.72	9.357	
9,200.0	7,108.6	8,808.0	6,922.6	54.7	50.0	77.20	1,191.2	1,531.2	839.3	744.5	94.79	8.855	
9,300.0	7,108.6	8,908.0	6,922.6	56.9	52.6	77.19	1,192.0	1,631.2	839.2	739.3	99.90	8.400	
9,400.0	7,108.6	9,008.0	6,922.6	59.2	55.2	77.19	1,192.7	1,731.2	839.0	733.9	105.05	7.986	
9,500.0	7,108.6	9,108.0	6,922.6	61.6	57.8	77.19	1,193.5	1,831.2	838.8	728.6	110.23	7.609	
9,600.0	7,108.6	9,208.0	6,922.6	64.0	60.4	77.19	1,194.3	1,931.2	838.6	723.2	115.44	7.264	
9,700.0	7,108.6	9,308.0	6,922.6	66.4	63.1	77.18	1,195.0	2,031.2	838.5	717.8	120.68	6.948	
9,800.0	7,108.6	9,408.0	6,922.6	68.9	65.7	77.18	1,195.8	2,131.2	838.3	712.4	125.93	6.657	
9,900.0	7,108.6	9,508.0	6,922.6	71.4	68.4	77.18	1,196.5	2,231.2	838.1	706.9	131.20	6.388	
10,000.0	7,108.6	9,608.0	6,922.6	74.0	71.1	77.18	1,197.3	2,331.2	838.0	701.5	136.49	6.139	
10,100.0	7,108.6	9,708.0	6,922.6	76.6	73.8	77.17	1,198.1	2,431.2	837.8	696.0	141.80	5.908	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-079HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.0	7,108.6	9,808.0	6,922.6	79.1	76.5	77.17	1,198.8	2,531.2	837.6	690.5	147.11	5.694	
10,300.0	7,108.6	9,908.0	6,922.6	81.7	79.2	77.17	1,199.6	2,631.2	837.4	685.0	152.44	5.494	
10,400.0	7,108.6	10,008.0	6,922.6	84.4	81.9	77.16	1,200.3	2,731.2	837.3	679.5	157.78	5.307	
10,500.0	7,108.6	10,108.0	6,922.6	87.0	84.6	77.16	1,201.1	2,831.2	837.1	674.0	163.12	5.132	
10,600.0	7,108.6	10,208.0	6,922.6	89.6	87.3	77.16	1,201.9	2,931.1	836.9	668.4	168.48	4.968	
10,700.0	7,108.6	10,308.0	6,922.6	92.3	90.1	77.16	1,202.6	3,031.1	836.7	662.9	173.84	4.813	
10,800.0	7,108.6	10,408.0	6,922.6	95.0	92.8	77.15	1,203.4	3,131.1	836.6	657.4	179.21	4.668	
10,900.0	7,108.6	10,508.0	6,922.6	97.6	95.5	77.15	1,204.1	3,231.1	836.4	651.8	184.59	4.531	
11,000.0	7,108.6	10,608.0	6,922.6	100.3	98.3	77.15	1,204.9	3,331.1	836.2	646.3	189.97	4.402	
11,100.0	7,108.6	10,708.0	6,922.6	103.0	101.0	77.15	1,205.7	3,431.1	836.1	640.7	195.35	4.280	
11,200.0	7,108.6	10,808.0	6,922.6	105.7	103.8	77.14	1,206.4	3,531.1	835.9	635.1	200.75	4.164	
11,300.0	7,108.6	10,908.0	6,922.6	108.4	106.5	77.14	1,207.2	3,631.1	835.7	629.6	206.14	4.054	
11,400.0	7,108.6	11,008.0	6,922.6	111.1	109.3	77.14	1,207.9	3,731.1	835.5	624.0	211.54	3.950	
11,500.0	7,108.6	11,108.0	6,922.6	113.8	112.1	77.13	1,208.7	3,831.1	835.4	618.4	216.95	3.851	
11,600.0	7,108.6	11,208.0	6,922.6	116.6	114.8	77.13	1,209.5	3,931.1	835.2	612.8	222.35	3.756	
11,700.0	7,108.6	11,308.0	6,922.6	119.3	117.6	77.13	1,210.2	4,031.1	835.0	607.3	227.76	3.666	
11,800.0	7,108.6	11,408.0	6,922.6	122.0	120.3	77.13	1,211.0	4,131.1	834.9	601.7	233.18	3.580	
11,900.0	7,108.6	11,508.0	6,922.6	124.7	123.1	77.12	1,211.7	4,231.1	834.7	596.1	238.59	3.498	
12,000.0	7,108.6	11,608.0	6,922.6	127.5	125.9	77.12	1,212.5	4,331.1	834.5	590.5	244.01	3.420	
12,100.0	7,108.6	11,708.0	6,922.6	130.2	128.7	77.12	1,213.3	4,431.1	834.3	584.9	249.43	3.345	
12,200.0	7,108.6	11,808.0	6,922.6	132.9	131.4	77.12	1,214.0	4,531.1	834.2	579.3	254.86	3.273	
12,300.0	7,108.6	11,908.0	6,922.6	135.7	134.2	77.11	1,214.8	4,631.1	834.0	573.7	260.28	3.204	
12,400.0	7,108.6	12,008.0	6,922.6	138.4	137.0	77.11	1,215.5	4,731.1	833.8	568.1	265.71	3.138	
12,500.0	7,108.6	12,108.0	6,922.6	141.2	139.7	77.11	1,216.3	4,831.1	833.6	562.5	271.14	3.075	
12,600.0	7,108.6	12,208.0	6,922.6	143.9	142.5	77.11	1,217.1	4,931.1	833.5	556.9	276.57	3.014	
12,700.0	7,108.6	12,308.0	6,922.6	146.7	145.3	77.10	1,217.8	5,031.1	833.3	551.3	282.01	2.955	
12,800.0	7,108.6	12,408.0	6,922.6	149.4	148.1	77.10	1,218.6	5,131.1	833.1	545.7	287.44	2.898	
12,900.0	7,108.6	12,508.0	6,922.6	152.2	150.9	77.10	1,219.3	5,231.1	833.0	540.1	292.88	2.844	
13,000.0	7,108.6	12,608.0	6,922.6	155.0	153.6	77.09	1,220.1	5,331.1	832.8	534.5	298.31	2.792	
13,100.0	7,108.6	12,708.0	6,922.6	157.7	156.4	77.09	1,220.9	5,431.1	832.6	528.9	303.75	2.741	
13,200.0	7,108.6	12,808.0	6,922.6	160.5	159.2	77.09	1,221.6	5,531.1	832.4	523.3	309.19	2.692	
13,300.0	7,108.6	12,908.0	6,922.6	163.2	162.0	77.09	1,222.4	5,631.1	832.3	517.6	314.63	2.645	
13,400.0	7,108.6	13,008.0	6,922.6	166.0	164.8	77.08	1,223.1	5,731.1	832.1	512.0	320.08	2.600	
13,500.0	7,108.6	13,108.0	6,922.6	168.8	167.6	77.08	1,223.9	5,831.1	831.9	506.4	325.52	2.556	
13,600.0	7,108.6	13,208.0	6,922.6	171.5	170.3	77.08	1,224.7	5,931.1	831.8	500.8	330.96	2.513	
13,700.0	7,108.6	13,308.0	6,922.6	174.3	173.1	77.08	1,225.4	6,031.1	831.6	495.2	336.41	2.472	
13,800.0	7,108.6	13,408.0	6,922.6	177.1	175.9	77.07	1,226.2	6,131.0	831.4	489.6	341.85	2.432	
13,900.0	7,108.6	13,508.0	6,922.6	179.9	178.7	77.07	1,226.9	6,231.0	831.2	483.9	347.30	2.393	
14,000.0	7,108.6	13,608.0	6,922.6	182.6	181.5	77.07	1,227.7	6,331.0	831.1	478.3	352.75	2.356	
14,100.0	7,108.6	13,708.0	6,922.6	185.4	184.3	77.06	1,228.5	6,431.0	830.9	472.7	358.19	2.320	
14,200.0	7,108.6	13,808.0	6,922.6	188.2	187.1	77.06	1,229.2	6,531.0	830.7	467.1	363.64	2.284	
14,300.0	7,108.6	13,908.0	6,922.6	191.0	189.9	77.06	1,230.0	6,631.0	830.6	461.5	369.09	2.250	
14,400.0	7,108.6	14,008.0	6,922.6	193.7	192.6	77.06	1,230.7	6,731.0	830.4	455.8	374.54	2.217	
14,500.0	7,108.6	14,108.0	6,922.6	196.5	195.4	77.05	1,231.5	6,831.0	830.2	450.2	379.99	2.185	
14,600.0	7,108.6	14,208.0	6,922.6	199.3	198.2	77.05	1,232.3	6,931.0	830.0	444.6	385.44	2.153	
14,700.0	7,108.6	14,308.0	6,922.6	202.1	201.0	77.05	1,233.0	7,031.0	829.9	439.0	390.90	2.123	
14,800.0	7,108.6	14,408.0	6,922.6	204.8	203.8	77.05	1,233.8	7,131.0	829.7	433.3	396.35	2.093	
14,900.0	7,108.6	14,508.0	6,922.6	207.6	206.6	77.04	1,234.5	7,231.0	829.5	427.7	401.80	2.065	
15,000.0	7,108.6	14,608.0	6,922.6	210.4	209.4	77.04	1,235.3	7,331.0	829.4	422.1	407.25	2.036	
15,100.0	7,108.6	14,708.0	6,922.6	213.2	212.2	77.04	1,236.1	7,431.0	829.2	416.5	412.71	2.009	
15,200.0	7,108.6	14,808.0	6,922.6	216.0	215.0	77.03	1,236.8	7,531.0	829.0	410.8	418.16	1.983	
15,300.0	7,108.6	14,908.0	6,922.6	218.8	217.8	77.03	1,237.6	7,631.0	828.8	405.2	423.62	1.957	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-079HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,400.0	7,108.6	15,008.0	6,922.6	221.5	220.6	77.03	1,238.3	7,731.0	828.7	399.6	429.07	1.931	
15,500.0	7,108.6	15,108.0	6,922.6	224.3	223.4	77.03	1,239.1	7,831.0	828.5	394.0	434.53	1.907	
15,600.0	7,108.6	15,208.0	6,922.6	227.1	226.2	77.02	1,239.9	7,931.0	828.3	388.3	439.98	1.883	
15,700.0	7,108.6	15,308.0	6,922.6	229.9	229.0	77.02	1,240.6	8,031.0	828.1	382.7	445.44	1.859	
15,800.0	7,108.6	15,408.0	6,922.6	232.7	231.8	77.02	1,241.4	8,131.0	828.0	377.1	450.89	1.836	
15,900.0	7,108.6	15,508.0	6,922.6	235.5	234.5	77.02	1,242.1	8,231.0	827.8	371.5	456.35	1.814	
15,914.0	7,108.6	15,520.6	6,922.6	235.9	234.9	77.01	1,242.2	8,243.6	827.8	370.7	457.07	1.811	
15,916.8	7,108.6	15,520.6	6,922.6	235.9	234.9	77.01	1,242.2	8,243.6	827.8	370.6	457.15	1.811	SF

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-119HC - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	89.6	89.6				
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	89.6	89.6	89.4	0.22	398.662	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	89.6	89.6	88.9	0.67	132.887	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	89.6	89.6	88.5	1.12	79.732	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	89.6	89.6	88.0	1.57	56.952	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	89.6	89.6	87.6	2.02	44.296	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	89.6	89.6	87.1	2.47	36.242	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	89.6	89.6	86.7	2.92	30.666	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	89.6	89.6	86.2	3.37	26.577	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	0.0	89.6	89.6	85.8	3.82	23.451	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.02	0.0	89.6	89.6	85.3	4.27	20.982	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.02	0.0	89.6	89.6	84.9	4.72	18.984	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.02	0.0	89.6	89.6	84.4	5.17	17.333	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.02	0.0	89.6	89.6	84.0	5.62	15.946	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.02	0.0	89.6	89.6	83.5	6.07	14.765	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.02	0.0	89.6	89.6	83.1	6.52	13.747	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.02	0.0	89.6	89.6	82.6	6.97	12.860	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.02	0.0	89.6	89.6	82.2	7.42	12.081	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.02	0.0	89.6	89.6	81.7	7.87	11.390	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.02	0.0	89.6	89.6	81.3	8.32	10.775	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.02	0.0	89.6	89.6	80.8	8.77	10.222	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.02	0.0	89.6	89.6	80.4	9.22	9.723	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.02	0.0	89.6	89.6	79.9	9.66	9.271	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.02	0.0	89.6	89.6	79.5	10.11	8.859	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.02	0.0	89.6	89.6	79.0	10.56	8.482	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.02	0.0	89.6	89.6	78.6	11.01	8.136	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.02	0.0	89.6	89.6	78.1	11.46	7.817	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.02	0.0	89.6	89.6	77.7	11.91	7.522	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.02	0.0	89.6	89.6	77.2	12.36	7.248	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.02	0.0	89.6	89.6	76.8	12.81	6.994	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.02	0.0	89.6	89.6	76.3	13.26	6.757	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.02	0.0	89.6	89.6	75.9	13.71	6.535	CC
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	99.32	0.0	89.6	90.0	75.8	14.16	6.356	ES
3,300.0	3,299.6	3,299.6	3,299.6	7.3	7.3	104.11	0.0	89.6	91.6	77.0	14.60	6.274	SF
3,400.0	3,398.8	3,398.8	3,398.8	7.5	7.5	111.54	0.0	89.6	95.6	80.6	15.03	6.363	
3,500.0	3,497.1	3,497.1	3,497.1	7.8	7.7	120.61	0.0	89.6	103.8	88.4	15.43	6.726	
3,600.0	3,594.3	3,594.3	3,594.3	8.0	8.0	129.97	0.0	89.6	117.6	101.8	15.78	7.451	
3,700.0	3,690.2	3,690.2	3,690.2	8.3	8.2	138.48	0.0	89.6	137.9	121.8	16.06	8.582	
3,800.0	3,784.4	3,784.4	3,784.4	8.7	8.4	145.58	0.0	89.6	164.8	148.5	16.29	10.118	
3,900.0	3,876.8	3,876.8	3,876.8	9.1	8.6	151.24	0.0	89.6	198.1	181.7	16.46	12.038	
4,000.0	3,967.1	3,967.1	3,967.1	9.5	8.8	155.64	0.0	89.6	237.4	220.8	16.58	14.315	
4,100.0	4,054.9	4,054.9	4,054.9	10.1	9.0	159.06	0.0	89.6	282.2	265.5	16.67	16.923	
4,200.0	4,141.6	4,141.6	4,141.6	10.7	9.2	162.12	0.0	89.6	330.0	312.9	17.07	19.336	
4,300.0	4,228.2	4,228.2	4,228.2	11.4	9.4	164.42	0.0	89.6	378.4	360.9	17.49	21.636	
4,400.0	4,314.8	4,314.8	4,314.8	12.1	9.6	166.21	0.0	89.6	427.1	409.2	17.93	23.820	
4,500.0	4,401.4	4,401.4	4,401.4	12.9	9.8	167.64	0.0	89.6	476.1	457.7	18.39	25.889	
4,600.0	4,488.0	4,488.0	4,488.0	13.7	10.0	168.80	0.0	89.6	525.2	506.4	18.86	27.848	
4,700.0	4,574.7	4,574.7	4,574.7	14.5	10.2	169.76	0.0	89.6	574.6	555.2	19.34	29.701	
4,800.0	4,661.3	4,661.3	4,661.3	15.3	10.4	170.58	0.0	89.6	624.0	604.1	19.84	31.454	
4,900.0	4,747.9	4,747.9	4,747.9	16.1	10.6	171.27	0.0	89.6	673.5	653.1	20.34	33.112	
5,000.0	4,834.5	4,834.5	4,834.5	17.0	10.8	171.87	0.0	89.6	723.0	702.2	20.85	34.682	
5,100.0	4,921.2	4,921.2	4,921.2	17.9	10.9	172.39	0.0	89.6	772.6	751.3	21.36	36.168	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-119HC - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,007.8	5,007.8	5,007.8	18.7	11.1	172.85	0.0	89.6	822.3	800.4	21.88	37.577	
5,300.0	5,094.4	5,094.4	5,094.4	19.6	11.3	173.26	0.0	89.6	872.0	849.6	22.41	38.912	
5,400.0	5,181.0	5,181.0	5,181.0	20.5	11.5	173.62	0.0	89.6	921.7	898.8	22.94	40.179	
5,500.0	5,267.6	5,267.6	5,267.6	21.4	11.7	173.95	0.0	89.6	971.4	948.0	23.48	41.382	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-122HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	138.19	-100.2	89.6	134.4				
100.0	100.0	100.0	100.0	0.1	0.1	138.19	-100.2	89.6	134.4	134.2	0.22	598.036	
200.0	200.0	200.0	200.0	0.3	0.3	138.19	-100.2	89.6	134.4	133.7	0.67	199.345	
300.0	300.0	300.0	300.0	0.6	0.6	138.19	-100.2	89.6	134.4	133.3	1.12	119.607	
400.0	400.0	400.0	400.0	0.8	0.8	138.19	-100.2	89.6	134.4	132.8	1.57	85.434	
500.0	500.0	500.0	500.0	1.0	1.0	138.19	-100.2	89.6	134.4	132.4	2.02	66.448	
600.0	600.0	600.0	600.0	1.2	1.2	138.19	-100.2	89.6	134.4	131.9	2.47	54.367	
700.0	700.0	700.0	700.0	1.5	1.5	138.19	-100.2	89.6	134.4	131.5	2.92	46.003	
800.0	800.0	800.0	800.0	1.7	1.7	138.19	-100.2	89.6	134.4	131.0	3.37	39.869	
900.0	900.0	900.0	900.0	1.9	1.9	138.19	-100.2	89.6	134.4	130.6	3.82	35.179	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	138.19	-100.2	89.6	134.4	130.1	4.27	31.476	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	138.19	-100.2	89.6	134.4	129.7	4.72	28.478	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	138.19	-100.2	89.6	134.4	129.2	5.17	26.002	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	138.19	-100.2	89.6	134.4	128.8	5.62	23.921	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	138.19	-100.2	89.6	134.4	128.3	6.07	22.149	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	138.19	-100.2	89.6	134.4	127.9	6.52	20.622	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	138.19	-100.2	89.6	134.4	127.5	6.97	19.291	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	138.19	-100.2	89.6	134.4	127.0	7.42	18.122	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	138.19	-100.2	89.6	134.4	126.6	7.87	17.087	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	138.19	-100.2	89.6	134.4	126.1	8.32	16.163	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	138.19	-100.2	89.6	134.4	125.7	8.77	15.334	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	138.19	-100.2	89.6	134.4	125.2	9.22	14.586	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	138.19	-100.2	89.6	134.4	124.8	9.66	13.908	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	138.19	-100.2	89.6	134.4	124.3	10.11	13.290	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	138.19	-100.2	89.6	134.4	123.9	10.56	12.724	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	138.19	-100.2	89.6	134.4	123.4	11.01	12.205	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	138.19	-100.2	89.6	134.4	123.0	11.46	11.726	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	138.19	-100.2	89.6	134.4	122.5	11.91	11.284	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	138.19	-100.2	89.6	134.4	122.1	12.36	10.873	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	138.19	-100.2	89.6	134.4	121.6	12.81	10.492	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	138.19	-100.2	89.6	134.4	121.2	13.26	10.136	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	138.19	-100.2	89.6	134.4	120.7	13.71	9.804	CC, ES
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	146.43	-100.2	89.6	136.6	122.4	14.15	9.655	SF
3,300.0	3,299.6	3,299.6	3,299.6	7.3	7.3	148.06	-100.2	89.6	143.2	128.6	14.56	9.836	
3,400.0	3,398.8	3,398.8	3,398.8	7.5	7.5	150.45	-100.2	89.6	154.4	139.5	14.94	10.341	
3,500.0	3,497.1	3,497.1	3,497.1	7.8	7.7	153.24	-100.2	89.6	170.6	155.3	15.28	11.166	
3,600.0	3,594.3	3,594.3	3,594.3	8.0	8.0	156.11	-100.2	89.6	191.8	176.2	15.58	12.313	
3,700.0	3,690.2	3,690.2	3,690.2	8.3	8.2	158.82	-100.2	89.6	218.2	202.3	15.83	13.779	
3,800.0	3,784.4	3,784.4	3,784.4	8.7	8.4	161.25	-100.2	89.6	249.8	233.7	16.05	15.563	
3,900.0	3,876.8	3,876.8	3,876.8	9.1	8.6	163.36	-100.2	89.6	286.5	270.3	16.22	17.659	
4,000.0	3,967.1	3,967.1	3,967.1	9.5	8.8	165.15	-100.2	89.6	328.2	311.8	16.36	20.064	
4,100.0	4,054.9	4,054.9	4,054.9	10.1	9.0	166.65	-100.2	89.6	374.8	358.3	16.46	22.770	
4,200.0	4,141.6	4,141.6	4,141.6	10.7	9.2	168.20	-100.2	89.6	423.9	407.0	16.89	25.091	
4,300.0	4,228.2	4,228.2	4,228.2	11.4	9.4	169.44	-100.2	89.6	473.1	455.8	17.34	27.281	
4,400.0	4,314.8	4,314.8	4,314.8	12.1	9.6	170.44	-100.2	89.6	522.5	504.7	17.80	29.345	
4,500.0	4,401.4	4,401.4	4,401.4	12.9	9.8	171.27	-100.2	89.6	572.0	553.7	18.28	31.292	
4,600.0	4,488.0	4,488.0	4,488.0	13.7	10.0	171.96	-100.2	89.6	621.5	602.8	18.76	33.126	
4,700.0	4,574.7	4,574.7	4,574.7	14.5	10.2	172.56	-100.2	89.6	671.2	651.9	19.26	34.855	
4,800.0	4,661.3	4,661.3	4,661.3	15.3	10.4	173.07	-100.2	89.6	720.8	701.1	19.76	36.486	
4,900.0	4,747.9	4,747.9	4,747.9	16.1	10.6	173.52	-100.2	89.6	770.5	750.3	20.26	38.026	
5,000.0	4,834.5	4,834.5	4,834.5	17.0	10.8	173.91	-100.2	89.6	820.3	799.5	20.78	39.479	
5,100.0	4,921.2	4,921.2	4,921.2	17.9	10.9	174.26	-100.2	89.6	870.1	848.8	21.30	40.853	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-122HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,007.8	5,007.8	5,007.8	18.7	11.1	174.57	-100.2	89.6	919.8	898.0	21.82	42.152	
5,300.0	5,094.4	5,094.4	5,094.4	19.6	11.3	174.85	-100.2	89.6	969.6	947.3	22.35	43.381	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (11-21-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-21-13) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	119.7	119.7				
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	119.7	119.7	119.4	0.22	532.375	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	119.7	119.7	119.0	0.67	177.458	
300.0	300.0	300.0	300.0	0.6	0.6	90.00	0.0	119.7	119.7	118.5	1.12	106.475	
400.0	400.0	400.0	400.0	0.8	0.8	90.00	0.0	119.7	119.7	118.1	1.57	76.054	
500.0	500.0	500.0	500.0	1.0	1.0	90.00	0.0	119.7	119.7	117.6	2.02	59.153	
600.0	600.0	600.0	600.0	1.2	1.2	90.00	0.0	119.7	119.7	117.2	2.47	48.398	
700.0	700.0	700.0	700.0	1.5	1.5	90.00	0.0	119.7	119.7	116.7	2.92	40.952	
800.0	800.0	800.0	800.0	1.7	1.7	90.00	0.0	119.7	119.7	116.3	3.37	35.492	
900.0	900.0	900.0	900.0	1.9	1.9	90.00	0.0	119.7	119.7	115.8	3.82	31.316	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.00	0.0	119.7	119.7	115.4	4.27	28.020	
1,100.0	1,100.0	1,100.0	1,100.0	2.4	2.4	90.00	0.0	119.7	119.7	114.9	4.72	25.351	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	90.00	0.0	119.7	119.7	114.5	5.17	23.147	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	90.00	0.0	119.7	119.7	114.0	5.62	21.295	
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	90.00	0.0	119.7	119.7	113.6	6.07	19.718	
1,500.0	1,500.0	1,500.0	1,500.0	3.3	3.3	90.00	0.0	119.7	119.7	113.1	6.52	18.358	
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	90.00	0.0	119.7	119.7	112.7	6.97	17.173	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	90.00	0.0	119.7	119.7	112.2	7.42	16.133	
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	90.00	0.0	119.7	119.7	111.8	7.87	15.211	
1,900.0	1,900.0	1,900.0	1,900.0	4.2	4.2	90.00	0.0	119.7	119.7	111.3	8.32	14.389	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	90.00	0.0	119.7	119.7	110.9	8.77	13.651	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	90.00	0.0	119.7	119.7	110.4	9.22	12.985	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	90.00	0.0	119.7	119.7	110.0	9.66	12.381	
2,300.0	2,300.0	2,300.0	2,300.0	5.1	5.1	90.00	0.0	119.7	119.7	109.5	10.11	11.831	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	90.00	0.0	119.7	119.7	109.1	10.56	11.327	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	90.00	0.0	119.7	119.7	108.6	11.01	10.865	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	90.00	0.0	119.7	119.7	108.2	11.46	10.439	
2,700.0	2,700.0	2,700.0	2,700.0	6.0	6.0	90.00	0.0	119.7	119.7	107.7	11.91	10.045	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	90.00	0.0	119.7	119.7	107.3	12.36	9.680	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	90.00	0.0	119.7	119.7	106.8	12.81	9.340	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	90.00	0.0	119.7	119.7	106.4	13.26	9.023	
3,100.0	3,100.0	3,100.0	3,100.0	6.9	6.9	90.00	0.0	119.7	119.7	105.9	13.71	8.727	CC
3,200.0	3,200.0	3,200.0	3,200.0	7.1	7.1	98.89	0.0	119.7	120.0	105.9	14.16	8.478	ES
3,300.0	3,299.6	3,299.6	3,299.6	7.3	7.3	102.49	0.0	119.7	121.5	106.9	14.60	8.322	
3,400.0	3,398.8	3,398.8	3,398.8	7.5	7.5	108.19	0.0	119.7	125.0	110.0	15.03	8.313	SF
3,500.0	3,497.1	3,497.1	3,497.1	7.8	7.7	115.44	0.0	119.7	131.9	116.4	15.45	8.535	
3,600.0	3,594.3	3,594.3	3,594.3	8.0	8.0	123.42	0.0	119.7	143.6	127.8	15.83	9.072	
3,700.0	3,690.2	3,690.2	3,690.2	8.3	8.2	131.27	0.0	119.7	161.4	145.2	16.16	9.986	
3,800.0	3,784.4	3,784.4	3,784.4	8.7	8.4	138.34	0.0	119.7	185.6	169.2	16.42	11.303	
3,900.0	3,876.8	3,876.8	3,876.8	9.1	8.6	144.36	0.0	119.7	216.4	199.8	16.63	13.018	
4,000.0	3,967.1	3,967.1	3,967.1	9.5	8.8	149.29	0.0	119.7	253.6	236.8	16.78	15.112	
4,100.0	4,054.9	4,054.9	4,054.9	10.1	9.0	153.27	0.0	119.7	296.6	279.7	16.89	17.558	
4,200.0	4,141.6	4,141.6	4,141.6	10.7	9.2	156.95	0.0	119.7	342.9	325.7	17.26	19.867	
4,300.0	4,228.2	4,228.2	4,228.2	11.4	9.4	159.78	0.0	119.7	390.2	372.5	17.67	22.088	
4,400.0	4,314.8	4,314.8	4,314.8	12.1	9.6	162.01	0.0	119.7	438.1	420.0	18.10	24.209	
4,500.0	4,401.4	4,401.4	4,401.4	12.9	9.8	163.81	0.0	119.7	486.4	467.8	18.54	26.228	
4,600.0	4,488.0	4,488.0	4,488.0	13.7	10.0	165.29	0.0	119.7	535.0	516.0	19.01	28.146	
4,700.0	4,574.7	4,574.7	4,574.7	14.5	10.2	166.53	0.0	119.7	583.8	564.3	19.48	29.965	
4,800.0	4,661.3	4,661.3	4,661.3	15.3	10.4	167.58	0.0	119.7	632.8	612.8	19.97	31.690	
4,900.0	4,747.9	4,747.9	4,747.9	16.1	10.6	168.48	0.0	119.7	681.9	661.5	20.46	33.325	
5,000.0	4,834.5	4,847.2	4,847.2	17.0	10.8	169.32	0.5	119.9	730.9	709.9	20.99	34.826	
5,100.0	4,921.2	4,970.2	4,969.9	17.9	11.1	169.85	6.7	123.3	776.7	755.1	21.57	36.005	

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (11-21-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-102HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.0	5,007.8	5,099.1	5,097.9	18.7	11.3	169.86	20.6	130.8	818.4	796.2	22.21	36.854	
5,300.0	5,094.4	5,233.3	5,229.6	19.6	11.7	169.41	43.0	142.9	855.6	832.7	22.90	37.363	
5,400.0	5,181.0	5,371.6	5,363.1	20.5	12.0	168.51	74.7	160.0	888.1	864.5	23.67	37.527	
5,500.0	5,267.6	5,512.6	5,496.2	21.4	12.4	167.21	115.6	182.2	916.0	891.5	24.54	37.335	
5,600.0	5,354.3	5,655.1	5,626.8	22.3	12.9	165.53	165.6	209.2	939.3	913.8	25.54	36.773	
5,700.0	5,440.9	5,797.2	5,752.5	23.2	13.6	163.49	223.9	240.7	958.3	931.6	26.73	35.852	
5,800.0	5,527.5	5,897.9	5,839.4	24.2	14.1	161.91	268.6	265.0	975.1	947.3	27.82	35.045	
5,900.0	5,614.1	5,993.0	5,921.4	25.1	14.7	160.46	311.0	287.9	992.5	963.6	28.96	34.272	
6,600.0	6,220.5	7,597.3	6,930.6	31.6	23.4	-174.90	825.3	-194.6	973.8	935.9	37.91	25.684	
6,700.0	6,307.1	7,603.5	6,930.6	32.6	23.5	-174.52	825.2	-200.8	949.3	910.9	38.46	24.681	
6,800.0	6,393.7	7,609.7	6,930.6	33.5	23.6	-174.14	825.2	-207.0	935.0	896.0	39.03	23.958	
6,885.9	6,468.1	7,615.0	6,930.6	34.3	23.7	-173.81	825.1	-212.3	931.0	891.5	39.51	23.564	
6,900.0	6,480.4	7,615.9	6,930.6	34.5	23.7	-173.76	825.1	-213.2	931.2	891.6	39.59	23.518	
7,000.0	6,567.0	7,622.1	6,930.6	35.4	23.8	-173.37	825.1	-219.4	938.0	897.8	40.17	23.353	
7,100.0	6,653.6	7,628.3	6,930.6	36.4	23.9	-172.99	825.0	-225.6	955.3	914.5	40.75	23.444	
7,200.0	6,740.3	7,632.3	6,930.6	37.3	24.0	175.35	825.0	-229.6	982.4	941.5	40.94	23.996	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**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 25-039HC
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 25-039HC
Project:	SEC.26-T6N-R67W	**TVD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Reference Site:	Kodak North Pad Sec.26-T6N-R67W	**MD Reference:**	WELL @ 4776.6ft (RKB - 16.5')
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Kodak North FD 25-039HC	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (11-21-13)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 4776.6ft (RKB - 16.5')	Coordinates are relative to: Kodak North FD 25-039HC
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.41°