Great Western

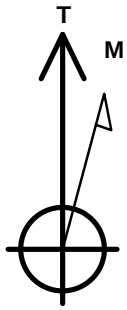
Well Name: Kodak North FD 25-122HN
Surface Location: Kodak North Pad Sec.26-T6N-R67W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4760.1

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1410593.52	3177116.73	40.458736	-104.863500	

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

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2352'FNL & 1909'FWL, Sec.26	1.0	0.0	0.0	Point
BHL 1768'FNL & 470'FEL, Sec.25	6922.6	665.2	8155.6	Point
Entry Pt. 1770'FNL & 2025'FWL, Sec.26	6922.6	581.8	114.4	Point



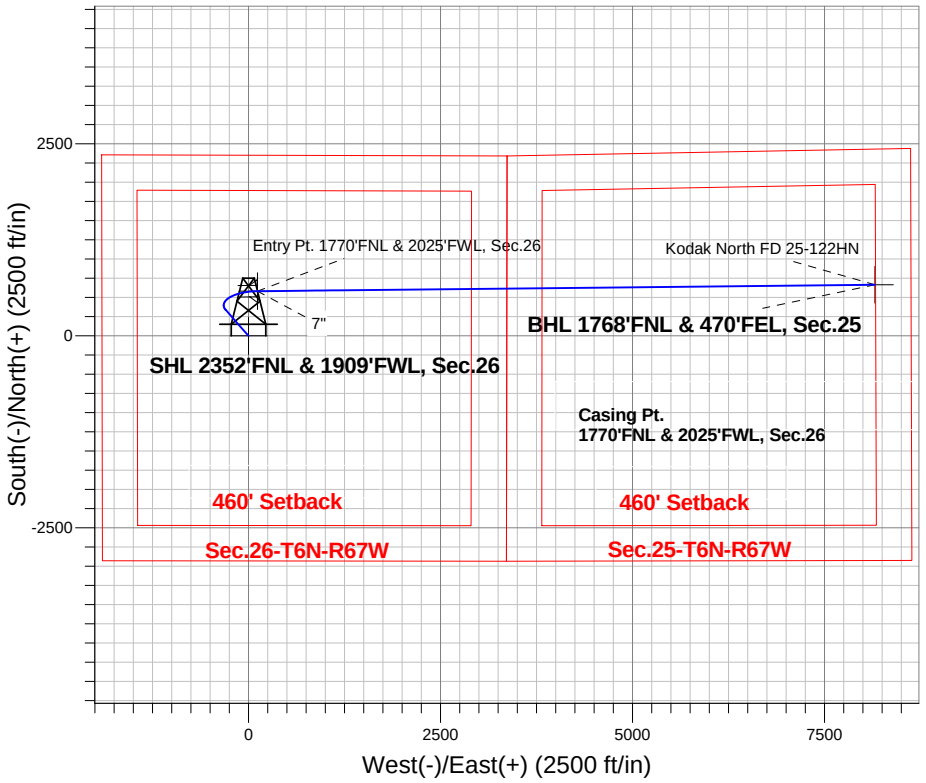
Azimuths to True North
Magnetic North: 8.59°

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

Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-122HN
Plan #1 (11-21-13)
14:26, November 22 2013

ANNOTATIONS

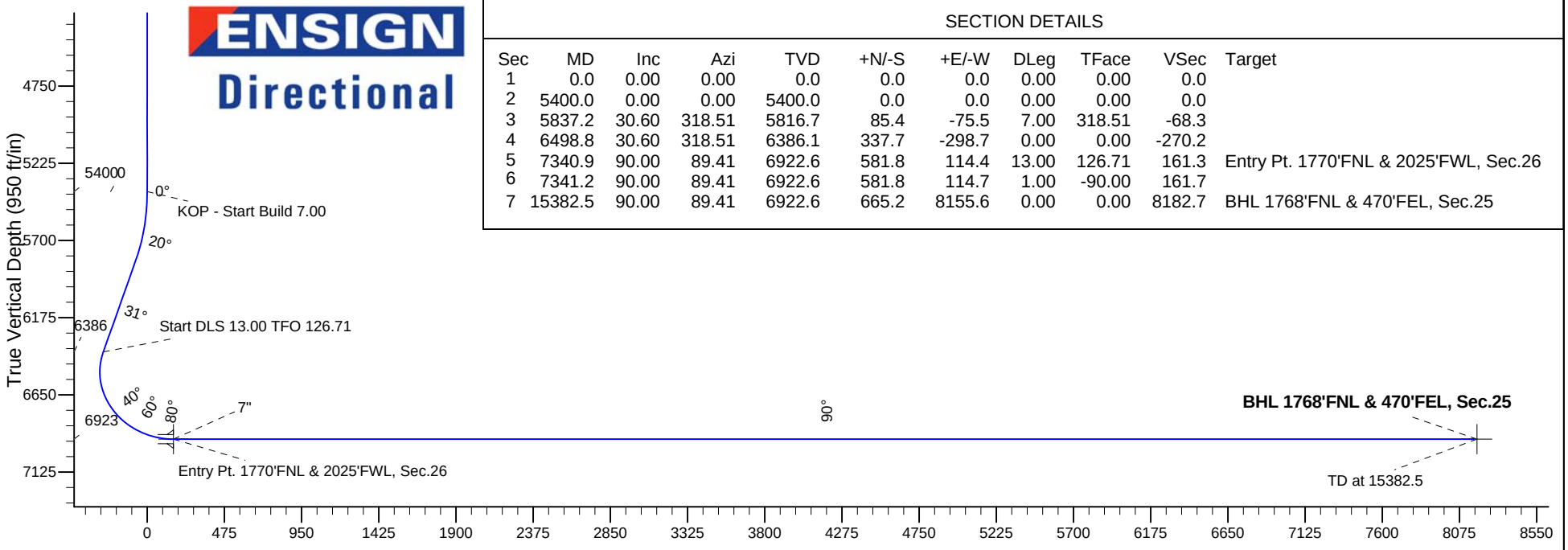
TVD	MD	Annotation
5400.0	5400.0	KOP - Start Build 7.00
6386.1	6498.8	Start DLS 13.00 TFO 126.71
6922.6	15382.5	TD at 15382.5



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	5400.0	0.00	0.00	5400.0	0.0	0.0	0.00	0.00	0.0	
3	5837.2	30.60	318.51	5816.7	85.4	-75.5	7.00	318.51	-68.3	
4	6498.8	30.60	318.51	6386.1	337.7	-298.7	0.00	0.00	-270.2	
5	7340.9	90.00	89.41	6922.6	581.8	114.4	13.00	126.71	161.3	Entry Pt. 1770'FNL & 2025'FWL, Sec.26
6	7341.2	90.00	89.41	6922.6	581.8	114.7	1.00	-90.00	161.7	
7	15382.5	90.00	89.41	6922.6	665.2	8155.6	0.00	0.00	8182.7	BHL 1768'FNL & 470'FEL, Sec.25



Great Western

SEC.26-T6N-R67W
Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-122HN

Wellbore #1

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

Standard Planning Report

22 November, 2013

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 25-122HN

Well Position	**+N/-S**	-100.2 ft	**Northing:**	1,410,593.52 ft	**Latitude:**	40.458736
	+E/-W	89.6 ft	**Easting:**	3,177,116.73 ft	**Longitude:**	-104.863500
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,760.1 ft

Wellbore Wellbore #1

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

Design Plan #1 (11-21-13)

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	85.34

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	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,837.2	30.60	318.51	5,816.7	85.4	-75.5	7.00	7.00	0.00	318.51	
6,498.8	30.60	318.51	6,386.1	337.7	-298.7	0.00	0.00	0.00	0.00	
7,340.9	90.00	89.41	6,922.6	581.8	114.4	13.00	7.05	15.54	126.71	Entry Pt. 1770'FNL
7,341.2	90.00	89.41	6,922.6	581.8	114.7	1.00	0.00	-1.00	-90.00	
15,382.5	90.00	89.41	6,922.6	665.2	8,155.6	0.00	0.00	0.00	0.00	BHL 1768'FNL & 47

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 & 1909'FWL, Sec.26									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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
KOP - Start Build 7.00									
5,500.0	7.00	318.51	5,499.8	4.6	-4.0	-3.7	7.00	7.00	0.00
5,600.0	14.00	318.51	5,598.0	18.2	-16.1	-14.6	7.00	7.00	0.00
5,700.0	21.00	318.51	5,693.3	40.7	-36.0	-32.6	7.00	7.00	0.00
5,800.0	28.00	318.51	5,784.3	71.8	-63.5	-57.4	7.00	7.00	0.00
5,837.2	30.60	318.51	5,816.7	85.4	-75.5	-68.3	7.00	7.00	0.00
5,900.0	30.60	318.51	5,870.8	109.4	-96.7	-87.5	0.00	0.00	0.00
6,000.0	30.60	318.51	5,956.8	147.5	-130.4	-118.0	0.00	0.00	0.00
6,100.0	30.60	318.51	6,042.9	185.6	-164.2	-148.5	0.00	0.00	0.00
6,200.0	30.60	318.51	6,129.0	223.8	-197.9	-179.1	0.00	0.00	0.00
6,300.0	30.60	318.51	6,215.0	261.9	-231.6	-209.6	0.00	0.00	0.00
6,400.0	30.60	318.51	6,301.1	300.0	-265.4	-240.1	0.00	0.00	0.00
6,498.8	30.60	318.51	6,386.1	337.7	-298.7	-270.2	0.00	0.00	0.00
Start DLS 13.00 TFO 126.71									
6,500.0	30.51	318.76	6,387.2	338.2	-299.1	-270.6	13.19	-7.86	20.82
6,600.0	24.86	344.24	6,476.0	377.7	-321.6	-289.9	13.00	-5.66	25.48
6,700.0	24.95	15.44	6,567.1	418.4	-321.7	-286.6	13.00	0.09	31.19
6,800.0	30.73	40.65	6,655.8	458.3	-299.4	-261.1	13.00	5.79	25.21
6,900.0	39.80	56.95	6,737.5	495.3	-255.7	-214.6	13.00	9.06	16.30
7,000.0	50.38	67.68	6,808.1	527.5	-193.0	-149.5	13.00	10.58	10.73
7,100.0	61.68	75.47	6,864.0	553.3	-114.4	-69.1	13.00	11.30	7.78
7,200.0	73.33	81.72	6,902.2	571.3	-24.0	22.5	13.00	11.65	6.25
7,300.0	85.15	87.24	6,920.9	580.6	73.6	120.5	13.00	11.82	5.52
7,340.9	90.00	89.41	6,922.6	581.8	114.4	161.3	12.99	11.86	5.32
7" - Entry Pt. 1770'FNL & 2025'FWL, Sec.26									
7,341.2	90.00	89.41	6,922.6	581.8	114.7	161.7	1.12	0.96	-0.57
7,400.0	90.00	89.41	6,922.6	582.4	173.5	220.3	0.00	0.00	0.00
7,500.0	90.00	89.41	6,922.6	583.5	273.5	320.0	0.00	0.00	0.00
7,600.0	90.00	89.41	6,922.6	584.5	373.5	419.8	0.00	0.00	0.00
7,700.0	90.00	89.41	6,922.6	585.6	473.5	519.5	0.00	0.00	0.00
7,800.0	90.00	89.41	6,922.6	586.6	573.5	619.3	0.00	0.00	0.00
7,900.0	90.00	89.41	6,922.6	587.6	673.5	719.0	0.00	0.00	0.00
8,000.0	90.00	89.41	6,922.6	588.7	773.5	818.8	0.00	0.00	0.00
8,100.0	90.00	89.41	6,922.6	589.7	873.5	918.5	0.00	0.00	0.00
8,200.0	90.00	89.41	6,922.6	590.7	973.5	1,018.3	0.00	0.00	0.00
8,300.0	90.00	89.41	6,922.6	591.8	1,073.4	1,118.0	0.00	0.00	0.00
8,400.0	90.00	89.41	6,922.6	592.8	1,173.4	1,217.7	0.00	0.00	0.00
8,500.0	90.00	89.41	6,922.6	593.8	1,273.4	1,317.5	0.00	0.00	0.00
8,600.0	90.00	89.41	6,922.6	594.9	1,373.4	1,417.2	0.00	0.00	0.00
8,700.0	90.00	89.41	6,922.6	595.9	1,473.4	1,517.0	0.00	0.00	0.00
8,800.0	90.00	89.41	6,922.6	597.0	1,573.4	1,616.7	0.00	0.00	0.00
8,900.0	90.00	89.41	6,922.6	598.0	1,673.4	1,716.5	0.00	0.00	0.00
9,000.0	90.00	89.41	6,922.6	599.0	1,773.4	1,816.2	0.00	0.00	0.00
9,100.0	90.00	89.41	6,922.6	600.1	1,873.4	1,916.0	0.00	0.00	0.00
9,200.0	90.00	89.41	6,922.6	601.1	1,973.4	2,015.7	0.00	0.00	0.00
9,300.0	90.00	89.41	6,922.6	602.1	2,073.4	2,115.5	0.00	0.00	0.00
9,400.0	90.00	89.41	6,922.6	603.2	2,173.4	2,215.2	0.00	0.00	0.00
9,500.0	90.00	89.41	6,922.6	604.2	2,273.4	2,315.0	0.00	0.00	0.00
9,600.0	90.00	89.41	6,922.6	605.2	2,373.4	2,414.7	0.00	0.00	0.00
9,700.0	90.00	89.41	6,922.6	606.3	2,473.4	2,514.5	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,800.0	90.00	89.41	6,922.6	607.3	2,573.4	2,614.2	0.00	0.00	0.00
9,900.0	90.00	89.41	6,922.6	608.3	2,673.4	2,714.0	0.00	0.00	0.00
10,000.0	90.00	89.41	6,922.6	609.4	2,773.4	2,813.7	0.00	0.00	0.00
10,100.0	90.00	89.41	6,922.6	610.4	2,873.4	2,913.5	0.00	0.00	0.00
10,200.0	90.00	89.41	6,922.6	611.5	2,973.3	3,013.2	0.00	0.00	0.00
10,300.0	90.00	89.41	6,922.6	612.5	3,073.3	3,113.0	0.00	0.00	0.00
10,400.0	90.00	89.41	6,922.6	613.5	3,173.3	3,212.7	0.00	0.00	0.00
10,500.0	90.00	89.41	6,922.6	614.6	3,273.3	3,312.5	0.00	0.00	0.00
10,600.0	90.00	89.41	6,922.6	615.6	3,373.3	3,412.2	0.00	0.00	0.00
10,700.0	90.00	89.41	6,922.6	616.6	3,473.3	3,512.0	0.00	0.00	0.00
10,800.0	90.00	89.41	6,922.6	617.7	3,573.3	3,611.7	0.00	0.00	0.00
10,900.0	90.00	89.41	6,922.6	618.7	3,673.3	3,711.4	0.00	0.00	0.00
11,000.0	90.00	89.41	6,922.6	619.7	3,773.3	3,811.2	0.00	0.00	0.00
11,100.0	90.00	89.41	6,922.6	620.8	3,873.3	3,910.9	0.00	0.00	0.00
11,200.0	90.00	89.41	6,922.6	621.8	3,973.3	4,010.7	0.00	0.00	0.00
11,300.0	90.00	89.41	6,922.6	622.9	4,073.3	4,110.4	0.00	0.00	0.00
11,400.0	90.00	89.41	6,922.6	623.9	4,173.3	4,210.2	0.00	0.00	0.00
11,500.0	90.00	89.41	6,922.6	624.9	4,273.3	4,309.9	0.00	0.00	0.00
11,600.0	90.00	89.41	6,922.6	626.0	4,373.3	4,409.7	0.00	0.00	0.00
11,700.0	90.00	89.41	6,922.6	627.0	4,473.3	4,509.4	0.00	0.00	0.00
11,800.0	90.00	89.41	6,922.6	628.0	4,573.3	4,609.2	0.00	0.00	0.00
11,900.0	90.00	89.41	6,922.6	629.1	4,673.3	4,708.9	0.00	0.00	0.00
12,000.0	90.00	89.41	6,922.6	630.1	4,773.2	4,808.7	0.00	0.00	0.00
12,100.0	90.00	89.41	6,922.6	631.1	4,873.2	4,908.4	0.00	0.00	0.00
12,200.0	90.00	89.41	6,922.6	632.2	4,973.2	5,008.2	0.00	0.00	0.00
12,300.0	90.00	89.41	6,922.6	633.2	5,073.2	5,107.9	0.00	0.00	0.00
12,400.0	90.00	89.41	6,922.6	634.2	5,173.2	5,207.7	0.00	0.00	0.00
12,500.0	90.00	89.41	6,922.6	635.3	5,273.2	5,307.4	0.00	0.00	0.00
12,600.0	90.00	89.41	6,922.6	636.3	5,373.2	5,407.2	0.00	0.00	0.00
12,700.0	90.00	89.41	6,922.6	637.4	5,473.2	5,506.9	0.00	0.00	0.00
12,800.0	90.00	89.41	6,922.6	638.4	5,573.2	5,606.7	0.00	0.00	0.00
12,900.0	90.00	89.41	6,922.6	639.4	5,673.2	5,706.4	0.00	0.00	0.00
13,000.0	90.00	89.41	6,922.6	640.5	5,773.2	5,806.2	0.00	0.00	0.00
13,100.0	90.00	89.41	6,922.6	641.5	5,873.2	5,905.9	0.00	0.00	0.00
13,200.0	90.00	89.41	6,922.6	642.5	5,973.2	6,005.6	0.00	0.00	0.00
13,300.0	90.00	89.41	6,922.6	643.6	6,073.2	6,105.4	0.00	0.00	0.00
13,400.0	90.00	89.41	6,922.6	644.6	6,173.2	6,205.1	0.00	0.00	0.00
13,500.0	90.00	89.41	6,922.6	645.6	6,273.2	6,304.9	0.00	0.00	0.00
13,600.0	90.00	89.41	6,922.6	646.7	6,373.2	6,404.6	0.00	0.00	0.00
13,700.0	90.00	89.41	6,922.6	647.7	6,473.2	6,504.4	0.00	0.00	0.00
13,800.0	90.00	89.41	6,922.6	648.8	6,573.2	6,604.1	0.00	0.00	0.00
13,900.0	90.00	89.41	6,922.6	649.8	6,673.1	6,703.9	0.00	0.00	0.00
14,000.0	90.00	89.41	6,922.6	650.8	6,773.1	6,803.6	0.00	0.00	0.00
14,100.0	90.00	89.41	6,922.6	651.9	6,873.1	6,903.4	0.00	0.00	0.00
14,200.0	90.00	89.41	6,922.6	652.9	6,973.1	7,003.1	0.00	0.00	0.00
14,300.0	90.00	89.41	6,922.6	653.9	7,073.1	7,102.9	0.00	0.00	0.00
14,400.0	90.00	89.41	6,922.6	655.0	7,173.1	7,202.6	0.00	0.00	0.00
14,500.0	90.00	89.41	6,922.6	656.0	7,273.1	7,302.4	0.00	0.00	0.00
14,600.0	90.00	89.41	6,922.6	657.0	7,373.1	7,402.1	0.00	0.00	0.00
14,700.0	90.00	89.41	6,922.6	658.1	7,473.1	7,501.9	0.00	0.00	0.00
14,800.0	90.00	89.41	6,922.6	659.1	7,573.1	7,601.6	0.00	0.00	0.00
14,900.0	90.00	89.41	6,922.6	660.2	7,673.1	7,701.4	0.00	0.00	0.00
15,000.0	90.00	89.41	6,922.6	661.2	7,773.1	7,801.1	0.00	0.00	0.00
15,100.0	90.00	89.41	6,922.6	662.2	7,873.1	7,900.9	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-21-13)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,200.0	90.00	89.41	6,922.6	663.3	7,973.1	8,000.6	0.00	0.00	0.00
15,300.0	90.00	89.41	6,922.6	664.3	8,073.1	8,100.4	0.00	0.00	0.00
15,382.5	90.00	89.41	6,922.6	665.2	8,155.6	8,182.6	0.00	0.00	0.00
TD at 15382.5 - BHL 1768'FNL & 470'FEL, Sec.25									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,340.9	6,922.6	7"	7	7-1/2

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
5,400.0	5,400.0	0.0	0.0	KOP - Start Build 7.00
6,498.8	6,386.1	337.7	-298.7	Start DLS 13.00 TFO 126.71
15,382.5	6,922.6	665.2	8,155.6	TD at 15382.5

ENSIGN Directional

Great Western

SEC.26-T6N-R67W
Kodak North Pad Sec.26-T6N-R67W
Kodak North FD 25-122HN

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

Anticollision Report

22 November, 2013

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (11-21-13)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (11-21-13)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	**Error Surface:**	Elliptical Conic

Warning Levels Evaluated at: 2.00 **Sigma**

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

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	15,382.5	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 25-039HC - Wellbore #1 - Plan #1 (11-2	3,100.0	3,100.0	134.4	120.7	9.804	CC, ES
Kodak North FD 25-039HC - Wellbore #1 - Plan #1 (11-2	3,200.0	3,194.4	136.5	122.3	9.646	SF
Kodak North FD 25-162HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	30.1	6.9	1.298	Level 3, CC, ES
Kodak North FD 25-162HN - Wellbore #1 - Plan #1 (11-2	15,382.5	15,259.0	582.9	112.4	1.239	Level 2, SF
Kodak North FD 27-179HC - Wellbore #1 - Plan #1 (11-2	5,400.0	5,400.0	59.6	35.5	2.476	CC, ES, SF
Kodak North FD 27-179HN - 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 27-182HN - Wellbore #1 - Plan #1 (11-2	5,200.0	5,200.0	89.6	66.5	3.871	CC, ES, 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 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	-41.81	100.2	-89.6	134.4				
100.0	100.0	100.0	100.0	0.1	0.1	-41.81	100.2	-89.6	134.4	134.2	0.22	598.036	
200.0	200.0	200.0	200.0	0.3	0.3	-41.81	100.2	-89.6	134.4	133.7	0.67	199.345	
300.0	300.0	300.0	300.0	0.6	0.6	-41.81	100.2	-89.6	134.4	133.3	1.12	119.607	
400.0	400.0	400.0	400.0	0.8	0.8	-41.81	100.2	-89.6	134.4	132.8	1.57	85.434	
500.0	500.0	500.0	500.0	1.0	1.0	-41.81	100.2	-89.6	134.4	132.4	2.02	66.448	
600.0	600.0	600.0	600.0	1.2	1.2	-41.81	100.2	-89.6	134.4	131.9	2.47	54.367	
700.0	700.0	700.0	700.0	1.5	1.5	-41.81	100.2	-89.6	134.4	131.5	2.92	46.003	
800.0	800.0	800.0	800.0	1.7	1.7	-41.81	100.2	-89.6	134.4	131.0	3.37	39.869	
900.0	900.0	900.0	900.0	1.9	1.9	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	100.2	-89.6	134.4	125.7	8.77	15.334	

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 25-122HN
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 25-122HN	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #1 (11-21-13)	**Offset TVD Reference:**	Offset Datum

Offset Design Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 25-039HC - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference 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
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	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	-41.81	100.2	-89.6	134.4	120.7	13.71	9.804	CC, ES
3,200.0	3,200.0	3,194.4	3,194.4	7.1	7.1	-41.26	102.5	-89.9	136.5	122.3	14.15	9.646	SF
3,300.0	3,300.0	3,288.4	3,288.1	7.3	7.3	-39.71	109.4	-90.8	142.7	128.1	14.59	9.783	
3,400.0	3,400.0	3,381.4	3,380.4	7.5	7.5	-37.42	120.7	-92.4	153.2	138.2	15.02	10.202	
3,500.0	3,500.0	3,473.2	3,470.8	7.8	7.7	-34.74	136.2	-94.5	168.3	152.9	15.46	10.889	
3,600.0	3,600.0	3,563.2	3,558.7	8.0	7.9	-31.96	155.6	-97.1	188.0	172.1	15.89	11.830	
3,700.0	3,700.0	3,651.1	3,643.5	8.2	8.2	-29.30	178.5	-100.1	212.3	196.0	16.32	13.005	
3,800.0	3,800.0	3,736.8	3,725.0	8.4	8.4	-26.88	204.4	-103.6	241.1	224.4	16.76	14.387	
3,900.0	3,900.0	3,819.8	3,802.9	8.7	8.7	-24.76	233.1	-107.5	274.4	257.2	17.20	15.951	
4,000.0	4,000.0	3,900.0	3,876.8	8.9	9.1	-22.93	263.8	-111.6	311.8	294.2	17.65	17.666	
4,100.0	4,100.0	3,977.5	3,947.0	9.1	9.4	-21.37	296.5	-116.0	353.3	335.1	18.11	19.502	
4,200.0	4,200.0	4,051.9	4,013.0	9.3	9.8	-20.05	330.5	-120.6	398.4	379.8	18.59	21.436	
4,300.0	4,300.0	4,128.9	4,079.9	9.6	10.3	-18.85	368.1	-125.6	446.9	427.8	19.09	23.413	
4,400.0	4,400.0	4,215.5	4,155.0	9.8	10.8	-17.73	411.0	-131.4	496.2	476.5	19.64	25.259	
4,500.0	4,500.0	4,302.1	4,230.0	10.0	11.4	-16.82	453.9	-137.2	545.6	525.4	20.22	26.979	
4,600.0	4,600.0	4,388.7	4,305.0	10.2	12.0	-16.05	496.8	-142.9	595.2	574.3	20.83	28.575	
4,700.0	4,700.0	4,475.3	4,380.1	10.5	12.7	-15.41	539.7	-148.7	644.8	623.3	21.45	30.056	
4,800.0	4,800.0	4,562.0	4,455.1	10.7	13.4	-14.85	582.5	-154.5	694.4	672.3	22.09	31.429	
4,900.0	4,900.0	4,648.6	4,530.1	10.9	14.1	-14.37	625.4	-160.3	744.1	721.3	22.75	32.703	
5,000.0	5,000.0	4,735.2	4,605.2	11.1	14.8	-13.95	668.3	-166.0	793.8	770.4	23.43	33.886	
5,100.0	5,100.0	4,821.8	4,680.2	11.4	15.5	-13.58	711.2	-171.8	843.6	819.5	24.11	34.985	
5,200.0	5,200.0	4,908.5	4,755.2	11.6	16.2	-13.25	754.1	-177.6	893.3	868.5	24.81	36.007	
5,300.0	5,300.0	4,995.1	4,830.3	11.8	17.0	-12.95	797.0	-183.3	943.1	917.6	25.52	36.957	
5,400.0	5,400.0	5,081.7	4,905.3	12.0	17.7	-12.69	839.9	-189.1	993.0	966.7	26.24	37.842	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 25-162HN - 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	-89.98	0.0	-30.1	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	-89.98	0.0	-30.1	30.1	29.8	0.22	133.713	
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-30.1	30.1	29.4	0.67	44.571	
300.0	300.0	300.0	300.0	0.6	0.6	-89.98	0.0	-30.1	30.1	28.9	1.12	26.743	
400.0	400.0	400.0	400.0	0.8	0.8	-89.98	0.0	-30.1	30.1	28.5	1.57	19.102	
500.0	500.0	500.0	500.0	1.0	1.0	-89.98	0.0	-30.1	30.1	28.0	2.02	14.857	
600.0	600.0	600.0	600.0	1.2	1.2	-89.98	0.0	-30.1	30.1	27.6	2.47	12.156	
700.0	700.0	700.0	700.0	1.5	1.5	-89.98	0.0	-30.1	30.1	27.1	2.92	10.286	
800.0	800.0	800.0	800.0	1.7	1.7	-89.98	0.0	-30.1	30.1	26.7	3.37	8.914	
900.0	900.0	900.0	900.0	1.9	1.9	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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	-89.98	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 25-122HN
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 25-122HN	**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 25-162HN - 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	5,200.0	5,200.0	5,200.0	11.6	11.6	-89.98	0.0	-30.1	30.1	6.9	23.15	1.298	Level 3, CC, ES
5,300.0	5,300.0	5,298.7	5,298.6	11.8	11.8	-89.54	0.3	-32.2	32.2	8.6	23.59	1.365	Level 3
5,400.0	5,400.0	5,396.9	5,396.7	12.0	12.0	-88.54	1.0	-38.5	38.6	14.6	24.01	1.608	
5,500.0	5,499.8	5,494.8	5,494.0	12.2	12.2	-51.07	2.2	-48.9	45.3	20.9	24.36	1.858	
5,600.0	5,598.0	5,592.1	5,590.2	12.5	12.4	-64.10	3.9	-63.3	49.9	25.2	24.72	2.020	
5,700.0	5,693.3	5,688.1	5,684.4	12.7	12.6	-83.01	6.0	-81.5	57.9	32.7	25.28	2.292	
5,800.0	5,784.3	5,782.2	5,775.9	13.0	12.9	-101.65	8.5	-103.1	75.2	49.4	25.75	2.919	
5,900.0	5,870.8	5,874.5	5,864.8	13.4	13.1	-115.62	11.3	-127.9	103.1	77.1	25.96	3.970	
6,000.0	5,956.8	5,967.4	5,953.1	13.8	13.4	-122.66	14.6	-156.5	135.5	109.1	26.34	5.142	
6,100.0	6,042.9	6,061.0	6,041.0	14.3	13.7	-125.74	18.3	-188.6	169.1	142.1	26.94	6.276	
6,200.0	6,129.0	6,154.9	6,128.8	14.9	14.1	-127.56	22.1	-221.6	203.0	175.4	27.66	7.339	
6,300.0	6,215.0	6,248.8	6,216.6	15.6	14.5	-128.87	26.0	-254.6	237.1	208.6	28.46	8.330	
6,400.0	6,301.1	6,342.7	6,304.5	16.2	14.9	-129.84	29.8	-287.6	271.2	241.9	29.32	9.250	
6,500.0	6,387.2	6,440.2	6,397.5	17.0	15.3	-132.07	33.8	-316.2	305.0	274.9	30.04	10.152	
6,600.0	6,476.0	6,535.3	6,491.9	17.5	15.5	-162.60	38.2	-324.4	339.9	310.1	29.76	11.420	
6,700.0	6,567.1	6,627.7	6,583.3	17.9	15.6	161.94	42.5	-312.8	376.3	346.5	29.76	12.644	
6,800.0	6,655.8	6,718.6	6,669.0	18.2	15.7	133.48	46.8	-283.0	412.0	381.9	30.16	13.664	
6,900.0	6,737.5	6,809.4	6,746.6	18.4	15.7	115.12	50.8	-236.4	445.0	414.2	30.82	14.437	
7,000.0	6,808.1	6,900.9	6,813.5	18.4	15.9	103.61	54.4	-174.3	473.4	441.8	31.69	14.941	
7,100.0	6,864.0	6,993.5	6,866.7	18.5	16.3	96.40	57.6	-98.8	496.0	463.1	32.85	15.096	
7,200.0	6,902.2	7,087.3	6,903.4	18.4	17.1	92.15	60.0	-12.7	511.4	476.9	34.50	14.822	
7,300.0	6,920.9	7,181.9	6,921.1	18.6	18.1	90.20	61.6	80.0	519.0	482.3	36.70	14.143	
7,400.0	6,922.6	7,276.8	6,922.6	20.0	19.5	90.00	62.3	174.8	520.2	480.8	39.38	13.211	
7,500.0	6,922.6	7,376.8	6,922.6	21.7	21.1	90.00	62.5	274.8	521.0	478.3	42.68	12.207	
7,600.0	6,922.6	7,476.8	6,922.6	23.6	23.0	90.00	62.8	374.8	521.8	475.3	46.41	11.243	
7,700.0	6,922.6	7,576.7	6,922.6	25.6	25.1	90.00	63.0	474.8	522.5	472.1	50.49	10.350	
7,800.0	6,922.6	7,676.7	6,922.6	27.8	27.3	90.00	63.3	574.8	523.3	468.5	54.84	9.542	
7,900.0	6,922.6	7,776.7	6,922.6	30.1	29.6	90.00	63.5	674.8	524.1	464.7	59.41	8.822	
8,000.0	6,922.6	7,876.7	6,922.6	32.4	31.9	90.00	63.8	774.8	524.9	460.8	64.14	8.184	
8,100.0	6,922.6	7,976.7	6,922.6	34.9	34.4	90.00	64.0	874.8	525.7	456.7	69.00	7.618	
8,200.0	6,922.6	8,076.7	6,922.6	37.3	36.9	90.00	64.3	974.8	526.5	452.5	73.97	7.117	
8,300.0	6,922.6	8,176.7	6,922.6	39.9	39.4	90.00	64.5	1,074.8	527.3	448.2	79.03	6.672	
8,400.0	6,922.6	8,276.7	6,922.6	42.4	42.0	90.00	64.8	1,174.8	528.0	443.9	84.16	6.274	
8,500.0	6,922.6	8,376.7	6,922.6	45.0	44.6	90.00	65.0	1,274.8	528.8	439.5	89.34	5.919	
8,600.0	6,922.6	8,476.7	6,922.6	47.6	47.2	90.00	65.3	1,374.8	529.6	435.0	94.58	5.600	
8,700.0	6,922.6	8,576.7	6,922.6	50.2	49.9	90.00	65.5	1,474.8	530.4	430.5	99.85	5.312	
8,800.0	6,922.6	8,676.7	6,922.6	52.9	52.5	90.00	65.8	1,574.8	531.2	426.0	105.16	5.051	
8,900.0	6,922.6	8,776.7	6,922.6	55.5	55.2	90.00	66.0	1,674.7	532.0	421.5	110.50	4.814	
9,000.0	6,922.6	8,876.7	6,922.6	58.2	57.9	90.00	66.3	1,774.7	532.8	416.9	115.87	4.598	
9,100.0	6,922.6	8,976.7	6,922.6	60.9	60.6	90.00	66.5	1,874.7	533.5	412.3	121.26	4.400	
9,200.0	6,922.6	9,076.7	6,922.6	63.6	63.3	90.00	66.8	1,974.7	534.3	407.7	126.67	4.218	
9,300.0	6,922.6	9,176.7	6,922.6	66.3	66.0	90.00	67.0	2,074.7	535.1	403.0	132.09	4.051	
9,400.0	6,922.6	9,276.7	6,922.6	69.0	68.7	90.00	67.3	2,174.7	535.9	398.4	137.53	3.896	
9,500.0	6,922.6	9,376.7	6,922.6	71.7	71.5	90.00	67.5	2,274.7	536.7	393.7	142.99	3.753	
9,600.0	6,922.6	9,476.7	6,922.6	74.4	74.2	90.00	67.8	2,374.7	537.5	389.0	148.45	3.620	
9,700.0	6,922.6	9,576.7	6,922.6	77.2	76.9	90.00	68.0	2,474.7	538.3	384.3	153.93	3.497	
9,800.0	6,922.6	9,676.7	6,922.6	79.9	79.7	90.00	68.3	2,574.7	539.0	379.6	159.42	3.381	
9,900.0	6,922.6	9,776.7	6,922.6	82.6	82.4	90.00	68.5	2,674.7	539.8	374.9	164.91	3.273	
10,000.0	6,922.6	9,876.7	6,922.6	85.4	85.2	90.00	68.8	2,774.7	540.6	370.2	170.41	3.172	
10,100.0	6,922.6	9,976.7	6,922.6	88.1	87.9	90.00	69.0	2,874.7	541.4	365.5	175.92	3.077	
10,200.0	6,922.6	10,076.7	6,922.6	90.9	90.7	90.00	69.3	2,974.7	542.2	360.7	181.44	2.988	
10,300.0	6,922.6	10,176.7	6,922.6	93.6	93.5	90.00	69.5	3,074.7	543.0	356.0	186.96	2.904	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 25-162HN - 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
10,400.0	6,922.6	10,276.7	6,922.6	96.4	96.2	90.00	69.8	3,174.7	543.8	351.3	192.49	2.825	
10,500.0	6,922.6	10,376.7	6,922.6	99.1	99.0	90.00	70.0	3,274.7	544.5	346.5	198.02	2.750	
10,600.0	6,922.6	10,476.7	6,922.6	101.9	101.8	90.00	70.3	3,374.7	545.3	341.8	203.56	2.679	
10,700.0	6,922.6	10,576.7	6,922.6	104.7	104.5	90.00	70.5	3,474.7	546.1	337.0	209.10	2.612	
10,800.0	6,922.6	10,676.7	6,922.6	107.4	107.3	90.00	70.8	3,574.7	546.9	332.3	214.64	2.548	
10,900.0	6,922.6	10,776.7	6,922.6	110.2	110.1	90.00	71.0	3,674.7	547.7	327.5	220.19	2.487	
11,000.0	6,922.6	10,876.6	6,922.6	113.0	112.9	90.00	71.3	3,774.7	548.5	322.7	225.74	2.430	
11,100.0	6,922.6	10,976.6	6,922.6	115.8	115.6	90.00	71.5	3,874.7	549.3	318.0	231.29	2.375	
11,200.0	6,922.6	11,076.6	6,922.6	118.5	118.4	90.00	71.8	3,974.7	550.0	313.2	236.85	2.322	
11,300.0	6,922.6	11,176.6	6,922.6	121.3	121.2	90.00	72.0	4,074.7	550.8	308.4	242.41	2.272	
11,400.0	6,922.6	11,276.6	6,922.6	124.1	124.0	90.00	72.3	4,174.7	551.6	303.6	247.97	2.224	
11,500.0	6,922.6	11,376.6	6,922.6	126.9	126.8	90.00	72.5	4,274.7	552.4	298.9	253.53	2.179	
11,600.0	6,922.6	11,476.6	6,922.6	129.6	129.6	90.00	72.8	4,374.7	553.2	294.1	259.10	2.135	
11,700.0	6,922.6	11,576.6	6,922.6	132.4	132.3	90.00	73.0	4,474.7	554.0	289.3	264.67	2.093	
11,800.0	6,922.6	11,676.6	6,922.6	135.2	135.1	90.00	73.3	4,574.6	554.8	284.5	270.24	2.053	
11,900.0	6,922.6	11,776.6	6,922.6	138.0	137.9	90.00	73.5	4,674.6	555.5	279.7	275.81	2.014	
12,000.0	6,922.6	11,876.6	6,922.6	140.8	140.7	90.00	73.8	4,774.6	556.3	274.9	281.38	1.977	
12,100.0	6,922.6	11,976.6	6,922.6	143.6	143.5	90.00	74.0	4,874.6	557.1	270.1	286.96	1.941	
12,200.0	6,922.6	12,076.6	6,922.6	146.3	146.3	90.00	74.3	4,974.6	557.9	265.4	292.54	1.907	
12,300.0	6,922.6	12,176.6	6,922.6	149.1	149.1	90.00	74.5	5,074.6	558.7	260.6	298.11	1.874	
12,400.0	6,922.6	12,276.6	6,922.6	151.9	151.9	90.00	74.8	5,174.6	559.5	255.8	303.69	1.842	
12,500.0	6,922.6	12,376.6	6,922.6	154.7	154.7	90.00	75.0	5,274.6	560.3	251.0	309.27	1.812	
12,600.0	6,922.6	12,476.6	6,922.6	157.5	157.5	90.00	75.3	5,374.6	561.0	246.2	314.85	1.782	
12,700.0	6,922.6	12,576.6	6,922.6	160.3	160.2	90.00	75.5	5,474.6	561.8	241.4	320.44	1.753	
12,800.0	6,922.6	12,676.6	6,922.6	163.1	163.0	90.00	75.8	5,574.6	562.6	236.6	326.02	1.726	
12,900.0	6,922.6	12,776.6	6,922.6	165.9	165.8	90.00	76.0	5,674.6	563.4	231.8	331.61	1.699	
13,000.0	6,922.6	12,876.6	6,922.6	168.6	168.6	90.00	76.3	5,774.6	564.2	227.0	337.19	1.673	
13,100.0	6,922.6	12,976.6	6,922.6	171.4	171.4	90.00	76.5	5,874.6	565.0	222.2	342.78	1.648	
13,200.0	6,922.6	13,076.6	6,922.6	174.2	174.2	90.00	76.8	5,974.6	565.8	217.4	348.37	1.624	
13,300.0	6,922.6	13,176.6	6,922.6	177.0	177.0	90.00	77.0	6,074.6	566.5	212.6	353.95	1.601	
13,400.0	6,922.6	13,276.6	6,922.6	179.8	179.8	90.00	77.3	6,174.6	567.3	207.8	359.54	1.578	
13,500.0	6,922.6	13,376.6	6,922.6	182.6	182.6	90.00	77.5	6,274.6	568.1	203.0	365.13	1.556	
13,600.0	6,922.6	13,476.6	6,922.6	185.4	185.4	90.00	77.8	6,374.6	568.9	198.2	370.72	1.535	
13,700.0	6,922.6	13,576.6	6,922.6	188.2	188.2	90.00	78.0	6,474.6	569.7	193.4	376.31	1.514	
13,800.0	6,922.6	13,676.6	6,922.6	191.0	191.0	90.00	78.3	6,574.6	570.5	188.6	381.91	1.494	Level 3
13,900.0	6,922.6	13,776.6	6,922.6	193.8	193.8	90.00	78.5	6,674.6	571.3	183.8	387.50	1.474	Level 3
14,000.0	6,922.6	13,876.6	6,922.6	196.6	196.6	90.00	78.8	6,774.6	572.0	178.9	393.09	1.455	Level 3
14,100.0	6,922.6	13,976.6	6,922.6	199.4	199.4	90.00	79.0	6,874.6	572.8	174.1	398.69	1.437	Level 3
14,200.0	6,922.6	14,076.5	6,922.6	202.2	202.2	90.00	79.3	6,974.6	573.6	169.3	404.28	1.419	Level 3
14,300.0	6,922.6	14,176.5	6,922.6	205.0	205.0	90.00	79.5	7,074.6	574.4	164.5	409.87	1.401	Level 3
14,400.0	6,922.6	14,276.5	6,922.6	207.8	207.8	90.00	79.8	7,174.6	575.2	159.7	415.47	1.384	Level 3
14,500.0	6,922.6	14,376.5	6,922.6	210.5	210.6	90.00	80.0	7,274.6	576.0	154.9	421.07	1.368	Level 3
14,600.0	6,922.6	14,476.5	6,922.6	213.3	213.4	90.00	80.3	7,374.6	576.7	150.1	426.66	1.352	Level 3
14,700.0	6,922.6	14,576.5	6,922.6	216.1	216.2	90.00	80.5	7,474.6	577.5	145.3	432.26	1.336	Level 3
14,800.0	6,922.6	14,676.5	6,922.6	218.9	219.0	90.00	80.8	7,574.5	578.3	140.5	437.85	1.321	Level 3
14,900.0	6,922.6	14,776.5	6,922.6	221.7	221.8	90.00	81.0	7,674.5	579.1	135.7	443.45	1.306	Level 3
15,000.0	6,922.6	14,876.5	6,922.6	224.5	224.6	90.00	81.3	7,774.5	579.9	130.8	449.05	1.291	Level 3
15,100.0	6,922.6	14,976.5	6,922.6	227.3	227.4	90.00	81.5	7,874.5	580.7	126.0	454.65	1.277	Level 3
15,200.0	6,922.6	15,076.5	6,922.6	230.1	230.2	90.00	81.8	7,974.5	581.5	121.2	460.25	1.263	Level 3
15,300.0	6,922.6	15,176.5	6,922.6	232.9	233.0	90.00	82.0	8,074.5	582.2	116.4	465.85	1.250	Level 2
15,382.5	6,922.6	15,259.0	6,922.6	235.2	235.3	90.00	82.3	8,157.1	582.9	112.4	470.47	1.239	Level 2, SF

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 27-179HC - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 27-179HC - Wellbore #1 - Plan #1 (11-21-13) — **Offset Site Error:** 0.0 ft

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

Reference 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	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	59.6	59.6	36.4	23.15	2.572	
5,300.0	5,300.0	5,300.0	5,300.0	11.8	11.8	90.02	0.0	59.6	59.6	36.0	23.60	2.523	
5,400.0	5,400.0	5,400.0	5,400.0	12.0	12.0	90.02	0.0	59.6	59.6	35.5	24.05	2.476	CC, ES, SF
5,500.0	5,499.8	5,497.4	5,497.4	12.2	12.2	135.24	-0.2	61.3	65.5	41.1	24.40	2.687	
5,600.0	5,598.0	5,592.3	5,592.1	12.5	12.4	142.90	-0.6	66.3	84.7	60.2	24.49	3.460	
5,700.0	5,693.3	5,682.1	5,681.6	12.7	12.6	149.58	-1.2	74.1	118.4	94.1	24.27	4.878	
5,800.0	5,784.3	5,764.8	5,763.7	13.0	12.8	153.85	-1.9	83.8	166.0	142.2	23.75	6.991	
5,900.0	5,870.8	5,840.1	5,838.2	13.4	12.9	157.25	-2.8	94.9	224.4	200.7	23.63	9.497	
6,000.0	5,956.8	5,912.5	5,909.5	13.8	13.1	159.56	-3.8	107.4	285.8	261.9	23.92	11.952	
6,100.0	6,042.9	5,982.4	5,978.0	14.3	13.3	160.87	-4.9	121.3	349.3	325.0	24.25	14.401	
6,200.0	6,129.0	6,049.8	6,043.7	14.9	13.4	161.63	-6.1	136.3	414.5	389.9	24.62	16.835	
6,300.0	6,215.0	6,114.8	6,106.7	15.6	13.6	162.06	-7.4	152.4	481.4	456.3	25.01	19.246	
6,400.0	6,301.1	6,177.5	6,167.0	16.2	13.8	162.28	-8.7	169.2	549.7	524.3	25.42	21.628	
6,500.0	6,387.2	6,237.9	6,224.8	17.0	14.0	162.05	-10.1	186.8	619.5	593.6	25.87	23.950	
6,600.0	6,476.0	6,300.0	6,283.8	17.5	14.2	134.06	-11.7	206.2	683.4	655.4	28.03	24.378	
6,700.0	6,567.1	7,634.2	7,115.6	17.9	22.5	169.34	-37.4	-324.5	713.2	676.9	36.24	19.680	
6,800.0	6,655.8	7,612.1	7,115.6	18.2	22.0	150.20	-37.6	-302.4	676.2	640.6	35.67	18.956	
6,900.0	6,737.5	7,568.7	7,115.6	18.4	21.3	136.40	-37.8	-258.9	653.6	618.8	34.78	18.791	
7,000.0	6,808.1	7,506.1	7,115.6	18.4	20.2	125.75	-38.2	-196.4	643.9	609.8	34.11	18.877	
7,056.7	6,841.8	7,463.4	7,115.6	18.4	19.5	120.63	-38.5	-153.7	642.7	608.7	33.99	18.911	
7,100.0	6,864.0	7,426.7	7,115.6	18.5	19.0	117.12	-38.7	-117.0	643.2	609.3	33.92	18.962	
7,200.0	6,902.2	7,261.1	7,094.7	18.4	17.1	107.19	-37.9	46.4	642.7	608.9	33.86	18.983	
7,300.0	6,920.9	7,117.5	7,027.7	18.6	16.2	99.21	-35.5	172.7	633.2	598.5	34.69	18.251	
7,400.0	6,922.6	7,017.7	6,957.9	20.0	16.0	93.28	-33.1	243.6	620.6	584.6	35.95	17.261	
7,499.2	6,922.6	6,954.6	6,905.8	21.7	15.9	88.44	-31.4	279.1	615.1	577.7	37.40	16.450	
7,500.0	6,922.6	6,954.2	6,905.5	21.7	15.9	88.41	-31.4	279.3	615.1	577.7	37.41	16.445	
7,600.0	6,922.6	6,912.5	6,868.4	23.6	15.9	84.95	-30.2	298.3	621.6	582.6	39.01	15.933	
7,700.0	6,922.6	6,883.5	6,841.6	25.6	15.9	82.47	-29.3	309.2	641.5	600.7	40.78	15.730	
7,800.0	6,922.6	6,862.4	6,821.6	27.8	15.9	80.64	-28.6	316.1	674.5	631.8	42.70	15.798	
7,900.0	6,922.6	6,850.0	6,809.8	30.1	15.8	79.56	-28.2	319.6	719.2	674.4	44.78	16.062	
8,000.0	6,922.6	6,833.9	6,794.2	32.4	15.8	78.15	-27.7	323.6	773.8	726.9	46.85	16.515	
8,100.0	6,922.6	6,825.0	6,785.5	34.9	15.8	77.36	-27.4	325.6	836.5	787.4	49.08	17.045	
8,200.0	6,922.6	6,815.7	6,776.4	37.3	15.8	76.55	-27.1	327.5	905.7	854.4	51.33	17.647	
8,300.0	6,922.6	6,808.9	6,769.7	39.9	15.8	75.95	-26.9	328.8	980.2	926.5	53.64	18.272	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 27-179HN - 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	29.5	29.5				
100.0	100.0	100.0	100.0	0.1	0.1	90.02	0.0	29.5	29.5	29.3	0.22	131.237	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	29.5	29.5	28.8	0.67	43.746	
300.0	300.0	300.0	300.0	0.6	0.6	90.02	0.0	29.5	29.5	28.4	1.12	26.247	
400.0	400.0	400.0	400.0	0.8	0.8	90.02	0.0	29.5	29.5	27.9	1.57	18.748	
500.0	500.0	500.0	500.0	1.0	1.0	90.02	0.0	29.5	29.5	27.5	2.02	14.582	
600.0	600.0	600.0	600.0	1.2	1.2	90.02	0.0	29.5	29.5	27.0	2.47	11.931	
700.0	700.0	700.0	700.0	1.5	1.5	90.02	0.0	29.5	29.5	26.6	2.92	10.095	
800.0	800.0	800.0	800.0	1.7	1.7	90.02	0.0	29.5	29.5	26.1	3.37	8.749	
900.0	900.0	900.0	900.0	1.9	1.9	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	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	90.02	0.0	29.5	29.5	6.8	22.70	1.299	Level 3

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 27-179HN - 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	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	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	90.02	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	90.02	0.0	29.5	29.5	5.4	24.05	1.227	Level 2, CC, ES, SF
5,500.0	5,499.8	5,499.8	5,499.8	12.2	12.2	139.06	0.0	29.5	33.9	9.4	24.41	1.387	Level 3
5,600.0	5,598.0	5,598.0	5,598.0	12.5	12.5	152.57	0.0	29.5	49.1	24.7	24.45	2.008	
5,700.0	5,693.3	5,686.8	5,686.5	12.7	12.7	158.60	1.5	34.5	81.0	56.8	24.16	3.351	
5,800.0	5,784.3	5,765.4	5,763.9	13.0	12.8	158.32	5.6	47.7	130.9	107.2	23.67	5.530	
5,900.0	5,870.8	5,832.6	5,828.5	13.4	13.0	157.26	11.1	65.2	194.1	170.4	23.69	8.191	
6,000.0	5,956.8	5,892.4	5,884.3	13.8	13.1	155.99	17.5	85.7	262.4	238.3	24.11	10.883	
6,100.0	6,042.9	5,950.0	5,936.2	14.3	13.3	154.36	24.9	109.5	334.8	310.3	24.58	13.622	
6,200.0	6,129.0	6,000.5	5,980.2	14.9	13.5	152.87	32.3	133.2	410.4	385.3	25.07	16.373	
6,300.0	6,215.0	6,064.7	6,035.9	15.6	13.7	151.43	41.8	163.8	486.7	461.1	25.62	18.999	
6,400.0	6,301.1	6,129.0	6,091.6	16.2	14.0	150.38	51.3	194.3	563.0	536.9	26.17	21.512	
6,500.0	6,387.2	7,481.5	6,930.6	17.0	22.8	-165.54	193.1	-298.8	562.4	529.7	32.74	17.181	
6,600.0	6,476.0	7,504.0	6,930.6	17.5	23.2	-171.95	193.1	-321.3	490.6	454.4	36.19	13.557	
6,700.0	6,567.1	7,504.0	6,930.6	17.9	23.2	170.23	193.1	-321.4	427.7	390.5	37.16	11.509	
6,800.0	6,655.8	7,481.6	6,930.6	18.2	22.8	151.07	193.1	-298.9	381.9	345.3	36.59	10.436	
6,900.0	6,737.5	7,437.9	6,930.6	18.4	22.0	134.59	193.2	-255.2	358.5	322.7	35.81	10.012	
6,963.0	6,783.5	7,400.4	6,930.6	18.4	21.3	124.94	193.3	-217.7	354.9	319.3	35.57	9.977	
7,000.0	6,808.1	7,375.1	6,930.6	18.4	20.9	119.49	193.3	-192.4	355.9	320.4	35.55	10.011	
7,100.0	6,864.0	7,296.5	6,930.6	18.5	19.6	106.20	193.4	-113.8	366.0	330.3	35.67	10.259	
7,200.0	6,902.2	7,211.0	6,927.0	18.4	18.4	96.21	192.9	-28.5	379.2	343.3	35.85	10.578	
7,300.0	6,920.9	7,130.9	6,909.8	18.6	17.5	88.91	190.1	49.6	391.4	355.3	36.07	10.850	
7,400.0	6,922.6	7,056.3	6,881.5	20.0	16.9	84.08	185.4	118.4	402.9	366.4	36.50	11.041	
7,500.0	6,922.6	6,992.4	6,848.5	21.7	16.6	79.57	179.9	172.7	422.5	385.3	37.26	11.341	
7,600.0	6,922.6	6,939.6	6,815.6	23.6	16.4	75.32	174.4	213.6	453.1	414.8	38.23	11.851	
7,700.0	6,922.6	6,900.0	6,787.9	25.6	16.4	71.95	169.7	241.5	494.9	455.5	39.43	12.551	
7,800.0	6,922.6	6,860.9	6,758.2	27.8	16.3	68.56	164.7	266.4	547.1	506.5	40.62	13.469	
7,900.0	6,922.6	6,831.7	6,734.7	30.1	16.3	66.04	160.7	283.3	608.2	566.2	42.00	14.480	
8,000.0	6,922.6	6,807.3	6,714.3	32.4	16.3	63.96	157.2	296.0	676.4	632.9	43.48	15.554	
8,100.0	6,922.6	6,786.9	6,696.6	34.9	16.3	62.25	154.3	305.9	750.2	705.1	45.05	16.652	
8,200.0	6,922.6	6,775.0	6,686.1	37.3	16.2	61.27	152.5	311.3	828.5	781.7	46.87	17.676	
8,300.0	6,922.6	6,750.0	6,663.7	39.9	16.2	59.25	148.7	321.5	910.3	862.1	48.23	18.874	
8,400.0	6,922.6	6,750.0	6,663.7	42.4	16.2	59.25	148.7	321.5	995.0	944.5	50.46	19.720	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 27-182HN - Wellbore #1 - Plan #1 (11-21-13)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

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

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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

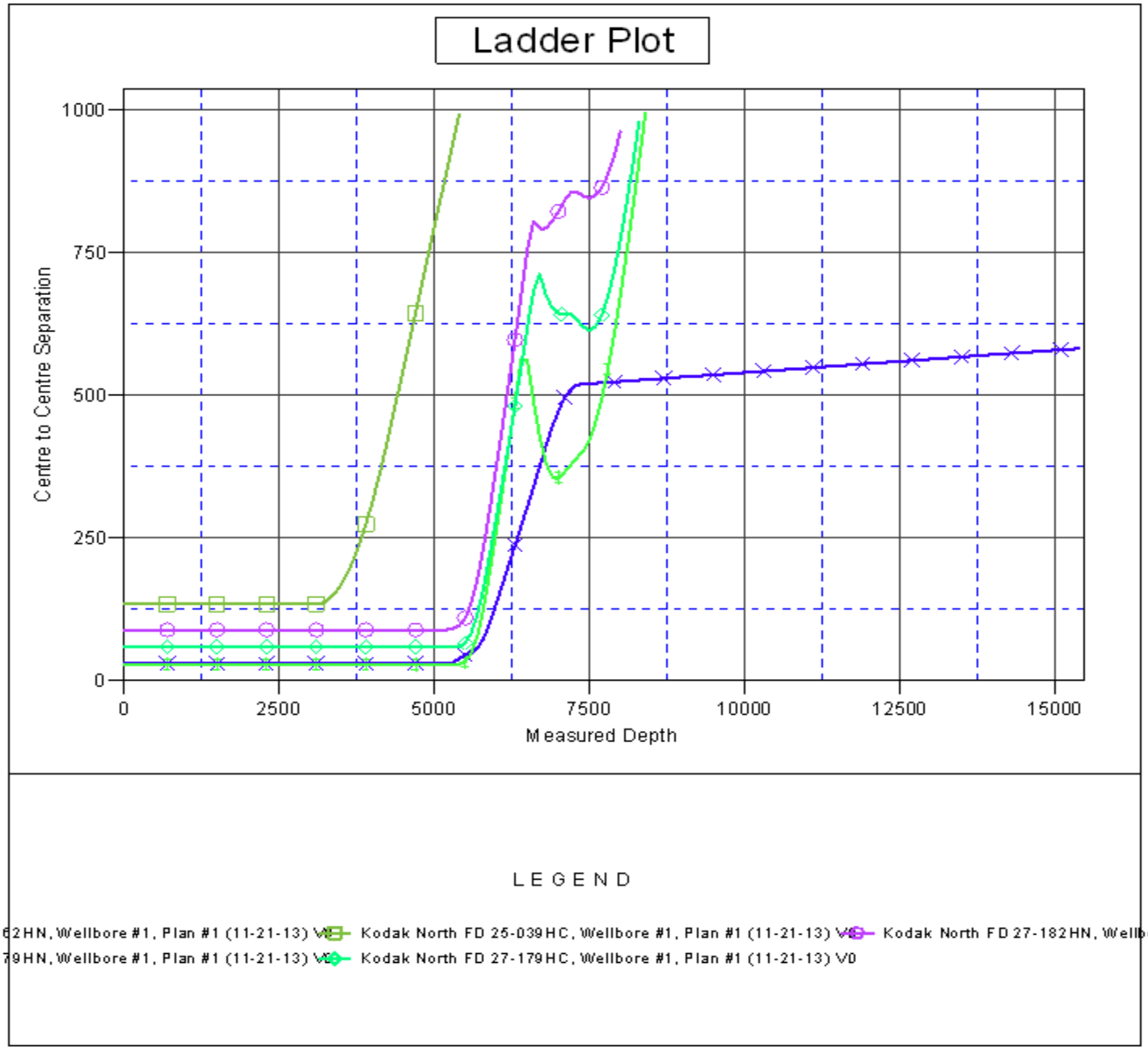
Offset Design Kodak North Pad Sec.26-T6N-R67W - Kodak North FD 27-182HN - Wellbore #1 - Plan #1 (11-21-13) **Offset Site Error:** 0.0 ft

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

Reference 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	5,200.0	5,200.0	5,200.0	11.6	11.6	90.02	0.0	89.6	89.6	66.5	23.15	3.871	CC, ES, SF
5,300.0	5,300.0	5,296.8	5,296.7	11.8	11.8	90.72	-1.1	91.3	91.4	67.8	23.57	3.877	
5,400.0	5,400.0	5,393.2	5,393.0	12.0	12.0	92.66	-4.5	96.4	96.8	72.8	23.97	4.038	
5,500.0	5,499.8	5,488.0	5,487.2	12.2	12.1	138.31	-9.9	104.8	110.5	86.2	24.28	4.550	
5,600.0	5,598.0	5,578.1	5,576.4	12.5	12.3	144.34	-17.0	115.7	138.1	113.8	24.35	5.673	
5,700.0	5,693.3	5,661.0	5,657.9	12.7	12.5	149.54	-25.2	128.3	180.6	156.5	24.12	7.488	
5,800.0	5,784.3	5,734.6	5,729.7	13.0	12.6	153.00	-33.9	141.6	237.1	213.5	23.61	10.043	
5,900.0	5,870.8	5,800.0	5,793.2	13.4	12.8	156.48	-42.6	155.1	304.2	280.7	23.46	12.964	
6,000.0	5,956.8	5,859.6	5,850.5	13.8	13.0	159.34	-51.4	168.6	374.6	350.9	23.69	15.809	
6,100.0	6,042.9	5,917.0	5,905.4	14.3	13.1	161.34	-60.7	182.9	447.2	423.3	23.97	18.658	
6,200.0	6,129.0	5,971.4	5,956.9	14.9	13.3	162.78	-70.1	197.4	521.8	497.5	24.27	21.495	
6,300.0	6,215.0	6,023.0	6,005.5	15.6	13.5	163.86	-79.7	212.2	598.0	573.4	24.60	24.312	
6,400.0	6,301.1	6,072.0	6,051.1	16.2	13.6	164.68	-89.4	227.0	675.7	650.8	24.93	27.102	
6,500.0	6,387.2	6,127.7	6,102.7	17.0	13.8	165.09	-100.8	244.7	754.5	729.2	25.32	29.805	
6,600.0	6,476.0	7,481.7	6,930.6	17.5	22.4	-166.91	-286.7	-320.6	805.0	769.4	35.58	22.626	
6,700.0	6,567.1	7,481.8	6,930.6	17.9	22.4	166.21	-286.7	-320.6	793.3	757.4	35.84	22.136	
6,743.3	6,606.0	7,474.8	6,930.6	18.0	22.3	154.97	-286.7	-313.6	792.1	756.3	35.77	22.147	
6,800.0	6,655.8	7,459.3	6,930.6	18.2	22.0	142.15	-286.7	-298.2	794.0	758.4	35.63	22.286	
6,900.0	6,737.5	7,415.6	6,930.6	18.4	21.2	124.47	-286.6	-254.5	805.4	770.0	35.38	22.761	
7,000.0	6,808.1	7,352.9	6,930.6	18.4	20.1	111.10	-286.5	-191.7	823.2	787.9	35.28	23.331	
7,100.0	6,864.0	7,274.2	6,930.6	18.5	18.8	101.00	-286.4	-113.1	842.3	807.1	35.14	23.968	
7,200.0	6,902.2	7,129.1	6,915.9	18.4	16.9	92.20	-282.9	30.8	856.0	821.7	34.38	24.899	
7,300.0	6,920.9	6,989.5	6,860.5	18.6	16.0	85.73	-270.3	157.6	857.2	822.9	34.30	24.995	
7,400.0	6,922.6	6,885.6	6,795.6	20.0	15.9	81.39	-255.7	237.1	850.1	815.1	34.97	24.312	
7,498.5	6,922.6	6,816.2	6,742.9	21.7	15.9	77.74	-243.9	280.5	846.7	810.7	36.01	23.514	
7,500.0	6,922.6	6,815.3	6,742.2	21.7	15.9	77.70	-243.7	281.0	846.7	810.6	36.02	23.503	
7,600.0	6,922.6	6,767.3	6,702.1	23.6	15.8	74.92	-234.7	305.8	851.1	813.7	37.36	22.781	
7,700.0	6,922.6	6,733.3	6,672.1	25.6	15.8	72.85	-228.0	320.6	864.9	826.0	38.91	22.227	
7,800.0	6,922.6	6,708.1	6,649.3	27.8	15.8	71.29	-222.9	329.9	888.4	847.8	40.63	21.865	
7,900.0	6,922.6	6,688.8	6,631.5	30.1	15.8	70.07	-218.9	336.2	921.4	878.9	42.49	21.687	
8,000.0	6,922.6	6,675.0	6,618.6	32.4	15.8	69.20	-216.0	340.2	963.1	918.7	44.47	21.659	

Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 25-122HN
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.41°



Company:	Great Western	**Local Co-ordinate Reference:**	Well Kodak North FD 25-122HN
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 25-122HN	**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 25-122HN
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°