

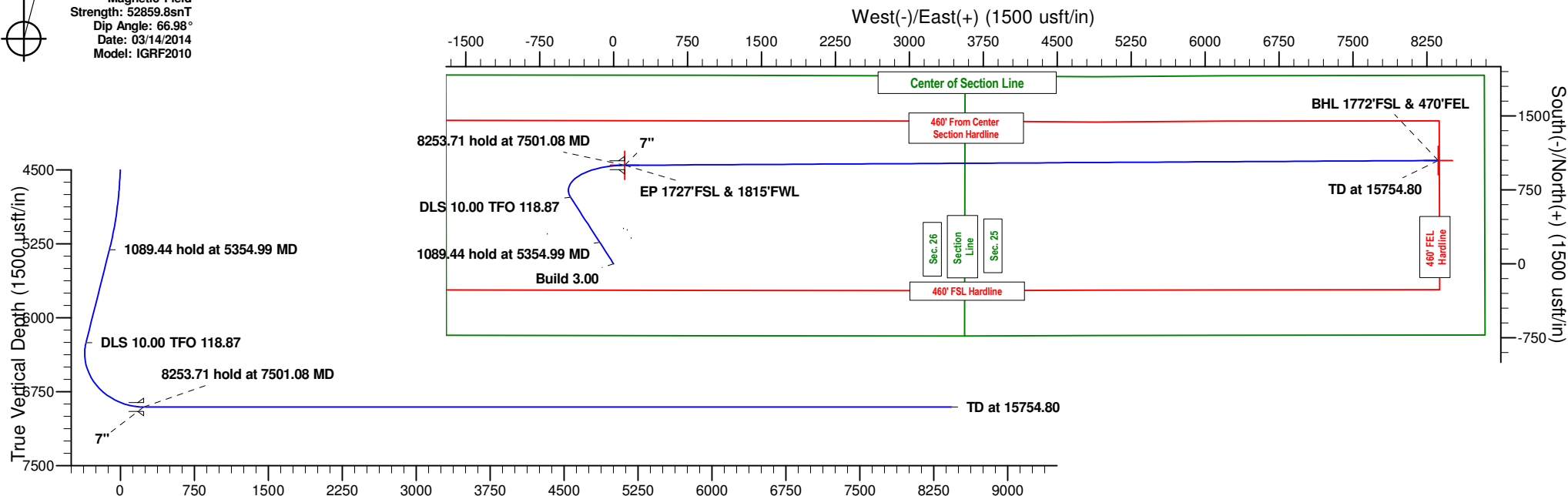


Project: Weld Co., CO
 Site: Sec.26-T6N-R7W
 Well: Kodak South FD 25-279HN
 Wellbore: Wellbore #1
 Design: Design #1
 Lat: 40° 27' 9.691 N
 Long: 104° 51' 51.250 W
 GL: 4742.60
 KB: WELL @ 4758.80usft (Original Well Elev)

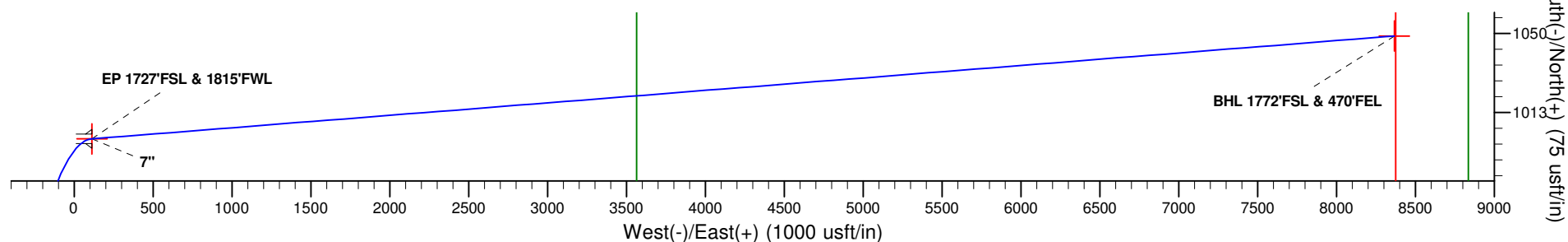


T M
 Azimuths to True North
 Magnetic North: 8.55°
 Magnetic Field
 Strength: 52859.8snT
 Dip Angle: 66.98°
 Date: 03/14/2014
 Model: IGRF2010

CASING DETAILS:
 Name Size
 MD 7" 7"
 TVD 6904.80 7501.08



Vertical Section at 82.85° (1500 usft/in)



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BHL 1772'FSL & 470'FEL	6904.80	1048.80	8366.27	40° 27' 20.041 N	104° 50' 3.019 W	
EP 1727'FSL & 1815'FWL	6904.80	1000.00	112.70	40° 27' 19.573 N	104° 51' 49.792 W	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4350.00	0.00	0.00	4350.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
5354.99	30.15	327.14	5309.25	217.04	-140.19	3.00	327.14	-112.10	1089.44 hold at 5354.99 MD
6444.43	30.15	327.14	6251.31	676.68	-437.07	0.00	0.00	-349.51	DLS 10.00 TFO 118.87
7501.08	90.00	89.66	6904.80	1000.00	112.70	10.00	118.87	236.22	8253.71 hold at 7501.08 MD
15754.80	90.00	89.66	6904.80	1048.80	8366.27	0.00	0.00	8431.75	TD at 15754.80



Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 25-279HN

Wellbore #1

Plan: Design #1

Standard Planning Report

18 March, 2014



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site:	Sec.26-T6N-R7W	North Reference:	True
Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Weld Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec.26-T6N-R7W				
Site Position:		Northing:	1,408,389.86 usft	Latitude:	40° 27' 9.691 N	
	From:	Lat/Long	Easting:	3,176,867.33 usft	Longitude:	104° 51' 52.031 W
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41

Well	Kodak South FD 25-279HN					
Well Position	+N/-S	-0.02 usft	Northing:	1,408,390.28 usft	Latitude:	40° 27' 9.691 N
	+E/-W	60.39 usft	Easting:	3,176,927.72 usft	Longitude:	104° 51' 51.250 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,742.60 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/14/14	8.55	66.98	52,860

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	82.85

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,350.00	0.00	0.00	4,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,355.00	30.15	327.14	5,309.25	217.04	-140.19	3.00	3.00	0.00	327.14	
6,444.43	30.15	327.14	6,251.31	676.68	-437.07	0.00	0.00	0.00	0.00	
7,501.08	90.00	89.66	6,904.80	1,000.00	112.70	10.00	5.66	11.60	118.87	EP 1727'FSL & 1815'
15,754.80	90.00	89.66	6,904.80	1,048.80	8,366.27	0.00	0.00	0.00	0.00	BHL 1772'FSL & 470'

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site:	Sec.26-T6N-R7W	North Reference:	True
Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,350.00	0.00	0.00	4,350.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 3.00									
4,400.00	1.50	327.14	4,399.99	0.55	-0.36	-0.28	3.00	3.00	0.00
4,500.00	4.50	327.14	4,499.85	4.95	-3.19	-2.55	3.00	3.00	0.00
4,600.00	7.50	327.14	4,599.29	13.73	-8.87	-7.09	3.00	3.00	0.00
4,700.00	10.50	327.14	4,698.04	26.86	-17.35	-13.88	3.00	3.00	0.00
4,800.00	13.50	327.14	4,795.85	44.33	-28.63	-22.89	3.00	3.00	0.00
4,900.00	16.50	327.14	4,892.43	66.07	-42.67	-34.12	3.00	3.00	0.00
5,000.00	19.50	327.14	4,987.52	92.02	-59.44	-47.53	3.00	3.00	0.00
5,100.00	22.50	327.14	5,080.87	122.12	-78.88	-63.08	3.00	3.00	0.00

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Project:	Weld Co., CO	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site:	Sec.26-T6N-R7W	North Reference:	True
Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.00	25.50	327.14	5,172.22	156.28	-100.94	-80.72	3.00	3.00	0.00	
5,300.00	28.50	327.14	5,261.31	194.41	-125.57	-100.41	3.00	3.00	0.00	
5,355.00	30.15	327.14	5,309.25	217.04	-140.19	-112.10	3.00	3.00	0.00	
1089.44 hold at 5354.99 MD										
5,400.00	30.15	327.14	5,348.17	236.03	-152.45	-121.91	0.00	0.00	0.00	
5,500.00	30.15	327.14	5,434.64	278.22	-179.70	-143.70	0.00	0.00	0.00	
5,600.00	30.15	327.14	5,521.11	320.41	-206.95	-165.49	0.00	0.00	0.00	
5,700.00	30.15	327.14	5,607.58	362.60	-234.20	-187.28	0.00	0.00	0.00	
5,800.00	30.15	327.14	5,694.05	404.79	-261.45	-209.07	0.00	0.00	0.00	
5,900.00	30.15	327.14	5,780.53	446.98	-288.71	-230.87	0.00	0.00	0.00	
6,000.00	30.15	327.14	5,867.00	489.17	-315.96	-252.66	0.00	0.00	0.00	
6,100.00	30.15	327.14	5,953.47	531.36	-343.21	-274.45	0.00	0.00	0.00	
6,200.00	30.15	327.14	6,039.94	573.55	-370.46	-296.24	0.00	0.00	0.00	
6,300.00	30.15	327.14	6,126.41	615.74	-397.71	-318.03	0.00	0.00	0.00	
6,400.00	30.15	327.14	6,212.88	657.93	-424.96	-339.82	0.00	0.00	0.00	
6,444.43	30.15	327.14	6,251.31	676.68	-437.07	-349.51	0.00	0.00	0.00	
DLS 10.00 TFO 118.87										
6,450.00	29.88	328.12	6,256.13	679.03	-438.56	-350.69	10.00	-4.76	17.58	
6,500.00	27.86	337.60	6,299.93	700.42	-449.60	-358.98	10.00	-4.06	18.96	
6,550.00	26.56	348.17	6,344.43	722.18	-456.35	-362.97	10.00	-2.60	21.15	
6,600.00	26.09	359.41	6,389.27	744.13	-458.75	-362.63	10.00	-0.92	22.48	
6,650.00	26.52	10.67	6,434.12	766.10	-456.79	-357.95	10.00	0.85	22.51	
6,700.00	27.78	21.29	6,478.64	787.94	-450.49	-348.98	10.00	2.53	21.23	
6,750.00	29.78	30.82	6,522.48	809.48	-439.89	-335.79	10.00	4.00	19.06	
6,800.00	32.38	39.10	6,565.32	830.55	-425.08	-318.47	10.00	5.20	16.57	
6,850.00	35.45	46.19	6,606.82	850.99	-406.16	-297.15	10.00	6.13	14.18	
6,900.00	38.87	52.24	6,646.68	870.64	-383.28	-272.00	10.00	6.84	12.09	
6,950.00	42.55	57.42	6,684.58	889.37	-356.61	-243.21	10.00	7.37	10.37	
7,000.00	46.44	61.91	6,720.25	907.01	-326.36	-211.01	10.00	7.78	8.97	
7,050.00	50.49	65.84	6,753.40	923.45	-292.76	-175.62	10.00	8.09	7.86	
7,100.00	54.65	69.33	6,783.79	938.55	-256.06	-137.33	10.00	8.32	6.99	
7,150.00	58.90	72.48	6,811.18	952.20	-216.54	-96.42	10.00	8.50	6.29	
7,200.00	63.22	75.35	6,835.38	964.30	-174.51	-53.21	10.00	8.64	5.75	
7,250.00	67.60	78.01	6,856.18	974.75	-130.28	-8.02	10.00	8.75	5.32	
7,300.00	72.02	80.51	6,873.43	983.47	-84.18	38.80	10.00	8.83	5.00	
7,350.00	76.46	82.89	6,887.01	990.41	-36.58	86.90	10.00	8.89	4.75	
7,400.00	80.93	85.18	6,896.81	995.49	12.17	135.90	10.00	8.94	4.58	
7,450.00	85.41	87.41	6,902.76	998.70	61.69	185.44	10.00	8.96	4.46	
7,501.08	90.00	89.66	6,904.80	1,000.00	112.70	236.22	10.00	8.98	4.41	
8253.71 hold at 7501.08 MD										
7,600.00	90.00	89.66	6,904.80	1,000.58	211.62	334.43	0.00	0.00	0.00	
7,700.00	90.00	89.66	6,904.80	1,001.18	311.62	433.73	0.00	0.00	0.00	
7,800.00	90.00	89.66	6,904.80	1,001.77	411.62	533.03	0.00	0.00	0.00	
7,900.00	90.00	89.66	6,904.80	1,002.36	511.61	632.32	0.00	0.00	0.00	
8,000.00	90.00	89.66	6,904.80	1,002.95	611.61	731.62	0.00	0.00	0.00	
8,100.00	90.00	89.66	6,904.80	1,003.54	711.61	830.91	0.00	0.00	0.00	
8,200.00	90.00	89.66	6,904.80	1,004.13	811.61	930.21	0.00	0.00	0.00	
8,300.00	90.00	89.66	6,904.80	1,004.72	911.61	1,029.50	0.00	0.00	0.00	
8,400.00	90.00	89.66	6,904.80	1,005.31	1,011.60	1,128.80	0.00	0.00	0.00	
8,500.00	90.00	89.66	6,904.80	1,005.91	1,111.60	1,228.09	0.00	0.00	0.00	
8,600.00	90.00	89.66	6,904.80	1,006.50	1,211.60	1,327.39	0.00	0.00	0.00	
8,700.00	90.00	89.66	6,904.80	1,007.09	1,311.60	1,426.68	0.00	0.00	0.00	
8,800.00	90.00	89.66	6,904.80	1,007.68	1,411.60	1,525.98	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
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Project:	Weld Co., CO	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site:	Sec.26-T6N-R7W	North Reference:	True
Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,900.00	90.00	89.66	6,904.80	1,008.27	1,511.60	1,625.27	0.00	0.00	0.00	
9,000.00	90.00	89.66	6,904.80	1,008.86	1,611.59	1,724.57	0.00	0.00	0.00	
9,100.00	90.00	89.66	6,904.80	1,009.45	1,711.59	1,823.86	0.00	0.00	0.00	
9,200.00	90.00	89.66	6,904.80	1,010.05	1,811.59	1,923.16	0.00	0.00	0.00	
9,300.00	90.00	89.66	6,904.80	1,010.64	1,911.59	2,022.45	0.00	0.00	0.00	
9,400.00	90.00	89.66	6,904.80	1,011.23	2,011.59	2,121.75	0.00	0.00	0.00	
9,500.00	90.00	89.66	6,904.80	1,011.82	2,111.59	2,221.04	0.00	0.00	0.00	
9,600.00	90.00	89.66	6,904.80	1,012.41	2,211.58	2,320.34	0.00	0.00	0.00	
9,700.00	90.00	89.66	6,904.80	1,013.00	2,311.58	2,419.63	0.00	0.00	0.00	
9,800.00	90.00	89.66	6,904.80	1,013.59	2,411.58	2,518.93	0.00	0.00	0.00	
9,900.00	90.00	89.66	6,904.80	1,014.18	2,511.58	2,618.22	0.00	0.00	0.00	
10,000.00	90.00	89.66	6,904.80	1,014.78	2,611.58	2,717.52	0.00	0.00	0.00	
10,100.00	90.00	89.66	6,904.80	1,015.37	2,711.57	2,816.81	0.00	0.00	0.00	
10,200.00	90.00	89.66	6,904.80	1,015.96	2,811.57	2,916.11	0.00	0.00	0.00	
10,300.00	90.00	89.66	6,904.80	1,016.55	2,911.57	3,015.41	0.00	0.00	0.00	
10,400.00	90.00	89.66	6,904.80	1,017.14	3,011.57	3,114.70	0.00	0.00	0.00	
10,500.00	90.00	89.66	6,904.80	1,017.73	3,111.57	3,214.00	0.00	0.00	0.00	
10,600.00	90.00	89.66	6,904.80	1,018.32	3,211.57	3,313.29	0.00	0.00	0.00	
10,700.00	90.00	89.66	6,904.80	1,018.91	3,311.56	3,412.59	0.00	0.00	0.00	
10,800.00	90.00	89.66	6,904.80	1,019.51	3,411.56	3,511.88	0.00	0.00	0.00	
10,900.00	90.00	89.66	6,904.80	1,020.10	3,511.56	3,611.18	0.00	0.00	0.00	
11,000.00	90.00	89.66	6,904.80	1,020.69	3,611.56	3,710.47	0.00	0.00	0.00	
11,100.00	90.00	89.66	6,904.80	1,021.28	3,711.56	3,809.77	0.00	0.00	0.00	
11,200.00	90.00	89.66	6,904.80	1,021.87	3,811.56	3,909.06	0.00	0.00	0.00	
11,300.00	90.00	89.66	6,904.80	1,022.46	3,911.55	4,008.36	0.00	0.00	0.00	
11,400.00	90.00	89.66	6,904.80	1,023.05	4,011.55	4,107.65	0.00	0.00	0.00	
11,500.00	90.00	89.66	6,904.80	1,023.64	4,111.55	4,206.95	0.00	0.00	0.00	
11,600.00	90.00	89.66	6,904.80	1,024.24	4,211.55	4,306.24	0.00	0.00	0.00	
11,700.00	90.00	89.66	6,904.80	1,024.83	4,311.55	4,405.54	0.00	0.00	0.00	
11,800.00	90.00	89.66	6,904.80	1,025.42	4,411.55	4,504.83	0.00	0.00	0.00	
11,900.00	90.00	89.66	6,904.80	1,026.01	4,511.54	4,604.13	0.00	0.00	0.00	
12,000.00	90.00	89.66	6,904.80	1,026.60	4,611.54	4,703.42	0.00	0.00	0.00	
12,100.00	90.00	89.66	6,904.80	1,027.19	4,711.54	4,802.72	0.00	0.00	0.00	
12,200.00	90.00	89.66	6,904.80	1,027.78	4,811.54	4,902.01	0.00	0.00	0.00	
12,300.00	90.00	89.66	6,904.80	1,028.37	4,911.54	5,001.31	0.00	0.00	0.00	
12,400.00	90.00	89.66	6,904.80	1,028.97	5,011.53	5,100.60	0.00	0.00	0.00	
12,500.00	90.00	89.66	6,904.80	1,029.56	5,111.53	5,199.90	0.00	0.00	0.00	
12,600.00	90.00	89.66	6,904.80	1,030.15	5,211.53	5,299.19	0.00	0.00	0.00	
12,700.00	90.00	89.66	6,904.80	1,030.74	5,311.53	5,398.49	0.00	0.00	0.00	
12,800.00	90.00	89.66	6,904.80	1,031.33	5,411.53	5,497.78	0.00	0.00	0.00	
12,900.00	90.00	89.66	6,904.80	1,031.92	5,511.53	5,597.08	0.00	0.00	0.00	
13,000.00	90.00	89.66	6,904.80	1,032.51	5,611.52	5,696.38	0.00	0.00	0.00	
13,100.00	90.00	89.66	6,904.80	1,033.10	5,711.52	5,795.67	0.00	0.00	0.00	
13,200.00	90.00	89.66	6,904.80	1,033.70	5,811.52	5,894.97	0.00	0.00	0.00	
13,300.00	90.00	89.66	6,904.80	1,034.29	5,911.52	5,994.26	0.00	0.00	0.00	
13,400.00	90.00	89.66	6,904.80	1,034.88	6,011.52	6,093.56	0.00	0.00	0.00	
13,500.00	90.00	89.66	6,904.80	1,035.47	6,111.52	6,192.85	0.00	0.00	0.00	
13,600.00	90.00	89.66	6,904.80	1,036.06	6,211.51	6,292.15	0.00	0.00	0.00	
13,700.00	90.00	89.66	6,904.80	1,036.65	6,311.51	6,391.44	0.00	0.00	0.00	
13,800.00	90.00	89.66	6,904.80	1,037.24	6,411.51	6,490.74	0.00	0.00	0.00	
13,900.00	90.00	89.66	6,904.80	1,037.83	6,511.51	6,590.03	0.00	0.00	0.00	
14,000.00	90.00	89.66	6,904.80	1,038.43	6,611.51	6,689.33	0.00	0.00	0.00	
14,100.00	90.00	89.66	6,904.80	1,039.02	6,711.51	6,788.62	0.00	0.00	0.00	
14,200.00	90.00	89.66	6,904.80	1,039.61	6,811.50	6,887.92	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Company:	Great Western Oil & Gas	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Project:	Weld Co., CO	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site:	Sec.26-T6N-R7W	North Reference:	True
Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,300.00	90.00	89.66	6,904.80	1,040.20	6,911.50	6,987.21	0.00	0.00	0.00	
14,400.00	90.00	89.66	6,904.80	1,040.79	7,011.50	7,086.51	0.00	0.00	0.00	
14,500.00	90.00	89.66	6,904.80	1,041.38	7,111.50	7,185.80	0.00	0.00	0.00	
14,600.00	90.00	89.66	6,904.80	1,041.97	7,211.50	7,285.10	0.00	0.00	0.00	
14,700.00	90.00	89.66	6,904.80	1,042.56	7,311.49	7,384.39	0.00	0.00	0.00	
14,800.00	90.00	89.66	6,904.80	1,043.16	7,411.49	7,483.69	0.00	0.00	0.00	
14,900.00	90.00	89.66	6,904.80	1,043.75	7,511.49	7,582.98	0.00	0.00	0.00	
15,000.00	90.00	89.66	6,904.80	1,044.34	7,611.49	7,682.28	0.00	0.00	0.00	
15,100.00	90.00	89.66	6,904.80	1,044.93	7,711.49	7,781.57	0.00	0.00	0.00	
15,200.00	90.00	89.66	6,904.80	1,045.52	7,811.49	7,880.87	0.00	0.00	0.00	
15,300.00	90.00	89.66	6,904.80	1,046.11	7,911.48	7,980.16	0.00	0.00	0.00	
15,400.00	90.00	89.66	6,904.80	1,046.70	8,011.48	8,079.46	0.00	0.00	0.00	
15,500.00	90.00	89.66	6,904.80	1,047.29	8,111.48	8,178.75	0.00	0.00	0.00	
15,600.00	90.00	89.66	6,904.80	1,047.89	8,211.48	8,278.05	0.00	0.00	0.00	
15,700.00	90.00	89.66	6,904.80	1,048.48	8,311.48	8,377.35	0.00	0.00	0.00	
15,754.80	90.00	89.66	6,904.80	1,048.80	8,366.27	8,431.76	0.00	0.00	0.00	
TD at 15754.80										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
EP 1727'FSL & 1815'FM	0.00	0.00	6,904.80	1,000.00	112.70	1,409,391.06	3,177,033.25	40° 27' 19.573 N	104° 51' 49.792 W	
- plan hits target center										
- Point										
BHL 1772'FSL & 470'FE	0.00	0.00	6,904.80	1,048.80	8,366.27	1,409,499.03	3,185,286.26	40° 27' 20.041 N	104° 50' 3.019 W	
- plan hits target center										
- Point										

Casing Points							Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name						
7,501.08	6,904.80	7"					7	7-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,350.00	4,350.00	0.00	0.00	Build 3.00	
5,355.00	5,309.25	217.04	-140.19	1089.44 hold at 5354.99 MD	
6,444.43	6,251.31	676.68	-437.07	DLS 10.00 TFO 118.87	
7,501.08	6,904.80	1,000.00	112.70	8253.71 hold at 7501.08 MD	
15,754.80	6,904.80	1,048.80	8,366.27	TD at 15754.80	



Precision
Directional Services

Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 25-279HN

Wellbore #1

Design #1

Anticollision Summary Report

18 March, 2014



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Reference Site:	Sec.26-T6N-R7W	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

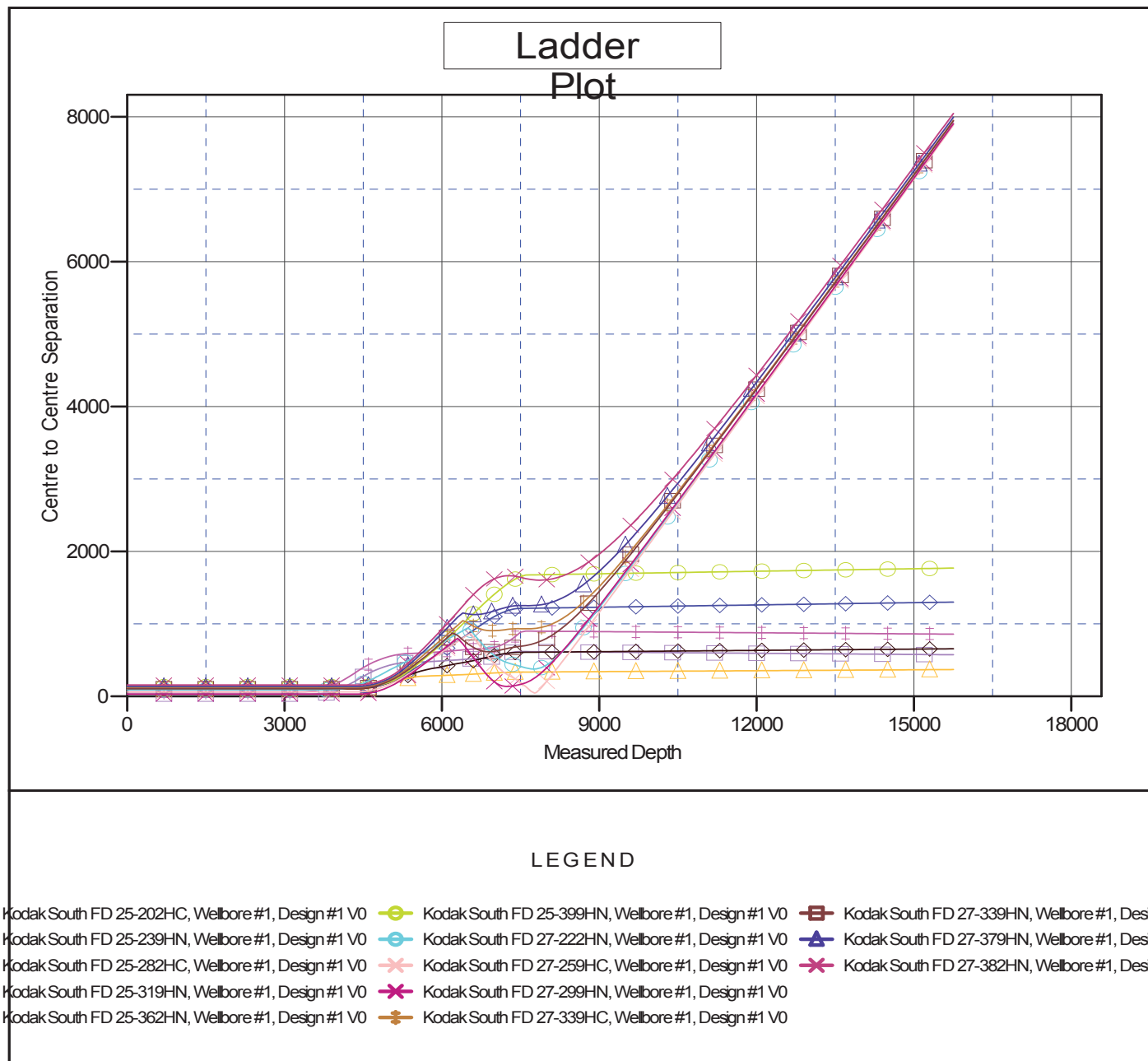
Survey Tool Program		Date	03/18/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,754.80	Design #1 (Wellbore #1)	MWD	Std MWD	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec.26-T6N-R7W						
Kodak South FD 25-202HC - Wellbore #1 - Design #1	3,200.00	3,200.00	60.39	43.72	3.623	CC
Kodak South FD 25-202HC - Wellbore #1 - Design #1	3,300.00	3,299.34	60.82	43.63	3.538	ES, SF
Kodak South FD 25-239HN - Wellbore #1 - Design #1	3,435.22	3,435.22	30.06	12.15	1.679	CC
Kodak South FD 25-239HN - Wellbore #1 - Design #1	3,500.00	3,499.75	30.26	12.02	1.659	ES, SF
Kodak South FD 25-282HC - Wellbore #1 - Design #1	4,350.00	4,350.00	100.19	77.49	4.415	CC, ES
Kodak South FD 25-282HC - Wellbore #1 - Design #1	15,754.80	15,895.15	370.01	192.70	2.087	SF
Kodak South FD 25-319HN - Wellbore #1 - Design #1	4,350.00	4,350.00	104.83	82.14	4.620	CC, ES
Kodak South FD 25-319HN - Wellbore #1 - Design #1	15,754.80	15,627.47	656.83	464.44	3.414	SF
Kodak South FD 25-362HN - Wellbore #1 - Design #1	4,350.00	4,350.00	116.79	94.10	5.147	CC, ES
Kodak South FD 25-362HN - Wellbore #1 - Design #1	4,500.00	4,499.85	119.45	95.98	5.090	SF
Kodak South FD 25-399HN - Wellbore #1 - Design #1	4,350.00	4,350.00	134.43	111.74	5.924	CC
Kodak South FD 25-399HN - Wellbore #1 - Design #1	4,400.00	4,399.99	134.60	111.65	5.864	ES
Kodak South FD 25-399HN - Wellbore #1 - Design #1	4,500.00	4,499.85	136.06	112.58	5.796	SF
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,752.45	3,752.45	89.62	70.05	4.581	CC
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,800.00	3,799.56	89.69	69.88	4.527	ES
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,900.00	3,897.91	91.09	70.76	4.480	SF
Kodak South FD 27-259HC - Wellbore #1 - Design #1	7,768.13	7,183.73	45.07	5.44	1.137	Level 2, CC, ES, SF
Kodak South FD 27-299HN - Wellbore #1 - Design #1	4,350.00	4,350.00	30.06	7.36	1.325	Level 3, CC, ES, SF
Kodak South FD 27-339HC - Wellbore #1 - Design #1	4,350.00	4,350.00	116.13	93.44	5.118	CC, ES
Kodak South FD 27-339HC - Wellbore #1 - Design #1	4,400.00	4,399.99	116.78	93.83	5.089	SF
Kodak South FD 27-339HN - Wellbore #1 - Design #1	4,350.00	4,350.00	104.36	81.67	4.599	CC, ES
Kodak South FD 27-339HN - Wellbore #1 - Design #1	4,400.00	4,399.99	104.99	82.04	4.575	SF
Kodak South FD 27-379HN - Wellbore #1 - Design #1	4,350.00	4,350.00	134.68	111.99	5.935	CC, ES
Kodak South FD 27-379HN - Wellbore #1 - Design #1	4,400.00	4,399.99	135.32	112.38	5.897	SF
Kodak South FD 27-382HN - Wellbore #1 - Design #1	4,350.00	4,350.00	156.35	133.66	6.890	CC, ES
Kodak South FD 27-382HN - Wellbore #1 - Design #1	4,400.00	4,399.99	156.98	134.03	6.841	SF

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Reference Site:	Sec.26-T6N-R7W	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4758.80usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Kodak South FD 25-279HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 25-279HN
Project:	Weld Co., CO	TVD Reference:	WELL @ 4758.80usft (Original Well Elev)
Reference Site:	Sec.26-T6N-R7W	MD Reference:	WELL @ 4758.80usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Kodak South FD 25-279HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4758.80usft (Original Well E

Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Kodak South FD 25-279HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

