

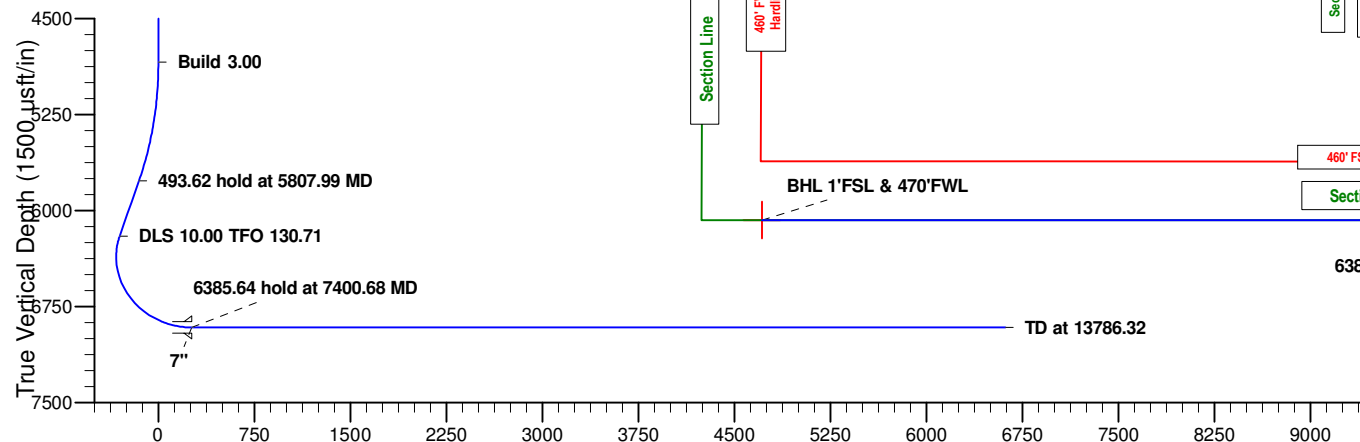


Project: Weld Co., CO
Site: Sec.26-T6N-R7W
Well: Kodak South FD 27-382HN
Wellbore: Wellbore #1
Design: Design #1
Lat: 40° 27' 8.690 N
Long: 104° 51' 49.709 W
GL: 4742.60
KB: WELL @ 4758.80usft (Original Well Elev)

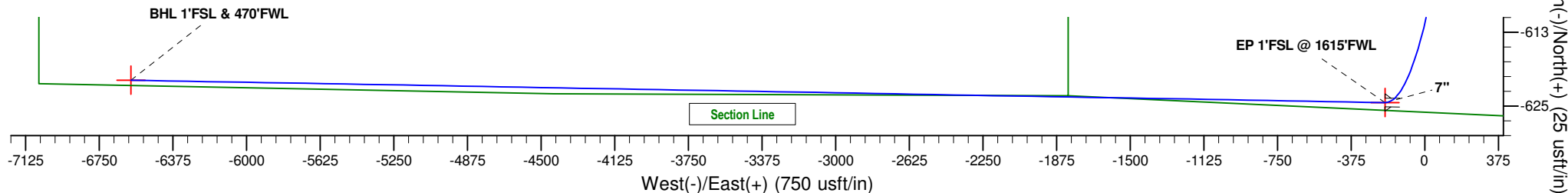


Azimuths to True North
Magnetic North: 8.55°
Magnetic Field
Strength: 52858.8snT
Dip Angle: 66.98°
Date: 03/17/2014
Model: IGRF2010

CASING DETAILS:
TVD MD Name Size
6912.80 7400.68 7" 7"



Vertical Section at 264.62° (1500 usft/in)



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
BHL 1'FSL & 470'FWL	6912.80	-620.60	-6588.24	40° 27' 2.549 N	104° 53' 14.932 W	
EP 1'FSL @ 1615'FWL	6912.80	-624.39	-202.60	40° 27' 2.520 N	104° 51' 52.330 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	
4840.00	0.00	0.00	4840.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
5807.99	29.04	135.49	5767.08	-171.23	168.32	3.00	135.49	-151.52	493.62 hold at 5807.99 MD
6301.61	29.04	135.49	6198.64	-342.10	336.29	0.00	0.00	-302.72	DLS 10.00 TFO 130.71
7400.68	90.00	270.03	6912.80	-624.39	-202.60	10.00	130.71	260.27	6385.64 hold at 7400.68 MD
13786.32	90.00	270.03	6912.80	-620.60	-6588.24	0.00	0.00	6617.41	TD at 13786.32



Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 27-382HN

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 27-382HN
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 27-382HN	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 27-382HN					
Well Position	+N/-S	-101.30 usft	Northing:	1,408,289.85 usft	Latitude:	40° 27' 8.690 N
	+E/-W	179.50 usft	Easting:	3,177,047.55 usft	Longitude:	104° 51' 49.709 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	03/17/14	8.55	66.98	52,859

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	264.62

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	
4,840.00	0.00	0.00	4,840.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,807.99	29.04	135.49	5,767.08	-171.23	168.32	3.00	3.00	0.00	135.49	
6,301.61	29.04	135.49	6,198.64	-342.10	336.29	0.00	0.00	0.00	0.00	
7,400.68	90.00	270.03	6,912.80	-624.39	-202.60	10.00	5.55	12.24	130.71	EP 1'FSL @ 1615'FW
13,786.32	90.00	270.03	6,912.80	-620.60	-6,588.24	0.00	0.00	0.00	0.00	BHL 1'FSL & 470'FWI

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 27-382HN
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 27-382HN	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
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,840.00	0.00	0.00	4,840.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 3.00									
4,900.00	1.80	135.49	4,899.99	-0.67	0.66	-0.59	3.00	3.00	0.00
5,000.00	4.80	135.49	4,999.81	-4.78	4.70	-4.23	3.00	3.00	0.00
5,100.00	7.80	135.49	5,099.20	-12.60	12.39	-11.15	3.00	3.00	0.00

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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 27-382HN	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	10.80	135.49	5,197.87	-24.12	23.71	-21.35	3.00	3.00	0.00
5,300.00	13.80	135.49	5,295.57	-39.32	38.65	-34.79	3.00	3.00	0.00
5,400.00	16.80	135.49	5,392.01	-58.13	57.14	-51.44	3.00	3.00	0.00
5,500.00	19.80	135.49	5,486.94	-80.52	79.15	-71.25	3.00	3.00	0.00
5,600.00	22.80	135.49	5,580.10	-106.42	104.61	-94.17	3.00	3.00	0.00
5,700.00	25.80	135.49	5,671.23	-135.77	133.46	-120.14	3.00	3.00	0.00
5,807.99	29.04	135.49	5,767.08	-171.23	168.32	-151.52	3.00	3.00	0.00
493.62 hold at 5807.99 MD									
5,900.00	29.04	135.49	5,847.52	-203.08	199.62	-179.70	0.00	0.00	0.00
6,000.00	29.04	135.49	5,934.95	-237.70	233.65	-210.33	0.00	0.00	0.00
6,100.00	29.04	135.49	6,022.37	-272.31	267.68	-240.96	0.00	0.00	0.00
6,200.00	29.04	135.49	6,109.80	-306.93	301.71	-271.60	0.00	0.00	0.00
6,301.61	29.04	135.49	6,198.64	-342.10	336.29	-302.72	0.00	0.00	0.00
DLS 10.00 TFO 130.71									
6,350.00	26.12	143.84	6,241.54	-359.09	350.81	-315.59	10.00	-6.03	17.26
6,400.00	23.72	154.28	6,286.91	-377.05	361.68	-324.72	10.00	-4.80	20.87
6,450.00	22.15	166.48	6,332.98	-395.28	368.25	-329.56	10.00	-3.14	24.42
6,500.00	21.59	179.85	6,379.41	-413.66	370.48	-330.05	10.00	-1.12	26.73
6,550.00	22.12	193.23	6,425.84	-432.03	368.35	-326.21	10.00	1.06	26.77
6,600.00	23.67	205.48	6,471.93	-450.27	361.87	-318.05	10.00	3.09	24.50
6,650.00	26.05	215.97	6,517.32	-468.22	351.10	-305.64	10.00	4.76	20.97
6,700.00	29.06	224.62	6,561.66	-485.76	336.11	-289.08	10.00	6.02	17.30
6,750.00	32.52	231.67	6,604.62	-502.75	317.03	-268.48	10.00	6.93	14.11
6,800.00	36.31	237.45	6,645.87	-519.06	293.99	-244.02	10.00	7.58	11.56
6,850.00	40.33	242.25	6,685.10	-534.57	267.18	-215.87	10.00	8.04	9.60
6,900.00	44.52	246.31	6,722.01	-549.15	236.79	-184.24	10.00	8.38	8.10
6,950.00	48.83	249.79	6,756.31	-562.71	203.05	-149.39	10.00	8.62	6.97
7,000.00	53.24	252.84	6,787.75	-575.13	166.23	-111.57	10.00	8.81	6.10
7,050.00	57.71	255.55	6,816.09	-586.32	126.61	-71.06	10.00	8.95	5.43
7,100.00	62.23	258.01	6,841.11	-596.19	84.48	-28.19	10.00	9.05	4.91
7,150.00	66.80	260.27	6,862.62	-604.68	40.16	16.72	10.00	9.13	4.52
7,200.00	71.39	262.38	6,880.45	-611.71	-6.00	63.34	10.00	9.19	4.22
7,250.00	76.01	264.38	6,894.48	-617.23	-53.65	111.30	10.00	9.24	4.00
7,300.00	80.65	266.30	6,904.60	-621.20	-102.44	160.25	10.00	9.27	3.84
7,350.00	85.29	268.17	6,910.72	-623.60	-151.99	209.80	10.00	9.29	3.74
7,400.68	90.00	270.03	6,912.80	-624.39	-202.60	260.27	10.00	9.30	3.69
6385.64 hold at 7400.68 MD									
7,500.00	90.00	270.03	6,912.80	-624.33	-301.93	359.15	0.00	0.00	0.00
7,600.00	90.00	270.03	6,912.80	-624.27	-401.93	458.70	0.00	0.00	0.00
7,700.00	90.00	270.03	6,912.80	-624.21	-501.93	558.25	0.00	0.00	0.00
7,800.00	90.00	270.03	6,912.80	-624.15	-601.93	657.81	0.00	0.00	0.00
7,900.00	90.00	270.03	6,912.80	-624.09	-701.93	757.36	0.00	0.00	0.00
8,000.00	90.00	270.03	6,912.80	-624.04	-801.93	856.92	0.00	0.00	0.00
8,100.00	90.00	270.03	6,912.80	-623.98	-901.93	956.47	0.00	0.00	0.00
8,200.00	90.00	270.03	6,912.80	-623.92	-1,001.93	1,056.02	0.00	0.00	0.00
8,300.00	90.00	270.03	6,912.80	-623.86	-1,101.93	1,155.58	0.00	0.00	0.00
8,400.00	90.00	270.03	6,912.80	-623.80	-1,201.93	1,255.13	0.00	0.00	0.00
8,500.00	90.00	270.03	6,912.80	-623.74	-1,301.93	1,354.68	0.00	0.00	0.00
8,600.00	90.00	270.03	6,912.80	-623.68	-1,401.93	1,454.24	0.00	0.00	0.00
8,700.00	90.00	270.03	6,912.80	-623.62	-1,501.93	1,553.79	0.00	0.00	0.00
8,800.00	90.00	270.03	6,912.80	-623.56	-1,601.93	1,653.34	0.00	0.00	0.00
8,900.00	90.00	270.03	6,912.80	-623.50	-1,701.93	1,752.90	0.00	0.00	0.00
9,000.00	90.00	270.03	6,912.80	-623.44	-1,801.93	1,852.45	0.00	0.00	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 27-382HN	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)
9,100.00	90.00	270.03	6,912.80	-623.38	-1,901.93	1,952.01	0.00	0.00	0.00
9,200.00	90.00	270.03	6,912.80	-623.32	-2,001.93	2,051.56	0.00	0.00	0.00
9,300.00	90.00	270.03	6,912.80	-623.26	-2,101.93	2,151.11	0.00	0.00	0.00
9,400.00	90.00	270.03	6,912.80	-623.20	-2,201.93	2,250.67	0.00	0.00	0.00
9,500.00	90.00	270.03	6,912.80	-623.14	-2,301.93	2,350.22	0.00	0.00	0.00
9,600.00	90.00	270.03	6,912.80	-623.08	-2,401.93	2,449.77	0.00	0.00	0.00
9,700.00	90.00	270.03	6,912.80	-623.03	-2,501.93	2,549.33	0.00	0.00	0.00
9,800.00	90.00	270.03	6,912.80	-622.97	-2,601.93	2,648.88	0.00	0.00	0.00
9,900.00	90.00	270.03	6,912.80	-622.91	-2,701.93	2,748.44	0.00	0.00	0.00
10,000.00	90.00	270.03	6,912.80	-622.85	-2,801.93	2,847.99	0.00	0.00	0.00
10,100.00	90.00	270.03	6,912.80	-622.79	-2,901.93	2,947.54	0.00	0.00	0.00
10,200.00	90.00	270.03	6,912.80	-622.73	-3,001.93	3,047.10	0.00	0.00	0.00
10,300.00	90.00	270.03	6,912.80	-622.67	-3,101.93	3,146.65	0.00	0.00	0.00
10,400.00	90.00	270.03	6,912.80	-622.61	-3,201.93	3,246.20	0.00	0.00	0.00
10,500.00	90.00	270.03	6,912.80	-622.55	-3,301.93	3,345.76	0.00	0.00	0.00
10,600.00	90.00	270.03	6,912.80	-622.49	-3,401.93	3,445.31	0.00	0.00	0.00
10,700.00	90.00	270.03	6,912.80	-622.43	-3,501.93	3,544.86	0.00	0.00	0.00
10,800.00	90.00	270.03	6,912.80	-622.37	-3,601.93	3,644.42	0.00	0.00	0.00
10,900.00	90.00	270.03	6,912.80	-622.31	-3,701.93	3,743.97	0.00	0.00	0.00
11,000.00	90.00	270.03	6,912.80	-622.25	-3,801.93	3,843.53	0.00	0.00	0.00
11,100.00	90.00	270.03	6,912.80	-622.19	-3,901.93	3,943.08	0.00	0.00	0.00
11,200.00	90.00	270.03	6,912.80	-622.13	-4,001.93	4,042.63	0.00	0.00	0.00
11,300.00	90.00	270.03	6,912.80	-622.07	-4,101.93	4,142.19	0.00	0.00	0.00
11,400.00	90.00	270.03	6,912.80	-622.02	-4,201.93	4,241.74	0.00	0.00	0.00
11,500.00	90.00	270.03	6,912.80	-621.96	-4,301.93	4,341.29	0.00	0.00	0.00
11,600.00	90.00	270.03	6,912.80	-621.90	-4,401.93	4,440.85	0.00	0.00	0.00
11,700.00	90.00	270.03	6,912.80	-621.84	-4,501.93	4,540.40	0.00	0.00	0.00
11,800.00	90.00	270.03	6,912.80	-621.78	-4,601.93	4,639.96	0.00	0.00	0.00
11,900.00	90.00	270.03	6,912.80	-621.72	-4,701.93	4,739.51	0.00	0.00	0.00
12,000.00	90.00	270.03	6,912.80	-621.66	-4,801.93	4,839.06	0.00	0.00	0.00
12,100.00	90.00	270.03	6,912.80	-621.60	-4,901.93	4,938.62	0.00	0.00	0.00
12,200.00	90.00	270.03	6,912.80	-621.54	-5,001.93	5,038.17	0.00	0.00	0.00
12,300.00	90.00	270.03	6,912.80	-621.48	-5,101.93	5,137.72	0.00	0.00	0.00
12,400.00	90.00	270.03	6,912.80	-621.42	-5,201.93	5,237.28	0.00	0.00	0.00
12,500.00	90.00	270.03	6,912.80	-621.36	-5,301.93	5,336.83	0.00	0.00	0.00
12,600.00	90.00	270.03	6,912.80	-621.30	-5,401.93	5,436.38	0.00	0.00	0.00
12,700.00	90.00	270.03	6,912.80	-621.24	-5,501.93	5,535.94	0.00	0.00	0.00
12,800.00	90.00	270.03	6,912.80	-621.18	-5,601.93	5,635.49	0.00	0.00	0.00
12,900.00	90.00	270.03	6,912.80	-621.12	-5,701.93	5,735.05	0.00	0.00	0.00
13,000.00	90.00	270.03	6,912.80	-621.07	-5,801.93	5,834.60	0.00	0.00	0.00
13,100.00	90.00	270.03	6,912.80	-621.01	-5,901.93	5,934.15	0.00	0.00	0.00
13,200.00	90.00	270.03	6,912.80	-620.95	-6,001.93	6,033.71	0.00	0.00	0.00
13,300.00	90.00	270.03	6,912.80	-620.89	-6,101.93	6,133.26	0.00	0.00	0.00
13,400.00	90.00	270.03	6,912.80	-620.83	-6,201.93	6,232.81	0.00	0.00	0.00
13,500.00	90.00	270.03	6,912.80	-620.77	-6,301.93	6,332.37	0.00	0.00	0.00
13,600.00	90.00	270.03	6,912.80	-620.71	-6,401.92	6,431.92	0.00	0.00	0.00
13,700.00	90.00	270.03	6,912.80	-620.65	-6,501.92	6,531.48	0.00	0.00	0.00
13,786.32	90.00	270.03	6,912.80	-620.60	-6,588.24	6,617.41	0.00	0.00	0.00
TD at 13786.32									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 27-382HN
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 27-382HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
EP 1'FSL @ 1615'FWL - plan hits target center - Point	0.00	0.00	6,912.80	-624.39	-202.60	1,407,664.02	3,176,849.43	40° 27' 2.520 N	104° 51' 52.330 W
BHL 1'FSL & 470'FWL - plan hits target center - Point	0.00	0.00	6,912.80	-620.60	-6,588.24	1,407,622.00	3,170,463.93	40° 27' 2.549 N	104° 53' 14.932 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
7,400.68	6,912.80	7"	7	7-1/2	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,840.00	4,840.00	0.00	0.00	Build 3.00
5,807.99	5,767.08	-171.23	168.32	493.62 hold at 5807.99 MD
6,301.61	6,198.64	-342.10	336.29	DLS 10.00 TFO 130.71
7,400.68	6,912.80	-624.39	-202.60	6385.64 hold at 7400.68 MD
13,786.32	6,912.80	-620.60	-6,588.24	TD at 13786.32



Precision
Directional Services

Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 27-382HN

Wellbore #1

Design #1

Anticollision Summary Report

18 March, 2014



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 27-382HN
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 27-382HN	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

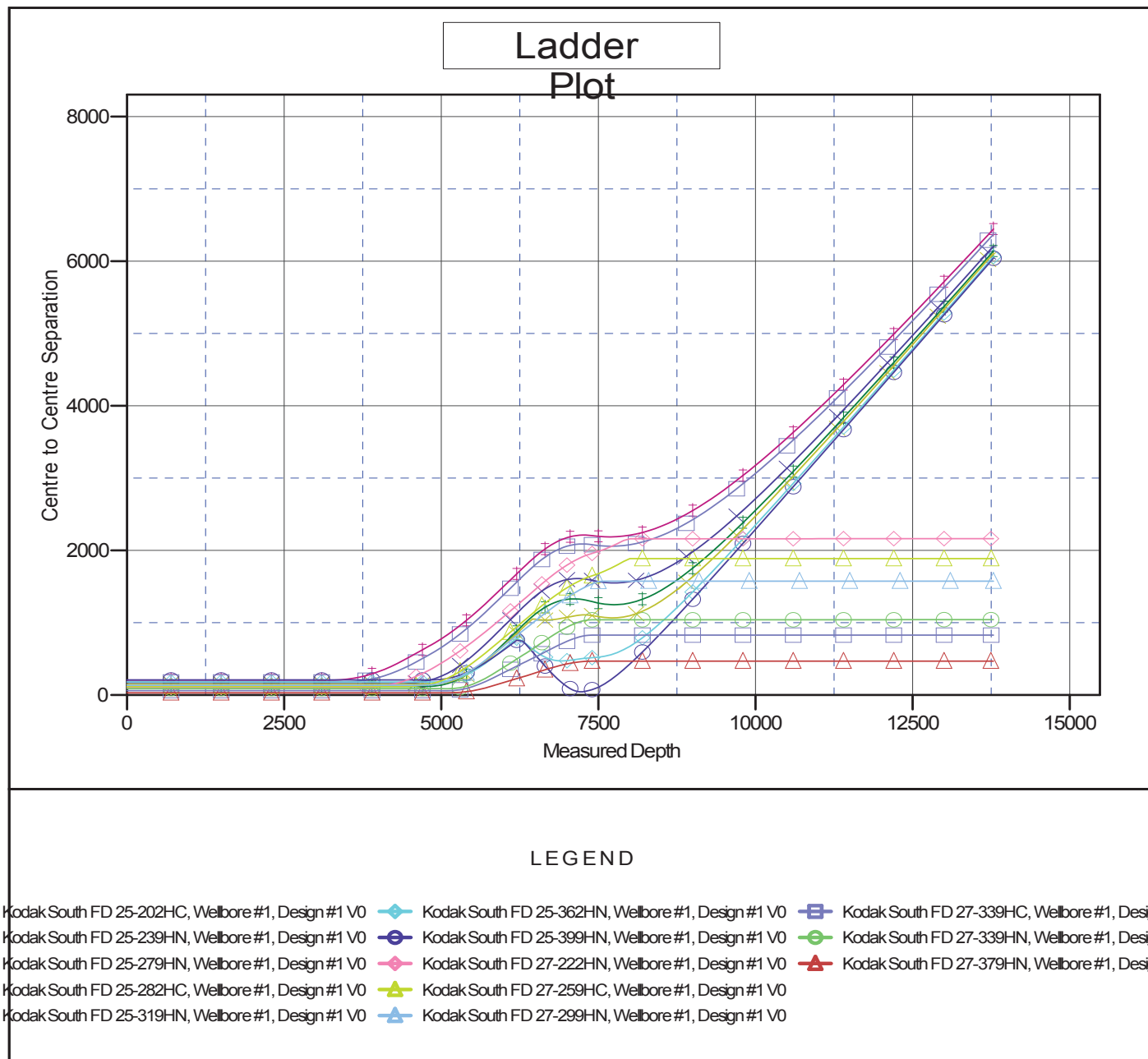
Survey Tool Program		Date	03/18/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,786.32	Design #1 (Wellbore #1)	MWD	Std MWD	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Sec.26-T6N-R7W						
Kodak South FD 25-202HC - Wellbore #1 - Design #1	3,200.00	3,200.00	206.10	189.43	12.363	CC, ES
Kodak South FD 25-202HC - Wellbore #1 - Design #1	3,400.00	3,387.10	211.62	193.93	11.967	SF
Kodak South FD 25-239HN - Wellbore #1 - Design #1	3,433.38	3,433.38	180.30	162.41	10.077	CC, ES
Kodak South FD 25-239HN - Wellbore #1 - Design #1	3,600.00	3,589.34	184.66	165.92	9.855	SF
Kodak South FD 25-279HN - Wellbore #1 - Design #1	4,333.34	4,333.34	156.35	133.74	6.917	CC, ES
Kodak South FD 25-279HN - Wellbore #1 - Design #1	4,400.00	4,396.36	156.93	133.99	6.840	SF
Kodak South FD 25-282HC - Wellbore #1 - Design #1	4,700.00	4,700.00	119.95	95.43	4.891	CC, ES
Kodak South FD 25-282HC - Wellbore #1 - Design #1	4,800.00	4,797.24	120.75	95.71	4.822	SF
Kodak South FD 25-319HN - Wellbore #1 - Design #1	4,840.00	4,840.00	150.01	124.75	5.939	CC, ES
Kodak South FD 25-319HN - Wellbore #1 - Design #1	4,900.00	4,896.86	151.19	125.63	5.916	SF
Kodak South FD 25-362HN - Wellbore #1 - Design #1	4,840.00	4,840.00	180.34	155.09	7.140	CC, ES
Kodak South FD 25-362HN - Wellbore #1 - Design #1	4,900.00	4,899.99	181.01	155.45	7.080	SF
Kodak South FD 25-399HN - Wellbore #1 - Design #1	7,222.55	7,357.99	44.91	6.29	1.163	Level 2, CC, ES
Kodak South FD 25-399HN - Wellbore #1 - Design #1	7,250.00	7,332.41	45.90	6.42	1.163	Level 2, SF
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,752.39	3,752.39	104.44	84.88	5.339	CC
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,800.00	3,798.72	104.62	84.81	5.282	ES, SF
Kodak South FD 27-259HC - Wellbore #1 - Design #1	4,344.52	4,344.52	116.13	93.46	5.124	CC
Kodak South FD 27-259HC - Wellbore #1 - Design #1	4,400.00	4,398.70	116.35	93.40	5.070	ES
Kodak South FD 27-259HC - Wellbore #1 - Design #1	4,500.00	4,495.25	118.92	95.46	5.068	SF
Kodak South FD 27-299HN - Wellbore #1 - Design #1	4,500.00	4,500.00	134.86	111.39	5.744	CC
Kodak South FD 27-299HN - Wellbore #1 - Design #1	4,600.00	4,599.10	135.09	111.10	5.629	ES
Kodak South FD 27-299HN - Wellbore #1 - Design #1	4,700.00	4,697.47	136.38	111.87	5.563	SF
Kodak South FD 27-339HC - Wellbore #1 - Design #1	5,068.94	5,074.98	59.34	32.97	2.250	CC, ES
Kodak South FD 27-339HC - Wellbore #1 - Design #1	5,100.00	5,106.63	59.47	32.97	2.244	SF
Kodak South FD 27-339HN - Wellbore #1 - Design #1	5,072.00	5,081.06	87.54	61.14	3.315	CC, ES
Kodak South FD 27-339HN - Wellbore #1 - Design #1	5,100.00	5,109.70	87.67	61.15	3.306	SF
Kodak South FD 27-379HN - Wellbore #1 - Design #1	4,840.00	4,840.00	30.33	5.08	1.201	Level 2, CC, ES
Kodak South FD 27-379HN - Wellbore #1 - Design #1	5,100.00	5,103.40	31.74	5.26	1.199	Level 2, SF

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 27-382HN
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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 27-382HN	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 27-382HN
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 27-382HN
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 27-382HN	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 27-382HN

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

