

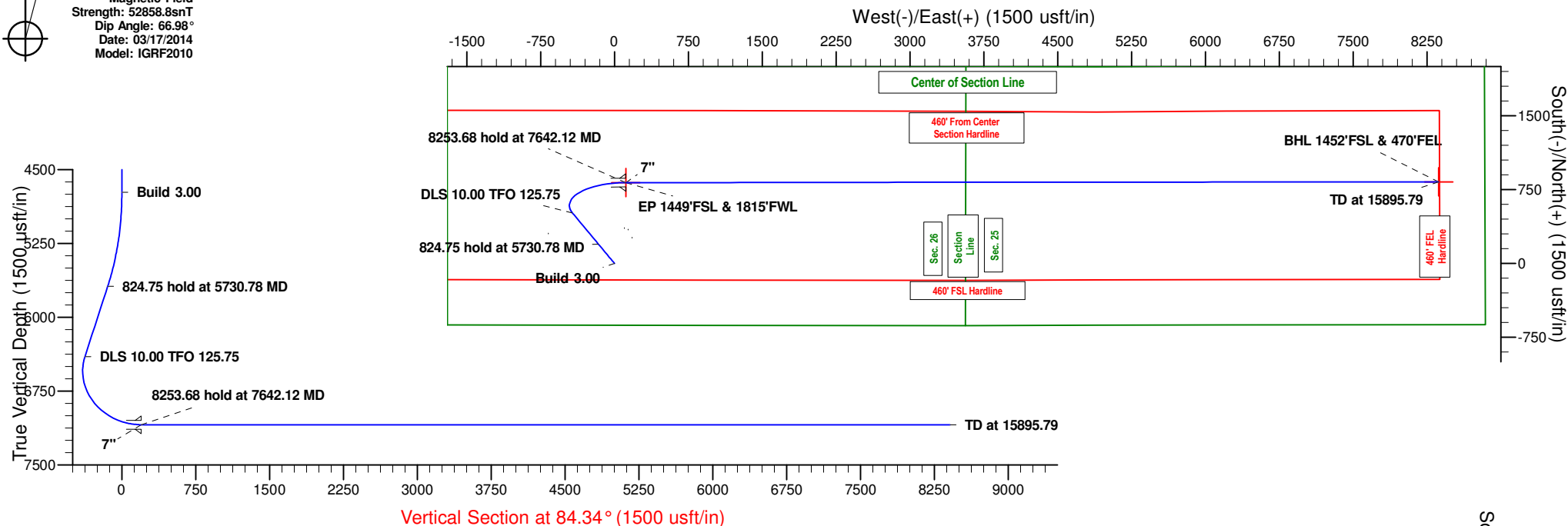


Project: Weld Co., CO
 Site: Sec.26-T6N-R7W
 Well: Kodak South FD 25-282HC
 Wellbore: Wellbore #1
 Design: Design #1
 Lat: 40° 27' 8.701 N
 Long: 104° 51' 51.260 W
 GL: 4742.60
 KB: WELL @ 4758.80usft (Original Well Elev)

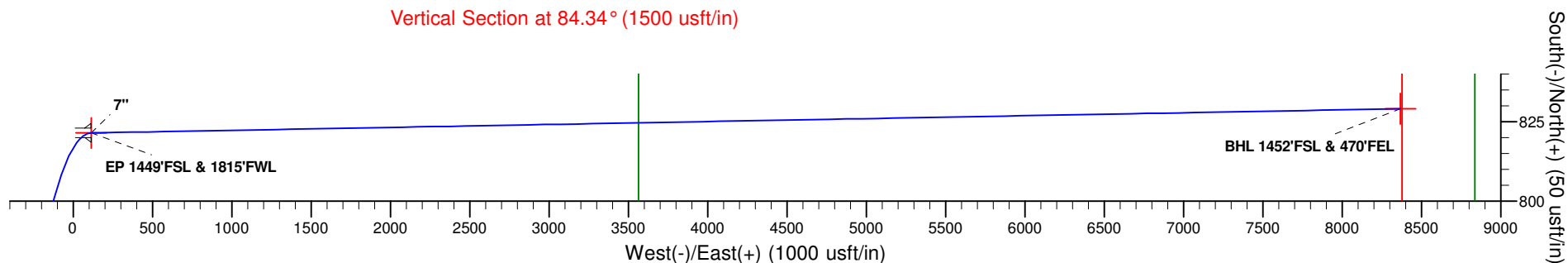


T M
 Azimuths to True North
 Magnetic North: 8.55°
 Magnetic Field
 Strength: 52858.8snT
 Dip Angle: 66.98°
 Date: 03/17/2014
 Model: IGRF2010

CASING DETAILS:
 Name Size
 MD 7" 7"
 TVD 7090.80 7642.12



Vertical Section at 84.34° (1500 usft/in)



		WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape		
BHL 1452'FSL & 470'FEL	7090.80	829.13	8368.05	40° 27' 16.880 N	104° 50' 3.008 W	Point		
EP 1449'FSL & 1815'FWL	7090.80	821.52	114.38	40° 27' 16.819 N	104° 51' 49.781 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	
4730.00	0.00	0.00	4730.00	0.00	0.00	0.00	0.00	0.00	Build 3.00
5730.78	30.02	320.20	5685.61	196.89	-164.04	3.00	320.20	-143.82	824.75 hold at 5730.78 MD
6555.53	30.02	320.20	6399.69	513.93	-428.19	0.00	0.00	-375.43	DLS 10.00 TFO 125.75
7642.12	90.00	89.95	7090.80	821.52	114.38	10.00	125.75	194.82	8253.68 hold at 7642.12 MD
15895.79	90.00	89.95	7090.80	829.13	8368.05	0.00	0.00	8409.03	TD at 15895.79



Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 25-282HC

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 25-282HC
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 25-282HC	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 25-282HC					
Well Position	+N/-S	-100.20 usft	Northing:	1,408,290.09 usft	Latitude:	40° 27' 8.701 N
	+E/-W	59.56 usft	Easting:	3,176,927.60 usft	Longitude:	104° 51' 51.260 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	84.34

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	
4,730.00	0.00	0.00	4,730.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,730.78	30.02	320.20	5,685.61	196.89	-164.04	3.00	3.00	0.00	320.20	
6,555.53	30.02	320.20	6,399.69	513.93	-428.19	0.00	0.00	0.00	0.00	
7,642.12	90.00	89.95	7,090.80	821.52	114.38	10.00	5.52	11.94	125.75	EP 1449'FSL & 1815'
15,895.79	90.00	89.95	7,090.80	829.13	8,368.05	0.00	0.00	0.00	0.00	BHL 1452'FSL & 470'

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-282HC
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 25-282HC	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
4,730.00	0.00	0.00	4,730.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 3.00									
4,800.00	2.10	320.20	4,799.98	0.99	-0.82	-0.72	3.00	3.00	0.00
4,900.00	5.10	320.20	4,899.78	5.81	-4.84	-4.24	3.00	3.00	0.00
5,000.00	8.10	320.20	4,999.10	14.64	-12.20	-10.69	3.00	3.00	0.00
5,100.00	11.10	320.20	5,097.69	27.45	-22.87	-20.05	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 25-282HC	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	14.10	320.20	5,195.27	44.21	-36.83	-32.29	3.00	3.00	0.00
5,300.00	17.10	320.20	5,291.58	64.87	-54.04	-47.38	3.00	3.00	0.00
5,400.00	20.10	320.20	5,386.34	89.37	-74.46	-65.28	3.00	3.00	0.00
5,500.00	23.10	320.20	5,479.31	117.65	-98.02	-85.94	3.00	3.00	0.00
5,600.00	26.10	320.20	5,570.22	149.63	-124.66	-109.30	3.00	3.00	0.00
5,700.00	29.10	320.20	5,658.83	185.22	-154.31	-135.30	3.00	3.00	0.00
5,730.78	30.02	320.20	5,685.61	196.89	-164.04	-143.82	3.00	3.00	0.00
824.75 hold at 5730.78 MD									
5,800.00	30.02	320.20	5,745.54	223.49	-186.20	-163.26	0.00	0.00	0.00
5,900.00	30.02	320.20	5,832.12	261.93	-218.23	-191.34	0.00	0.00	0.00
6,000.00	30.02	320.20	5,918.70	300.38	-250.26	-219.42	0.00	0.00	0.00
6,100.00	30.02	320.20	6,005.28	338.82	-282.29	-247.51	0.00	0.00	0.00
6,200.00	30.02	320.20	6,091.87	377.26	-314.32	-275.59	0.00	0.00	0.00
6,300.00	30.02	320.20	6,178.45	415.70	-346.34	-303.67	0.00	0.00	0.00
6,400.00	30.02	320.20	6,265.03	454.14	-378.37	-331.75	0.00	0.00	0.00
6,500.00	30.02	320.20	6,351.61	492.59	-410.40	-359.83	0.00	0.00	0.00
6,555.53	30.02	320.20	6,399.69	513.93	-428.19	-375.43	0.00	0.00	0.00
DLS 10.00 TFO 125.75									
6,600.00	27.64	328.00	6,438.66	531.24	-440.78	-386.25	10.00	-5.36	17.53
6,650.00	25.57	338.18	6,483.39	551.10	-450.94	-394.41	10.00	-4.14	20.36
6,700.00	24.30	349.67	6,528.75	571.25	-456.80	-398.25	10.00	-2.53	22.98
6,750.00	23.97	1.89	6,574.41	591.54	-458.32	-397.76	10.00	-0.67	24.44
6,800.00	24.61	13.96	6,620.01	611.80	-455.47	-392.92	10.00	1.27	24.15
6,850.00	26.14	25.09	6,665.21	631.89	-448.28	-383.79	10.00	3.07	22.24
6,900.00	28.43	34.80	6,709.67	651.66	-436.81	-370.43	10.00	4.58	19.42
6,950.00	31.31	43.02	6,753.04	670.94	-421.14	-352.94	10.00	5.76	16.45
7,000.00	34.63	49.90	6,794.99	689.60	-401.40	-331.45	10.00	6.64	13.76
7,050.00	38.27	55.67	6,835.22	707.50	-377.73	-306.13	10.00	7.29	11.54
7,100.00	42.16	60.56	6,873.40	724.49	-350.31	-277.17	10.00	7.77	9.77
7,150.00	46.22	64.75	6,909.25	740.45	-319.35	-244.79	10.00	8.12	8.38
7,200.00	50.41	68.39	6,942.50	755.25	-285.09	-209.24	10.00	8.39	7.29
7,250.00	54.71	71.62	6,972.90	768.79	-247.79	-170.78	10.00	8.59	6.45
7,300.00	59.08	74.51	7,000.20	780.96	-207.73	-129.72	10.00	8.74	5.79
7,350.00	63.51	77.16	7,024.21	791.67	-165.22	-86.36	10.00	8.86	5.28
7,400.00	67.99	79.60	7,044.74	800.83	-120.58	-41.03	10.00	8.95	4.89
7,450.00	72.50	81.89	7,061.64	808.39	-74.15	5.92	10.00	9.02	4.59
7,500.00	77.04	84.08	7,074.78	814.27	-26.28	54.13	10.00	9.07	4.36
7,550.00	81.59	86.18	7,084.05	818.43	22.66	103.25	10.00	9.11	4.21
7,600.00	86.15	88.23	7,089.39	820.85	72.30	152.88	10.00	9.13	4.11
7,642.12	90.00	89.95	7,090.80	821.52	114.38	194.82	10.00	9.14	4.07
8253.68 hold at 7642.12 MD									
7,700.00	90.00	89.95	7,090.80	821.57	172.26	252.43	0.00	0.00	0.00
7,800.00	90.00	89.95	7,090.80	821.66	272.26	351.95	0.00	0.00	0.00
7,900.00	90.00	89.95	7,090.80	821.75	372.26	451.47	0.00	0.00	0.00
8,000.00	90.00	89.95	7,090.80	821.85	472.26	550.99	0.00	0.00	0.00
8,100.00	90.00	89.95	7,090.80	821.94	572.26	650.51	0.00	0.00	0.00
8,200.00	90.00	89.95	7,090.80	822.03	672.26	750.04	0.00	0.00	0.00
8,300.00	90.00	89.95	7,090.80	822.12	772.26	849.56	0.00	0.00	0.00
8,400.00	90.00	89.95	7,090.80	822.21	872.26	949.08	0.00	0.00	0.00
8,500.00	90.00	89.95	7,090.80	822.31	972.26	1,048.60	0.00	0.00	0.00
8,600.00	90.00	89.95	7,090.80	822.40	1,072.26	1,148.12	0.00	0.00	0.00
8,700.00	90.00	89.95	7,090.80	822.49	1,172.26	1,247.64	0.00	0.00	0.00
8,800.00	90.00	89.95	7,090.80	822.58	1,272.26	1,347.17	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-282HC
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 25-282HC	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	89.95	7,090.80	822.68	1,372.26	1,446.69	0.00	0.00	0.00	
9,000.00	90.00	89.95	7,090.80	822.77	1,472.26	1,546.21	0.00	0.00	0.00	
9,100.00	90.00	89.95	7,090.80	822.86	1,572.26	1,645.73	0.00	0.00	0.00	
9,200.00	90.00	89.95	7,090.80	822.95	1,672.26	1,745.25	0.00	0.00	0.00	
9,300.00	90.00	89.95	7,090.80	823.04	1,772.26	1,844.78	0.00	0.00	0.00	
9,400.00	90.00	89.95	7,090.80	823.14	1,872.26	1,944.30	0.00	0.00	0.00	
9,500.00	90.00	89.95	7,090.80	823.23	1,972.26	2,043.82	0.00	0.00	0.00	
9,600.00	90.00	89.95	7,090.80	823.32	2,072.26	2,143.34	0.00	0.00	0.00	
9,700.00	90.00	89.95	7,090.80	823.41	2,172.26	2,242.86	0.00	0.00	0.00	
9,800.00	90.00	89.95	7,090.80	823.51	2,272.26	2,342.38	0.00	0.00	0.00	
9,900.00	90.00	89.95	7,090.80	823.60	2,372.26	2,441.91	0.00	0.00	0.00	
10,000.00	90.00	89.95	7,090.80	823.69	2,472.26	2,541.43	0.00	0.00	0.00	
10,100.00	90.00	89.95	7,090.80	823.78	2,572.26	2,640.95	0.00	0.00	0.00	
10,200.00	90.00	89.95	7,090.80	823.87	2,672.26	2,740.47	0.00	0.00	0.00	
10,300.00	90.00	89.95	7,090.80	823.97	2,772.26	2,839.99	0.00	0.00	0.00	
10,400.00	90.00	89.95	7,090.80	824.06	2,872.26	2,939.51	0.00	0.00	0.00	
10,500.00	90.00	89.95	7,090.80	824.15	2,972.26	3,039.04	0.00	0.00	0.00	
10,600.00	90.00	89.95	7,090.80	824.24	3,072.26	3,138.56	0.00	0.00	0.00	
10,700.00	90.00	89.95	7,090.80	824.34	3,172.26	3,238.08	0.00	0.00	0.00	
10,800.00	90.00	89.95	7,090.80	824.43	3,272.26	3,337.60	0.00	0.00	0.00	
10,900.00	90.00	89.95	7,090.80	824.52	3,372.26	3,437.12	0.00	0.00	0.00	
11,000.00	90.00	89.95	7,090.80	824.61	3,472.26	3,536.65	0.00	0.00	0.00	
11,100.00	90.00	89.95	7,090.80	824.70	3,572.26	3,636.17	0.00	0.00	0.00	
11,200.00	90.00	89.95	7,090.80	824.80	3,672.26	3,735.69	0.00	0.00	0.00	
11,300.00	90.00	89.95	7,090.80	824.89	3,772.26	3,835.21	0.00	0.00	0.00	
11,400.00	90.00	89.95	7,090.80	824.98	3,872.26	3,934.73	0.00	0.00	0.00	
11,500.00	90.00	89.95	7,090.80	825.07	3,972.26	4,034.25	0.00	0.00	0.00	
11,600.00	90.00	89.95	7,090.80	825.17	4,072.26	4,133.78	0.00	0.00	0.00	
11,700.00	90.00	89.95	7,090.80	825.26	4,172.26	4,233.30	0.00	0.00	0.00	
11,800.00	90.00	89.95	7,090.80	825.35	4,272.26	4,332.82	0.00	0.00	0.00	
11,900.00	90.00	89.95	7,090.80	825.44	4,372.26	4,432.34	0.00	0.00	0.00	
12,000.00	90.00	89.95	7,090.80	825.53	4,472.26	4,531.86	0.00	0.00	0.00	
12,100.00	90.00	89.95	7,090.80	825.63	4,572.26	4,631.39	0.00	0.00	0.00	
12,200.00	90.00	89.95	7,090.80	825.72	4,672.26	4,730.91	0.00	0.00	0.00	
12,300.00	90.00	89.95	7,090.80	825.81	4,772.26	4,830.43	0.00	0.00	0.00	
12,400.00	90.00	89.95	7,090.80	825.90	4,872.26	4,929.95	0.00	0.00	0.00	
12,500.00	90.00	89.95	7,090.80	826.00	4,972.26	5,029.47	0.00	0.00	0.00	
12,600.00	90.00	89.95	7,090.80	826.09	5,072.26	5,128.99	0.00	0.00	0.00	
12,700.00	90.00	89.95	7,090.80	826.18	5,172.26	5,228.52	0.00	0.00	0.00	
12,800.00	90.00	89.95	7,090.80	826.27	5,272.26	5,328.04	0.00	0.00	0.00	
12,900.00	90.00	89.95	7,090.80	826.36	5,372.26	5,427.56	0.00	0.00	0.00	
13,000.00	90.00	89.95	7,090.80	826.46	5,472.26	5,527.08	0.00	0.00	0.00	
13,100.00	90.00	89.95	7,090.80	826.55	5,572.26	5,626.60	0.00	0.00	0.00	
13,200.00	90.00	89.95	7,090.80	826.64	5,672.26	5,726.12	0.00	0.00	0.00	
13,300.00	90.00	89.95	7,090.80	826.73	5,772.26	5,825.65	0.00	0.00	0.00	
13,400.00	90.00	89.95	7,090.80	826.83	5,872.26	5,925.17	0.00	0.00	0.00	
13,500.00	90.00	89.95	7,090.80	826.92	5,972.26	6,024.69	0.00	0.00	0.00	
13,600.00	90.00	89.95	7,090.80	827.01	6,072.26	6,124.21	0.00	0.00	0.00	
13,700.00	90.00	89.95	7,090.80	827.10	6,172.26	6,223.73	0.00	0.00	0.00	
13,800.00	90.00	89.95	7,090.80	827.19	6,272.26	6,323.26	0.00	0.00	0.00	
13,900.00	90.00	89.95	7,090.80	827.29	6,372.26	6,422.78	0.00	0.00	0.00	
14,000.00	90.00	89.95	7,090.80	827.38	6,472.26	6,522.30	0.00	0.00	0.00	
14,100.00	90.00	89.95	7,090.80	827.47	6,572.26	6,621.82	0.00	0.00	0.00	
14,200.00	90.00	89.95	7,090.80	827.56	6,672.26	6,721.34	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Kodak South FD 25-282HC
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 25-282HC	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	89.95	7,090.80	827.66	6,772.26	6,820.86	0.00	0.00	0.00	
14,400.00	90.00	89.95	7,090.80	827.75	6,872.26	6,920.39	0.00	0.00	0.00	
14,500.00	90.00	89.95	7,090.80	827.84	6,972.26	7,019.91	0.00	0.00	0.00	
14,600.00	90.00	89.95	7,090.80	827.93	7,072.26	7,119.43	0.00	0.00	0.00	
14,700.00	90.00	89.95	7,090.80	828.02	7,172.26	7,218.95	0.00	0.00	0.00	
14,800.00	90.00	89.95	7,090.80	828.12	7,272.26	7,318.47	0.00	0.00	0.00	
14,900.00	90.00	89.95	7,090.80	828.21	7,372.26	7,417.99	0.00	0.00	0.00	
15,000.00	90.00	89.95	7,090.80	828.30	7,472.26	7,517.52	0.00	0.00	0.00	
15,100.00	90.00	89.95	7,090.80	828.39	7,572.26	7,617.04	0.00	0.00	0.00	
15,200.00	90.00	89.95	7,090.80	828.49	7,672.26	7,716.56	0.00	0.00	0.00	
15,300.00	90.00	89.95	7,090.80	828.58	7,772.26	7,816.08	0.00	0.00	0.00	
15,400.00	90.00	89.95	7,090.80	828.67	7,872.26	7,915.60	0.00	0.00	0.00	
15,500.00	90.00	89.95	7,090.80	828.76	7,972.26	8,015.13	0.00	0.00	0.00	
15,600.00	90.00	89.95	7,090.80	828.85	8,072.26	8,114.65	0.00	0.00	0.00	
15,700.00	90.00	89.95	7,090.80	828.95	8,172.26	8,214.17	0.00	0.00	0.00	
15,800.00	90.00	89.95	7,090.80	829.04	8,272.26	8,313.69	0.00	0.00	0.00	
15,895.79	90.00	89.95	7,090.80	829.13	8,368.05	8,409.03	0.00	0.00	0.00	
TD at 15895.79										

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 1449'FSL & 1815'FW	0.00	0.00	7,090.80	821.52	114.38	1,409,112.40	3,177,036.08	40° 27' 16.819 N	104° 51' 49.781 W	
- plan hits target center										
- Point										
BHL 1452'FSL & 470'FE	0.00	0.00	7,090.80	829.13	8,368.05	1,409,179.19	3,185,289.49	40° 27' 16.880 N	104° 50' 3.008 W	
- plan hits target center										
- Point										

Casing Points							Casing Diameter (")	Hole Diameter (")
Measured Depth (usft)	Vertical Depth (usft)	Name						
7,642.12	7,090.80	7"					7	7-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,730.00	4,730.00	0.00	0.00	Build 3.00	
5,730.78	5,685.61	196.89	-164.04	824.75 hold at 5730.78 MD	
6,555.53	6,399.69	513.93	-428.19	DLS 10.00 TFO 125.75	
7,642.12	7,090.80	821.52	114.38	8253.68 hold at 7642.12 MD	
15,895.79	7,090.80	829.13	8,368.05	TD at 15895.79	



Precision
Directional Services

Great Western Oil & Gas

Weld Co., CO

Sec.26-T6N-R7W

Kodak South FD 25-282HC

Wellbore #1

Design #1

Anticollision Summary Report

18 March, 2014



Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 25-282HC
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 25-282HC	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

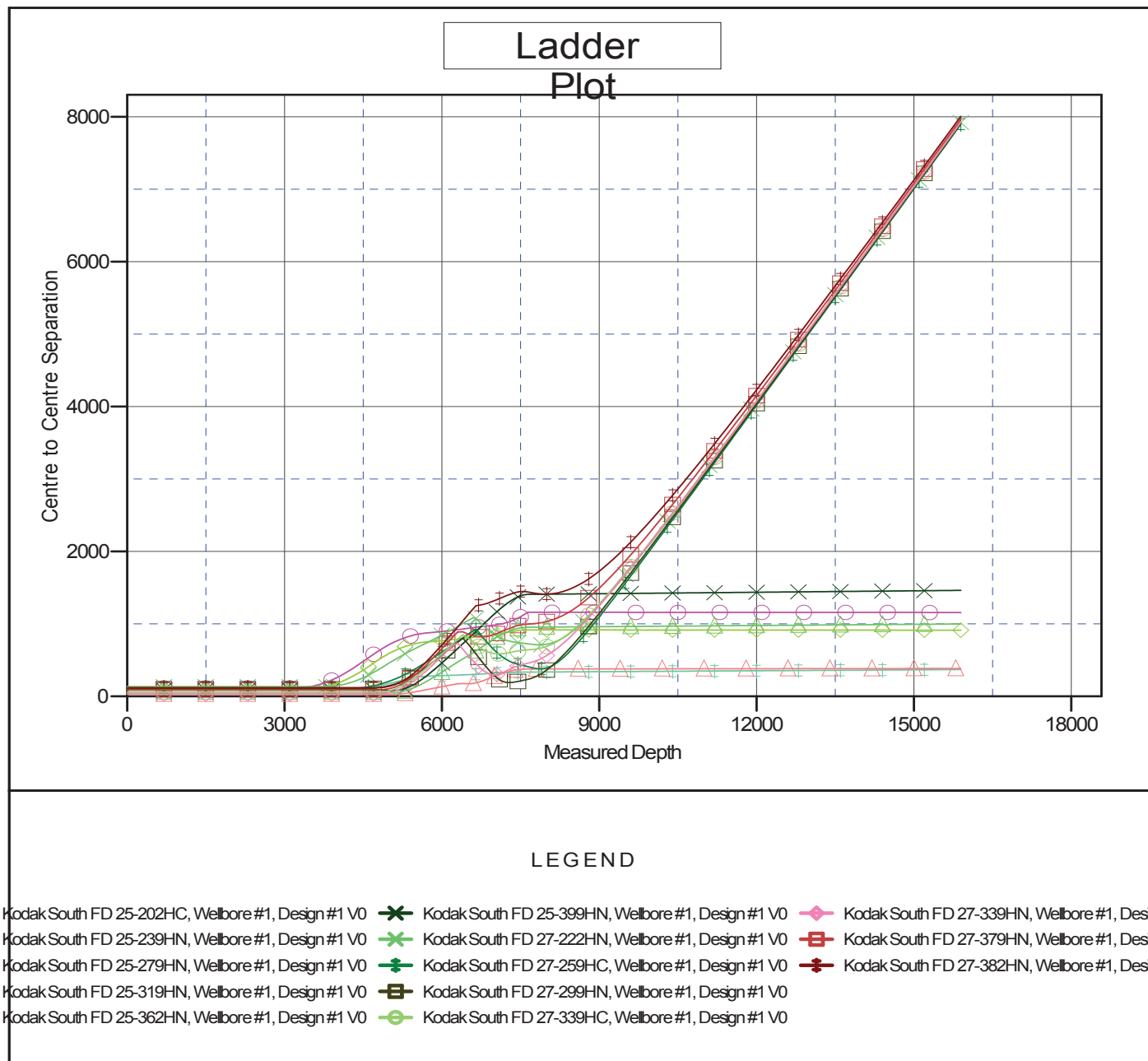
Survey Tool Program		Date	03/18/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,895.79	Design #1 (Wellbore #1)	MWD	Std MWD	

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	116.55	99.88	6.992	CC, ES
Kodak South FD 25-202HC - Wellbore #1 - Design #1	15,895.79	16,162.29	1,157.76	963.84	5.970	SF
Kodak South FD 25-239HN - Wellbore #1 - Design #1	3,433.33	3,433.33	104.36	86.47	5.833	CC, ES
Kodak South FD 25-239HN - Wellbore #1 - Design #1	15,895.79	15,909.81	913.50	721.81	4.765	SF
Kodak South FD 25-279HN - Wellbore #1 - Design #1	4,333.40	4,333.40	100.19	77.58	4.432	CC, ES
Kodak South FD 25-279HN - Wellbore #1 - Design #1	15,895.79	15,753.85	370.01	192.73	2.087	SF
Kodak South FD 25-319HN - Wellbore #1 - Design #1	4,978.74	4,977.20	25.37	-0.61	0.977	Level 1, CC
Kodak South FD 25-319HN - Wellbore #1 - Design #1	5,000.00	4,998.26	25.45	-0.65	0.975	Level 1, ES, SF
Kodak South FD 25-362HN - Wellbore #1 - Design #1	5,064.09	5,060.48	48.66	22.22	1.840	CC, ES, SF
Kodak South FD 25-399HN - Wellbore #1 - Design #1	5,053.84	5,047.21	79.51	53.16	3.018	CC, ES, SF
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,752.38	3,752.38	134.16	114.60	6.858	CC
Kodak South FD 27-222HN - Wellbore #1 - Design #1	3,800.00	3,798.18	134.36	114.56	6.784	ES, SF
Kodak South FD 27-259HC - Wellbore #1 - Design #1	4,344.44	4,344.44	116.48	93.82	5.140	CC, ES
Kodak South FD 27-259HC - Wellbore #1 - Design #1	4,400.00	4,397.71	116.87	93.92	5.093	SF
Kodak South FD 27-299HN - Wellbore #1 - Design #1	4,500.00	4,500.00	104.84	81.36	4.466	CC, ES
Kodak South FD 27-299HN - Wellbore #1 - Design #1	7,250.00	7,633.57	191.11	147.56	4.389	SF
Kodak South FD 27-339HC - Wellbore #1 - Design #1	4,730.00	4,730.00	59.56	34.87	2.413	CC, ES
Kodak South FD 27-339HC - Wellbore #1 - Design #1	4,800.00	4,799.98	60.38	35.34	2.411	SF
Kodak South FD 27-339HN - Wellbore #1 - Design #1	4,730.00	4,730.00	30.06	5.37	1.218	Level 2, CC, ES, SF
Kodak South FD 27-379HN - Wellbore #1 - Design #1	4,730.00	4,730.00	89.62	64.94	3.631	CC, ES
Kodak South FD 27-379HN - Wellbore #1 - Design #1	4,800.00	4,799.98	90.46	65.41	3.612	SF
Kodak South FD 27-382HN - Wellbore #1 - Design #1	4,730.00	4,730.00	119.95	95.27	4.860	CC, ES
Kodak South FD 27-382HN - Wellbore #1 - Design #1	4,800.00	4,799.98	120.78	95.74	4.823	SF

Company:	Great Western Oil & Gas	Local Co-ordinate Reference:	Well Kodak South FD 25-282HC
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 25-282HC	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 25-282HC
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 25-282HC
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 25-282HC	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 25-282HC

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

