

SYSDRILL
Closest Approach Summary Report
Wellbore: Kodak South FD 25-241HC (PWB)
Wellpath: Kodak South FD 25-241HC (PWP#1)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Scan limit is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore

Name	Kodak South FD 25-241HC (PWB)
Created	1-Dec-2016
Last Revised	1-Dec-2016

Well

Name	Kodak South FD 25-241HC
Government ID	
Last Revised	1-Dec-2016

Slot

Name	Slot W05 - Kodak South FD 25-241HC
Grid Northing	1408384.523
Grid Easting	3176987.315
Latitude	N40 27 9.6300
Longitude	W104 51 50.4792
North	-2308.300
East	-55.660

Installation

Name	Kodak South
Easting	3177026.413
Northing	1410693.078
Map Name	<unknown>
North Alignment	True

Field

Name	Wattenburg
Easting	#####
Northing	#####
Map Name	<unknown>
North Alignment	Grid

Clearance Summary

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
Kodak South FD 25-280HXX	Kodak South I	Slot W06 - Ko	Kodak South	7.400	4225.530	16010.380	0.010	4225.530	1.000	4225.530
GWOG - MERSHON 26-33	GWOG - MEFZ -	GWOG - M	Kodak North	8.700	9340.280	9340.280	-15.450	9340.280	0.360	9340.280
Kodak South FD 25-241HN	Kodak South I	Slot W04 - Ko	Kodak South	15.320	3871.390	16010.360	8.510	3871.390	2.250	3871.390
Kodak South FD 25-280HN	Kodak South I	Slot W07 - Ko	Kodak South	29.510	4177.000	16010.380	22.200	4183.070	2.170	16010.380
Kodak South FD 25-240HN	Kodak South I	Slot W03 - Ko	Kodak South	30.250	3549.000	16009.480	23.950	3549.000	2.740	16010.380
NAUT - LONG 3	NAUT - LONGZ -	NAUT - LC	Kodak North	34.140	13316.100	13316.100	-23.770	13320.210	0.590	13320.210
GWOG - GREAT WESTERN 26-23	GWOG - GREZ -	GWOG - C	Kodak North	42.280	8079.900	8079.900	24.440	8087.270	2.270	8100.000
Kodak South FD 25-320HN	Kodak South I	Slot W08 - Ko	Kodak South	44.450	4177.000	16010.380	37.140	4183.070	4.130	16010.380
Kodak South FD 25-240HXX	Kodak South I	Slot W02 - Ko	Kodak South	45.550	3177.000	16008.900	39.850	3177.000	4.360	16010.380
SNYD - HALL 25-33	SNYD - HALL Z -	SNYD - H	Kodak North	56.660	14620.550	14620.550	-11.870	14620.550	0.830	14620.550
Kodak South FD 25-320HC	Kodak South I	Slot W09 - Ko	Kodak South	59.750	4177.000	16010.380	52.440	4183.070	4.420	16010.380
Kodak South FD 25-201HC	Kodak South I	Slot W01 - Ko	Kodak South	60.850	3190.000	16008.870	55.130	3190.000	4.740	16010.380
GWOG - GREAT WESTERN 26-53	GWOG - GREZ -	GWOG - C	Kodak North	70.050	6297.590	6297.590	55.320	6300.000	4.750	6300.000
Kodak South FD 25-321HXX	Kodak South I	Slot W10 - Ko	Kodak South	75.050	4177.000	16010.380	67.740	4183.070	5.540	16010.380
GWOG - MERSHON 26-43	GWOG - MEFZ -	GWOG - M	Kodak North	81.250	10681.420	10681.420	40.670	10695.540	1.960	10700.000
Kodak South FD 25-321HN	Kodak South I	Slot W11 - Ko	Kodak South	88.890	4177.000	16010.380	81.580	4183.070	6.380	16010.380
Kodak South FD 28-259HN	Kodak South I	Slot E04 - Ko	Kodak South	97.360	7444.510	7444.510	82.280	7444.510	6.440	7431.100
Kodak South FD 28-262HN	Kodak South I	Slot E05 - Ko	Kodak South	100.470	4177.000	7171.800	93.150	4183.070	7.590	7185.040
Kodak South FD 28-262HC	Kodak South I	Slot E06 - Ko	Kodak South	101.630	4177.000	7326.500	94.310	4183.070	13.800	4248.690
Kodak South FD 28-302HXX	Kodak South I	Slot E07 - Ko	Kodak South	104.120	4177.000	7006.570	96.810	4183.070	14.150	4232.280
Kodak South FD 25-360HC	Kodak South I	Slot W12 - Ko	Kodak South	104.200	4177.000	16010.380	96.890	4183.070	8.160	16010.380
Kodak South FD 28-259HXX	Kodak South I	Slot E03 - Ko	Kodak South	104.710	3748.000	7372.830	98.090	3748.000	15.660	3838.580
Kodak South FD 28-302HN	Kodak South I	Slot E08 - Ko	Kodak South	109.550	4177.000	7049.410	102.240	4183.070	14.900	4232.280
Kodak South FD 28-222HC	Kodak South I	Slot E02 - Ko	Kodak South	109.860	3903.000	7944.780	102.990	3903.000	15.860	3969.820
BCHP - SLOAN 3	BCHP - SLOAZ -	BCHP - SL	Kodak North	110.150	16010.380	16010.380	32.090	16010.380	1.410	16010.380
Kodak South FD 28-339HN	Kodak South I	Slot E09 - Ko	Kodak South	116.740	4177.000	6857.630	109.430	4183.070	15.870	4232.280
Kodak South FD 28-222HN	Kodak South I	Slot E01 - Ko	Kodak South	116.890	3580.000	7787.780	110.540	3580.000	18.240	3658.140
Kodak South FD 25-360HN	Kodak South I	Slot W13 - Ko	Kodak South	119.500	4177.000	16010.380	112.190	4183.070	9.000	16010.380
Kodak South FD 28-339HC	Kodak South I	Slot E10 - Ko	Kodak South	124.740	4177.000	6976.860	117.430	4183.070	16.960	4232.280
Kodak South FD 28-342HXX	Kodak South I	Slot E11 - Ko	Kodak South	134.250	4177.000	6706.970	126.950	4183.070	18.250	4232.280
Kodak South FD 25-361HN	Kodak South I	Slot W14 - Ko	Kodak South	134.430	4177.000	16010.380	127.120	4183.070	10.760	16010.380
Kodak South FD 28-342HN	Kodak South I	Slot E12 - Ko	Kodak South	144.960	4177.000	6748.610	137.650	4183.070	19.700	4232.280
Kodak South FD 25-361HXX	Kodak South I	Slot W15 - Ko	Kodak South	149.740	4177.000	16010.380	142.430	4183.070	11.830	16010.380

Kodak South FD 28-379HC	Kodak South I Slot E13 - Koc Kodak South	156.420	4177.000	7927.140	149.110	4183.070	21.250	4248.690
Kodak South FD 25-400HC	Kodak South I Slot W16 - Koc Kodak South	165.040	4177.000	16010.380	157.730	4183.070	12.250	16010.380
Kodak South FD 28-379HN	Kodak South I Slot E14 - Koc Kodak South	167.710	4177.000	7904.570	160.410	4183.070	22.770	4248.690
Kodak South FD 25-400HN	Kodak South I Slot W17 - Koc Kodak South	179.250	4177.000	16010.380	171.930	4183.070	13.020	16010.380
Kodak South FD 28-381HNX	Kodak South I Slot E15 - Koc Kodak South	180.300	4177.000	7994.660	173.000	4183.070	24.470	4248.690
Kodak South FD 27-381HN	Kodak South I Slot E16 - Koc Kodak South	192.350	4177.000	8123.420	185.040	4183.070	26.090	4265.090
GWOG - GREAT WESTERN 25-23	GWOG - GREZ - GWOG - C Kodak North	195.610	13345.410	13345.410	133.950	13353.020	3.160	13369.420
GWOG - GREAT WESTERN 26-24	GWOG - GREZ - GWOG - C Kodak North	226.280	4183.070	7900.000	217.890	4215.880	26.110	4527.560
GWOG - GREAT WESTERN 26-13	GWOG - GREZ - GWOG - C Kodak North	578.380	6873.360	6873.360	562.530	6889.760	35.460	6988.190
GWOG - GREAT WESTERN 25-22-18	GWOG - GREZ - GWOG - C Kodak North	642.740	13966.700	13966.700	570.940	13966.700	8.950	13976.380
GWOG - GREAT WESTERN 25-53	GWOG - GREZ - GWOG - C Kodak North	681.680	12658.280	12658.280	629.330	12658.280	13.020	12647.640
GWOG - GREAT WESTERN 25-22-13	GWOG - GREZ - GWOG - C Kodak North	696.100	13938.900	13938.900	624.490	13959.970	9.580	14025.590
GWOG - GREAT WESTERN 25-12-15	GWOG - GREZ - GWOG - C Kodak North	706.080	11345.320	11345.320	661.410	11351.710	15.410	11466.540
Kodak North FD 28-199HN	Kodak North F Slot S03 - Koc Kodak North	718.580	7726.380	7726.380	704.980	7709.970	44.480	8500.000
GWOG - GREAT WESTERN 26-14	GWOG - GREZ - GWOG - C Kodak North	739.030	3239.470	4992.120	730.850	3239.470	66.250	5626.640
GWOG - GREAT WESTERN 25-22-14	GWOG - GREZ - GWOG - C Kodak North	752.620	12647.640	12647.640	700.850	12664.040	14.140	12778.870
Kodak North FD 28-162HC	Kodak North F Slot S04 - Koc Kodak North	1010.990	7926.370	7926.370	997.240	7972.440	53.080	8841.860
GWOG - GREAT WESTERN 26-22	GWOG - GREZ - GWOG - C Kodak North	1150.620	8078.620	8078.620	1136.490	8087.270	61.370	8825.460
GWOG - WARDE 1-26	GWOG - WAIZ - GWOG - V Kodak North	1159.100	9516.480	9516.480	1134.820	9516.480	47.750	9516.480
Kodak North FD 30-162HN	Kodak North F Slot S01 - Koc Kodak North	1182.570	16010.380	16010.380	1034.800	16010.380	8.000	16010.380
SNYD - HALL 25-34	SNYD - HALL Z - SNYD - H Kodak North	1200.410	14846.770	14846.770	1129.790	14846.770	17.000	14846.770
Kodak North FD 28-162HN	Kodak North F Slot S06 - Koc Kodak North	1203.600	7747.360	7747.360	1190.030	7742.780	61.570	9005.910
Kodak North FD 30-122HN	Kodak North F Slot S02 - Koc Kodak North	1208.870	7710.060	7710.060	1195.710	7710.060	70.840	16010.380
NOBL - DUGGAN 1	NOBL - DUGCZ - NOBL - DI Kodak North	1292.850	12009.870	12009.870	1247.310	12009.870	28.380	12024.280
GWOG - GREAT WESTERN 25-24	GWOG - GREZ - GWOG - C Kodak North	1299.720	13284.100	13284.100	1238.040	13300.000	20.880	13418.640
GWOG - GREAT WESTERN 26-44	GWOG - GREZ - GWOG - C Kodak North	1315.660	10735.630	10735.630	1276.270	10735.630	33.390	10761.150
GWOG - GREAT WESTERN 25-22	GWOG - GREZ - GWOG - C Kodak North	1327.210	13265.170	13265.170	1267.070	13287.400	21.070	13566.270
GWOG - GREAT WESTERN 25-12	GWOG - GREZ - GWOG - C Kodak North	1329.740	11931.290	11931.290	1277.520	11942.260	25.050	12122.700
GWOG - GREAT WESTERN 26-42	GWOG - GREZ - GWOG - C Kodak North	1371.770	10663.280	10663.280	1336.320	10679.130	35.940	11072.830
NAUT - LONG 2	NAUT - LONG Z - NAUT - LC Kodak North	1404.890	14644.450	14644.450	1335.850	14665.350	19.840	14878.610
BCHP - SLOAN 2	BCHP - SLOAZ - BCHP - SI Kodak North	1428.260	15946.640	15946.640	1347.850	15961.290	17.610	16010.380
Kodak North FD 28-122HC	Kodak North F Slot S05 - Koc Kodak North	1506.130	8326.030	8326.030	1489.760	8349.740	66.990	9251.970
PDC - ETTER 30-32	PDC - ETTER Z - PDC - ETI Kodak North	1518.910	16010.380	16010.380	1492.790	16010.380	58.160	16010.380
GWOG - GREAT WESTERN 26-12	GWOG - GREZ - GWOG - C Kodak North	1544.890	7316.270	7316.270	1526.090	7316.270	81.080	7627.950
Noble Kodak 35-21	Noble Kodak CZ - Noble Ko Broe	1583.650	4177.000	8087.270	1575.290	4183.070	166.960	9465.220
PDC - ETTER 30-33	PDC - ETTER Z - PDC - ETI Kodak North	1603.610	16010.380	16010.380	1540.490	16010.380	25.410	16010.380
Kodak North FD 28-119HN	Kodak North F Slot N06 - Koc Kodak North	1677.600	8131.110	8131.110	1663.430	8152.890	79.680	9366.800
Kodak North FD 30-119HC	Kodak North F Slot N04 - Koc Kodak North	1732.700	7480.310	7480.310	1719.160	7477.900	13.080	16010.380
GWOG - GREAT WESTERN 27-43	GWOG - GREZ - GWOG - C Kodak North	1738.180	6889.760	6889.760	1720.780	6889.760	96.350	7135.830
GWOG - GREAT WESTERN 26-32	GWOG - GREZ - GWOG - C Kodak North	1806.630	7670.240	7670.240	1789.240	7677.170	79.130	8858.270
GWOG 35-52	GWOG 35-52 ZZ - GWOG C Broe	1893.420	4177.000	4177.000	1885.050	4183.070	211.780	9662.070
GWOG - GREAT WESTERN 25-24-23	GWOG - GREZ - GWOG - C Kodak North	1950.030	13971.700	13971.700	1876.910	13992.780	26.000	14304.460
GWOG - GREAT WESTERN 35-31	GWOG - GREZ - GWOG - C Kodak North	1950.750	1907.200	9468.890	1946.380	1984.910	98.110	10416.670
GWOG - 35-31	GWOG - 35-3 ZZ - GWOG C Broe	1950.750	1919.290	9468.860	1946.370	1984.910	98.120	10416.670
Broe FD 34-022HN	Broe FD 34-0: Broe FD 34-0: Broe	1950.950	6285.360	6285.360	1916.530	6300.000	52.600	6800.000
PDC - LAFARGE WEST 30-35	PDC - LAFAR Z - PDC - LAF Kodak North	1952.820	16010.380	16010.380	1906.710	16010.380	42.360	16010.380
GWOG - GREAT WESTERN 25-24-24	GWOG - GREZ - GWOG - C Kodak North	1967.920	12664.040	12664.040	1913.950	12680.450	35.580	13041.340
GWOG - GREAT WESTERN 25-52	GWOG - GREZ - GWOG - C Kodak North	1971.050	12647.640	12647.640	1918.550	12680.450	34.360	13287.400
Kodak North FD 30-039HN	Kodak North F Slot N01 - Koc Kodak North	1976.620	7660.760	7660.760	1963.300	7660.760	59.460	16010.380
GWOG - GREAT WESTERN 27-44	GWOG - GREZ - GWOG - C Kodak North	1979.600	6715.010	6715.010	1959.830	6725.720	98.080	6900.000
Kodak North FD 28-082HC	Kodak North F Slot N05 - Koc Kodak North	1983.450	8236.390	8236.390	1968.110	8251.310	80.720	9809.710
Noble Kodak 35-22	Noble Kodak CZ - Noble Ko Broe	1992.270	4177.000	4177.000	1983.900	4183.070	177.040	6800.000
Kodak North FD 28-002HN	Kodak North F Slot S09 - Koc Kodak North	2002.390	8128.570	8128.570	1987.500	8152.890	82.100	9662.070
GWOG - GREAT WESTERN 35-41	GWOG - GREZ - GWOG - C Kodak North	2005.340	771.400	10738.870	2003.130	771.400	60.330	11450.130
GWOG 35-41	GWOG 35-41 ZZ - GWOG C Broe	2005.340	777.400	10738.820	2003.130	777.400	60.340	11450.130
GWOG - O-I 25-11-6	GWOG - O-I 2Z - GWOG - C Kodak North	2009.480	11302.960	11302.960	1968.620	11335.300	43.780	12122.700
GWOG - GREAT WESTERN 26-51	GWOG - GREZ - GWOG - C Kodak North	2019.150	10211.510	10211.510	1988.870	10236.220	56.010	11089.240
GWOG - GREAT WESTERN 26-52	GWOG - GREZ - GWOG - C Kodak North	2036.280	7627.950	7627.950	2017.890	7627.950	87.960	8874.670
GWOG - GREAT WESTERN 27-54	GWOG - GREZ - GWOG - C Kodak North	2044.380	6824.150	6824.150	2027.940	6824.150	119.880	7086.610
GWOG - DETTERER FD 25-6D	GWOG - DET Z - GWOG - C Kodak North	2049.790	13950.330	13950.330	1986.040	13976.380	30.250	14501.310
Kodak North FD 30-079HN	Kodak North F Slot N03 - Koc Kodak North	2060.820	7447.510	7447.510	2047.410	7444.470	15.740	16010.380
GWOG - DETTERER FD 25-7D	GWOG - DET Z - GWOG - C Kodak North	2066.280	15173.880	15173.880	1988.010	15190.290	25.940	15469.160
BCHP - MILLER 2	BCHP - MILLER Z - BCHP - MI Kodak North	2096.500	16010.380	16010.380	2047.050	16010.380	42.390	16010.380
Broe FD 34-059HN	Broe FD 34-0: Broe FD 34-0: Broe	2114.850	6121.180	6121.180	2081.200	6135.170	57.640	6758.530
Kodak North FD 27-062HN	Kodak North F Slot S07 - Koc Kodak North	2220.570	3653.500	8254.600	2214.110	3658.140	84.410	10121.390
Kodak North FD 28-042HC	Kodak North F Slot S08 - Koc Kodak North	2222.180	1001.500	7932.810	2221.210	1.500	2282.910	1.500
Broe FD 34-059HC	Broe FD 34-0: Broe FD 34-0: Broe	2280.880	6233.600	6233.600	2246.810	6250.000	61.540	6800.000
Kodak North FD 30-039HC	Kodak North F Slot N02 - Koc Kodak North	2309.900	3500.000	16010.380	2303.680	3500.000	20.030	15977.690
GWOG - GREAT WESTERN 27-42	GWOG - GREZ - GWOG - C Kodak North	2335.750	7037.400	7037.400	2321.950	7037.400	149.830	7627.950
GWOG - GREAT WESTERN 26-31	GWOG - GREZ - GWOG - C Kodak North	2513.830	9473.920	9473.920	2486.770	9500.000	74.340	10728.350
GWOG - GREAT WESTERN 26-41	GWOG - GREZ - GWOG - C Kodak North	2547.770	10650.010	10650.010	2513.730	10679.130	62.230	11761.810
Broe FD 34-062HN	Broe FD 34-0: Broe FD 34-0: Broe	2563.460	5954.720	10753.990	2531.420	5971.130	72.020	6774.930
GWOG - GREAT WESTERN 27-34	GWOG - GREZ - GWOG - C Kodak North	2641.820	25.600	6758.530	2640.770	65.620	166.690	7021.000
GWOG - O-I 25-11	GWOG - O-I 2Z - GWOG - C Kodak North	2653.220	12000.000	12000.000	2603.780	12024.280	49.730	12778.870
GWOG - GREAT WESTERN 27-33	GWOG - GREZ - GWOG - C Kodak North	2657.870	24.600	6856.960	2656.800	147.640	166.610	7283.460
NAUT - LONG-ALTEX 1	NAUT - LONG Z - NAUT - LC Kodak North	2659.100	9350.390	9350.390	2636.000	9383.200	82.270	10892.390
Broe FD 34-102HN	Broe FD 34-1: Broe FD 34-1: Broe	2669.020	5827.080	9978.300	2637.100	5856.300	74.450	6758.530
GWOG - GREAT WESTERN 26-21	GWOG - GREZ - GWOG - C Kodak North	2687.700	8048.320	8048.320	2672.710	8070.870	107.600	10088.580
CDM Windsor 35-1	CDM Windsor ZZ - CDM WII Broe	2688.140	4177.000	8123.350	2679.800	4183.070	188.440	10761.150
BCHP - DAKOTA 1	BCHP - DAKCZ - BCHP - DI Kodak North	2714.910	14640.050	14640.050	2645.940	14681.760	37.160	15321.520
KMG Kodak 34-11	KMG Kodak 3 ZZ - KMG Koc Broe	2716.780	4183.070	4183.070	2708.400	4200.000	188.240	6900.000
GWOG - O-I 25-21	GWOG - O-I 2Z - GWOG - C Kodak North	2719.910	13293.100	13293.100	2648.600	13320.210	36.820	13828.740
GWOG - GREAT WESTERN 26-11	GWOG - GREZ - GWOG - C Kodak North	2783.810	7447.510	7447.510	2761.520	7447.510	114.660	8743.440
BCHP - SLOAN 1	BCHP - SLOAZ - BCHP - SI Kodak North	2808.280	15944.880	15944.880	2727.850	15977.690	34.660	16010.380
GWOG - DETTERER FD 25-2D	GWOG - DET Z - GWOG - C Kodak North	2834.400	14763.780	14763.780	2762.760	14796.590	37.620	15436.350

Broe FD 34-102HC	Broe FD 34-11	Broe FD 34-11	2835.580	5938.320	9973.750	2803.240	5954.720	78.150	6800.000
CDM Windsor 35-5	CDM Windsor ZZ - CDM W	Broe	2900.090	4177.000	4177.000	2891.710	4183.070	264.270	6800.000
BRKS - TURNER 1-25	BRKS - TURNZ - BRKS - T	Kodak North	2945.360	16010.380	16010.380	2899.280	16010.380	63.910	16010.380
TIGS - LONG 1	TIGS - LONG Z - TIGS - L	O Kodak North	2996.010	14653.380	14653.380	2959.340	14653.380	81.340	14862.200
Broe FD 34-139HN	Broe FD 34-11	Broe FD 34-11	3087.530	5700.000	10752.040	3056.040	5725.070	83.380	12122.700
NOBL - TIGGES 30-34	NOBL - TIGGIZ - NOBL - T	Kodak North	3141.010	16010.380	16010.380	3100.350	16010.380	77.240	16010.380
GWOG - GREAT WESTERN 27-51	GWOG - GREZ - GWOG - C	Kodak North	3181.320	7070.210	7070.210	3167.770	7070.210	197.430	8234.910
NOBL - TIGGES 30-31	NOBL - TIGGIZ - NOBL - T	Kodak North	3187.030	16010.380	16010.380	3168.090	16010.380	168.320	16010.380
Noble Christiansen 35-15	Noble Christia ZZ - Noble Ch	Broe	3252.660	4232.280	10137.800	3241.410	4248.690	98.540	10974.410
BCHP - MILLER 1	BCHP - MILLZ - BCHP - M	Kodak North	3304.690	16010.380	16010.380	3237.570	16010.380	49.230	16010.380
GWOG - GREAT WESTERN 27-41	GWOG - GREZ - GWOG - C	Kodak North	3326.710	7201.440	7201.440	3310.090	7201.440	161.550	8923.880
Broe FD 34-142HC	Broe FD 34-11	Broe FD 34-11	3326.930	5692.260	11154.860	3295.450	5708.660	85.360	12221.130
GWOG - HCW FD 24-36D	GWOG - HCVZ - GWOG - F	Kodak North	3338.520	13870.000	13870.000	3276.250	13910.760	48.970	14911.420
Broe FD 34-142HN	Broe FD 34-11	Broe FD 34-11	3339.560	5484.400	11162.000	3308.890	5511.810	87.680	12319.550
GWOG - HCW FD 24-35D	GWOG - HCVZ - GWOG - F	Kodak North	3352.500	12614.830	12614.830	3296.230	12647.640	53.410	13746.720
GWOG - O-I 23-44-22	GWOG - O-I 2Z - GWOG - C	Kodak North	3374.260	9945.940	9945.940	3340.110	9990.160	77.090	11630.580
GWOG - DETTERER FD 24-37D	GWOG - DETZ - GWOG - C	Kodak North	3390.390	15327.000	15327.000	3309.730	15370.730	39.700	16010.380
GWOG - GREAT WESTERN 27-32	GWOG - GREZ - GWOG - C	Kodak North	3405.000	6988.190	6988.190	3386.450	6988.190	172.130	7500.000
Noble Christiansen 35-13	Noble Christia ZZ - Noble Ch	Broe	3437.540	4177.000	9503.560	3429.180	4183.070	136.850	11532.150
KMG Kodak 34-12	KMG Kodak 3 ZZ - KMG Kox	Broe	3603.800	5052.490	5052.490	3593.900	5101.710	219.540	6988.190
Broe FD 34-222HN	Broe FD 34-21	Broe FD 34-21	3686.800	3842.200	10828.340	3680.050	3842.200	108.240	13336.610
Broe FD 34-179HN	Broe FD 34-11	Broe FD 34-11	3694.790	4177.000	10990.810	3687.510	4183.070	91.170	12516.400
Broe FD 34-259HC	Broe FD 34-21	Broe FD 34-21	3696.010	1033.460	11181.620	3693.410	1033.460	100.070	13549.870
Noble Christiansen 1-35	Noble Christia ZZ - Noble Ch	Broe	3699.980	4177.000	10191.070	3691.520	4183.070	113.600	11745.410
Broe FD 34-182HC	Broe FD 34-11	Broe FD 34-11	3704.770	4177.000	10787.330	3697.480	4183.070	94.640	13172.570
Broe FD 34-259HN	Broe FD 34-21	Broe FD 34-21	3704.810	3174.200	10930.100	3699.140	3182.410	109.600	13713.910
Broe FD 34-262HN	Broe FD 34-21	Broe FD 34-21	3714.320	2854.330	10962.920	3709.170	2854.330	110.940	13861.550
Broe FD 34-219HN	Broe FD 34-21	Broe FD 34-21	3714.770	4177.000	10820.080	3707.490	4183.070	96.520	13254.590
Broe FD 34-299HC	Broe FD 34-21	Broe FD 34-21	3723.870	2526.250	11000.000	3719.250	2526.250	112.060	14041.990
Broe FD 34-302HN	Broe FD 34-31	Broe FD 34-31	3733.230	2284.200	11040.040	3728.990	2284.200	111.300	14173.230
KMG Kodak 34-14	KMG Kodak 3 ZZ - KMG Kox	Broe	3733.560	4177.000	9503.560	3725.190	4183.070	272.840	6900.000
Broe FD 34-339HN	Broe FD 34-31	Broe FD 34-31	3742.860	1723.200	11109.600	3739.520	1738.850	111.520	14517.720
Broe FD 34-342HC	Broe FD 34-31	Broe FD 34-31	3752.520	1591.210	11122.050	3749.340	1500.000	112.100	14583.330
Broe FD 34-342HN	Broe FD 34-31	Broe FD 34-31	3761.530	1268.200	11171.260	3758.600	1230.200	111.680	14780.180
Broe FD 34-379HN	Broe FD 34-31	Broe FD 34-31	3771.030	815.200	11220.470	3768.770	820.210	111.810	15042.650
Broe FD 34-382HC	Broe FD 34-31	Broe FD 34-31	3780.800	565.200	11241.480	3778.950	565.200	111.990	15173.880
Broe FD 34-382HN	Broe FD 34-31	Broe FD 34-31	3790.610	330.200	11274.340	3789.130	330.200	112.020	15370.730
NAUT - SHAEF 1	NAUT - SHAEZ - NAUT - S	Kodak North	3820.380	10687.130	10687.130	3794.350	10728.350	109.660	12746.060
GWOG - GREAT WESTERN 23-44	GWOG - GREZ - GWOG - C	Kodak North	4010.310	10646.330	10646.330	3975.340	10695.540	82.220	13024.930
NOBL - HARRINGTON 2-30	NOBL - HARFZ - NOBL - H	Kodak North	4032.540	16010.380	16010.380	3980.120	16010.380	76.930	16010.380
GWOG - GREAT WESTERN 27-31	GWOG - GREZ - GWOG - C	Kodak North	4162.310	7070.210	7070.210	4148.390	7070.210	234.920	9071.520
TIGS - TIGGES BOB 1-30	TIGS - TIGGEZ - TIGS - T	Kodak North	4255.250	16010.380	16010.380	4220.310	16010.380	121.790	16010.380
GWOG - GREAT WESTERN 27-22	GWOG - GREZ - GWOG - C	Kodak North	4320.850	6922.570	6922.570	4305.560	6922.570	256.170	7529.530
Noble Christiansen 35-42	Noble Christia ZZ - Noble Ch	Broe	4334.300	4177.000	9604.090	4325.940	4183.070	148.680	12450.790
KMG Kodak 34-13	KMG Kodak 3 ZZ - KMG Kox	Broe	4362.460	4183.070	4183.070	4354.090	4183.070	288.730	6938.980
GWOG - GREAT WESTERN 27-23	GWOG - GREZ - GWOG - C	Kodak North	4392.190	6900.000	6900.000	4370.720	6906.170	198.740	7217.850
CONT - EASTMAN KODAK 1	CONT - EASTZ - CONT - E	Kodak North	4410.820	6774.930	6774.930	4393.990	6774.930	249.380	7152.230
TIGS - HARRINGTON 1-30	TIGS - HARRIZ - TIGS - H	Kodak North	4497.150	16010.380	16010.380	4471.010	16010.380	172.040	16010.380
GWOG - GREAT WESTERN 27-24	GWOG - GREZ - GWOG - C	Kodak North	4516.720	6824.150	6824.150	4496.530	6824.150	213.520	7200.000
GWOG Kodak 34-41	GWOG Kodak ZZ - GWOG F	Broe	4593.220	35.600	1525.590	4592.090	131.230	324.340	12942.910
GWOG Kodak 34-45	GWOG Kodak ZZ - GWOG F	Broe	4621.390	35.600	35.600	4619.990	410.100	332.410	13746.720
GWOG Kodak 34-44	GWOG Kodak ZZ - GWOG F	Broe	4666.400	21.600	21.600	4664.620	147.640	243.740	13369.420
GWOG - HCW FD 24-20D	GWOG - HCVZ - GWOG - F	Kodak North	4711.300	13914.500	13914.500	4647.550	13976.380	62.700	15862.860
GWOG - DETTERER FD 24-21D	GWOG - DETZ - GWOG - C	Kodak North	4718.990	15305.120	15305.120	4637.900	15370.730	53.560	16010.380
NOBL - FIRESTIEN 30-13	NOBL - FIREZ - NOBL - F	Kodak North	4759.440	16010.380	16010.380	4732.150	16010.380	174.430	16010.380
Noble Christiansen 35-41	Noble Christia ZZ - Noble Ch	Broe	4847.050	49.210	10892.390	4845.060	1427.170	115.820	13254.590
Noble Christiansen 35-45	Noble Christia ZZ - Noble Ch	Broe	4857.640	1082.680	9993.180	4854.950	1100.000	148.360	13566.270
NOBL - FIRESTIEN 30-45	NOBL - FIREZ - NOBL - F	Kodak North	4956.820	16010.380	16010.380	4928.020	16010.380	172.080	16010.380
KMG Kodak 34-21	KMG Kodak 3 ZZ - KMG Kox	Broe	5000.630	6704.880	6704.880	4984.080	6709.320	286.970	7100.000
GWOG - GREAT WESTERN 27-53	GWOG - GREZ - GWOG - C	Kodak North	5013.970	6824.150	6824.150	4997.110	6824.150	277.990	7300.000
KMG Kodak 34-24	KMG Kodak 3 ZZ - KMG Kox	Broe	5107.690	4183.070	4183.070	5099.290	4248.690	310.110	7000.000
KMG Kodak 34-42	KMG Kodak 3 ZZ - KMG Kox	Broe	5124.910	4177.000	4177.000	5116.550	4183.070	358.110	6900.000
GWOG - GREAT WESTERN 27-21	GWOG - GREZ - GWOG - C	Kodak North	5139.960	0.600	7004.590	5138.650	360.890	216.070	8366.140
GWOG - GREAT WESTERN 27-52	GWOG - GREZ - GWOG - C	Kodak North	5175.140	545.590	6955.380	5173.080	836.610	280.260	7841.210
GWOG - GREAT WESTERN 27-11	GWOG - GREZ - GWOG - C	Kodak North	5192.810	217.580	6464.530	5191.500	217.580	282.540	8841.860
NOBL - FIRESTIEN 30-12	NOBL - FIREZ - NOBL - F	Kodak North	5197.930	16010.380	16010.380	5159.940	16010.380	136.800	16010.380
GWOG - GREAT WESTERN 27-12	GWOG - GREZ - GWOG - C	Kodak North	5212.520	0.600	6922.570	5211.230	328.080	323.060	7600.000
BRKS - FIRESTEIN 1-30	BRKS - FIREZ - BRKS - F	Kodak North	5388.490	16010.380	16010.380	5355.480	16010.380	163.240	16010.380
NOBL - FIRESTIEN 30-4-21	NOBL - FIREZ - NOBL - F	Kodak North	5543.410	16010.380	16010.380	5504.420	16010.380	142.180	16010.380
GWOG - GREAT WESTERN 27-13	GWOG - GREZ - GWOG - C	Kodak North	5638.600	6856.960	6856.960	5618.450	6856.960	264.900	7349.080
GWOG - GREAT WESTERN 27-14	GWOG - GREZ - GWOG - C	Kodak North	5725.810	6800.000	6800.000	5708.380	6800.000	309.050	7234.250
Colton Kodak 2	Colton Kodak ZZ - Colton K	Broe	5785.150	4177.000	4177.000	5777.670	4183.070	348.340	14944.230
NOBL - FIRESTIEN 30-44	NOBL - FIREZ - NOBL - F	Kodak North	5847.370	16010.380	16010.380	5814.910	16010.380	180.100	16010.380
KMG Kodak 34-22	KMG Kodak 3 ZZ - KMG Kox	Broe	5941.550	6742.130	6742.130	5924.830	6758.530	336.750	7185.040
Noble Kodak 34-25	Noble Kodak 3 ZZ - Noble K	Broe	5979.510	6300.000	6300.000	5964.600	6400.000	343.350	7100.000
BCHP - POUDRE NORTH 2-30	BCHP - POULZ - BCHP - P	Kodak North	6006.890	16010.380	16010.380	5977.680	16010.380	205.580	16010.380
EXTR - KODAK 5	EXTR - KODAZ - EXTR - K	Kodak North	6040.940	6922.570	6922.570	6026.510	6938.980	348.730	8858.270
KMG Kodak 34-31	KMG Kodak 3 ZZ - KMG Kox	Broe	6110.480	4183.070	4183.070	6102.120	4183.070	393.850	7000.000
EXTR - KODAK 13	EXTR - KODAZ - EXTR - K	Kodak North	6154.450	6824.150	6824.150	6134.280	6824.150	278.330	7463.910
EXTR - KODAK 12	EXTR - KODAZ - EXTR - K	Kodak North	6184.280	6856.960	6856.960	6166.190	6856.960	308.200	7545.930
EXTR - KODAK 11	EXTR - KODAZ - EXTR - K	Kodak North	6247.670	6856.960	6856.960	6230.230	6856.960	320.610	7562.340
EXTR - KODAK 10	EXTR - KODAZ - EXTR - K	Kodak North	6258.960	6840.550	6840.550	6239.330	6840.550	293.550	7500.000
EXTR - KODAK 8	EXTR - KODAZ - EXTR - K	Kodak North	6377.820	6856.960	6856.960	6363.640	6856.960	381.020	7759.190
EXTR - KODAK 2	EXTR - KODAZ - EXTR - K	Kodak North	6416.220	6906.170	6906.170	6400.050	6906.170	309.760	9432.410
KMG Kodak 34-34	KMG Kodak 3 ZZ - KMG Kox	Broe	6423.070	4177.000	4177.000	6414.710	4183.070	416.900	14845.800

EXTR - KODAK 9	EXTR - KODAZ - EXTR - KC Kodak North	6441.430	6856.960	6856.960	6425.840	6873.360	363.890	7700.000
KMG Kodak 34-23	KMG Kodak 3 ZZ - KMG Kox Broe	6463.450	5807.090	5807.090	6450.670	5921.920	372.180	7100.000
EXTR - KODAK 6	EXTR - KODAZ - EXTR - KC Kodak North	6478.410	6840.550	6840.550	6464.680	6840.550	402.350	8054.460
BCHP - NORTH Poudre 1	BCHP - NORTH - BCHP - NC Kodak North	6480.770	16010.380	16010.380	6447.320	16010.380	193.780	16010.380
EXTR - KODAK 4	EXTR - KODAZ - EXTR - KC Kodak North	6602.080	6856.960	6856.960	6588.480	6856.960	382.420	9317.590
KMG Kodak 34-43	KMG Kodak 3 ZZ - KMG Kox Broe	6618.450	4177.000	4177.000	6610.090	4183.070	373.690	15059.060
EXTR - KODAK 3	EXTR - KODAZ - EXTR - KC Kodak North	6632.960	360.890	6873.360	6631.410	360.890	363.950	9727.690
KMG Kodak 34-35	KMG Kodak 3 ZZ - KMG Kox Broe	6737.760	4183.070	4183.070	6729.220	4183.070	425.840	7000.000
EXT - CENTER POINT 8	EXT - CENTE Z - EXT - CEN Kodak South	7015.200	6824.150	6824.150	6987.320	6824.150	241.880	7200.000
EXT - CENTER POINT 6	EXT - CENTE Z - EXT - CEN Kodak South	7042.670	6824.150	6824.150	7014.270	6824.150	238.460	7200.000
EXT - CENTER POINT 4	EXT - CENTE Z - EXT - CEN Kodak South	7103.600	6807.740	6807.740	7074.260	6807.740	232.930	7200.000
EXT - CENTER POINT 3	EXT - CENTE Z - EXT - CEN Kodak South	7127.700	6800.000	6800.000	7095.740	6807.740	215.860	7168.640
EXT - CENTER POINT 1	EXT - CENTE Z - EXT - CEN Kodak South	7191.800	6807.740	6807.740	7158.070	6807.740	207.010	7152.230
KMG Kodak 34-32	KMG Kodak 3 ZZ - KMG Kox Broe	7239.070	4183.070	4183.070	7230.690	4215.880	431.540	7100.000
EXT - CENTER POINT 2	EXT - CENTE Z - EXT - CEN Kodak South	7274.620	6791.340	6791.340	7239.360	6791.340	200.650	7119.420
KMG Kodak 34-33	KMG Kodak 3 ZZ - KMG Kox Broe	8033.930	4183.070	4183.070	8025.560	4183.070	494.780	7000.000
KMG - Poudre 10-28	KMG - Poudiz - KMG - PO Kodak South	8307.430	6856.960	6856.960	8285.870	6856.960	364.580	7414.700
KMG - Poudre 15-28	KMG - Poudiz - KMG - PO Kodak South	8361.130	6824.150	6824.150	8343.280	6824.150	428.650	7349.080
KMG - Poudre 36-28	KMG - Poudiz - KMG - PO Kodak South	8988.310	6800.000	6800.000	8967.320	6800.000	406.370	7300.000
KMG - Poudre 23-28	KMG - Poudiz - KMG - PO Kodak South	9000.430	6840.550	6840.550	8983.460	6840.550	485.850	7480.310
KMG - Poudre 25-28	KMG - Poudiz - KMG - PO Kodak South	9033.560	6873.360	6873.360	9007.990	6873.360	337.350	7431.100
KMG - Poudre 11-28	KMG - Poudiz - KMG - PO Kodak South	9561.030	6856.960	6856.960	9540.230	6856.960	429.330	7500.000
KMG - Poudre 14-28	KMG - Poudiz - KMG - PO Kodak South	9610.920	6824.150	6824.150	9593.910	6824.150	513.240	7400.000
KMG - Poudre 19-28	KMG - Poudiz - KMG - PO Kodak South	9939.070	32.810	6840.550	9938.060	32.810	537.400	7500.000
EXT - CENTER POINT 7	EXT - CENTE Z - EXT - CEN Kodak South	10778.980	1038.100	6704.880	10776.370	1049.870	679.320	7414.700
EXT - CENTER POINT 5	EXT - CENTE Z - EXT - CEN Kodak South	10804.150	839.100	6250.000	10801.860	853.020	713.530	7463.910
EXT - CENTER POINT 2	EXT - CENTE Z - EXT - CEN Kodak South	10826.610	40.100	40.100				

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4762.6ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 81.720 degrees
Prepared by Great Western Operating Company
Date Printed: