

SYSDRILL
Closest Approach + Clearance Factor Report
Wellbore: Ocho LD 17-374HN (PWB)
Wellpath: Ocho LD 17-374HN (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	Ocho LD 17-374HN (PWB)		
Created	1-Sep-2016		
Last Revised	1-Sep-2016		
Well			
Name	Ocho LD 17-374HN		
Government ID			
Last Revised	1-Sep-2016		
Slot			
Name	Slot W10 - Ocho LD 17-374HN		
Grid Northing	1237683.365		
Grid Easting	3164197.830		
Latitude	N39 59 3.6096		
Longitude	W104 54 50.5116		
North	-135.510		
East	0.560		
Installation			
Name	Ocho		
Easting	3164196.374		
Northing	1237818.868		
Map Name	<unknown>		
North Alignment	True		
Field			
Name	Wattenburg		
Easting	41136929.757		
Northing	12284170.646		
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
Ocho LD 17-379HC	Ocho LD 17-379HC (PWB)	Slot W05 - Ocho LD 17-379HC	Ocho		4.160	4416.380	17730.250	-3.550	4416.380
Ocho LD 17-377HN	Ocho LD 17-377HN (PWB)	Slot W07 - Ocho LD 17-377HN	Ocho		4.330	4250.180	17730.250	-3.070	4250.180
Ocho LD 17-377HC	Ocho LD 17-377HC (PWB)	Slot W08 - Ocho LD 17-377HC	Ocho		5.460	4145.850	14276.500	-1.780	4145.850
Ocho LD 17-375HN	Ocho LD 17-375HN (PWB)	Slot W09 - Ocho LD 17-375HN	Ocho		7.340	3923.120	17730.250	0.430	3937.010
Ocho LD 17-374HC	Ocho LD 17-374HC (PWB)	Slot W11 - Ocho LD 17-374HC	Ocho		14.210	3600.000	13947.150	7.830	3608.920
Ocho LD 17-373HN	Ocho LD 17-373HN (PWB)	Slot W12 - Ocho LD 17-373HN	Ocho		29.140	3600.000	13943.570	22.760	3608.920
Ocho LD 17-379HN	Ocho LD 17-379HN (PWB)	Slot W04 - Ocho LD 17-379HN	Ocho		30.880	4344.100	17730.250	23.290	4344.100
Ocho LD 17-378HN	Ocho LD 17-378HN (PWB)	Slot W06 - Ocho LD 17-378HN	Ocho		38.120	4026.380	17730.250	31.020	4026.380
Ocho LD 17-372HC	Ocho LD 17-372HC (PWB)	Slot W13 - Ocho LD 17-372HC	Ocho		44.440	3600.000	13943.570	38.060	3608.920
Ocho LD 17-372HN	Ocho LD 17-372HN (PWB)	Slot W14 - Ocho LD 17-372HN	Ocho		59.740	3600.000	13943.570	53.360	3608.920
Ocho LD 17-370HN	Ocho LD 17-370HN (PWB)	Slot W15 - Ocho LD 17-370HN	Ocho		74.680	3600.000	13943.570	68.300	3608.920
Ocho LD 17-365HN	Ocho LD 17-365HN (PWB)	Slot E10 - Ocho LD 17-365HN	Ocho		99.770	3600.000	17704.510	93.390	3608.920
Ocho LD 17-367HN	Ocho LD 17-367HN (PWB)	Slot E11 - Ocho LD 17-367HN	Ocho		100.770	3600.000	13730.310	94.390	3608.920
Ocho LD 17-364HC	Ocho LD 17-364HC (PWB)	Slot E09 - Ocho LD 17-364HC	Ocho		101.100	3600.000	13927.170	94.710	3608.920
Ocho LD 17-367HC	Ocho LD 17-367HC (PWB)	Slot E12 - Ocho LD 17-367HC	Ocho		103.930	3600.000	13779.530	97.550	3608.920
Ocho LD 17-364HN	Ocho LD 17-364HN (PWB)	Slot E08 - Ocho LD 17-364HN	Ocho		104.240	3571.000	13927.170	97.910	3571.000
Ocho LD 17-368HN	Ocho LD 17-368HN (PWB)	Slot E13 - Ocho LD 17-368HN	Ocho		109.210	3600.000	13943.570	102.830	3600.000
Ocho LD 17-363HN	Ocho LD 17-363HN (PWB)	Slot E07 - Ocho LD 17-363HN	Ocho		109.660	3225.000	13927.170	103.890	3225.000
Ocho LD 17-369HN	Ocho LD 17-369HN (PWB)	Slot E14 - Ocho LD 17-369HN	Ocho		116.280	3600.000	13943.570	109.900	3600.000
Ocho LD 17-362HC	Ocho LD 17-362HC (PWB)	Slot E06 - Ocho LD 17-362HC	Ocho		116.850	3083.990	16900.000	111.290	3100.390
Ocho LD 17-369HC	Ocho LD 17-369HC (PWB)	Slot E15 - Ocho LD 17-369HC	Ocho		124.860	3600.000	13943.570	118.480	3600.000
Ocho LD 17-362HN	Ocho LD 17-362HN (PWB)	Slot E05 - Ocho LD 17-362HN	Ocho		125.270	2616.000	13927.170	120.480	2616.000
Ocho LD 17-361HN	Ocho LD 17-361HN (PWB)	Slot E04 - Ocho LD 17-361HN	Ocho		135.080	2167.000	13927.170	131.010	2167.000
BCHP - STONEHOCKER 21-8	BCHP - STONEHOCKER 21-8 (AWB)	ZZ-BCHP - STONEHOCKER 21-8	Ocho		152.070	5040.430	8194.400	142.390	5040.430
KMG - EDSTROM 24-8 1	KMG - EDSTROM 24-8 1 (AWB)	ZZ-KMG - EDSTROM 24-8 1	Ocho		157.800	11948.770	11948.770	117.600	11948.770
SYG - BROWN 11-8	SYG - BROWN 11-8 (AWB)	ZZ-SYG - BROWN 11-8	Ocho		256.460	10843.430	10843.430	221.640	10843.430
BCHP - STONEHOCKER 22-8H	BCHP - STONEHOCKER 22-8H (AWB)	ZZ-BCHP - STONEHOCKER 22-8H	Ocho		309.980	9770.920	9770.920	287.660	9770.920
BCHP - STONEHOCKER 8-5	BCHP - STONEHOCKER 8-5 (AWB)	ZZ-BCHP - STONEHOCKER 8-5	Ocho		364.100	8780.200	8780.200	348.980	8780.200
MERIT - MCELWAIN 1	MERIT - MCELWAIN 1 (AWB)	ZZ-MERIT - MCELWAIN 1	Ocho		443.310	13648.620	13648.620	389.470	13648.620
PDC - MCELWAIN 12-17	PDC - MCELWAIN 12-17 (AWB)	ZZ-PDC - MCELWAIN 12-17	Ocho		560.860	14651.280	14651.280	497.450	14665.350
PDC - MCELWAIN 11-17	PDC - MCELWAIN 11-17 (AWB)	ZZ-PDC - MCELWAIN 11-17	Ocho		562.010	14044.020	14044.020	504.010	14058.400
PDC - MCELWAIN 2	PDC - MCELWAIN 2 (AWB)	ZZ-PDC - MCELWAIN 2	Ocho		634.030	17181.020	17181.020	548.490	17191.600
BCHP - STONEHOCKER 11-8H	BCHP - STONEHOCKER 11-8H (AWB)	ZZ-BCHP - STONEHOCKER 11-8H	Ocho		682.090	2636.610	8256.460	673.490	2657.480
KPK - BROWN 13-8	KPK - BROWN 13-8 (AWB)	ZZ-KPK - BROWN 13-8	Ocho		812.340	12272.620	12272.620	768.730	12286.750
STARLIGHT - MARK MCELWAIN 1	STARLIGHT - MARK MCELWAIN 1 (AWB)	ZZ-STARLIGHT - MARK MCELWAIN 1	Ocho		872.760	13541.440	13541.440	819.840	13549.870
KPK - EDSTROM UNIT 1	KPK - EDSTROM UNIT 1 (AWB)	ZZ-KPK - EDSTROM UNIT 1	Ocho		908.380	11026.450	11026.450	876.200	11040.030
BCHP - STONEHOCKER 12-8H	BCHP - STONEHOCKER 12-8H (AWB)	ZZ-BCHP - STONEHOCKER 12-8H	Ocho		944.770	16.400	9817.980	943.740	32.810
ESRCH - MARK MCELWAIN 2	ESRCH - MARK MCELWAIN 2 (AWB)	ZZ-ESRCH - MARK MCELWAIN 2	Ocho		946.670	16237.380	16237.380	869.580	16256.560
PDC - MCELWAIN 32-17	PDC - MCELWAIN 32-17 (AWB)	ZZ-PDC - MCELWAIN 32-17	Ocho		1075.490	15356.320	15356.320	1006.020	15356.320
PDC - MCELWAIN 13-17	PDC - MCELWAIN 13-17 (AWB)	ZZ-PDC - MCELWAIN 13-17	Ocho		1104.160	15666.010	15666.010	1031.850	15682.410
PDC - STONEHOCKER 32-8	PDC - STONEHOCKER 32-8 (AWB)	ZZ-PDC - STONEHOCKER 32-8	Ocho		1628.980	9784.500	9784.500	1607.260	9793.310
PDC - MCELWAIN 34-17	PDC - MCELWAIN 34-17 (AWB)	ZZ-PDC - MCELWAIN 34-17	Ocho		1643.920	17730.250	17730.250	1553.610	17730.250
SYG - QUEBEC-N INVESTMENT 1	SYG - QUEBEC-N INVESTMENT 1 (AWB)	ZZ-SYG - QUEBEC-N INVESTMENT 1	Ocho		1653.920	10835.220	10835.220	1623.590	10843.180
PDC - LEISLE 8-5	PDC - LEISLE 8-5 (AWB)	ZZ-PDC - LEISLE 8-5	Ocho		1888.650	3600.000	8874.670	1880.700	3600.000
KMG - QUEBEC NORTH 34-8	KMG - QUEBEC NORTH 34-8 (AWB)	ZZ-KMG - QUEBEC NORTH 34-8	Ocho		2206.340	11769.990	11769.990	2167.690	11778.220
PDC - MC ELWAIN 4	PDC - MC ELWAIN 4 (AWB)	ZZ-PDC - MC ELWAIN 4	Ocho		2324.210	16872.190	16872.190	2241.420	16879.920
KPK - QUEBEC NORTH 12-8	KPK - QUEBEC NORTH 12-8 (AWB)	ZZ-KPK - QUEBEC NORTH 12-8	Ocho		3011.690	10761.150	10761.150	2981.940	10777.560
PDC - MCELWAIN 41-17	PDC - MCELWAIN 41-17 (AWB)	ZZ-PDC - MCELWAIN 41-17	Ocho		3019.930	13894.360	13894.360	2963.580	13900.000
PDC - MCELWAIN 42-17	PDC - MCELWAIN 42-17 (AWB)	ZZ-PDC - MCELWAIN 42-17	Ocho		3098.830	14846.290	14846.290	3033.970	14862.200
KPK - NORTH QUEBEC 16-8	KPK - NORTH QUEBEC 16-8 (AWB)	ZZ-KPK - NORTH QUEBEC 16-8	Ocho		3109.550	11919.890	12405.580	3069.440	11942.260
PDC - MCELWAIN 44-17A	PDC - MCELWAIN 44-17A (AWB)	ZZ-PDC - MCELWAIN 44-17A	Ocho		3270.840	17730.250	17730.250	3180.260	17730.250