

SYSDRILL
Closest Approach Summary Report
Wellbore: HDI KF 03-232HC (PWB)
Wellpath: HDI 03-232HC (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	HDI KF 03-232HC (PWB)
Created	24-Mar-2016
Last Revised	6-May-2016

Well

Name	HDI KF 03-232HC
Government ID	
Last Revised	25-Mar-2016

Slot

Name	Slot 03 - HDI KF 03-232HC
Grid Northing	1266084.450
Grid Easting	3239925.740
Latitude	N40 3 38.1888
Longitude	W104 38 34.1412
North	0.000
East	83.970

Installation

Name	HDI
Easting	3239841.773
Northing	1266083.639
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]
HDI KF 03-23:HDI KF 03-232HN (PWB)		Slot 02 - HDI I HDI		14.560	3439.000	7261.560	8.460	3439.000	2.390	3439.000
HDI KF 03-23:HDI KF 03-233HN (PWB)		Slot 04 - HDI I HDI		14.840	3843.000	15031.660	8.090	3843.000	2.200	3854.780
HDI KF 03-23:HDI KF 03-231HN (PWB)		Slot 01 - HDI I HDI		29.390	3027.000	15030.710	23.960	3027.000	4.120	15030.710
HDI KF 03-23:HDI KF 03-234HN (PWB)		Slot 05 - HDI I HDI		30.510	3843.000	15031.660	23.770	3843.000	4.520	3854.780
HDI KF 03-23:HDI KF 03-234HC (PWB)		Slot 06 - HDI I HDI		45.070	3843.000	15031.660	38.320	3843.000	4.470	15026.040
HDI KF 03-23:HDI KF 03-236HN (PWB)		Slot 07 - HDI I HDI		59.900	3843.000	15031.660	53.160	3843.000	7.150	15026.040
HDI KF 03-23:HDI KF 03-237HN (PWB)		Slot 08 - HDI I HDI		75.580	3843.000	15031.660	68.830	3843.000	9.810	15026.040
HDI KF 03-23:HDI KF 03-237HC (PWB)		Slot 09 - HDI I HDI		90.410	3843.000	15031.660	83.670	3843.000	9.870	15026.040
HDI KF 03-23:HDI KF 03-238HN (PWB)		Slot 10 - HDI I HDI		104.970	3843.000	15031.660	98.220	3843.000	12.630	15026.040
HDI KF 03-23:HDI KF 03-239HC (PWB)		Slot 11 - HDI I HDI		119.800	3843.000	15031.660	113.060	3843.000	13.740	15026.040
HDI KF 03-23:HDI KF 03-239HN (PWB)		Slot 12 - HDI I HDI		135.480	3843.000	15031.660	128.730	3843.000	15.290	15016.200
HDI KF 03-24:HDI KF 03-240HN (PWB)		Slot 13 - HDI I HDI		150.030	3843.000	15031.660	143.290	3843.000	17.650	15031.660
CSPK- Ottese CSPK- Ottesen 3L-3H-L165 (PWB)		AA - CSPK- O HDI		624.010	8045.130	8045.130	554.080	8045.130	8.920	8045.130
CSPK- Ottese CSPK- Ottesen 3K-3H-L165 (PWB)		AA - CSPK- O HDI		844.140	8043.350	8043.350	774.100	8043.350	12.050	8043.350
KMG- SPARB KMG- SPARBOE 7C-3HZ (AWB)		AA - KMG- SF HDI		965.540	15031.660	15031.660	933.760	15031.660	30.360	15026.040
GWOG Perry GWOG Perry #1 (AWB)		AA - GWOG F HDI		980.340	4216.200	9128.430	971.690	4248.480	59.780	9005.700
KMG- SPARB KMG- SPARBOE 7N-3HZ (AWB)		AA - KMG- SF HDI		989.510	15031.660	15031.660	948.990	15031.660	24.420	15031.660
CSPK- Ottese CSPK- Ottesen 3J-3H-L165 (PWB)		AA - CSPK- O HDI		1087.210	8042.120	8042.120	1017.780	8042.120	15.660	8042.120
KMG- SPARB KMG- SPARBOE 24C-3HZ (AWB)		AA - KMG- SF HDI		1178.100	15031.660	15031.660	1091.560	15031.660	13.610	15031.660
KMG- SPARB KMG- SPARBOE 24C-3HZ (AWB)		AA - KMG- SF HDI		1178.100	15031.660	15031.660	1091.560	15031.660	13.610	15031.660
CSPK- Ottese CSPK- Ottesen 3I-3H-L165 (PWB)		AA - CSPK- O HDI		1297.080	8041.100	8041.100	1227.060	8041.100	18.530	8041.100
KMG- SPARB KMG- SPARBOE 24N-3HZ (AWB)		AA - KMG- SF HDI		1328.450	15031.660	15031.660	1231.880	15031.660	13.760	15031.660
KMG- SPARB KMG- SPARBOE 8C-3HZ (AWB)		AA - KMG- SF HDI		1477.230	15031.660	15031.660	1372.630	15031.660	14.120	15031.660
CSPK- Ottese CSPK- Ottesen 3H-3H-L165 (PWB)		AA - CSPK- O HDI		1543.420	8039.750	8039.750	1473.390	8039.750	22.040	8021.450
KMG- SPARB KMG- SPARBOE 8N-3HZ (AWB)		AA - KMG- SF HDI		1715.540	15031.660	15031.660	1603.540	15031.660	15.320	15031.660
CSPK- Ottese CSPK- Ottesen 3G-3H-L165 (PWB)		AA - CSPK- O HDI		1790.800	8038.210	8038.210	1720.940	8038.210	25.610	7972.240
CSPK- Ottese CSPK- Ottesen 3F-3H-L165 (PWB)		AA - CSPK- O HDI		1972.550	14779.980	14779.980	1906.570	14911.210	28.310	7955.830
KMG- SPARB KMG- SPARBOE 40C-3HZ (AWB)		AA - KMG- SF HDI		2049.650	15031.660	15031.660	1930.070	15031.660	17.140	15031.660
KMG- SPARB KMG- SPARBOE 40N-3HZ (AWB)		AA - KMG- SF HDI		2384.850	15031.660	15031.660	2262.280	15031.660	19.460	15026.040

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 5027.7ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 347.510 degrees
Prepared by Great Western Operating Company
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