

SYSDRILL
Closest Approach Summary Report
Wellbore: HDI KF 03-233HN (PWB)
Wellpath: HDI 03-233HN (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 03-233HN (PWB)
Created	24-Mar-2016
Last Revised	6-May-2016

Well

Name	HDI KF 03-233HN
Government ID	
Last Revised	25-Mar-2016

Slot

Name	Slot 04 - HDI KF 03-233HN
Grid Northing	1266084.594
Grid Easting	3239940.574
Latitude	N40 3 38.1888
Longitude	W104 38 33.9504
North	0.000
East	98.810

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 03-232HC (PWB)		Slot 03 - HDI I HDI		14.840	3843.000	14842.690	8.090	3843.000	2.200	3843.000
HDI KF 03-23:HDI KF 03-234HN (PWB)		Slot 05 - HDI I HDI		15.680	4003.000	14842.690	8.670	4003.000	2.240	4016.200
HDI KF 03-23:HDI KF 03-232HN (PWB)		Slot 02 - HDI I HDI		29.390	3439.000	14842.690	23.300	3439.000	3.040	14842.690
HDI KF 03-23:HDI KF 03-234HC (PWB)		Slot 06 - HDI I HDI		30.230	4003.000	14842.690	23.230	4003.000	3.290	14829.190
HDI KF 03-23:HDI KF 03-231HN (PWB)		Slot 01 - HDI I HDI		44.230	3027.000	14842.690	38.800	3027.000	5.420	14842.690
HDI KF 03-23:HDI KF 03-236HN (PWB)		Slot 07 - HDI I HDI		45.070	4003.000	14842.690	38.060	4003.000	5.400	14829.190
HDI KF 03-23:HDI KF 03-237HN (PWB)		Slot 08 - HDI I HDI		60.740	4003.000	14842.690	53.740	4003.000	7.960	14829.190
HDI KF 03-23:HDI KF 03-237HC (PWB)		Slot 09 - HDI I HDI		75.580	4003.000	14842.690	68.570	4003.000	8.440	14829.190
HDI KF 03-23:HDI KF 03-238HN (PWB)		Slot 10 - HDI I HDI		90.130	4003.000	14842.690	83.130	4003.000	10.850	14829.190
HDI KF 03-23:HDI KF 03-239HC (PWB)		Slot 11 - HDI I HDI		104.970	4003.000	14842.690	97.970	4003.000	12.280	14829.190
HDI KF 03-23:HDI KF 03-239HN (PWB)		Slot 12 - HDI I HDI		120.640	4003.000	14839.300	113.640	4003.000	13.540	14829.190
HDI KF 03-24:HDI KF 03-240HN (PWB)		Slot 13 - HDI I HDI		135.200	4003.000	14842.690	128.200	4003.000	16.010	14842.690
CSPK- Ottese CSPK- Ottesen 3L-3H-L165 (PWB)		AA - CSPK- O HDI		845.130	7858.660	7858.660	775.730	7858.660	12.180	7858.660
GWOG Perry GWOG Perry #1 (AWB)		AA - GWOG F HDI		854.380	8935.710	8935.710	836.920	8935.710	48.450	8841.660
KMG- SPARB KMG- SPARBOE 7N-3HZ (AWB)		AA - KMG- SF HDI		957.400	14842.690	14842.690	929.250	14842.690	34.020	14842.690
KMG- SPARB KMG- SPARBOE 7C-3HZ (AWB)		AA - KMG- SF HDI		1013.080	14842.690	14842.690	970.310	14842.690	23.690	14842.690
CSPK- Ottese CSPK- Ottesen 3K-3H-L165 (PWB)		AA - CSPK- O HDI		1068.780	7857.700	7857.700	999.450	7857.700	15.410	7857.700
KMG- SPARB KMG- SPARBOE 24C-3HZ (AWB)		AA - KMG- SF HDI		1084.600	14842.690	14842.690	1013.030	14842.690	15.150	14842.690
KMG- SPARB KMG- SPARBOE 24C-3HZ (AWB)		AA - KMG- SF HDI		1084.600	14842.690	14842.690	1013.030	14842.690	15.150	14842.690
KMG- SPARB KMG- SPARBOE 24N-3HZ (AWB)		AA - KMG- SF HDI		1187.890	14842.690	14842.690	1101.170	14842.690	13.700	14842.690
CSPK- Ottese CSPK- Ottesen 3J-3H-L165 (PWB)		AA - CSPK- O HDI		1291.910	7857.410	7857.410	1222.200	7857.410	18.530	7857.410
KMG- SPARB KMG- SPARBOE 8C-3HZ (AWB)		AA - KMG- SF HDI		1337.760	14842.690	14842.690	1241.040	14842.690	13.830	14842.690
CSPK- Ottese CSPK- Ottesen 3I-3H-L165 (PWB)		AA - CSPK- O HDI		1516.850	7857.410	7857.410	1447.280	7857.410	21.800	7857.410
KMG- SPARB KMG- SPARBOE 8N-3HZ (AWB)		AA - KMG- SF HDI		1546.120	14842.690	14842.690	1438.350	14842.690	14.350	14842.690
CSPK- Ottese CSPK- Ottesen 3H-3H-L165 (PWB)		AA - CSPK- O HDI		1765.340	7857.410	7857.410	1695.830	7857.410	25.390	7841.000
KMG- SPARB KMG- SPARBOE 40C-3HZ (AWB)		AA - KMG- SF HDI		1882.760	14842.690	14842.690	1766.090	14842.690	16.140	14842.690
CSPK- Ottese CSPK- Ottesen 3G-3H-L165 (PWB)		AA - CSPK- O HDI		2000.690	7857.410	7857.410	1930.980	7855.830	28.680	7791.790
CSPK- Ottese CSPK- Ottesen 3F-3H-L165 (PWB)		AA - CSPK- O HDI		2164.420	14842.690	14842.690	2097.420	14829.190	31.630	7775.390
KMG- SPARB KMG- SPARBOE 40N-3HZ (AWB)		AA - KMG- SF HDI		2199.500	14842.690	14842.690	2078.270	14842.690	18.140	14842.690

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 348.950 degrees
Prepared by Great Western Operating Company
Date Printed: