

Collision Avoidance Bibliography

2010

The following papers all relate to the subject of well collision avoidance. They are organized by lead author in alphabetical order. The Collision Avoidance Work Group has also produced a bibliography on the related subject of position uncertainty. Although extensive, the lists are not exhaustive.

Both documents are available from the ISCWSA web site. They were first published April 2007 and are subject to annual revision.

Collision Avoidance Work Group

Collision Avoidance Bibliography - 2010

SPE Publications - Peer Reviewed

Brooks, A. G. "A New Look at Wellbore Collision Probability", paper SPE 116155, SPE Drilling & Completion Online First.

Leraand, F. et al.: "Relief-Well Planning and Drilling for a North Sea Underground Blowout," *JPT* (March 1992) 266-273.

Sawaryn, S.J. and Thorogood, J.L.: "A Compendium of Directional Calculations Based on the Minimum Curvature Method," *SPEDE* (March 2005) 24-36.

Sawaryn, S.J., Sanstrom, B., and McColpin, G.: "The Management of Drilling Engineering and Well Services Software as Safety-Critical Systems," *SPEDE* (June 2006) 141-147.

Thorogood, J.L. and Sarawyn, S.J.: "The Traveling-Cylinder Diagram: A Practical Tool for Collision Avoidance," *SPEDE* (March 1991) 31-36.

Thorogood, J.L., Hogg, T.W. and Williamson, H.S.: "Application of Risk Analysis Methods to Subsurface Well Collisions," *SPEDE* (December 1991) 299-304.

Wang, Z. and Inglis, T.A.: "Planning Directional Wells Through a High-Density Cluster of Existing Wells," *SPEDE* (December 1990) 291-293.

Warren, T.M.: "Directional Survey and Proximity Log Analysis of a Downhole Well Intersection," *JPT* (December 1981) 2351-2362.

Williamson, H.S.: "Towards Risk-Based Well Separation Rules," *SPEDE* (March 1998) 47-51

Collision Avoidance Bibliography - 2010

SPE Publications - Not Peer Reviewed

Avocato, N.S. et al.: "Optimising Slot Usage on a Minimum Facilities Platform," paper SPE 30346 presented at 1995 Offshore Europe, Aberdeen, United Kingdom, 5-8 September.

Brooks, A.G. and Wilson, H.: "An Improved Method for Computing Wellbore Position Uncertainty and its Application to Collision and Target Intersection Probability Analysis," paper SPE 36863 presented at the 1996 European Petroleum Conference, Milan, Italy, 22-24 October.

Burton, R.C.: "Development of Drilling Close Rules for Dubai Petroleum Co." paper SPE 22546 presented at the 1991 SPE Annual Technical Conference and Exhibition, Dallas, Texas, 6-9 October.

Cayeux, E., Genevois, J-M, and Crepin, S.: "Well Planning Quality Improved Using Cooperation between Drilling and Geosciences," paper SPE 71331 presented at the 2001 SPE Annual Technology Conference and Exhibition, New Orleans, Louisiana, 30 September - 3 October.

Cunha, J.C., Demirdal, B., and Gui, P.: "Use of Quantitative Risk Analysis for Uncertainty Quantification on Drilling Operations – Review and Lessons Learned," paper SPE 94980 presented at the 2005 SPE Latin American and Caribbean Petroleum Engineering Conference, Rio de Janeiro, Brazil, 20-23 June.

Gao, D.: "Predicting and Scanning of Wellbore Trajectory in Horizontal Well Using Advanced Models," paper SPE 29982 presented at the 1995 International Meeting on Petroleum Engineering, Beijing, China, 14-17 November.

Gfrerrer, A. and Glaser, G.P.: "A New Approach for Most Realistic Wellpath Computation," paper SPE 62726 presented at the 2000 IADC/SPE Asia Pacific Drilling Technology Conference, Kuala Lumpur, Malaysia, 11-13 September.

Girling, S.B. et al.: "Optimisation of Well Placement and Improved Well Planning Within a Collaborative 3D Environment Employing Real-Time Data: A Case Study from the Visund Field, Norway," paper SPE 90434 presented at the 2004 Annual Technical Conference and Exhibition, Houston, Texas, 26-29 September.

Grace, R.D., Kuckes, A.F., and Branton, J.: "Operations at a Deep Relief Well: The TXO Marshall," paper SPE 18059 presented at the 1988 SPE Annual Technical Conference and Exhibition, Houston, Texas, 2-5 October.

Hodgson, H.: "Computerized Well Planning for Directional Wells," paper SPE 12071 presented at the 1983 SPE Annual Technical Conference and Exhibition, San Francisco, California, 5-8 October.

Johnstone, J.A., Morrison, C., and Fernandez, R.L.: "Application of Quality Standard ISO 9001 to Directional Well Planning," paper SPE 24561 presented at the 1992 SPE Annual Technical Conference and Exhibition, Washington, D.C., 4-7 October.

Leder, P.C., McCann, D.P. and Hatch, A.: "New Real-Time Anticollision Alarm Improves Drilling Safety," paper SPE 30692 presented at the 1995 SPE Annual Technical Conference and Exhibition, Dallas, Texas, 22-25 October.

McElhinney, G., Sognnes, R. and Smith, B.: "Case Histories Demonstrate a New Method for Well Avoidance and Relief Well Drilling," paper SPE 27667 presented at the 1997 SPE/IADC Drilling Conference, Amsterdam, Netherlands, 4-6 March.

McNair, G.A. et al.: "Implementation of a New Risk Based Well Collision Avoidance Method," paper SPE 92554 presented at the 2005 SPE/IADC Drilling Conference, Amsterdam, Netherlands, 24-25 February.

Mallary, C.R., Williamson, H.S., Pitzer, R. and Robertson, J. "Collision Avoidance Using a Single Wire Magnetic Ranging Technique at Milne Point, Alaska" SPE 39389-MS, 1998 IADC/SPE Drilling Conference, Dallas, 3-6 March.

Okafor, Z.M. and Moore, E.E. "Well Placement in a Mature California Field" SPE 120856-MS, SPE Western Regional Meeting, San Jose, 24-26 March 2009.

Collision Avoidance Bibliography - 2010

SPE Publications - Not Peer Reviewed (continued)

Prange, M.D., Tilke, P.G., and Kaufman, P.S.: "Assessing Borehole-Position Uncertainty From Real-Time Measurements in an Earth Model," paper SPE 89781 presented at the 2004 SPE Annual Technical Conference and Exhibition, Houston, Texas, 26-29 September.

Poedjono, B. et al.: "Well-Collision Risk in Congested Environments," paper SPE 101719 presented at the 2006 Asia Pacific Oil & Gas Conference and Exhibition, Adelaide, Australia, 11-13 September.

Poedjono, B., Akinniranye, G., Conran, G., and Phillips, W. "Minimizing the Risk of Well Collisions in Land and Offshore Drilling" SPE 108279-MS, 2007 SPE/IADC Middle East Drilling Technology Conference and Exhibition, Cairo.

Poedjono, B., Lombardo, G.J. and Phillips, W. "Anti-Collision Risk Management Standard for Well Placement" SPE 121040-MS, SPE Americas E&P Environmental and Safety Conference, San Antonio, 24-25 March 2009.

Poedjono, B. et al.: "Anti-Collision Risk Management for Real-World Well Placement" SPE 121094-PP, SPE Asia Pacific Health, Safety, Security, and Environment Conference and Exhibition, Jakarta, Indonesia, 4-6 August 2009

Rahchamani, A., Kalantari-Dahaghi, A.M., Moghadasi, J. and V.Gholami, V. "26-in Hole Sidetracking Problems in Salman Oil Field, Persian Gulf: A Case Study" SPE 100782-MS, International Oil & Gas Conference and Exhibition in China, Beijing, 5-7 December 2006.

Rustad, A.M., Kalleklev, A.J., and Sodahl, N. "Recommended Practice on Riser Interference" SPE 20066-MS, OTC, Houston, 2009.

Santos, O.L.A. and Azar, J.J.: "The Development and Field Application of a 3D Computer Graphics System for Displaying Wellbore Trajectories," paper SPE 29197 presented at the 1994 SPE Eastern Regional Meeting, Charleston, West Virginia, 8-10 November.

Sawaryn, S.J. et al.: "Safety Critical Systems Principles Applied to Drilling Engineering and Well Services Software," paper SPE 84152 presented at the 2003 SPE Annual Technical Conference and Exhibition, Denver, Colorado, 5-8 October.

Smith, D. and Zijlker, V.: "Managing Major Incident Risk," paper SPE 96250 presented at the 2005 SPE Asia Pacific Health, Safety and Environment Conference and Exhibition, Kuala Lumpur, Malaysia, 19-21 September.

Stagg, T.O. and Reilly, R.H.: "Watchdog: An Anti-Collision Wellhead Monitoring System," paper SPE 22123 presented at the 1991 International Arctic Technology Conference, Anchorage, Alaska, 29-31 May.

Taylor, D.P. and Johnstone, J.A.: "Site Selection, Well Planning, and Collision-Avoidance Considerations for the Piper Field Redevelopment," paper SPE 23041 presented at 1991 Offshore Europe, Aberdeen, United Kingdom, 3-6 September.

Thorogood, J.L. et al.: "Quantitative Risk Assessment of Subsurface Well Collisions," paper SPE 20908 presented at the 1990 European Petroleum Conference, The Hague, Netherlands, 21-24 October.

Thorogood, J.L., Hogg, T.W. and Williamson, H.S.: "Application of Risk Analysis Methods to Subsurface Well Collisions (Supplement to SPE 23941)," paper SPE 23942 available through SPE, Richardson, Texas (1991).

Voisin, J.A. et al.: "Relief Well Planning and Drilling for SLB-5-4X Blowout, Lake Maracaibo, Venezuela," paper SPE 16677 presented at the 1987 SPE Annual Technical Conference and Exhibition, Dallas, Texas, 27-30 September.

Winther, A., Roper, D.J., and Sjaaholm, A.J.: "Concepts of Directional Drilling Data Management," paper SPE 20329 presented at the 1990 Petroleum Computer Conference, Denver, Colorado, 25-28 June.

Collision Avoidance Bibliography - 2010

Non-SPE Publications

Lyons, E.P. and Mechem, O.E. "Design and Implementation of Directional-Drilling Programs THUMS Offshore Islands Development Wells East Wilmington Field" Paper 68-075, API Drilling and Production Practice, 1968.

Poedjono B. , Isevcan E. , Lombardo G.J. , Walker J. and McCulloch S. "Anti-Collision and Risk Management Offshore Qatar: A Successful Collaboration" IPTC -13142-PP, International Petroleum Technology Conference, Doha, Qatar, 7-9 December 2009.

Roper, D.J. and Henly, A.G. "A Process for Directional Drilling" International Patent Application WO 96/35859, November 1996.

Tsao, Y-H., Dawson, C.R, and Ure, D.W.: "Well Collision Avoidance," U.S. Patent No. 5,901,795 (1999).

Xu, H., Zhang, J., and Jiang, C.: "Directional Trajectory Control by Employing Statistics and Probability Methods," paper SPE 22384 presented at the 1992 International Meeting on Petroleum Engineering, Beijing, China, 24-27 March.