

Curriculum Vitae

Keith K. MILLHEIM
President
Strategic Worldwide LLC
The Woodlands, Texas

PERSONAL:

CITIZENSHIP: United States

STATUS: Married, 2 children

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EDUCATION:

Received Ph.D. in Mining Engineer from the University of Leoben in 1992. Completed Dissertation: The use of a Systems Analysis Process to Investigate Multivariant Systems in the Global Oil and Gas Industry, under Dr. Michael J. Economides.

Received M.Sc. in Petroleum Engineering from the University of Oklahoma in 1964. Was the 1964/65 Pan American Fellowship Holder. Completed Thesis: An Experimental Study of Linear Unsteady State Gas Flow Through Low Permeability Porous Media under Dr. John M. Campell (Head of Petroleum Engineering Department).

Received B. Sc. In Petroleum Science from Marietta College in 1963. Member of Lambda Chi Alpha fraternity, National Petroleum and Math Honories. Held Claude Benedum Trees Scholarship (Petroleum Engineering Scholarship for Top Senior Student.)

AWARDS, INDUSTRY ACTIVITIES, AND PROFESSIONAL SOCIETIES

PROFESSIONAL SOCIETIES: Society of Petroleum Engineers (SPE)
Society of Systems Thinking
Society of System Dynamics
Society of Core Analysts
International Association of Drilling Contractors

OTHER ORGANIZATIONS: Member of Texas Academy of Science, Engineering and Medicine

Member of National Academy of Engineering (NAE)
Former Member of the Ocean Drilling Program committee
Former Member of the Scientific Continental Drilling
Program Committee

AWARDS:

Anthony F. Lucas Gold Medal (SPE) 2006
DeGolyer Distinguished Service Medal (SPE) 2005
Distinguished Service Award (SPE) 1993
Inducted into the National Academy of Engineering
(1990)
SPE 25 year Member
First SPE Drilling Engineering Award Winner (1984)
SPE Distinguished Member (1984)
Who's Who in Engineering (1982)
SPE National Graduate Student Paper Contest Winner
(1965)

INDUSTRY ACTIVITIES:

- SPE Annual Meeting (2005) Technical Chairman
- D.O.E. Methane Hydrate Advisory Committee (MHAC)
(2004)
- Lester C. Uren Award Committee (1996-1999)
- Faculty Sponsor, University of Okla., Student SPE Chapter
(1999 - 2000)
- Faculty Sponsor, Mining University Leoben (1996 - 1998)
- Former JPT Special Columnist for Fields of Vision (1996 -
2000)
- Chairman for the 1997 European SPE Forum on The
Management of Complex Wellbore Geometry's
- Forum Series Steering Committee South America and
Caribbean (1994)
- Forum Series Steering Committee Member (1992 - 1993)
- SPE Distinguished Lecturer Emeritus (1992-1993)
- Senior Technical Editor for JPT for SPE (1990-1993)
- Chairman of SPE Publications Coordinating Committee
(1989-1992)
- Chairman for the 1990 SPE Forum on Wellbore Stability
- Member on the SPE Committee for Education and
Professionalism (1987-1990)
- Chairman for the Annual SPE/IADC Meeting held in New
Orleans (1988)
- Executive Editor for the SPE Drilling Engineering
Publication (1986-1988)
- SPE Distinguished Lecturer (1986-1987)

- Chairman for the 1986 SPE forum on Computers in Drilling
- Chairman for the 1983 SPE Forum on Directional Drilling
- Technical Editor for SPE (1980-1982)
- Chairman of the Technical Committee for Drilling (1980-1981)
- SPE Technical Committee for Drilling (1978-1981)

PATENTS:

Eleven

CAREER HISTORY

2007 to Present, President of Strategic Worldwide LLC, The Woodlands, TX

After retiring from Anadarko Petroleum Company Keith Millheim re-activated his company, Strategic Worldwide LLC which previously was Strategic Worldwide Inc. This company has provided advisory services to International oil companies on new innovative ways for oil and gas exploration and production, worldwide. Today, Strategic Worldwide is focusing on innovative ways to reduce costs for oil and gas exploration and development in the Arctic areas of the world and deepwater.

2000 to 2007, Distinguished Advisor for Anadarko Petroleum Corp. The Woodlands, TX

Keith Millheim retired as a Distinguished Advisor for Anadarko Petroleum Corporation, the highest technical position in the company. Before this position he was the Chief Engineer for Technology, and previous to the Chief Engineer's role he was the Manager of Operations Technology Group. In the later part of 2000, after Anadarko's merger with Union Pacific Resources, Anadarko decided to form an engineering technology group and hired Millheim to develop the group.

From 2004 to the beginning of 2006 Millheim invented and developed an innovative system for doing deep water exploration and production, including a new way to approach deep water drilling and early production testing. A successful field test of the main patent idea was done in the Gulf of Mexico during the Winter of 2006. Because of a major budget cutting for 2007 and lack of a deep water international deep water oil discovery to test the concept, the company suspended future development of the technology. Also, during this period Millheim led an initiative to develop an offshore gas-to-liquids technology which was also deferred because of budget cuts.

From 2003 to 2004 Millheim was the major engineering advisor for tight gas, drilling, and offshore technology.

Between 2001 and 2003 Millheim secured two major DOE projects worth \$14 million (including Anadarko's contributions). One project was to core and evaluate Alaskan Arctic methane hydrates and the other project was to core and evaluate the cores in the Bossier tight gas trend to

improve hydraulic fracturing. The hydrate project is the first of its kind in the United States. Millheim spearheaded the development of Anadarko's "Operation Intelligence Center", a first of its kind. This center offers a collaborative environment for everything from real time operations i.e. drilling, well testing, fracturing, etc. to project reviews, planning, and engineering problems solving. His group has pioneered the development of engineering knowledge bases, virtual file rooms, and field oriented real time operations tools.

He also directed the development of a mobile core laboratory capable of making on-site core measurements for engineering, geophysics and geological uses. This full automated lab was the only kind of its design in the world, fully capable of making over 25 separate measurements, including specialized measurements of methane hydrate cores.

Millheim and a co-inventor developed a new (patented) system for drilling in environmental sensitive areas like the Alaskan, Canadian and Russian arctic. This system was tested on the North Slope of Alaska. Millheim and the co-inventor also patented a system for laying pipeline in the arctic. Along with these major projects, Millheim's group supported all operations and exploration in bringing new technologies into Anadarko and helping solve engineering and operations related problems requested by the operating company.

1998 to 2003 Director Mewbourne School of Petroleum Engineering (University of Oklahoma) Norman Okla.

Millheim was appointed the Director of the Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma, Norman Oklahoma. In this position, he managed 10 faculty and 6 staff and was responsible for both the Undergraduate and graduate schools. (150 students) Over his 2 1/2 years, Millheim also secured a new 6-year accreditation for its B.Sc. in Petroleum Engineering. He started a new graduates program in Natural Gas Engineering, and created a new computer laboratory for engineers, secured major research funding from Noble Drilling Corp. to do drilling research; promoted The University of Oklahoma being one of these founding Universities with Schlumberger to form NeXT, a worldwide training alliance. He also had the University of Oklahoma (Petroleum School in Norman) become one of the training sites for NeXT.

Also during Millheim's tenure at the University, he secured the largest single donation to the School of Petroleum Engineering, totaling over \$8 million from Mewbourne Oil Co. He also secured a major donation from BP Corporation for its core and petrophysics laboratory in Tulsa Oklahoma.

During this period of time, Millheim was executive consultant to Noble Drilling Corp., Schlumberger Corp. and Sandia National Labs, working with the officers of each company on high-level technology issues, strategies and specific problems. Also, during this time he was a member of the U.S. DOE geothermal advisory committee and a technical advisor to the Oklahoma Energy Commission.

1994 - 1998 Director, Institute of Drilling, Production and Economics (Mining University of Leoben) Leoben Austria

October 1994 Millheim started as the Director of the Institute for Drilling, Production and Economics at the Mining University of Leoben, Leoben, Austria. He was responsible for all course work, management of the Institute, and securing research funding. Over the four-year tenure Millheim supervised and graduated five Ph.D's and 12 Diploma engineers (Master level). He secured Austria's first EU research grant (\$1.0 million) in petroleum engineering for drilling research. While in this capacity he also secured research grants from OMV, Wintershall RAG (Austrian Gas Company), RWE-DEA (German E& P Company), CSIRO (Australia), and RDS Ltd. (UK Company). Millheim was one of the leading persons at Leoben in securing research grants. During this time he supervised research in bit design and mechanics, cutting transport, drilling optimization using system dynamics, well log curvature effects on trajectory and drag, and numerous masters level theses works on drilling, production and petroleum economics.

During this four year period he was on the Board of Directors for RDS Ltd., a British offshore rig design company, and served as a technical advisor to the Ministry of Oil for Yugoslavia, reporting directly to the managing director of Naftagas (Yugoslavia state owned oil company).

Also, during this time Millheim, helped RWE DEA set up a critical drilling team to drill extended reach wells (8000 to 10,000 meters departure) to the Mittleplat Field (situated offshore) from an onshore rig location, and participated as the main outside technical advisor and consultant for the first four extended reach wells. While in this position, he served as the main consultant to Wintershall for setting up its "Fast track drilling training program" and served as one of the main technical advisors and designer of the Genesis Drilling Software developed and owned by the CSIRO in Australia. (This product is now being used in numerous countries, including the U.S. as one of the main knowledge based drilling analysis tools). He also consulted for Santos LTD of Australia for the development of Slim hole drilling technology and the application of systems dynamics for exploration and production. During this time he consulted for ITAG, a German based drilling contractor, on the development of a new generation slim hole drilling rig, capable of drilling to 18,000 ft. This was a European Union sponsored program.

Millheim presented system dynamic, systems thinking and strategic planning workshops to: OMV, Wintershall, Santos, BHP, CSIRO and RDS (automotive design and software company in London). He also served as one of Royal Dutch Shell outside advisors for its Technology Restructuring initiatives (1997 - 1998). Millheim also did strategic planning support for many of these companies.

1991 - 1994 Research Consultant, (Amoco Production Co) Tulsa, Oklahoma.

During 1991 Millheim was promoted to Research Consultant for Amoco, the highest technical position in the company. Only three other persons held this position besides Millheim, and he was the first person in Production Research in ten years to be promoted to this position. While a Research Consultant, he reported directly to the Manager of Production Research and sat on the executive management committee for Research. During this period, he pioneered the use of system dynamics and systems thinking and strategic planning for Amoco. He was responsible for leading teams for strategic planning for Egypt and restructuring exploration practices

processes and operations. At this time he reported to the corporate E&P Vice President of Strategic Planning on global strategic planning for Russia, Canada, Gulf of Mexico, Argentina and Venezuela.

During this period Millheim also completed his Ph.D. in Petroleum Engineering at the Mining University of Leoben. He was seconded to Corpovan (now part of PDVSA) for four months to advise the Board of Directors and other management on the use of systems thinking to address strategic issues for Corpovan (both up and down stream)

Millheim was Amoco's representative on a multi company (Arco, Chevron and Amoco) joint venture to find alternative technologies to drill and develop offshore Alaska (Beaufort Sea) and offshore California.

His last assignment, prior to retirement, Oct. 1994 was to lead a team (reported directly to Vice President of Research) on the restructuring Amoco Production Research into Amoco Technology.

1988 - 1991 Manager of Slim hole Drilling (Amoco Production Co.) Tulsa, Oklahoma

During 1988, the President of Amoco Production Co. selected Millheim to lead an effort to help improve exploration success by reducing overall drilling and exploration costs and cycle times. It was during this time that Millheim introduced Amoco's (patented) Slim hole advanced drilling system (SHADS) which integrated oil field drilling practices with mining drilling practices, in combination with a near real time mobile core laboratory. Although, others had experimented with Slim hole systems, using mining type rigs, it was Millheim who was acknowledged to be the founder of Slim hole technology in the oil business. During this time his innovations for Slim hole technology included: well control practices, pipe dynamics, advances in rig control, bit design, hydraulics, mud systems and automated systems for continuous coring. Parallel to the drilling effort he pioneered the concept of near real time core analysis, and helped create the first mobile automated core analysis labs.

Over two years Millheim managed a Slim hole drilling team, drilling slim hole exploration wells in Michigan, Kansas, Colorado, Oklahoma and Texas. Over 90,000 ft. of continuous core was cut and analyzed in real time. Millheim also managed a joint project between Amoco and Lamont - Dorty (Columbia University) to core the Newark Basin thrust belt. Over 20,000 ft. of formation was successfully cored and analyzed.

From this initial work other companies such as Total, Eft, BP and RD Shell embarked on aggressive Slim hole technology programs. Later Unocal and RD Shell would take the Slim hole technology into the development drilling.

During this period Millheim also co-designed a new generation slim hole drilling rig which was built and used on a 13,000 ft well in Colorado. Through a joint venture, Nabors Corp. took a rig to Venezuela where it drilled numerous wells.

The legacy of this work is still being felt in both exploration and development drilling, onshore and offshore.

1986 - 1987 Drilling Manager, Alaska (Amoco Production Co.) Anchorage, Alaska

During 1986, Millheim was placed in charge of the drilling of one of Amoco's most ambitious exploration programs in the Bering Sea. Five wells were drilled further offshore from the U.S. Coastline than ever attempted before. Some wells were within 100 miles of the offshore Russian border. Given the go ahead in the fall of 1986 all wells had to be drilled prior to the fall of 1987. During this time he supervised two semi submersibles, two ware ships and a fleet of work boats and standby boats. This operation was the first of its kind where all materials were transferred from the ware ships to the work boats while under power. He also supervised two critical drilling teams, which had real time satellite communications between the semi-submersibles, Anchorage Alaska (operational base) and Tulsa, Oklahoma (engineering base). The five wells were drilled in record time finishing before fall of 1987.

At the completion of the Bering Sea exploration project, Millheim was placed in charge of the Mars Ice Island project. The challenge was to build an Ice Island starting on January 1988 and drill an exploration well by the end of March 1988 and supervised the critical drilling team and completed the project.

1983 - 1986 Manager of the Critical Drilling Facility (Amoco Production Co.) Tulsa, Oklahoma

In 1983, Amoco's President of Exploration and Development commissioned a major effort to radically improve the drilling of complex or critical wells. Millheim was given the charge to develop this capability. In 1984 he supervised the construction of Amoco's first real time operation's center. This center had real time satellite communications as well as the real time monitoring of drilling data and trends as well as the use of a state of the art engineering simulator for planning and problem analysis. Over the next three years the Critical Drilling Facility (CDF) planned and supervised 23 wells in Oklahoma, Norway, Gulf of Mexico, Trinidad, Canada and Wyoming; (Including 6 in Alaska). These wells ranged from extended reach directional wells to deep wells, high-pressure wells, offshore and onshore wells, drilling through troublesome salt and many other complex situations. Such things as lessons learned, learn curve management; drilling team dynamics were pioneered over the three years and were the beginning of the many concepts now practiced in drilling.

1981 - 1983 Manager of Drilling Research (Amoco Production Ltd.) Tulsa, Oklahoma

Millheim was promoted to Manager of Drilling Research where he was in charge of the Drilling Mechanics group (bit and motor research), the development of the engineering simulator for drilling group, and drilling training for Amoco Production Co.

During this period he supervised a team of engineers and IT experts to develop the first engineering simulator for drilling which allowed the complete simulation of the drilling system and processes with over 2 million lines of code. It was the largest and most complex software program ever done in drilling.

While in this capacity he developed the field drilling laboratory at Catoosa, Oklahoma and commenced work in the area of medium horizontal drilling and anti whirl bit research.

It was also during this time, working with Redefusion LTD that he helped design and development of a new generation of training drilling simulator, which was the new benchmark for years to come.

Outcomes of these years of research evolved into a genesis of drilling analytics, drilling data management, anti-whirl bits, medium radius horizontal drilling technology, a new generation of drilling hydraulics and drilling simulation.

1979-1981 Drilling Mechanics Research Supervisor (Amoco Production Co) Tulsa Okla.

Millheim was promoted to supervisor of the drilling mechanics group where he was director of all bit research, directional drilling research, drill pipe dynamics research and drilling rig research. It was during this period, he was involved with Mobil's extended reach joint industry program; Amoco's representative for two MWD joint industry projects; a member of the Industry Steering Committee for geothermal drilling; and a member of the steering committee for the development of an automated hydraulic drilling rig. He was also a member of the steering committee for the Deep Ocean Drilling Project and renamed on the committee until 1988. It was during this period where Millheim was recognized as one of the leading persons in directional drilling technology - taking it from an art to a science.

1975 - 1979 Research Engineer (Amoco Production Co.) Tulsa Oklahoma

Millheim was hired by Amoco Production Co. to specialize in directional drilling. Over the next four years he was Amoco's directional drilling expert involved with over 120 directional wells in the North Sea, The Netherlands, Gulf of Mexico, Trinidad, Egypt, Iran, Canada, Wyoming, Texas and Louisiana. He pioneered the concept of bottom hole assembly analysis and helped develop the first dynamic bottom hole assembly software program. It was during this period that Millheim evolved training schools in deviation control and directional drilling for Amoco and the IADC. He also ran some of the first MWD tools for Amoco and was considered an expert on the application of MWD for directional drilling.

During this period Millheim participated in the development of Amoco's Tension leg platform design and Amoco's deep water drill ship, and Amoco's drilling assistance software (the first of its' kind in the industry).

1974 - 1975 Project Drilling Engineer (CER Corp.) Las Vegas Nevada

The early part of 1974 Millheim was hired as a project engineer for CER Corp (Part of EG&G Corp). He was CER's first representative to provide advanced engineering support for drilling large diameter well bores (8 ft. to 12-ft diameter) at the Nevada Test site for the emplacement of nuclear weapons (for testing yield). He also provided directional engineering for re-entry wells and was one of the engineers specializing in foam drilling concepts and applications.

Also, during this period, Millheim was the project engineer for industries first massively hydraulic fracturing experiment with DOE, implementing the program devised by an industry team of 15 experts on hydraulic fracturing.

1968 - 1973 Consultant, Melbourne and Perth, Australia

From 1968 to 1973, Millheim was in a partnership with a geophysicist in a consulting company that did exploration programs for Australian and non-Australian companies. Did complete exploration programs which included leasing lands, developing contracts, doing seismic, gravity, air borne magnetic and geochemical surveys. Supervised the drilling of over 20 wells in Western Australia, Victoria, South Australia, Queensland, New South Wales, Timor and Papua. Company also did mining exploration and exportation such as geochemical surveys, continuous coring, mine de-watering and reclamation and economic analysis. Also operated two mines: one surface cut gold mine and one underground gold mine.

1967 - 1968 Petroleum Engineering (Conoco), Dubai and Great Yarmouth, UK

Millheim was transferred to Dubai as the only engineer to conduct all on-site engineering functions for the drilling of three offshore wells. He did the entire test design and testing for these wells (all three were the first discoveries in Dubai), and from there, he was transferred to the North Sea where he designed and ran the well tests on the discovery well for the Viking Gas field.

In between international assignments he was seconded by CER Geonuclear Corp. to help design the drilling and testing of the Project Rulison Nuclear Gas Stimulation Experiment.

1965 - 1968 Petroleum Engineering (Conoco) Billings, Montana and Ponca City, Okla.

Millheim was hired by Conoco as a Production Engineer (after completion of his M.Sc. at The University of Oklahoma) to work in Billings Montana. At this position he was put in charge of all petroleum-engineering functions for fields which Conoco operated in Central Montana, North Dakota and Wyoming. He managed product and drilling completion operations and installed the first steam flood for Conoco at its' Circle Ridge Field in Wyoming.

Millheim was transferred to Ponca City, Oklahoma to Production Research to work in the area of reservoir simulation and well testing. He participated in Conoco's first major reservoir simulation project on Libya oil reservoirs owned by Oasis Oil Co. He developed Conoco's first school for pressure transient analysis and wrote Conoco's first handbook for well testing and it was during this period that Millheim was on the acquisition team for Delhi-Taylor gas properties in New Mexico where he developed the first approach to analyzing hydraulic fractured natural gas wells.

CAREER ENGINEERING SKILLS AND EXPERIENCE

- Production engineering (fracturing, waterflooding, drilling, process design)

- Computer modeling and reservoir analysis
- Pressure transient analysis, log interpretation, core analysis
- Wire line operations (testing, manipulation down hole tools, etc.)
- Extensive on and offshore drilling experience
- Extensive logistical skills for remote drilling and geophysical operations
- Hydraulic fracturing design, implementation and evaluation
- Mining engineering (continuous coring, mining extraction both under ground and surface, ore processing, mine evaluation. Hands on experience with explosives.
- Geochemistry experience with hydrocarbons and minerals surveys and analysis
- Basic understanding of geophysical prospecting methods and analysis
- Extensive directional drilling skills
- Extensive drilling supervision skills (drilling foreman and drilling superintendent)
- Finite element analysis for tubulars and solids
- Drilling analytic expertise
- Simulation development expertise for drilling (either developed or led the development of over 30 drilling algorithms)
- Satellite communication expertise (extensive video conferencing experience)
- Training simulation expertise (aerospace, marine, military, nuclear power plant)
- Arctic offshore drilling experience
- Helicopter experience for remote location operations
- Extensive team building and supervision experience
- Research supervision and management (laboratory and analytical)
- Extensive slimhole drilling troublesome salt and shales
- Developed industrial training schools for pressure transient analysis, directional drilling, general drilling practices, duration control, drilling troublesome salts and shales, technology of doing technology
- Systems thinking, training, research, and application to strategic planning
- Systems dynamics modeling and analysis
- Strategic planning training and facilitation

PLACES WORKED WITH KNOWLEDGE OF AREA, GEOLOGY, AND OPERATIONAL CONDITIONS

Australia: Western Australia, Queensland, South Australia, New South Wales, Victoria. Papua and Gulf of Papua, Timor. Canada: Alberta. Middle East: Dubai, Egypt, Libya, Iran. Europe: U.K., North Sea, Norwegian North Sea, Netherlands, Austria, Germany, Romania, Yugoslavia. South America: Brazil, Argentina, Venezuela. United States: Texas (South and West Texas), Louisiana, Oklahoma, Colorado, Wyoming, Montana, Utah, New Mexico, Ohio, West Virginia, Alaska, North Dakota, Gulf of Mexico, Offshore California.

PUBLICATIONS:

Books:

Boorgoyne A.T., Millheim K.K., Chenevert M.E., Young Jr., F.S. APPLIED DRILLING ENGINEERING, Society of Petroleum Engineers, Richardson, Texas, 1986

Articles and Papers:

1. Millheim, K. K., Kadaster, Ali G., Onshore Mobile Platform: A Modular Platform for Drilling and Production Operations in Remote and Environmentally Sensitive Areas. Annual IADC/SPE Meeting in Dallas, March 2-4, 2004, IADC/SPE Preprint 87140.
2. Millheim, K.K., Iyoho, A.W., Virginillo, B.K., Adeleye A.R., Crumrine, M.J. Methodology and Benefits of a Drilling Analysis Paradigm, Annual IADC/SPE meeting in Dallas, March 2-4, 2004. IADC/SPE Preprint 87121
3. Millheim, K.K., Gault, Allen Reducing Deepwater Finding Costs with Systemic Approach to Multi-well Projects. Offshore, August 2003, pgs 80-83
4. Millheim. K.K., Proactively Managed Drilling Operations Optimize Company Performance, Oil and Gas Journal, Sept. 17, 2001, pg 71-77
5. Millheim, K.K., Gabler, T., Virtual Experience Simulation for Drilling - The Concept, Annual SPE/IADC Drilling Conference held in Amsterdam, Holland, March 9-14, 1999, SPE/IADC Preprint 52803
6. Millheim, K.K., Maidla E. Kravis, J., An Example of the Drilling Analysis Process for Extended Reach Wells, SPE Annual Meeting, New Orleans, 1998, SPE Preprint 49111
7. Millheim, K.K., Gabler, T., Data-Mineuts, Co. Modeling a Start-up Business, Annual System Dynamics Conference, Halifax, Quebec, 1998
8. Millheim, K.K. Thonhauser, G., Spoerker, H.F., The Applicability of Current Slimhole Hydraulics Algorithms Under Field Conditions – A Critical Review, IADC/SPE Asia Pacific Drilling Technology 1996, Kuala Lumpur, Malaysia, Sept. 1996, pp 45-55
9. Millheim, K.K., Prohaska, M., Thompson, B., Slim Hole Drilling Technology-Past, Present, Future, SPE 30151, Petro Vietnam 95, Ho Chi Minh City, March 1995
10. Millheim, K.K., Learning Curve Management – The Next Movement, 12th International Conference and Exhibition Stavanger, Norway 27-30 August 1996, Proceedings
11. Millheim, K.K., Inducing the Investigative Process, Journal of Petroleum Technology, Sept. 1991, pp 1132-1139.
12. Millheim, K.K., Gubler, F.H., Zarembo, H.B., Evaluating and Planning Directional Wells Utilizing Post Analysis Techniques and a Three Dimensional Bottom Hole Assembly Program, Directional Drilling (SPE Preprint Series No. 30), 1990, pp 18-
13. Millheim, K.K., Walker, S.H., An Innovative Approach to Exploration and Exploitation Drilling: The Slim-Hole High-Speed Drilling System, Journal of Petroleum Technology, Sept. 1990, pp 1184-1191.

14. Millheim, K.K., The New Engineering Paradigm and the Emergence of Investigative Engineering, Journal of Petroleum Technology, August, 1989, pp 788-794.
15. Millheim, K.K., The Role of the Simulator in Drilling Operations, SPE Drilling Engineering, Oct. 1986, pp 347-357
16. Millheim, K.K., Brett, J.F., The Drilling Performance Curve: A Yardstick for Judging Drilling Performance, 61st Annual SPE Technical Conference, New Orleans, Preprint No. SPE-15362, 1986.
17. Millheim, K.K., Zaremba, H.B., Amoco Production Company Navarin Basin, Bering Sea Alaska: 1985 Exploration Drilling Project Planning and Logistics, Arctic Offshore Technology Conference, Anchorage, Alaska, 1985.
18. Millheim, K.K., Advances in Drilling Technology (1981-1986) and Where Drilling Technology is Heading., SPE Petroleum Engineering International Meeting, Beijing, China, 1986, pp 493-506 (SPE-14070).
19. Millheim, K.K. Boykin, G.F., Zaremba, H.B., Optimizing Drilling in Navarin Basin, Ocean Industry, Vol. 21, No. 6, June, 1986, pp 39-40.
20. Millheim, K.K., Boykin, G.F., Zaremba, H.B., Case History: Designing and Implementing the Operations for Drilling in the Navarin Basin, Alaskan Bering Sea, IADC/SPE Drilling Conference, Dallas, Reprint No. IADC/SPE-14732, 1986, 17pp.
21. Millheim, K.K., Apostal, M.C., How BHA (Bottom Hole Assembly) Dynamics Affect Bit Trajectory, World Oil, Vol. 192, No. 5, May, 1981, pp 183-184, 189-190, 192, 197-198, 200, 205.
22. Millheim, K.K., Huggins, R.L., An Engineering Simulator for Drilling, Pt. 2, 58th Annual SPE of AIME Technical Conference, San Francisco, Preprint No. SPE-12210, 1983.
23. Millheim, K.K., Huggins, R.L., An Engineering Simulator for Drilling, Pt. 1, 58th Annual SPE of AIME Technical Conference, San Franzisko, Preprint No. SPE-12075, 1983.
24. Millheim, K.K., Directional Control with Regard to Telemetry, National Research Council Technology for Measurement While Drilling Symposium, Washington, D.C., 1982, Proceedings, pp 147-156.
25. Millheim, K.K., Tulga, S.S., Simulation of the Wellbore Hydraulics While Drilling, Including the Effects of Fluid Influxes and Losses and Pipe Washouts, 57th Annual SPE of AIME Fall Technical Conference, New Orleans, 1982.
26. Millheim, K.K., Advances in Directional Drilling and Deviation Control Technology, IADC/CAODC Drilling Technology Conference, Denver, 1979, Trans pp 1-18.

27. Millheim, K.K., Apostal, M.C., The Effect of Bottomhole Assembly Dynamics on the Trajectory of a Bit, Journal of Petroleum Technology, Dec., 1981, pp 23223-2338.
28. Millheim, K.K., Computer Simulation of the Directional Drilling Process, SPE of AIME International Petroleum Engineering Mtg., Beijing, China, 1982, Proc. Vol. 1, pp 483-496 (SPE-9990).
29. Millheim, K.K., Apostal, M.C., Bottom-Hole Assembly, Dynamics and Its Effect on the Bit's Trajectory, IADC/CAODC Drilling Technology Conference, Calgary, 1981, Trans pp 89-108.
30. Millheim, K.K., Advances in Directional Drilling and Deviation Technology Control, Canadian Petroleum, Vol. 21, No. 1, Jan. 1980, pp 34-36, 40.
31. Millheim, K.K., Gubler, F.H., Zaremba, H.B., Evaluating and Planning Directional Wells Utilizing Post Analysis Techniques and a Three Dimensional Bottom Hole Assembly Program, SPE (UK) LTD Europe Offshore Petroleum Conference, London, Prod. Vol. 1, 1978, pp 361-374 (EUR-45).
32. Millheim, K.K., Directional Drilling. Pt. 8 Conclusion: Hard-Formation Directional Drilling Calls for Special Care, Oil and Gas Journal, Vol. 77, No. 7, Feb. 12, 1979 pp 136, 138.
33. Millheim, K.K., Directional Drilling. Pt. 7 Control Techniques for Medium-Soft and Medium Formations, Oil and Gas Journal, Vol. 77, No. 5, Jan. 29, 1979, pp 178, 183-186.
34. Millheim, K.K., Directional Drilling. Pt. 6 Controlling Hole Direction in Very Soft Formations, Oil and Gas Journal, Vol. 77, No. 3, Jan. 15, 1979, pp 106-108.
35. Millheim, K.K., Directional Drilling. Pt. 5 Behavior of Multiple-Stabilizer Bottom-Hole Assemblies, Oil and Gas Journal, Vol. 77, No. 1 Jan. 1, 1979, pp 59-60.
36. Millheim, K.K., Directional Drilling. Pt. 4 Single-Stabilizer Behavior Described, Oil and Gas Journal, Vol. 76, No. 51, Dec. 18, 1978, pp 52-54, 59-61.
37. Millheim, K.K., Directional Drilling. Pt. 3 Here are Basics of Bottom-Hole Assembly Mechanics, Oil and Gas Journal, Vol. 76, No. 49, Dec. 4, 1978, pp 98, 100, 105-106
38. Millheim, K.K., Directional Drilling. Pt. 2 Proper Application of Directional Tools Key to Success, Oil and Gas Journal, Vol. 76, No. 45, Nov. 20, 1978, pp 156-158, 161-162, 165.
39. Millheim, K.K., Directional Drilling. Pt. 1 Operators Have Much to Learn About Directional Drilling, Oil and Gas Journal, Vol. 76, No. 45, Nov. 6, 1978, pp 62-64.
40. Millheim, K.K., Warren, T.M., Side Cutting Characteristics of Rock Bits and Stabilizers While Drilling, 53rd Annual SPE of AIME Fall Conference, Houston, Preprint No. SPE-7518, 1978.

41. Millheim, K.K., Jordan, S., Ritter, C.J., Bottom-Hole Assembly Analysis Using the Finite-Element Method, Journal of Petroleum Technology, Feb. 1978, pp 265-274.
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