

# Resume

## Mark Allen Herkommer

7201 FM 3081  
Willis, TX 77378

- Licensed Professional Geoscientist, License # 5024, [Texas Board of Professional Geoscientists](#)
- Author of more than 80 technical publications including a mathematics text book, numerous technical manuals and reports, peer-reviewed journal articles
- Extensive interdisciplinary geoscience experience in geomechanics, software engineering, and applied mathematics
- Management skills in operations, business and technical areas
- Excellent communication skills, both written and verbal
- Proven full life-cycle solution provider with an entrepreneurial spirit

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### Employment Summary

08/16 - present  
DATA & CONSULTANCY SERVICE LINE MANAGER  
Excellence Logging USA, Conroe Technology Center  
9780 Pozos Lane  
Conroe, TX 77303

12/15 – 07/16  
GEOPRESSURE TECHNOLOGY CONSULTANT  
Semicircle LLC  
9780 Pozos Lane  
Conroe, TX 77303

7/09 - 11/15  
GEOMECHANICS DOMAIN HEAD / DIRECTOR, GEOPRESSURE TECHNOLOGY CENTER  
Schlumberger Technology Company  
3600 Briarpark  
Houston, TX 77042

3/89 - 7/09

PRESIDENT / CEO

Petrospec Technologies (now Geoservices, a Schlumberger Company)

9780 Pozos Lane

Conroe, TX 77303

6/97 - 3/99

CONTINUING EDUCATION INSTRUCTOR

Richland College - Dallas County Community College District

12800 Abrams Road

Dallas, TX 75243

2/87 - 3/89

VICE PRESIDENT, SOFTWARE DEVELOPMENT

Petroleum Computing (now Jason, A CGG Company)

4925 Greenville Avenue, #600

Dallas, Texas 75206

7/84 - 2/87

MANAGER OF MAPPING AND IMAGE PROCESSING

Placid Oil Company, Exploration Department

3900 Thanksgiving Tower

Dallas, Texas 75201

## Education Summary

8/79 - 5/86

University of Texas at Dallas

Richardson, Texas 75080

Graduated 5/86, MASTER OF SCIENCE in APPLIED MATHEMATICS

8/74 - 4/79

Eastern Michigan University

Ypsilanti, Michigan 48197

Graduated 4/79, BACHELOR OF SCIENCE in GEOLOGY

## Personal

US Citizen, born in Detroit, Michigan; Married, Five children; Excellent health

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# *Curriculum Vitae*

## Mark Allen Herkommer

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### Employment - Detail

#### ***08/16 - present: Excellence Logging - Data & Consultancy Service Line Manager***

Mr. Herkommer continues his work on real-time GeoPressure and GeoMechanics (GPGM) surveillance to minimize drilling risk and non-productive time using his unique GPGM service deliver model. Mr. Herkommer's responsibilities include service line governance, new product development in real-time drilling geomechanics, and surface logging technology integration.

#### ***12/15 - 07/16: Semicircle LLC - Geopressure Technology Consultant***

Mr. Herkommer developed and integrated surface logging real-time pore pressure and geomechanics surveillance service framework. He developed tools for mining real-time data streams for the warning signs of impending well control issues. These indicators are used to update pre-drill and real-time pore pressure models.

#### ***7/09 - 11/15: Schlumberger - Geomechanics Domain Head***

After the successful development of three Geopressure Technology Centers (Houston, Paris, and Kuala Lumpur) Mr. Herkommer was repositioned as Geoservices' Geomechanics Domain Head. In this role, he developed technology integration plans to deploy the Schlumberger's Real-Time Drilling Geomechanics (RTDG) product offering. RTDG brings together real-time wellsite surveillance with RTO geomechanical surveillance.

#### ***7/09 - 11/15: Schlumberger - Director, Geopressure Technology Centers***

Following the successful acquisition of Petrospec Technologies by Geoservices, Mr. Herkommer was appointed head of the Geoservices' PreVue service.

***3/89 - 7/09: Petrospec Technologies (now Geoservices, a Schlumberger Company), President / CEO***

Mr. Herkommer designed, coded, and successfully introduced to market several software packages including EquiPoise - Geopressure Analysis and Detection Software, GeoPressure Estimation Software (GPES), pQube - Pore Pressure from Seismic, CoQube Coherency Analysis, Data Capture Software (DCS), and Mistie. These geology and drilling engineering data analysis programs were implemented on Intel, Sparc and VAXStation workstations using C/C++ for MS-Windows, Motif and VAX UIS graphics. Responsible for managing a group of 14 programmers on these projects.

Technical consulting projects included web page design using HTML and JavaScript, Y2K project design and coding, applications of geological and geophysical data processing techniques, map projection digitizing, pore pressure and fracture gradient prediction. Also, developed petrophysical database specifications using information engineering/CASE for Recall, Ingres, and Oracle Database systems.

Clients include Geoservices, Amoco Production Company, ARCO, Mobil Oil Co., Petroleum Computing, Occidental International Exploration and Production Company, Chevron Producing Services Inc., Zales Corporation, Weinman and Associates, Government of Canada, and others.

***6/97 - 3/99: Richland College, Continuing Education Instructor***

Taught beginning and advanced C/C++ classes in the Microcomputer Continuing Education Department on a part-time basis.

***2/87 - 3/89: Petroleum Computing (now Jason, A CGG Company), Vice President, Software Development***

Successfully managed and coded large-scale petrophysical data analysis software (PCI-LAS) in Intel x86 and MicroVAX workstation environments. Ported numerous MS-DOS applications from the VAX VMS environment. Developed a device independent graphics and hardcopy subsystem. Clients included Mobil Oil Co., Shell Oil Co., Sun Production Co., and others. Prepared work schedules for programming staff; managed productivity.

***7/84 - 2/87: Placid Oil Company, Manager of Mapping and Image Processing***

Drafted specifications, scheduled work for staff, and developed a mini/microcomputer based geoscientific workstation and database that integrated many aspects of geological data analysis including base mapping and contouring. Used as the Placid's standard mapping system.

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## Education - Detail

### ***University of Texas at Dallas, Graduated with MS (5/86)***

AWARDED the degree of MASTER OF SCIENCE in APPLIED MATHEMATICS with specialization in geological and geophysical applications. Performed research on surface modeling, seismic line depth data tying, and statistical analysis of sandstone grain sizes and textures. Computer systems used for software development include Prime (OS: PrimOS) and VAX (OS: BSD UNIX, VAX VMS).

As a master's level Sedimentology teaching assistant in the Geology Department, taught Sedimentology and Oceanography laboratory lessons to undergraduates.

### ***Eastern Michigan University, Graduated with BS (4/79)***

AWARDED the degree of BACHELOR OF SCIENCE in GEOLOGY; minor in MATHEMATICS. Emphasis in geological studies was in structural geology and computer assisted cartography.

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## Computer Language Experience

C/C++, JavaScript, FORTRAN, and BASIC are native programming languages and have a working knowledge of Pascal, COBOL, and 8088/86 Macro-assembler. Have developed applications on MS-Windows w/ MFC, MS-DOS, UNIX, and X-Windows and other operating environments.

Numerous applications originally written for mainframe environments have been modified, downscaled, and ported to the IBM PC. Many of the applications authored were written in multiple languages.

Peripherals used from applications, either by direct coding or interface libraries, include Versatec dot matrix B/W and Color plotters, Houston Instrument DMP plotters, Calcomp and Summagraphics digitizing tablets, and Tektronix Graphic terminals.

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## Professional Affiliations

### ***American Association of Petroleum Geologists***

1444 South Boulder Avenue

Tulsa, OK 74119-3604

Active Member / Computer Applications Committee Member, since 1980

***Society of Petroleum Engineers***

Richardson, Texas

Active Member, since 1999

***International Association for Mathematical Geosciences***

1930 Avenue A

Lawrence, Kansas 66044

Active Member, since 1982

***Computer Oriented Geological Society - Dallas Chapter***

Dallas, TX

Active Member

Conference Chairman for GEOTECH '90

Charter Member / Past President, since 1985

Other Affiliations

***San Jacinto County Republican Club***

Member, 1991 - 1999

Coldspring, TX 77331

***North College Park Homeowner's Association***

Past-President and Crime Watch Block Captain, 1991 - 1999

***University of Texas at Dallas Alumni Association***

Vice-Chairman, Board of Directors -- 1995 - 1997

Active Member, since 1993

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## Awards

***Listed in 2,000 Notable American Men, 1992***

American Biographical Institute, Raleigh, NC, 27622

***Listed in Who's Who among Young Americans, 1991***

American Biographical Institute, Raleigh, NC, 27622

***Vice-Presidents Certificate of Recognition, 1987***

for development of the Placid-Map Geological Workstation Environment

***Eastern Michigan University's "Student Leadership / Service Award" for work rendered while on the Student Senate; 12/78.***

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## References

Available upon request.

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## Publications

### Manuals, Reports, and Books

Herkommer, Mark A., 2017

Quantitative Fluorometric Analysis

Excellence Logging, Private Client Meetings, URTeC, Austin Convention Center, Austin, Texas

July 26, 2017

Herkommer, Mark A., 2017

Limits on the Accuracy of Pore Pressure Estimate by Analysis of Random Measurement Error and Means for Improvement

First EAGE Workshop on Pore Pressure Workshop, Pau, France

March 19 – 21, 2017

Herkommer, Mark A.; Smotherman, Blake; Sharma, Sachin; 2017

Repurposed Medical Fluorometers Provide a Fast and Low-Cost Means to Quantify Oil Shows at the Wellsite

London Petrophysical Society, New Technology Seminar; Burlington House, London

Tuesday 24th January 2017

Herkommer, Mark A., 2015

The Case for Porosity

Geopressure 2015: The Life History of a Well; Durham University, CeREES, Durham, UK

April 14-16, 2015

Herkommer, Mark A. 2016

Qubex-3D: GeoPressure – GeoMechanics analysis software manual for Qube Tech's 3-D seismic data processing software, Published by Semicircle LLC, 123pp, with figures.

Herkommer, Mark A., 2015

Patent Memo: Big Data Geomechanics, with figures. Published by Semicircle LLC

Herkommer, Mark A., 2014

Patent Memo: Polycrystalline Diamond Compact (PDC) Bit Drilling Exponent, with figures.  
Published by Schlumberger

Herkommer, Mark A., 2014  
Patent Memo: Normal Compaction Trends using Velocity Inversion Compensation, with figures.  
Published by Schlumberger

Herkommer, Mark A, 2014  
Editor: Schlumberger Geomechanics Community Newsletter (8 Editions)  
Contributed regularly in the "Geomechanics Technology Corner" and "Schlumberger  
Technology Onslaught" column. Topics included Bower's method NCT calibration, fracture  
gradient modeling, estimating shear velocity from interval velocity, and conference reviews.  
Published by Schlumberger

Herkommer, Mark A, 2012 - 2013  
EquiPoise Training Materials and Certification Standards. Published by Schlumberger

Herkommer, Mark A. 2010 - 2014  
EquiPoise User's Manual, A geopressure - geomechanics analysis software manual for real-time  
MWD/LWD data processing software, published by Schlumberger, ~400pp, with figures.

Herkommer, Mark A. 2000 - 2009  
EquiPoise User's Manual, A geopressure analysis software manual for Petrospec's real-time  
MWD/LWD data processing software, Published by Petrospec Technologies, 255pp, with  
figures.

Herkommer, Mark A., 1998  
Number Theory: A Programmer's Guide, A text book about efficient numerical methods in  
applied number theory and communications, McGraw-Hill Publishing Company, New York,  
425pp, with figures.

Herkommer, Mark A. 1998, 1999, 2003, 2007  
pQube, A geopressure analysis software manual for Petrospec's 3-D seismic data processing  
software, Published by Petrospec Technologies, 63pp, with figures.

Herkommer, Mark A. 1996, 1997  
CoQube, A coherency/continuity analysis software manual for Petrospec's 3-D seismic data  
processing software, Published by Petrospec Technologies, 31pp, with figures.

Herkommer, Mark A., 1991, 1993, 1996  
GeoPressure Estimation Software: User's Manual, A manual describing how to use GPES to  
perform geopressure analyses using petrophysical data, Published by Petrospec Technologies,  
178 pp, with figures.



Herkommer, Mark A. and Hess, Richard, 1994  
Personal Computer Mapping System User's Manual, A manual describing how to use Petrospec's Personal Computer Mapping System, with reference section and examples. Published by Petrospec Technologies, 480 pp, with figures.

Herkommer, Mark A., 1991  
GeoPressure Estimation Software: System Manual, A manual describing the architecture and system design of the GPES. Published by Petrospec Technologies, 136 pp.

Herkommer, Mark A., D 'Augustine, Jim M., 1991  
MobilGraph Log Analysis Interface Project, A report detailing the design specifications for a petrophysical database using a relational database model. Published by Mobil Exploration and Producing Services, Dallas, Texas, 300 pp.

Herkommer, Mark A., 1991  
An Introduction to DOS Workstations, Published by Dallas Computer Oriented Geological Society, Short Course, Part 2, 60 pp.

Herkommer, Mark A., 1987 - 1994  
Data Capture Software for Maps, A manual describing the installation and use of a computerized digitizing system for seismic data and geographic mapping. Functional components described included: digitizing, data merging, data splitting. Published by Petrospec Technologies, 168 pp.

Herkommer, Mark A., 1993 - 1994  
Data Capture Software for Logs, A manual describing the installation and use of a computerized digitizing system for petrophysical logs. Functional components described included: database functions, importing, editing, and outputting digitized data. Published by Petrospec Technologies, 130 pp.

Herkommer, Mark A., 1987 - 1991  
Mistie, A manual describing the installation and use of a computerized system for determining and resolving seismic line data intersection misties. Published by Petrospec Technologies, 45 pp.

Herkommer, Mark A., 1986  
Placid Map: User's Manual, A manual describing the installation and use of a computerized mapping and software system. Functional components included: database design, digitizing, and automated contour mapping. Published by Placid Oil Company, 320 pp.

## Journal & Magazine Articles

Ablard, P; Bell, C; Cook, D; Fornasier, I; Poyet, J.P.; Sharma, S; Haines, G; Herkommer, M. A;

McCarthy, K; Radakovic, M; and Umar, L, 2012  
The Expanding Role of Mud Logging, Oilfield Review, A Schlumberger Journal, Spring, 2012, pp  
24 - 41

Herkommer, Mark A, 2012  
Mud Logging's Contribution to Petrophysical Analysis, Guest Speaker, London Petrophysical  
Society, London, UK

Herkommer, Mark A, 2012  
The Ethics of Pore Pressure Prediction, at SPE Conference on Geopressure Assessment and Its  
Impact On Wellbore Construction (February, 2012), Phuket, Thailand

Herkommer, Mark A, 2011  
Distinguishing Between Influx and Wellbore Breathing, Guest Speaker, London Petrophysical  
Society, London, UK

Herkommer, Mark A, 2005  
Online Pore Pressure and Fracture Gradient Tools: Natural Gas Density, Rectangular Coordinate  
Transformation, Digitize Graphic Images; [http://www.petrospec-  
technologies.com/resource/tools.htm](http://www.petrospec-technologies.com/resource/tools.htm)

Herkommer, Mark A, 2003  
Online Pore Pressure and Fracture Gradient Tools: Overburden Gradient, Eaton Exponent,  
Normal Compaction Trend Equation, Pore Pressure and Fracture Gradient;  
<http://www.petrospec-technologies.com/resource/tools.htm>

Herkommer, Mark A., 2000  
Velocity Inversion Compensation: A Methodology Enhancement, Overpressure 2000  
Conference Proceedings, Overpressure 2000 Workshop, April 2000, London England

Herkommer, Mark A., 1999  
Abnormal Formation Pressure: Theory, Prediction, and Estimation, in Conference Proceedings,  
Geopressure Estimation '99 Conference, October, 1999

Herkommer, Mark A., 1997  
Consulting in Today's Energy Industry, in Tidbytes, Computer Oriented Geological Society, Vol.  
13, No. 4 (November)

Herkommer, Mark A., 1995  
Cartography and Computer Mapping, in Personal Computers and Geology, AAPG Southwest  
Section Short Course Notes, June 4, 1995, Dallas, Texas

Herkommer, Mark A., 1995  
Issues Confronting Richardson, An analysis of statistical data and identification of areas where

Richardson city government could improve the quality of service provided. 20pp, with figures,  
Published by the New Metro Institute, Richardson, TX

Herkommer, Mark A., Whitney, Paul D., 1994  
Minimizing Misties in Seismic Data, Computers & Geosciences, Pergamon Press, V. 20, No. 5, pp  
767 - 795

Smith, Tom, and Herkommer, Mark A., 1994  
Software Merges Interpretation Mapping with PC Workstations, The American Oil & Gas  
Reporter, July, 1994, pp 55 - 60

Herkommer, Mark A., 1994  
ZMAP Plus Under MS-Windows: The Advantages of a GUI, Dallas Geophysical Society Personal  
Computer Symposium (Invited Speaker), Conference Proceedings, February 24, 1994; also in  
Computer Oriented Geological Society, Tidbytes Newsletter, V. 9, No. 11 (May, 1994)

Herkommer, Mark A., 1993  
How Gas Buoyancy Creates Shallow-Zone Geopressures, World Oil, Gulf Publishing Company,  
October, 1993, pp 64 - 66

Hess, Richard, and Herkommer, Mark A., 1993  
General Principles, Efficient Approaches to Computer Contour Mapping, Earth Observation  
Magazine, April, 1993, pp 46 - 49

Proehl, T. S; Onyia, E. C.; Herkommer, Mark A., 1992  
Assessing the Productivity and Economic Impact of Geopressure Evaluation Software, Society of  
Petroleum Engineers Petroleum Computer Conference, July 19-22, 1992, Houston, Texas,  
Conference Proceedings, SPE Paper 24447, pp 231 - 239

Herkommer, Mark A., 1992  
Geological Career Options in the 90's, Dallas Geological Society Employment Seminar, Seminar  
Notes, May 11, 1992

Herkommer, Mark A., 1992  
Pressure Estimation Results in Better Well Control, The American Oil and Gas Reporter, April,  
1992, pp 36 - 40

Herkommer, Mark A., 1991  
Computer Assisted Analysis of Pore Pressures in Overpressured Formations, Computer Oriented  
Geological Society, Tidbytes Newsletter, V. 6, No. 4 (December, 1991)

Herkommer, Mark A., 1991  
Using a Computer to Assisted Analysis of Pore Pressures in Overpressured Formations,  
Petroleum Engineering Seminar Abstracts, November, 1991, University of Texas, Austin, Texas

Herkommer, Mark A., 1990  
An Industry Standard Well Log Database Interface, Transactions, Computer Oriented Geological Society Geotech '90

Waller, Harry O.; Guinn, Don O.; Herkommer, Mark A.; Shaw, Brian R.; 1990  
Exchange Format for Transfer of Geologic and Petroleum Data: AAPG-B, AAPG Bulletin, V. 74, No. 4, pp 787

Waller, Harry O.; Guinn, Don O.; Herkommer, Mark A.; Shaw, Brian R.; 1990  
Exchange Format for Transfer of Geologic and Petroleum Data: AAPG-B, Geobyte, April, 1990, V. 5, No 2, pp 11 - 21

Herkommer, Mark A., 1990  
Exchange Format for Transfer of Geologic and Petroleum Data: AAPG-A: Discussion, AAPG Bulletin, V. 74, No. 1, pp 95 - 96

Herkommer, Mark A., 1989  
Computer Mapping Options, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 5, No. 4 (December, 1989)

Herkommer, Mark A., 1989  
Principles of Computer Mapping Seminar, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 4, No. 5 (January, 1989)

Herkommer, Mark A., 1989  
Automatic Screen Dumps from a BASIC Program and DOS, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 4, No. 5 (January, 1989)

Herkommer, Mark A., 1988  
Computer Mapping in a Microcomputer Workstation Environment, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 4, No. 4 (December, 1988)

Herkommer, Mark A., 1988  
Methods for Developing Benchmarking Data Sets; Computers & Geosciences, Pergamon Press, V. 14, No. 2, pp 139 - 150

Herkommer, Mark A., 1987  
Contour Mapping using a Microcomputer, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 3, No. 4 (December, 1987)

Herkommer, Mark A., 1987  
Using the ANSI.SYS Device Driver, Dallas Computer Oriented Geological Society, Tidbytes Newsletter, V. 3, No. 3 (November, 1987)

Herkommer, Mark A., 1986

Techniques Devised to Improve Contour Mapping by Microcomputer; Geobyte V. 1, No. 2, (Spring, 1986), pp 38 - 41

Herkommer, Mark A., 1985

Data-Volume Reduction of Data Gathered Along Lines Using the Correlation Coefficient to Determine Breakpoints; Computers & Geosciences, Pergamon Press, V. 11, No. 2, pp 103 - 110

Herkommer, Mark A., 1985

A Digitizing Tablet for the Masses, Texas Computer Market, March 1, 1985, pp 12 - 14

Herkommer, Mark A., 1984

Graphics Using a Microcomputer, in Microcomputers in Petroleum Exploration and Production, PETRO-PC '84 Conference, Institute for the Study of Earth and Man, Southern Methodist University, Dallas, Texas

Herkommer, Mark A., 1984

Contour Mapping Using a Microcomputer, in Microcomputers in Petroleum Exploration and Production, PETRO-PC '84 Conference, Institute for the Study of Earth and Man, Southern Methodist University, Dallas, Texas

Herkommer, Mark A., 1984

A PC Pen Plotter; PC Magazine, V. 3 No. 10, pp 383 - 385

Herkommer, Mark A., 1984

Contour Mapping Using a Microcomputer: Techniques for Improving Throughput; CPS-1 Users Conference Transactions, Radian Corporation, Austin, Texas

Herkommer, Mark A., 1984

Contour Mapping Using a Microcomputer: Techniques for Improving Throughput; AAPG Bulletin, V. 68, No. 4, pg 496 (abstract only; paper presented at AAPG 1984 annual meeting)

Herkommer, Mark A., 1984

Contour Mapping Using a Microcomputer: Techniques for Improving Throughput; in Transactions of the 34th Annual Meeting, Gulf Coast Association of Geological Societies, Shreveport, Louisiana, (poster session), pp 471

Herkommer, Mark A., 1984

A Gridding Algorithm designed for Digitized Contours, The Right Stuff: High-Tech Review, V. 1, No. 1, pp 22-23

Herkommer, Mark A.; Denke, Garry W., 1982

Stratigraphy and Hydrocarbons, Parker County, Texas; in Petroleum Geology in the Fort Worth

Basin Area, Texas; Charles Martin, Ed., Dallas Geological Society, Dallas, Texas, pp 97 - 128.

## Digital Software and Digital Articles

Herkommer, Mark A., 1990

DIGIT, A Map Digitizing Program for Determining XY Coordinates from Paper Maps, Dallas Computer Oriented Geological Society, Dallas, TX, Disk #8

Herkommer, Mark A., 1984

PEEKPOKE.DOC, Peek and Poke -- Method for Accessing System Services on a PC from BASIC, I. B. Magazette, V. 3.7

Herkommer, Mark A., 1984

MEGAMULT.BAS, A Utility Program for Multiplying Extremely Large Numbers Together, I. B. Magazette, V. 3.5

Herkommer, Mark A., 1984

DEMO PLOT.BAS, Raster to Vector Conversion Program for Epson Printers, I. B. Magazette, V. 3.2

Herkommer, Mark A., 1983

REGRESS.BAS, Interactive Regression Analysis for XY Data, I. B. Magazette, V. 2.3

Herkommer, Mark A., 1983

GRID2CON, A Gridding and Contouring Program, Computer Oriented Geological Society, Denver, CO, Disk #2

## Non-Traditional and Graphic Art

Herkommer, Mark A., 1993

MATHEMATICS, A book cover with arithmetic nomographs, rulers, geometric formulas, conversion factors, alphanumeric code and clever quips, published by Walraven Book Cover Company, Richardson, Texas. Distributed in the Richardson Independent School District.

Herkommer, Mark A., 1992

The Pore Pressure Calculator, A two-sided slide chart used for determining abnormal formation pressures (pounds per gallon) using resistivity (ohmm) and interval transit time data (msec/ft). Conversion factors for pore pressure units on the reverse side. Published by Petrospec Technologies, Richardson, Texas. Distributed as promotional material at trade shows.