

**KANSAS GEOLOGICAL SURVEY  
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**Bibliography for Estimation of Natural Gas Reserves**

by

**Eugene Stephenson**

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BIBLIOGRAPHY  
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- SECTION A ---- Properties of Reservoir Rocks
- " B ---- Reservoir Fluids
- " C ---- Well Tests
- " D ---- Estimation of Reserves
- " E ---- Electrical and Other Special Types of Logs

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The titles to the publications with their corresponding abbreviations are as follow:

- American Gas Association - AGA
- American Petroleum Institute - API Drilling and Production Practice - APIDPP
- Bull. American Association of Petroleum Geologists - Bull. AAPG
- Bull. United States Geological Survey - Bull. USGS
- Geophysical Monographs, Geological Society of America - GSA
- Journal American Ceramic Society - JACS
- Journal American Chemical Society - JACS
- Journal of Applied Mechanics - JAM
- Journal of Applied Physics - JAP
- Journal of Industrial and Engineering Chemistry - JIEC
- Journal of Institute of Petroleum Technology - JIPT
- Journal of Petroleum Technology - JPT
- Missouri Bureau of Geology and Mines - MoBGM
- National Petroleum News - NPN
- Oil and Gas Journal - OGJ
- Oil Weekly - OW
- Pennsylvania State College of Mineral Industries - PSCMI
- Petroleum Development and Technology - PDT
- Petroleum Engineer - PE
- Petroleum Technology - PT
- Physics - Ph
- Proceedings Natural Gas Association - PNGA
- Proceedings World Petroleum Congress - FWPC
- Producers Monthly - PM
- Refiner and Natural Gasoline Manufacturer - RNCM
- Society of Exploration Geophysicists - SEG
- Society of Petroleum Engineers of AIME - SPEAIME
- Technical Paper, AIME - TPAIME
- Texas Engineering Experiment Station - TEES
- Transactions American Institute Mining Engineers - TransAIME
- Transactions American Society Mechanical Engineers - TransASME
- United States Bureau of Mines - USEM or Bull. USEM
- United States Bureau of Mines, Reports of Investigations - USEMRI
- United States Bureau of Mines Technical Paper - USEMTP
- World Oil - WO

Note: An asterisk (\*) after any reference number signifies that the reference is particularly important.

- A-1 APIDPP. Standard Procedure for Determining Permeability of Porous Media. DFP 1935 (1936) p.267.
- A-2 Archie, G.E. Classification of Carbonate Reservoir Rocks and Petrophysical Considerations. Bull.AAPG Vol. 36, No. 2, Feb. (1952) p.278.
- A-3 Archie, G.E. Electrical Resistivity as an Aid in Core Analysis Determination. Bull.AAPG Vol. 31, No. 2, Feb. (1947) p.350.
- A-4 Archie, G.E. Introduction to Petrophysics of Reservoir Rocks. Bull.AAPG Vol. 34, No. 5, May (1950) p.943.
- A-5 Athy, L.F. Density, Porosity, and Compaction of Sedimentary Rocks. Bull. AAPG Vol. 14 (1930) p.13.
- A-6 Barb, C.F. Porosity-Permeability Relations in Appalachian Oil Sands. PSCMI Bull. 9 (1930) p.47.
- A-7 Barb, C.F., and Branson, E.M. Fluid Flow Through Oil Sands. JIPT Vol. 8 (1931) p.325.
- A-8 Barnes, K.B. Method for Determining the Effective Porosity of Reservoir Rocks. PSCMI Bull.10 (1931).
- A-8a Barnes, K.B. Porosity and Saturation Methods. APIDPP (1936) P.191.
- A-9 Barnes, K.B., Fancher, G.H., and Lewis, J.A. Physical Tests and Properties of Oil and Gas Sands. PWPC Vol.I (1933) p.322. Also JIEC Vol.25 (1933) p.1139.
- A-10 Barnes, K.B., Fancher, Geo. H., and Lewis, J.A. Some Physical Characteristics of Oil Sands. PSCMI Bull.12 (1933) p.65.
- A-11 Beecher, M.F. Water Saturation Methods of Porosity Measurement. TransACS Bull.17 (1915) p.102.
- A-12 Beeson, Carrol M. The Kobe Porosimeter and the Oilwell Research Porosimeter. TransAIME Vol.189 (1950) p.313.
- A-13 Beeson, Carrol M., and Johnston, Norris. Core Analysis Based on Vacuum Distillation. TransAIME Vol.165 (1946) p.116.
- A-14 Botset, H.G., Wyckoff, R.D., Muskat, M., and Reed, D.W. Measurement of Permeability of Porous Media. Bull.AAPG Vol.18 (1934) p.161.
- A-15 Boucher, F.G., Hildenbrandt, A.B., and Hagen, H.B. New Dip-Logging Method. Bull.AAPG Vol.34, No. 10, Oct. (1950) p.2007.
- A-16 Brankstone, H.R., Gealy, W.B., and Smith, W.O. Improved Technique for Determination of Densities and Porosities. Bull.AAPG Vol.16 (1932) p.915.
- A-17 Branson, E.R., and Barb, C.F. Fluid Flow Through Oil Sands. JIPT Vol.8 (1931) p.325.
- A-18 Brooks, C.S. An Evaluation of the Procedures Used in the Determination of the Grain Densities of Petroleum Reservoirs. TransAIME Vol.210 (1957) p.235.

- A-19 Brooks, G.S. A New Boyle's Law Porosimeter. TransAIME Vol. 210 (1957) p.241.
- A-20 Bulnes, A.C., and Fitting, R.U. Jr. An Introductory Discussion of the Reservoir Performance of Limestone Formations. TransAIME Vol. 160 (1945) p.179.
- A-21 Bunting, E.N., and Washburn, E.W. Determination of Porosity by the Method of Gas Expansion. JACS Vol. 5, Feb. (1922) p.112.
- A-22 Bunting, E.N., and Washburn, E.W. The Determination of the Porosity of Highly Vitriified Bodies. JACS Vol. 5 (1922) p.527.
- A-23 Bunting, E.N., and Washburn, E.W. Recommended Procedure for Determining Porosity by Methods of Absorption. JACS Vol. 5, Jan. (1922) p.48.
- A-24 Calhoun, J.C., Lewis, M., and Newman, R.C. Experiments on the Capillary Properties of Porous Solids. TransAIME Vol. 186 (1949) p.189.
- A-25 Coberly, C.J., and Stevens, A.B. Development of Hydrogen Porosimeter. TransAIME Vol.103 (1933) p.261. Also OW Vol.68, Jan. 23 (1933) p.17.
- A-26 Copeland, W.A., and Fettke, C.R. Permeability Studies of Pennsylvania Oil Sands. PDTAIME (1931) p.329.
- A-27 Cornell, David. Permeability Determined from Production Data. WO Vol.136, No. 2 (1953) p.186.
- A-28 Dewees, E.J., Johnson, T.W., and Taliaferro, D.B. A Method for Determining Porosity. USEMRI 3352 (1937).
- A-29 Doll, H.G. Filtrate Invasion Process in High Permeability Sands. PE Vol.27, No. 1, Jan. (1955) p. B-53.
- A-30 Dyes, A.B., Miller, C.C., and Hutchinson, C.A. Jr. Estimation of Permeability and Reservoir Pressure from Bottom-hole Pressure Build-up Characteristics. TransAIME Vol.189 (1950) p.91.
- A-31 OGT. Engineering Fundamentals Manual.
- A-32 Fancher, G.H., Lewis, J.A., and Barnes, K.B. Physical Tests and Properties of Oil and Gas Sands. FWPC Vol.I (1933) p.322. Also JIEC Vol.25 (1933) p.1139.
- A-33 Fancher, Geo. H., Lewis, J.A., and Barnes, K.B. Some Physical Characteristics of Oil Sands. PSCMI Bull.12 (1933) p.65.
- A-34 Fettke, C.R. Core Studies of the Second Venango Sand of the Venango Group from Oil City, Penna. PDTAIME (1926) p.219.
- A-35 Fettke, C.R., and Copeland, W.A. Permeability Studies of Pennsylvania Oil Sands. PDTAIME (1931) p.329.
- A-36 Fettke, C.R., and Mayne, R.D. Permeability Studies of Bradford Sand. NPN July 23 (1930) p.61.
- A-37 Fitting, R.U., Jr., and Bulnes, A.C. An Introductory Discussion of the Reservoir Performance of Limestone Formations. TransAIME Vol.160 (1945) p.179.
- A-38 Gealy, W.B. Use of Mercury for Determination of Volume of Rock Specimens in Russell Porosity Apparatus. Bull.AAPG Vol.13 (1929) p.677.

- A-39 Gealy, W.B., Brankstone, H.R., and Smith, W.O. Improved Technique for Determination of Densities and Porosities. Bull.AAPG Vol.16 (1932) p.915.
- A-40 Griffiths, John C. Grain Size Distribution and Reservoir Rocks Characteristics. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.205.
- A-41 Hagen, H.B., Boucher, F.G., and Hildenrandt, A.B. New Dip-Logging Method. Bull.AAPG Vol.34, No. 10, Oct. (1950) p.2007.
- A-42 Hamontre, A.C., Rall, Cleo G., and Taliaferro, D.B. Determination of Porosity by a Bureau of Mines Method. A List of Porosities of Oil Sands. USEMRI 5025 (1954).
- A-43 Hassler, G.L., and Brunner, E. Measurement of Capillary Pressures in Small Core Samples. TransAIME Vol.160 (1945) p.114.
- A-44 Horner, W.L. Core Analyses. OW Vol.81, June (1936) p.31.
- A-45 Horner, W.L. A Rapid Method for Determination of Permeabilities of Consolidated Rock. PE Vol. 5, May (1934) p.25.
- A-46 Howe, W.L., and Hudson, C.J. Studies in Porosity and Permeability. JACS Vol.10 (1927) p.443.
- A-47 Johnson, T.W., Taliaferro, D.B., and Dewees, E.J. A Method for Determining Porosity. USEMRI 3352 (1937).
- A-48 Johnston, Norris, and Beeson, Carrol M. Core Analysis Based on Vacuum Distillation. TransAIME Vol.165 (1946) p.116.
- A-49 Jones, Park J. Electric Log Resistivity, Porosity, and Water Saturation for Clean and Shaly Sandstones. WO Vol.132, No. 2, Feb. (1951) p.140.
- A-50 Klep, John. Coring and Its Application to Petroleum Prospecting. PE Vol. VIII, No. 5 (1937) p.162.
- A-51 Klinkenberg, L.J. The Permeability of Porous Media to Liquids and Gases. APIDFP (1941) p.200.
- A-52 Law, J. A Statistical Approach to the Interstitial Heterogeneity of Sand Reservoirs. TransAIME Vol.155 (1944) p.202.
- A-53 Lewis, J.A., Fancher, G.H., and Barnes, K.B. Physical Tests and Properties of Oil and Gas Sands. WPC Vol.I (1933) p.322. Also JIEC Vol.25 (1933) p.1139.
- A-54 Lewis, J.A., Fancher, Geo. H., and Barnes, K.B. Some Physical Characteristics of Oil Sands. PSCMI Bull.12 (1933) p.65.
- A-55 Lewis, M., Newman, R.C., and Calhoun, J.C. Experiments on the Capillary Properties of Porous Solids. TransAIME Vol.186 (1949) p.189.
- A-56 Masson, P.H., Winsauer, W.O., Shearin, H.M., and Williams, M. Resistivity of Brine Saturated Sands in Relation to Pore Geometry. Bull.AAPG Vol.36 No. 2, Feb. (1952) p.253.

A-49a. Katz, D.L., Turner, C.E., Grimm, R.D., Elenbaas, J.R., and Vary, J.A. Sample Grading Method of Estimating Gas Reserves. Trans. AIME Vol.195;207 (1952)

- A-57 Mayne, R.D., and Fettke, C.R. Permeability Studies of Bradford Sand. NPN July 23 (1930) p.61.
- A-58 Melcher, A.F. Determination of Pore Space of Oil and Gas Sands. TransAIME Vol.65 (1921) p.469.
- A-59 Melcher, A.F. Texture of Oil Sands with Relation to the Production of Oil. Bull.AAPG Vol.VIII, No. 6 (1924) p.716.
- A-60 Muskat, Morris, and Botset, H.G. Flow of Gas Through Porous Materials. Ph Vol.1 (1931) p.27.
- A-61 Muskat, M., Wyckoff, R.D., Botset, H.G., and Reed, D.W. Measurement of Permeability of Porous Media. Bull.AAPG Vol.18 (1934) p.161.
- A-62 Nevin, C.M. Permeability. Its Measurement and Value. Bull.AAPG Vol.16, (1932)p.373.
- A-63 Newman, R.C., Calhoun, J.C., and Lewis, M. Experiments on the Capillary Properties of Porous Solids. TransAIME Vol.186 (1949) p.189.
- A-64 Nutting, P.G. Physical Analysis of Oil Sands. Bull.AAPG Vol.14 (1930) p.1342.
- A-65 Phillippi, Paul, M. A Review of Porosity and Methods for its Determination. PE Vol.XV, No. 10 (Reference Annual) (1944) p.81.
- A-66 Pirson, S.J., and Wright, T.R. Porosity-Profile Determination from Electric Logs. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.299.
- A-67 Pollard, T.A., and Reichertz, Paul P. Core Analysis Practices - Basic Methods and New Developments. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.230.
- A-68 Pyle, H.C., and Sherborne, J.E. Core Analysis. TransAIME Vol.132 (1939) p.89.
- A-69 Rall, Cleo G., Hamontre, A.C., and Taliaferro, D.B. Determination of Porosity by a Bureau of Mines Method. A List of Porosities of Oil Sands. USBMRI 5025 (1954).
- A-70 Reed, D.W., Wyckoff, R.D., Muskat, M., and Botset, H.G. Measurement of Permeability of Porous Media. Bull.AAPG Vol.18 (1934) p.161.
- A-71 Reichertz, Paul P., and Pollard, T.A. Core Analysis Practices - Basic Methods and New Developments. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.230.
- A-72 Rose, Walter D., and Wyllie, M.R. Some Theoretical Considerations Related to Quantitative Evaluation of Physical Characteristics of Reservoir Rock from Electric Log Data. TransAIME Vol.189 (1950) p.105.
- A-73 Rose, Walter D., and Wyllie, R.J. Specific Surface Areas and Porosities from Photomicrographs. Bull.AAPG Vol. 34, No. 8, Aug. (1950) p.1748.
- A-74 Russell, Wm. L. A New Instrument for Measuring Bulk and Grain Volumes. JPT Vol. 9, No. 7, July (1957) p.51.
- A-75 Russell, W.L. A Quick Method for Determining Porosity. Bull. AAPG Vol. X, No. 10, (1926) p.931.

- A-76 Schriever, W. Law of Flow for the Passage of Gas Free Liquid Through a Spherical Grained Sand. *PDPAIME* (1930) p.329.
- A-77 Sherborne, J.E., and Pyle, H.C. Core Analysis. *TransAIME* Vol.132 (1939) p.89.
- A-78 Schlichter, C.S. Investigation of the Motion of Ground Waters. *U.S.Geol.Surv.* 19th Ann.Rept. (1899) Pt. II, 295.
- A-79 Smith, W.O., Brankstone, H.R., and Gealy, W.B. Improved Technique for Determination of Densities and Porosities. *Bull.AAPG* Vol.16 (1932) p.915.
- A-80 Stevens, A.B. A New Device for Determining Porosity by the Gas Expansion Method. *TPAIME* 1061, May (1939).
- A-81 Stevens, A.B., and Coberly, C.J. Development of Hydrogen Porosimeter. *TransAIME* Vol.103 (1933) p.261. Also *OW* Vol.68, Jan. 23 (1933) p.17.
- A-82 Stewart, F.M., and Guerrero, E.T. How to Determine Effective Porosity. *OGJ* Vol.56, Nos. 43,47,51 (1958) and Vol.57, Jan. (1959) p.108.
- A-83 Suman, John R. Drilling, Testing and Completion. *Elements of the Petroleum Industry.* AIME Seeley W. Mudd Series (1940) p.160.
- A-84 Sutton, Chase. E. Use of Acetylene Tetrachloride Method of Porosity Determination in Petroleum Engineering Field Studies. *USBMRI* 2876 (1928).
- A-85 Taliaferro, D.B., Johnson, T.W., and Dewees, E.J. A Method for Determining Porosity. *USBMRI* 3352 (1937).
- A-86 Taliaferro, D.B., Rall, Cleo G., and Hamontre, A.C. Determination of Porosity by a Bureau of Mines Method. *A List of Porosities of Oil Sands.* *USBMRI* 5025, (1954).
- A-87 Tickell, F.G. *The Examination of Fragmental Rocks.* Stanford University Press. (1931).
- A-88 Van Ostrand, C.E. Temperature Gradients. *AAPG. Problems of Petroleum Geology* (1934) p.989.
- A-89 Washburn, E.W., and Bunting, E.N. The Determination of the Porosity of Highly Vitriified Bodies. *JACS* Vol.5 (1922) p.527.
- A-90 Washburn, E.W., and Bunting, E.N. Recommended Procedure for Determining Porosity by Methods of Absorption. *JACS* Vol.5, Jan. (1922) p.48.
- A-91 Wright, T.R., and Pirson, S.J. Porosity - Profile Determination from Electric Logs. *Bull.AAPG* Vol.36, No. 2, Feb. (1952) p.299.
- A-92 Wyckoff, R.D., Botset, H.G., Muskat, M. and Reed, D.W. Measurement of Permeability of Porous Media. *Bull.AAPG* Vol.18 (1934) p.161.
- A-93 Wyllie, M.R., and Rose, Walter D. Some Theoretical Considerations Related to Quantitative Evaluation of Physical Characteristics of Reservoir Rock from Electrical Log Data. *TransAIME* Vol.169 (1950) p.105. Also *JPT* Vol.2, Nov. 4, April (1950) p.105.
- A-94 Wyllie, M.R.J., and Rose, Walter D. Specific Surface Areas and Porosities from Photomicrographs. *Bull.AAPG* Vol.34, No. 4, Aug. (1950) p.1748.

- B-1 Allen, F.H., and Roe, R.P. Performance Characteristics of a Volumetric Condensate Reservoir. TransAIME Vol. 189 (1950) p.83.
- B-2 Aronofsky, J.S., and Jenkins, R. A Simplified Analysis of Unsteady Radial Gas Flow. TransAIME Vol. 201 (1954) p.149.
- B-3 Aronofsky, J.S., and Porter, J.D. Unsteady Radial Flow of Gas through Porous Media; Variable Viscosity and Compressibility. JAM Vol. 23 (1956) p.128.
- B-4 Bailey, C.R., Bilhartz, H.L., Dunlap, H.F., and Schuler, Ellis. The Relation Between Electrical Resistivity and Brine Saturation in Reservoir Rocks. TransAIME Vol. 186 (1949) p.259.
- B-5 Barb, C.F., and Branson, E.R. Fluid Flow Through Oil Sands. JIPT Vol. 8 (1931) p. 325.
- B-6 Barnes, K.B. An Improved Design of Retort Equipment for Saturation Tests. API Bull. 226, Nov. (1940) p.133.
- B-7 Beal, C. The Viscosity of Air, Water, Natural Gas, Crude Oil and its Associated Gases at Oil Field Temperatures and Pressures. TransAIME Vol. 165 (1946) p.94.
- B-8 Beecher, C.E., and Parkhurst, I.P. Effect of Dissolved Gas Upon the Viscosity and Surface Tension of Crude Oil. TransAIME PDT (1926) p.51. (Also listed as Vol.G25).
- B-9 Bertuzzi, A.F., Davis, P.C., Gore, T.L., and Kurata, Fred. The Phase and Volumetric Behavior of Natural Gases at Low Temperatures and High Pressures. TransAIME Vol. 201 (1954) p.245.
- B-10 Berwald, W.B., and Johnson, T.W. Deviation of Natural Gas from Boyle's Law; USEMTP 539 (1932).
- B-11 Bicher, L., and Katz, D.L. Viscosity of Natural Gases. TransAIME Vol. 155 (1944) p.246.
- B-12 Bilhartz, H.L., Dunlap, H.F., Schuler, Ellis, and Bailey, D.R. The Relation Between Electrical Resistivity and Brine Saturation in Reservoir Rocks. TransAIME Vol.186 (1949) p.259.
- B-13 Binckley, C.W. Discussion of "A Radial Turbulent Flow Formula" by Elenbaas and Katz. TransAIME Vol.174 (1948) p.36.
- B-14 Birks, J. An Evaporation Method for Measuring the Resistivity-Water Saturation Characteristics of Cores. FM Vol. 18 June (1954) p.28.
- B-15 Bobrowski, F.P., Cook, A.B., and Spencer, G.B. Special Considerations in Predicting Reservoir Performance of Highly Volatile Oil Reservoirs. TransAIME Vol.192 (1951) p.37.
- B-16 Botset, H.G. A Method for Determining the Water Content of Sands. PTADME Vol.1, Aug. (1938) p.1, TP 972.
- B-17 Botset, H.G., and Muskat, Morris. Flow of Gas Through Porous Materials. Ph Vol. 1 (1931) p.27.

- B-18 Botset, H.G., and Wyckoff, R.D. Flow of Gas-Liquid Mixtures Through Unconsolidated Sands. Ph Vol.7, Sept. (1936) p.325.
- B-19 Brokaw, A.D. A Chart to Provide Approximate Correlation for Temperature and Deviation from Boyle's Law. TPAIME 1375, PF Vol. V, Sept. (1941).
- B-20 Brokaw, Albert D. Correction of Gas Volumes for Compressibility and Temperature. TransAIME Vol.186 (1949) p.248.
- B-21 Brown, Geo. G. The Compressibility of Gases. PE Vol.XI (1940), Nov. 4, p.21. No. 5, p.25, No. 6, p.27, No. 7, p.132 (Jan. - Apr.)
- B-22 Brown, Geo. G. Deviations of Natural Gas from Ideal Gas Laws. OW Vol.100 (Part I) No. 4, Dec. 30 (1940) p.30: OW Vol.100 (Part II) No.5, Jan. 6, (1941) p.26.
- B-23 Brown, Geo. G., and Holcomb, Dysart E. The Compressibility of Gases. PE Vol.XI, Jan. No. 4 (1940) p.21; and Feb. No. 5, p.23.
- B-24 Brown, Geo. G., Souders, Mott, Jr., and Smith, R.L. Pressure-Volume-Temperature Relations of Paraffin Hydrocarbons (Compressibility). JIEC Vol.24 (1932) p.513.
- B-25 Bruce, W.A., and Rose, Walter. Evaluation of Capillary Character in Petroleum Reservoirs. TransAIME Vol.186 (1949) p.127.
- B-26 Bruce, G., Peaceman, D., Rachford, H.H., and Rice, J. Calculations of Unsteady State Gas Flow through Porous Media. TransAIME Vol.198 (1953) p.79.
- B-27 Brunner, E., Deahl, T.S., and Hassler, G.L. The Role of Capillarity in Oil Production. TransAIME Vol.155 (1944) p.155.
- B-28 Brunner, E., and Hassler, G.L. Measurement of Capillary Pressures in Small Core Samples. TransAIME Vol.160 (1945) p.114.
- B-29 Burrell, G.A., and Oberfell, G.G. The Compressibility of the Natural Gas Used in Twenty-five Cities, with Discussion of Properties of Natural Gas. USEMTP 109 (1913).
- B-30 Burrell, Geo. A., and Robertson, J.W. Compressibility of Natural Gas and Its Constituents. USEMTP 158 (1917).
- B-31 Burrows, D.R., Carr, N.L., and Kobayashi, R. Viscosity of Hydrocarbon Gases Under Pressure. TransAIME Vol.201 (1954) p.264.
- B-32 Bursik, Emil J. Properties of Petroleum Reservoir Fluids, John Wiley & Sons Inc. N.Y. (1957).
- B-33 Calkin, L.P., and Dow, D.B. Solubility and Effects of Natural Gas and Air in Crude Oils. USEMRI 2732 (1926).
- B-34 Campbell, John L. P., and Jackson, Warren J. Some Practical Aspects of Radioactivity Logging. TPAIME 1923 (1945).
- B-35 Carr, N.L., Kobayashi, R., and Burrows, D.R. Viscosity of Hydrocarbon Gases Under Pressure. TransAIME Vol.201 (1954) p.264.

- B-36 Cochran, Roy L. Calculating Supercompressibility Factors. PE Vol.12, No. 6 Mar. (1941) p.34.
- B-37 Cook, A.B., Spencer, G.B., and Bobrowski, F.P. Special Considerations in Predicting Reservoir Performance of Highly Volatile Type Reserves. TransAIME Vol.192 (1951) p.37.
- B-38 Cornell, David. Unsteady State Flow in Gas Reservoirs. WO Vol.144, No. 2 (1957) p.133.
- B-39 Crump, J.S., Hoffman, A.E., and Hocott, C.R. Equilibrium Constants for Gas-Condensate System. TransAIME Vol.198 (1953) p. 1.
- B-40 Davis, P.C., Bertuzzi, A.F., Gore, T.L., and Kurata, Fred. The Phase and Volumetric Behavior of Natural Gases at Low Temperatures and High Pressures. TransAIME Vol.201 (1954) p.245.
- B-41 Deahl, T.S., Brunner, E., and Hassler, G.L. The Role of Capillarity in Oil Production. TransAIME Vol.155 (1944) p.155.
- B-42 de Witte, L. Relations Between Resistivities and Fluid Contents of Porous Rocks. OGI Vol.49, No. 16, Aug. 24 (1950) p.120.
- B-43 Dodson, D.R., and Standing, M.B. Pressure-Volume-Temperature and Solubility Relations for Natural Gas-Water Mixtures. APIDPP (1944) p.173.
- B-44 Dow, D.B., and Calkin, L.P. Solubility and Effects of Natural Gas and Air in Crude Oils. USEMRI 2732 (1926).
- B-45 Earhart, Robt. F., and Wyer, Samuel S. Deviation of Natural Gas from Boyle's Law. TransASME Vol.38 (1915) p.285.
- B-46 Eilerts, C.K., and others. Phase Relations in Gas-Condensate Fluids. Monograph 10. AGA and USEM (1957) 439 pp.
- B-47 Elenbaas, Jack R., and Katz, D.L. A Radial Turbulent Flow Formula. TransAIME Vol.174 (1948) p.26.
- B-48 Elfrink, A.B., Sandberg, C.R., and Pollard, T.A. A New Compressibility Correlation for Natural Gases and its Application to Estimates of Gas in Place. TransAIME Vol.186 (1949) p.219.
- B-49 Fettke, C.R. Core Studies of the Bradford Sand from the Bradford Field, Penna. TransAIME Vol.82 (1928-29) p.221.
- B-50 Fettke, C.R. Core Studies of the Second Sand of the Venango Group from Oil City, Penna. TransAIME Vol.G-26 (1927) p.219.
- B-51 Fox, I.W. An Improved Gas Expansion Porosimeter. JIPT July (1932) p.33.
- B-52 Frolich, K., Tauch, E.J., Hogan, J.J., and Peer, A.A. Solubilities of Gases in Liquids at High Pressure. JIEC Vol.23 (1931) p.548.

- B-53 Gaddy, V.L., and Kvalnes, H.M. The Compressibility Isotherms of Methane at Pressures to 1000 Atmospheres and Temperatures from 70° to 200° C. JChS Vol.53 (1931) p.394.
- B-54 Golding, B.H., and Organick, E.I. Prediction of Saturation Pressures for Condensate Gas and Volatile Oil Mixtures. TransAIME Vol.195 (1952) p.135.
- B-55 Gore, T.L., Davis, P.C., Bertuzzi, A.F., and Kurata, Fred. The Phase and Volumetric Behavior of Natural Gases at Low Temperatures and High Pressures. TransAIME Vol.201 (1954) p.245.
- B-56 Guerrero, E.T., and Stewart, F.M. How to Determine Effective Porosity. OGI Vol.56, Nos. 43, 47, 51 (1958 and Vol.57, No. 7 (1959) p.108.
- B-57 Guerrero, Erasmo T., and Whiting, Robert L. Capillary Properties of Some Limestone Cores. OGI Vol.50, No. 12, July 25 (1951) p.272.
- B-58 Hassler, G.L., Brunner, E., and Deahl, T.S. The Role of Capillarity in Oil Production. TransAIME Vol.155 (1944) p.155.
- B-59 Heithecker, R.E., and Mills, R. Van A. Volumetric and A.P.I. Gravity Changes Due to Solution of Gas in Crude Oil. USEMRI 2893 (1928).
- B-60 Hill, E.S. Determination of Water in Core Samples by the Distillation Method. PSCMI Bull.19 (1935) p.55.
- B-61 Hocott, C.R., Hoffman, A.E., and Crump, J.S. Equilibrium Constants for a Gas-Condensate System. TransAIME Vol.198 (1953) p.1.
- B-62 Hoffman, A.E., Crump, J.S., and Hocott, C.R. Equilibrium Constants for a Gas-Condensate System. TransAIME Vol.198 (1953) p.1.
- B-63 Hogan, J.J., Peer, A.A., Frolich, K., and Tauch, E.J. Solubilities of Gases in Liquids at High Pressure. JIEC Vol.23 (1931) p.548.
- B-64 Holcomb, Dysart E., and Brown, Geo. G. The Compressibility of Gases. PE Vol.XI, Jan. No. 4 (1940) p.21 and Feb. No. 5, p.23.
- B-65 Horner, W.L. Determination of the Oil Content of Sands for Water-Flooding. PE Vol.6 April (1935) p.33.
- B-66 Horner, W.L., and Lewis, J.A. Interstitial Water Saturation in Pore Spaces of Oil Reserves. Geoph.Vol.I, Oct.(1936)p.35<sup>34</sup> Also OW Vol.83, Oct. 19, (1936) p.36.
- B-67 Huntington, R.L., and Reid, L.S. Flow of Oil-Gas Mixtures through Unconsolidated Sands. TransAIME Vol.127 (1938) p.226.
- B-68 Jenkins, R., and Aronofsky, J.S. A Simplified Analysis of Unsteady Radial Gas Flow. TransAIME Vol.201 (1954) p.149.
- B-69 Johnson, T.W., and Berwald, W.B. Deviation of Natural Gas from Boyle's Law. USEMTP 539 (1932).
- B-70 Jones, R.G., Kennedy, H.T., and Van Meter, O.E. Saturation Determinations of Rotary Cores. PE Vol.XXVI No. 1, Jan. (1954) p.B-52.

- B-71 Jones, P.H. and Pyle, Howard C. Quantitative Determination of the Connate Water Content of Oil Sands. APIDPP 1936 (1937) p.171.
- B-72 Katz, D.L. Possibility of Cycling Deep Depleted Oil Reserves after Compression to a Single Phase. TransAIME Vol.195 (1952) p.175.
- B-72a Katz, D.L. Handbook of Natural Gas Engineering, McGraw Hill. (1959) p.482
- B-73 Katz, D.L. High Pressure Gas Measurement, Part II, A Suggested Standard Method for Calculation of High Pressure Gas Measurement. RNCM June (1942).
- B-74 Katz, D.L., and Bicher, L. Viscosity of Natural Gases. TransAIME Vol.155 (1944) p.246.
- B-75 Katz, D.L., and Cornell, David. Pressure Gradients in Natural Gas Reservoirs. TransAIME Vol.198 (1953) p.61.
- B-76 Katz, D.L., and Elenbaas, Jack R. A Radial Turbulent Flow Formula. TransAIME Vol.174 (1948) p.26.
- B-77 Katz, D.L., and Kurata, Frederick. Retrograde Condensation. JIEC Vol.32, June (1940) p.817.
- B-78 Katz, D.L., Matthews, T.A., and Roland, C.H. High Pressure Gas Measurement, Part I, The Density of Natural Gases. RNCM June (1942).
- B-79 Katz, D.L., and Standing, M.B. Density of Natural Gases. TPAIME 1323, PT Vol. IV, July (1941) p.1. TransAIME Vol. 146, (1942) p.140.
- B-80 Katz, D.L., and Williams, Brymer. Reservoir Fluids and Their Behavior. Bull. AAPG Vol.36, No. 2, Feb. (1952) p.342.
- B-81 Kaveler, H.H., Roland, C.H., and Smith, D.E. Equilibrium Constants for a Natural Gas-Distillate Mixture. OGI Vol.39, No. 46, March 27 (1941) p.128.
- B-82 Kay, W.B. Density of Hydrocarbon Gases and Vapors. JIEC Vol.28 (1936) p.1014.
- B-83 Kemler, Emory N. The Laws of Gas Flow in a Gas Reservoir. OW Vol.108, No. 3, Dec. 21 (1942) p.6.
- B-84 Kennedy, H.T., Van Meter, O.E., and Jones, R.G. Saturation Determinations of Rotary Cores. PE Vol.XXVI, No. 1, Jan.(1954) p.B-52.
- B-85 Kircher, Charles E. Jr., Lacey, W.N., and Sage, B.H. Solubility of a Dry Natural Gas in Crude Oil. JIEC Vol.26 (1934) p.652.
- B-86 Kobayashi, R., Carr, N.L., and Burrows, D.R. Viscosity of Hydrocarbon Gases Under Pressure. TransAIME Vol.201 (1954) p.264.
- B-87 Kurata, Fred., Gore, T.L., Davis, P.C., and Bertuzzi, A.F. The Phase and Volumetric Behavior of Natural Gases at Low Temperatures and High Pressures. TransAIME Vol.201 (1954) p.245.
- B-88 Kurata, Frederick, and Katz, D.L. Retrograde Condensation. JIEC Vol.32, June (1940) p.817.

- B-89 Kvalnes, H.M., and Gaddy, V.L. The Compressibility Isotherms of Methane at Pressures to 1000 Atmospheres and Temperatures from 70° to 200°C. JChS Vol. 53, (1931) p.394.
- B-90 Lacey, W.N., and Sage, B.H. Formation Volumes and Energy Characteristics of Gas-Cap Material from Kettleman Hills. APIDPP (1936) p.158.
- B-91 Lacey, W.N., and Sage, B.H. Formation Volume and Viscosity Studies for Dominguez Field. APIDPP (1935) p.141.
- B-92 Lacey, W.N., Sage, B.H., and Kircher, Charles E. Jr. Solubility of a Dry Natural Gas in Crude Oil. JIEC Vol.26 (1934) p.652.
- B-93 Lacey, W.N., Sage, B.H., and Schaafsma, J.G. Behavior of Hydrocarbon Mixtures. Illustrated by a Simple Case. API Proc.Sec.IV, Prod.Bull.212, Nov. (1933) p.119.
- B-93a Lane, A.C. Mine Waters and Their Field Assay. GSA Bull. 19(1908) p. 502.
- B-94 Leas, W.J., and Rapoport, L.A. Relative Permeability to Liquids in Liquid-Gas Systems. TransAIME Vol.192 (1951) p.83.
- B-95 Leverett, M.C. Flow of Oil-Water Mixtures through Unconsolidated Sands. TransAIME Vol.132 (1938) p.149.
- B-96 Levine, J.S., and Yuster, S.T. Determination of Oil and Water Saturation by the Retort Method. OW Vol.89, No. 11, May 23 (1938) p.22.
- B-97 Lewis, J.A., and Horner, W.L. Interstitial Water Saturation in Pore Space of Oil Reservoirs. Geoph.Vol.1, Oct. (1936) p.353. Also OW Vol.83, Oct. 19, (1936) p.36.
- B-98 Lindsly, Ben E. Preliminary Report on an Investigation of the Bureau of Mines Regarding the Solubility of Natural Gas in Crude Oil. TransAIME Vol.92, (1931) p.252.
- B-99 Lindsly, B.E. Solubility and Liberation of Gas from Natural Oil-Gas Solutions. USEM Bull.554 (1933).  
*Tech Paper*
- B-100 Lintrop, Norbert F., and Nickolaef, V.M. Oil and Water Content of Oil Sands, Grozny, Russia. Bull.AAPG Vol.13 (1929) p.811.
- B-101 Marx, Paul F. Supercompressibility Data Correlated into Usable Form. PE Vol.XI, No. 6, March (1940) p.103.
- B-102 Matthews, T.A., Katz, D.L., and Roland, C.H. High Pressure Gas Measurement, Pt. I, The Density of Natural Gases, RNQM, June (1942).
- B-103 Meres, M.W., and Muskat, M. The Flow of Heterogeneous Fluids Through Porous Media. Ph Vol.7, Sept. (1936) p.346.
- B-104 Mills, R. Van A., and Heithecker, R.E. Volumetric and A.P.I. Gravity Changes Due to Solution of Gas in Crude Oil. USEMRI 2893 (1928).
- B-104a Mills, R. Van A., and Wells, R.C. The Evaporation and Concentration of Waters Associated with Petroleum and Natural Gas. Bull.USGS 693 (1919).
- B-105 Muskat, M., and Meres, M.W. The Flow of Heterogeneous Fluids Through Porous Media. Ph.Vol.7, Sept. (1936) p.346.
- B-106 Muskat, Morris. Flow of Homogeneous Fluids. McGraw-Hill Book Co. N.Y. 1937.

- B-107 Muskat, Morris. Physical Principles of Oil Production. McGraw-Hill Book Co. N.Y. 1949.
- B-108 Nickolaef, V.M., and Lintrop, Norbert F. Oil and Water Content of Oil Sands, Grozny, Russia. Bull.AAPG Vol.13 (1929) p.811.
- B-109 Oberfell, G.G., and Burrell, G.A. The Compressibility of the Natural Gas Used in Twenty-five Cities, with Discussion of Properties of Natural Gas. USBMTP 109 (1913).
- B-110 Olds, R.H., and Sage, B.H. Volumetric Behavior of Oil and Gas from Several San Joaquin Valley Fields. TransAIME Vol.180 (1947) p.156.
- B-111 Organick, E.I., and Golding, B.H. Prediction of Saturation Pressures for Condensate-Gas and Volatile Oil Mixtures. TransAIME Vol.195 (1952) p.135.
- B-112 Owen, J.E. Resistivity of a Fluid Filled Porous Body. TransAIME Vol.195 (1952) p.169. Also JPT Vol.4, No. 7, July (1952).
- B-113 Parsons, R.L., Standing, M.B., and Lindblad, E.N. Calculated Recoveries by Cycling from a Retrograde Reservoir of Variable Permeability. PT May (1947) TransAIME Vol.174 (1948) p.165.
- B-114 Peaceman, D., Rachford, H.H., Rice, J., and Bruce, G. Calculations of Unsteady State Gas Flow through Porous Media. TransAIME Vol.198 (1953) p.79.
- B-115 Peer, A.A., Frolich, K., Tauch, E.J., and Hogan, J.J. Solubilities of Gases in Liquids at High Pressure. JIEC Vol.23 (1931) p.548.
- B-116 Pirson, S.J. Elements of Oil Reservoir Engineering. McGraw-Hill Book Co. N.Y. 1950.
- B-117 Pollard, T.A., Elfrink, E.B., and Sandberg, C.R. A New Compressibility Correlation for Natural Gases and its Application to Estimates of Gas in Place. TransAIME Vol.186 (1949) p.219.
- B-118 Porter, J.D., and Aronofsky, J.S. Unsteady Radial Flow of Gas through Porous Media; Variable Viscosity and Compressibility. JAM Vol.23 (1956) p.128.
- B-119 Pyle, Howard C., and Jones, P.H. Quantitative Determination of the Connate Water Content of Oil Sands. APIDPP 1936 (1937) p.171.
- B-120 Rachford, H.H., Rice, J., Peaceman, D., and Bruce, G. Calculations of Unsteady State Gas Flow through Porous Media. TransAIME Vol.198 (1953) p.79.
- B-121 Rapoport, L.A., and Leas, W.J. Relative Permeability to Liquid in Liquid-Gas Systems. TransAIME Vol.192 (1951) p.83.
- B-122 Reamer, H.H., and Sage, B.H. Volumetric Behavior of Oil and Gas from the Rio Bravo Field. TransAIME Vol. 142 (1941) p.179.
- B-123 Reid, L.S., and Huntington, R.L. Flow of Oil-Gas Mixtures through Unconsolidated Sands. TransAIME Vol.127 (1938) p.226.
- B-124 Rice, J., Rachford, H.H., Peaceman, D., and Bruce, G. Calculations of Unsteady State Gas Flow through Porous Media. TransAIME Vol.198 (1953) p.79.

- B-125 Robertson, J.W., and Burrell, Geo. A. Compressibility of Natural Gas and Its Constituents. USEMTP 158 (1917).
- B-126 Roe, R.O., and Allen, F.H. Performance Characteristics of a Volumetric Condensate Reservoir. TransAIME Vol.189 (1950) p.83.
- B-127 Roland, C.H., Katz, D.L., and Matthews, T.A. High Pressure Gas Measurement. Pt. I. The Density of Natural Gases. RNCM June (1942).
- B-128 Rogers, G. Sherburne. Helium Bearing Natural Gas. USGS Prof.Pap. 121 (1921).
- B-129 Roland, C.H., Smith, D.E., and Kaveler, H.H. Equilibrium Constants for a Natural Gas-Distillate Mixture. OGJ Vol.39, No. 46, March 27 (1941) p.128.
- B-130 Rose, Walter, and Bruce, W.A. Evaluation of Capillary Character in Petroleum Reservoirs. TransAIME Vol.186 (1949) p.127.
- B-131 Ruehl, Walter. Apparent and Actual Minimum Connate Water Content of Oil Reservoir Rocks. PWPC (Third) Sec. II (1951) p.522.
- B-132 Sage, B.H., and Lacey, W.N. Formation Volume and Viscosity Studies for Dominguez Field. APIDPP (1935) p.141.
- B-133 Sage, B.H., Lacey, W.N., and Kircher, Charles, E. Jr. Solubility of a Dry Natural Gas in Crude Oil. JIEC Vol.26 (1934) p.652.
- B-134 Sage, B.H., Lacey, W.N., and Schaafstma, J.G. Behavior of Hydrocarbon Mixtures Illustrated by a Simple Case. API Proc. Sec. IV, Prod. Bull.212, Nov. (1933) p.119.
- B-135 Sage, B.H., and Olds, R.H. Volumetric Behavior of Oil and Gas from Several San Joaquin Valley Fields. TransAIME Vol.170 (1947) p.156.
- B-136 Sage, B.H., and Reamer, H.H. Volumetric Behavior of Oil and Gas from the Rio Bravo Field. TransAIME Vol.142 (1941) p.179.
- B-137 Sandberg, C.R., Elfrink, E.B., and Pollard, T.A. A New Compressibility Correlation for Natural Gases and its Application to Estimates of Gas in Place. TransAIME Vol.186 (1949) p.219.
- B-138 Schaafstma, J.G., Lacey, W.N., and Sage, B.H. Behavior of Hydrocarbon Mixtures Illustrated by a Simple Case. API Proc. Sec. IV., Prod.Bull.212, Nov. (1933) p.119.
- B-139 Schilthuis, Ralph J. Active Oil and Reservoir Energy. TransAIME Vol.118, (1936) p.33. Also OGJ Vol.34, No. 22, Oct. 17 (1935) p.34.
- B-140 Schilthuis, Ralph J. Connate Water in Oil and Gas Sands. TransAIME Vol.127, (1938) p.199.
- B-141 Schilthuis, Ralph J. Techniques of Securing and Examining Subsurface Samples of Oil and Gas. APIDPP for 1935 (1936) p.120.
- B-142 Schuler, Ellis, Bilhartz, H.L., Dunlap, H.F., and Bailey, C.R. The Relation Between Electrical Resistivity and Brine Saturation in Reservoir Rocks. TransAIME Vol.186 (1949) p.259.

- B-143 Sclater, K.C., and Stephenson, B.R. Measurement of Original Pressure, Temperature, and Gas-Oil Ratio in Oil Sands. TransAIME Vol.82 (1928-29) p.119.
- B-144 Smith, D.E., Roland, C.H., and Kaveler, H.H. Equilibrium Constants for a Natural Gas-Distillate Mixture. OGJ Vol.39, No. 46, March 27 (1941) p.128.
- B-145 Smith, R.L., Souders, Mott Jr., and Brown, Geo. G. Pressure-Volume-Temperature Relations of Paraffin Hydrocarbons (Compressibility). JIEC Vol. 24 (1932) p.513.
- B-146 Souders, Mott Jr., Brown, Geo. G., and Smith, R.L. Pressure-Volume-Temperature Relations of Paraffin Hydrocarbons (Compressibility). JIEC Vol.24 (1932) p.513.
- B-147 Spencer, G.B., and Taliaferro, D.B. A Method for Determining the Water Content of Oil Sands. USEMRI No. 3535. Sept. (1940).
- B-148 Standing, M.B., and Katz, D.L. Density of Natural Gases. AIMETP 1323. PT Vol. IV July (1941). TransAIME Vol.146 (1942) p.140.
- B-149 Stevens, A.B., and Vance, Harold. Experimental Determinations of the Compressibility Factors of Natural Gases and the Application of these Data to Simple Gas Computations. OW Vol.106, No. 1, June 8 (1942) p.21.
- B-150 Sutton, Chase E. Use of Acetylene Tetrachloride Method of Porosity Determination in Petroleum Engineering Field Studies. USEMRI 2876 (1928).
- B-151 Taliaferro, D.B., and Spencer, G.B. A Method for Determining the Water Content of Oil Sands. USEMRI No. 3535, Sept. (1940).
- B-152 Tauch, E.J., Hogan, J.J., Peer, A.A., and Frolich, K. Solubilities of Gases in Liquids at High Pressure. JIEC Vol.23 (1931) p.548.
- B-153 Taylor, M.D. Determining the Water Content of Cores by the Application of a Critical Solution Temperature Method. OGJ Vol.37, No. 5 (1938) p.59.
- B-154 Thornton, O.F., and Marshall, D.L. Estimating Interstitial Water by the Capillary Pressure Methods. PT (Jan.1947); TransAIME Vol.170 (1947) p.69.
- B-155 Trube, A.S. Compressibility of Natural Gases. TransAIME Vol.210 (1957) p.355.
- B-156 Vance, Harold, and Stevens, A.B. Experimental Determinations of the Compressibility Factors of Several Natural Gases and the Application of These Data to Simple Gas Computations. OW Vol.106, No. 1, June 8 (1942) p.21.
- B-157 Van Meter, O.E., Kennedy, H.T., and Jones, R.G. Saturation Determinations of Rotary Cores. PE Vol.XXVI, No. 1, Jan. (1954) p.B-52.
- B-158 Walls, W.S. Practical Methods of Determining Productivity in Reservoirs on Leases by Bottom-hole Pressure and Core Analysis. APIDPP (1950) p.79.
- B-159 Warren, J.E. The Unsteady State Behavior of Linear Gas Storage Reservoirs. PE Vol. 38, No. 12 (1956) p. B-60.
- B-160 Washburn, E.W., and Bunting, E.N. Determination of Porosity by the Method of Gas Expansion. JACS Vol.5, Feb. (1922) p.112.
- B-161 Webber, C.E., and Carter, J.J. Measurement and Regulation of Production from Unusually High Pressure Gas Wells. OW Vol.93, No. 10, May 15 (1939) p.16.
- B-148a Standing, M.B. The Volumetric and Phase Behavior of Oil Field Hydrocarbon Systems. Rheinhold Pub. Co. New York(1952)

- B-162 Whiting, Robert L., and Guerrero, Erasmo T. Capillary Properties of Some Limestone Cores. OGJ Vol.50, No. 12, July 26 (1951) p.272.
- B-163 Wyckoff, R.D., and Botset, H.G. Flow of Gas-Liquid Mixtures Through Unconsolidated Sands. Ph Vol. 7, Sept. (1936) p.325.
- B-164 Williams, M., Winsauer, W.O., Shearin, H.M., and Masson, P.H. Resistivity of Brine Saturated Sands in Relation to Pore Geometry. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.253.
- B-165 Wyer, Samuel S., and Earhart, Robt. F. Deviation of Natural Gas from Boyle's Law. TransASME Vol.38 (1916) p.285.
- B-166 Yuster, S.T. Determining Saturation by an Extraction-Distillation Method. OW Vol.113, No. 3 (1944) p.20.
- B-167 Yuster, S.T., and Levine, J.S. Determination of Oil and Water Saturation by the Retort Method. OW Vol. 89, No. 11, May 23 (1938) p.22.

## SECTION

- C -

5 Sheets.

- C-1 Archer, F.G., Dewees, E.J., Smith, R.V., and Williams, R.H. Pressure Buildup and Well Interference Tests. OGI Vol.50, No. 26, Nov. 1 (1951) p.52.
- C-2 Arps, J.J. Extrapolation of Bottom-Hole Pressure Build-Up Curves by Means of Difference Tables. OW Vol.122, July 22 (1946) p.26.
- C-3 Arps, J.J., and Smith, A.E. Practical Use of Bottom-Hole Pressure Buildup Curves. OGI Vol.47, No. 52, Apr. 28 (1949) p.91. Also APIDPP (1949) p.155.
- C-4 Baumel, J.K., and Breitung, G.A. Back Pressure Test for Natural Gas Wells. State of Texas, R.R.Commission, July 31 (1950).
- C-5 Bennett, E.O., and Pierce, H.R. New Methods for Control and Operation of Gas Wells. PNGA (1925) p.69.
- C-6 Binckley, C.E., Haymaker, E.R., and Burgess, F.R. Method of Establishing a Stabilized Back-Pressure Curve for Gas Wells Producing from Reservoirs of Extremely Low Permeability. TransAIME Vol.186 (1949) p.71. Also JPT Vol.1, No. 3, March (1949) p.71.
- C-7 Bird, J.M. Interpretation of Temperature Logs in Water and Gas Injection Wells and Producing Wells. FM Vol.18, No. 10, Aug. (1954) p.29.
- C-8 Boyd, Wm. L., and Spencer, John R. New Method for Direct Determination of Bottom-Hole Pressures. OGI Vol.51, No. 27, Nov. 10 (1952) p.122.
- C-9 Brandenthaler, R.R., Rawlins, E.L., and Johnson, T.W. Standardizing the Open Flow from Natural Gas Wells. USBMRI Serial No. 2885 (1928).
- C-10 Breitung, G.A., and Baumel, J.K. Back Pressure Test for Natural Gas Wells. State of Texas, R.R.Commission, July 31 (1950).
- C-11 Brons, F., Matthews, C.S., and Hatzbroek, P. A Method for Determination of Average Pressure in a Bounded Reservoir. TransAIME Vol.201 (1954) p.182.
- C-12 Brownscombe, E.R., and Conlon, D.R. Precision in Bottom Hole Pressure Measurement. TransAIME Vol.165 (1946) p.159.
- C-13 Burgess, F.R., Binckley, C.E., and Haymaker, E.R. Method of Establishing a Stabilized Back-Pressure Curve for Gas Wells Producing from Reservoirs of Extremely Low Permeability. TransAIME Vol.186 (1949) p.71. Also JPT Vol.1, No. 3, March (1949) p.71.
- C-14 Conlon, D.R., and Brownscombe, E.R. Precision in Bottom-Hole Pressure Measurement. TransAIME Vol.165 (1946) p.159.
- C-15 Cornell, David. Analysis of Natural Gas Well Back-Pressure Test Data. TransAIME Vol.198 (1953) p.327.
- C-16 Cornell, David. Applying Van Everdingen and Hurst Solutions to Natural Gas Flow Problems. WO Vol.142 No. 2 (1956) p.134.
- C-17 Cornell, David. Calculation of Stabilized Gas Well Performance from Back Pressure Test Data. TransAIME Vol.204 (1955) p.255.
- C-18 Cornell, David. How to Determine Gas Well Interference Graphically. WO Vol.135, No.6, Nov. (1952) p.187.

- C-19 Cornell, David, and Katz, D.L. Pressure Gradients in Natural Gas Reservoirs. TransAIME Vol.198 (1953) p.61.
- C-20 Crawford, P.B. Calculations of Static Bottom-hole Pressures of Natural Gas Wells. TENS Bull.40 (1956).
- C-21 Cullender, M.H. The Isochronal Performance Method of Determining the Flow Characteristics of Gas Wells. TransAIME Vol.204 (1954) p.137.
- C-22 Dewees, E.J., Archer, F.G., Smith, R.V., and Williams, R.H. Pressure Buildup and Well Interference Tests. OGF Vol.50, No. 26, Nov. 1 (1951) p.52.
- C-23 Doll, H.G., Schlumberger, M., and Perebinosoff, A.A. Temperature Measurements in Oil Wells. JIPT Vol.23, No. 159, Jan. (1937) p.1.
- C-24 Fancier, Geo. H., Lesem, Louis B., and McKetta, J.J.Jr. A Study of the Orifice Well Tester and Critical Flow Prover. TransAIME Vol.210 (1957) p.393.
- C-25 Ferguson, C.K., and Klotz, J.A. Filtration from Mud During Drilling. JPT Vol.6, No. 2, Feb. (1954) p.30.
- C-26 Ferguson, J. William. Calculations of Back Pressure Tests on Natural Gas Wells. OGF Vol.37, No. 36, Jan. 19 (1939) p.47.
- C-27 Flaitz, J.M., and Parks, A.S. Sampling Gas-Condensate Wells. TransAIME Vol. 146 (1942) p.13.
- C-28 Fuelhart, D.E. The Open Flow Capacity of High-Pressure Gas Wells as Determined by the Pressure-Capacity Curve Method. OGF May 9, (1929) p.129.
- C-29 Gomez, Orlando R., and Prian, Richardo G. Graphic Method Used in Predicting Gas-Condensate Well Productivity. PE Vol.XIX, No. 9, Aug. (1957) p.B-53.
- C-30 Gregory, P.F. Gas Caps, Their Determination and Significance. TransAIME Vol.127 (1938) p.25. Also Vols. 127 and 132 combined, p.25.
- C-31 Greytock, Frank, Lesem, Louis B., Marotta, Frank and McKetta, John J. Jr. A Method of Calculating the Distribution of Temperature in Flowing Gas Wells. TransAIME Vol.210 (1957) p.169.
- C-32 Grove, M.I., Tek, M.R., and Poetzmann, F.H. Method for Predicting the Back Pressure Behavior of Low Permeability Natural Gas Wells. TransAIME Vol.210, (1957) p.302.
- C-33 Haymaker, E.R., Binckley, C.E., and Burgess, F.R. Method of Establishing a Stabilized Back-Pressure Curve for Gas Wells Producing from Reservoirs of Extremely Low Permeability. TransAIME Vol.186 (1949) p.71. Also JPT Vol.1, No. 3, March (1949) p.71.
- C-34 Hazebrook, P., Brons, F., and Matthews, C.S. A Method for Determination of Average Pressure in a Bounded Reservoir. TransAIME Vol.201 (1954) p.182.
- C-35 Horner D.R. Pressure Build-Up in Wells. FWPC, 3rd, Sec. II (1951) p.503.
- C-36 Hutchinson, C.A., Dyes, A.B., and Miller, C.O. Estimation of Permeability and Reservoir Pressure from Bottom-hole Pressure Build-up Characteristics. TransAIME Vol.189 (1950) p.91.

- C-37 Johnson, T.W., Rawlins, E.L., and Brandenthaler, R.R. Standardizing the Open Flow from Natural Gas Wells. USEMRE 2885 (1928).
- C-38 Katz, D.L., and Rzasa, M.J. Calculation of Static Pressure Gradients in Gas Wells. TransAIME Vol.160 (1945) p.100. Also PE Vol.LVI, No. 10, July 1 (1945) p.148.
- C-39 Kunz, K.S., and Tixier, M.P. Temperature Surveys in Gas Producing Wells. JPT Vol.7, No. 7, July (1955) p.111.
- C-40 Iesen, Louis B., Greytock, Frank, Marotta, Frank, and McKetta, John J. Jr. Calculating the Distribution of Temperature in Flowing Gas Wells. TransAIME Vol.210 (1957) p.169.
- C-41 Iesen, Louis B., McKetta, John J. Jr., and Fancher, Geo. H. A Study of the Orifice Well Tester and Critical Flow Prover. TransAIME Vol.210 (1957) p.393.
- C-42 MacRoberts, D.T. Effects of Transient Conditions in Gas Reservoirs. TransAIME Vol.186 (1949) p.36.
- C-43 Marotta, Frank, Greytock, Frank, Iesen, Louis B., and McKetta, John J. Jr. A Method of Calculating the Distribution of Temperature in Flowing Gas Wells. TransAIME Vol.210 (1957) p.169.
- C-44 Matthews, C.S., Brons, F., and Hazebroek, P. A Method for Determination of Average Pressure in a Bounded Reservoir. TransAIME Vol.201 (1954) p.182.
- C-45 McKetta, John J. Jr., Greytock, Frank, Marotta, Frank, and Iesen, Louis B. A Method of Calculating the Distribution of Temperature in Flowing Gas Wells. TransAIME Vol.210 (1957) p.169.
- C-46 McKetta, John J. Jr., Iesen, Louis B., and Fancher, Geo. H. A Study of the Orifice Well Tester and Critical Flow Prover. TransAIME Vol.210 (1957) p.393.
- C-47 Miller, C.C., Hutchinson, C.A., and Dyes, A.B. Estimation of Permeability and Reservoir Pressure from Bottom-hole Pressure Build-up Characteristics. TransAIME Vol.189 (1950) p.91.
- C-48 Millikan, C.V. Temperature Surveys in Oil Wells. PT Vol.3, No. 11, Nov. (1940) TP 1258.
- C-49 Millikan, C.V., and Sidwell, C.V. Bottom-Hole Pressures in Oil Wells. TransAIME Vol.92 (1931) p.194.
- C-50 Murray, G.H., Martin, M., and Gillingham, W.J. Determination of the Potential Productivity of Oil-Bearing Formations by Resistivity Measurement. Geoph. Vol. 3, July (1938) p.258.
- C-51 Muskat, Morris. Determination of Factors Affecting Reservoir Performance. APIDPP (1940) p.115.
- C-52 Muskat, Morris. Use of Data on the Buildup of Bottom Hole Pressures. TransAIME Vol.123 (1937) p.44, and Vols. 118 and 123 combined, p.222.
- C-53 Parks, A.S., and Flaitsz, J.M. Sampling Gas-Condensate Wells. TransAIME Vol. 146 (1942) p.13.

- C-54 Pierce, H.R., and Bennett, E.O. New Methods for Control and Operation of Gas Wells. PNGA (1925) p.69.
- C-55 Pierce, H.R., and Rawlins, E.L. Computing the Pressure at the Sand in a Gas Well. USBMRI 2929, Pt. I, of the Study of a Fundamental Basis for Controlling and Gauging Natural Gas Wells. (1929).
- C-56 Poettmann, Fred H. The Calculation of Pressure Drop in the Flow of Natural Gas Through Pipe. TransAIME Vol.192 (1951) p.317.
- C-57 Poettmann, F.H., Tek, M.R., and Grove, M.L. Method for Predicting the Back Pressure Behavior of Low Permeability Natural Gas Wells. TransAIME Vol.210 (1957) p.302.
- C-58 Prian, Richardo, C., and Gomez, Orlando R. Graphic Method Used in Predicting Gas-Condensate Well Productivity. PE Vol.XIX, No. 9, Aug. (1957) p.B-53.
- C-59 Rawlins, R.L., Brandenthaler, R.H., and Johnson, T.W. Standardizing the Open Flow from Natural Gas Wells. USBMRI 2885 (1928).
- C-60 Rawlins, E.L., and Pierce, H.R. Computing the Pressure at the Sand in a Gas Well. USBMRI 2929, Part I, The Study of a Fundamental Basis for Controlling and Gauging Natural-Gas Wells. (1929).
- C-61 Rawlins, E.L., and Schellhardt, M.A. Back Pressure Data on Natural-Gas Wells and their Application to Production Problems. USRM. Monograph 7 (1935) Appendix 5, p.150 and Appendix 6, p.166. Published by AGA.
- C-62 Rzasa, M.J., and Katz, D.L. Calculations of Static Pressure Gradients in Gas Wells. TransAIME Vol.160 (1945) p.100. See also PE Vol.XVI, No. 10, July (1945). p.148.
- C-63 Schellhardt, M.A., and Rawlins, E.L. Back Pressure Data on Natural-Gas Wells and their Application to Production Problems. USRM. Monograph 7 (1935). Appendix 5, p.140. and Appendix 6, p.166. Published by AGA.
- C-64 Selater, K.C., and Stephenson, B.R. Measurement of Original Pressure, Temperature, and Gas-Oil Ratio in Oil Sands. TransAIME Vol.82 (1928-29) p.119.
- C-65 Sidwell, C.V., and Milliken, C.V. Bottom-Hole Pressures in Oil Wells. TransAIME Vol.92 (1931) p.194.
- C-66 Smith, A.E., and Arps, J.J. Practical Use of Bottom-Hole Pressure Buildup Curves. OGF Vol.47, No. 52, p.91, Apr. 28 (1949). Also APIJDPF (1949) p.155.
- C-67 Smith, E.V. Determining Friction Factors for Measuring Productivity of Gas Wells. TransAIME Vol.189 (1950) p.73.
- C-68 Smith, E.V., Williams, R.H., and Dewees, E.J. Measurement of Resistance to Flow of Fluids in Natural Gas Wells. TransAIME Vol.201 (1954) p.279.
- C-69 Smith, E.V., Williams, R.H., Dewees, E.J., and Archer, F.G. Pressure Buildup and Well Interference Tests. OGF Vol.50, No. 26, Nov. 1 (1952) p.52.
- C-70 Spencer, John R., and Boyd, Wm. L. New Method for Direct Determination of Bottom-Hole Pressures. OGF Vol.51, Nov. 27, No. 10 (1952) p.122.

- C-71 Stephenson, B.R., and Sclater, K.C. Measurement of Original Pressure, Temperature, and Gas-Oil Ratio in Oil Sands. TransAIME Vol.82 (1928-29) p.119.
- C-72 Tek, M.R., Grove, M.L., and Poettman, F.H. Method for Predicting the Back Pressure Behavior of Low Permeability Natural Gas Wells. TransAIME Vol.210 (1957) p.302.
- C-73 Thomas, G.B. Analysis of Pressure Build-up Data. TransAIME Vol.198 (1953) p.125. Also JPT Vol.5 (1953) p.125.
- C-74 Tixier, M.P., and Kunz, K.S. Temperature Surveys in Gas Producing Wells. TransAIME Vol.204 (1955) p.111.
- C-75 Van Everdingen, A.F. The Skin Effect and Its Influence on the Productive Capacity of a Well. TransAIME Vol.198 (1953) p.171.
- C-76 Van Ostrand, C.E. Application of Geothermics to Geology. Bull.AAPG Vol.18 (1934) p.13.
- C-77 Wahlstrom, J.E. et al. Symposium on Well-Bore Surveys. FWPC Sec. 2, June (1955) p.157-297.
- C-78 Williams, M. Radial Filtration of Drilling Mud. TransAIME Vol.136 (1940) p.57.
- C-79 Williams, R.L., Archer, F.O., Smith, R.V., and Dewees, E.J. Pressure Buildup and Well Interference Tests. OGI Vol.50, No. 26, Nov. 1 (1951) p.52.
- C-80 Wilhelm, C.J., Harris, H.M., and Harlin, M.N. Petroleum Engineering Study of The Carthage Gas Field, Panola County, Tex. USEMRI 4898 (1950) p.37.
- C-81 Yuster, S.T. The Rehabilitation of Drowned Gas Wells. APIIDPP (1946) p.209.

- D-1 Arps, J.J. Analysis of Decline Curves. TransAIME Vol.160 (1945) p.228.
- D-2 Arps, J.J. Estimation of Primary Oil Reserves. JPT Vol.8, Aug. (1956) p.192.
- D-3 Babson, E.C., and Kelsey, L.S. Performance of the Playa del Rey Gas Storage Reservoir. APIDPP (1946) p.186.
- D-4 Bartle, Glen, G. Application to Methods of Estimating Reserves- Production Decline Curve Method, The Geology of the Blue Springs Gas Field, Jackson Co. Missouri. MoBGM, 57th Biennial Rept. of State Geologist. (Rolla,1933) Appendix III, p.37.
- D-5 Bell, H.W., and Cattell, R.A. The Monroe Gas Field, La. Department of Conservation. Bull.9 (1921). (Out of print).
- D-6 Berry, V.J., Jr., and Jacoby, R.H. A Method of Predicting Depletion Performance of a Reservoir Producing Volatile Crude Oil. TransAIME Vol.210 (1957) p.27.
- D-7 Biddison, P.M. Estimation of Natural Gas Reserves, Geology of Natural Gas, Symposium. Bull.AAPG (1935) p.1035.
- D-8 Brandenthaler, R.R. Problems in Estimating Gas Reserves. O&G Vol.26, No. 6, June 30 (1927) p.40.
- D-9 Brown, R.W. The Valuation of Oil and Gas Lands. McGraw Hill Book Co., New York (1924) p.176.
- D-10 Brownscombe, E.R., and Collins, Francis. Estimation of Reserves and Water Drive from Pressure and Production History. TransAIME Vol.186 (1949) p.92.
- D-11 Carter, J.J., and Webber, C.E. Measurement and Regulation of Production from Unusually High Pressure Gas Wells. OW Vol.93, No. 10, May 15 (1939) p.16.
- D-12 Cattell, R.A., and Bell, H.W. The Monroe Gas Field, La. Dept. of Conservation. Bull.9 (1921).
- D-13 Clark, Norman J., and Shearin, H.M. Formation Evaluation of Oil and Gas Reservoirs. PE Vol.XXVIII, No. 4, April (1956) p.B-21.  
and Moore, T.W.
- D-14 Coleman, Stewart, and Wilde, H.D. Jr., Quantitative Effect of Gas-Oil Ratios on Decline of Average Rock Pressure. TransAIME Vol.86 (1930) p.174.
- D-15 Collins, Francis, and Brownscombe, E.R. Estimation of Reserves and Water Drive from Pressure and Production History. TransAIME Vol.186 (1949) p.92.
- D-16 Cornell, David. How You Can Compute Gas Reserves More Accurately. WO Vol.135, No. 7, Dec. (1952) p.220.
- D-17 Crichton, Jack A., and Gruy J. A Critical Review of Methods used in Estimation of Natural Gas Reserves. TransAIME Vol.179 (1949) p.249.
- D-18 Davis, Ralph E. A Method of Estimating Gas Reserves. O&G Vol.50, No. 21, Sept. 27 (1951) p.99.
- D-19 Davis, Ralph E. Estimation of Gas Reserves. O&G Vol.26, No. 4, June 16 (1927) p.G-125.
- D-16a Coste, Eugene Reports to the Canadian Western Natural Gas, Light, Heat and Power Company. Ltd. Waterlow and Sons.Ltd.. London Wall. London.1911.

## SECTION

- E -

16 Sheets

- E-1 Allaud, L.A., and Dewan, J.T. Experimental Basis for Neutron Log Interpretation. PE Vol.XXV No. 10, Sept. (1953) p.B-49.
- E-2\* Archie, G.E. The Electrical Resistivity Log as an Aid in Determining Some Reservoir Characteristics. TransAIME Vol.146 (1942) p.54.
- E-3 Arps, J.J. The Effect of Temperature on the Density and Electrical Resistivity of Sodium Chloride Solutions. TransAIME Vol.198 (1953) p.17. Also JPT Vol.V, Oct. (1953) p.17.
- E-4 Atkins, E.R., Jr. Fundamental Theory and Instrumentation of Radioactivity Logging. A.I.M.E. Symposium on Formation Evaluation. Houston, Tex. Oct. 1955.
- E-5 Atkins, E.R. Jr., and Smith, G.H. The Contribution of Clays to Formation Resistivity Based Upon Laboratory Measurements on Clay Suspensions. A.I.M.E. Meeting, Los Angeles, Oct. (1954).
- E-6 Bacon, L.G. Formation Clay Minerals and Electric Logging. FM Vol.XIII, Nov. 3, Jan. (1949) p.18.
- E-7 Baker, P.E. Density Logging With Gamma Rays. TransAIME Vol.210 (1957) p.289.
- E-8 Baker, P.E. Neutron Capture Gamma Ray Spectra of Earth Formations. JPT Vol.9, Nov. 4, March (1957) p.97.
- E-9 Baum, R.B., Brach, H.R., and Schoelhorn, S.W. Velocity Logging and its Geological and Geophysical Application. Bull.AAPG Vol.41, No. 8, Aug. (1957) p.1667.
- E-10 Becker, Adrian, and Swan, B.G. Comparison of Velocities Obtained by Delta-Time Analysis and Well Velocity Surveys. Geoph.Vol.17 (1952) p.573.
- E-11 Beeson, C.M., and Wright, C.C. Loss of Mud Solids to Formation Pores. PE Vol.XXIV, No. 9, Aug. (1952) p.B-40.
- E-12 Berg, J.W. Jr. Conductivity Study of Aqueous Kaolin-NaCl Mixtures. FM Vol.16, Jan. (1952) p.36.
- E-13 Berry, J.E., and Hicks, W.G. Application of Continuous Velocity Logs to Determination of Fluid Saturation of Reservoir Rocks. Geoph. Vol.21, No. 3, July (1956) p.739.
- E-14 Bilhartz, H.L., Schuler, Ellis, Bailey, C.R., and Dunlap, H.F. Relation Between Electrical Resistivity and Brine Saturation. TransAIME Vol.186, (1949) p.259.
- E-15 Blanchard, A., and Dewan, J.T. The Calibration of Gamma Ray Logs. PE Vol. XXV, Aug. No. 8, (1953) p.B-76.
- E-16 Blizard, R.B., and Kokesh, F.P. Geometrical Factors in Sonic Logging. SEG Meeting, Dallas, Texas, April (1958).
- E-17 Blum, H.A., and Martin, J.L. Log Interpretation Problems in Low Resistivity Sands. JPT Vol.VII, Aug. (1955) p.10.
- E-18 Blum, H.A., and Smith, H.D. MicroLaterolog Versus Microlog for Formation Factor Calculations. Geoph. Vol.XIX, No. 2, April (1954) p.310.

- E-19 Bowsky, N.C. The Effect of Mud Resistivities on the Intensities of Electrical Logs. Geoph. Vol.7, No. 1 (1942) p.82.
- E-20 Brannon, H.F., and Osaba, J.S. Spectral Gamma Ray Logging. TransADGE Vol.207, (1956) p.30. Also JPT Vol.8, No. 2, Feb. (1956).
- E-21 Brannon, H.R., Perkins, F.M., and Winsauer, W.O. Interrelation of Resistivity and Potential of Shaly Reservoir Rock. TransADGE Vol.201 (1954) p.176. Also JPT Vol.VI, Aug. (1954) p.29.
- E-22 Breck, H.R., Schoellhorn, S.W., and Baum, R.B. Acoustic Logging and its Geophysical and Geological Applications. SEG Meeting, New York, March 28-30 (1955).
- E-23 Breck, H.R., Schoellhorn, S.W., and Baum, R.B. Velocity Logging and its Geological and Geophysical Applications. Bull.AAPG. Vol.41, No. 8, Aug. (1957) p.1667.
- E-24 Broding, R.A., and Summers, G.C. Continuous Velocity Logging. Geoph. Vol.17, No. 3, July (1952) p.598.
- E-24a Brooks, E.H., Marshak, R.E., and Hurwitz, H. Introduction to the Theory of Diffusion and Slowing Down of Neutrons. Nucleonics, Vol.4, No. 5, p.5. No. 6, p.43; Vol.5, No. 1, p.53, No. 2, p.59 (1949).
- E-25 Buford, T.B., and Jones, P.H. Electric Logging Applied to Ground-Water Exploration. Geoph. Vol.16, No. 1, Jan. (1951) p.115.
- E-26 Bush, R.E., and Mardock, E.S. Quantitative Application of Radioactivity Logs. TransADGE Vol.192 (1951) p.191.
- E-27\* Bush, R.E., and Mardock, E.S. Some Preliminary Investigations of Quantitative Interpretations of Radioactivity Logs. TransADGE Vol.189 (1950) p.19.
- E-28 Caldwell, R.L., and Sippel, R.F. New Developments in Radioactive Well Logging Research. Bull.AAPG Vol.42, No. 1, Jan. (1958) p.159.
- E-29 Campbell, E.C., and Soodak, H. Elementary Pile Theory. (John Wiley and Sons., New York (1950)).
- E-30 Campbell, John L.P., and Jackson, Warren. Some Practical Aspects of Radioactivity Well Logging. TransADGE Vol.165 (1946) p.241.
- E-31 Campbell, W.M., and Martin, J.L. Displacement Logging - A New Exploratory Tool. JPT Vol.7, No. 12, Dec. (1955) p.233.
- E-32 Carter, Lee S. The Relationship Between Electrical Resistivity and Brine Saturation. PE Vol.XXIII, No. 12 Nov. (1951) p.B-60.
- E-33 Cross, J.H., and Hughes, D.S. Elastic Wave Velocities in Rocks at High Pressures and Temperatures. Geoph. Vol.16, No. 4, Oct. (1951) p.577.
- E-34 de Chambrier, P. The Microlog Continuous Dipmeter. Geoph. Vol.18, No. 4, Oct. (1953) p.929.
- E-35 Denton, E.M. Continuous Velocity Logging - OGI Vol.54, No. 81, Nov. 19 (1956). p.224.

- E-36 Deussen, Alexander, and Leonardon, E.G. Electrical Exploration of Drill Holes. APIDPP (1935) p.47.
- E-37 Duessen, Alexander, and Leonardon, E.G. Use of Electrical Logs for Correlation in the Gulf Coast of Texas and Louisiana. API Proc. (Prod.Bull.216) (1935) p.13.
- E-38\* Dewan, J.T. Neutron Log Correction Charts for Bore-hole Conditions and Bed Thickness. TransAIME Vol.207 (1956) p.50. Also JPT Vol.VIII Feb. (1956) p.50.
- E-39 Dewan, J.T., and Allaud, L.A. Experimental Basis for Neutron Log Interpretation. PE Vol.XXV, No. 10, Sept. (1953) p.B-49.
- E-40 Dewan, J.T., and Blanchard, A. The Calibration of Gamma Ray Logs. PE Vol.XXV, No. 8, Aug. (1953) p.B-76.
- E-41\* de Witte, A.J. A Graphic Method of Dipmeter Interpretation Using the Stereo-Net. JPT Vol.8, No. 8, Aug. (1956) p.192.
- E-42 de Witte, A.J. Saturation and Porosity from Electric Logs in Shaly Sands. OGF Vol.55, No. 9, March 4, p.89 and Vol.55, No. 15, Apr.15, (1957) p.115.
- E-43 de Witte, L. The Differential Lateral Curve. OGF Vol.51, No. 40, Feb. 9 (1953) p.100.
- E-44 de Witte, L. Digital Computation of Resistivity Departure Curves. OGF Vol.51, No. 39, Feb. 2 (1953) p.74.
- E-45 de Witte, L. Experimental Studies on the Characteristics of the Electrochemical Potential Encountered in Drill Holes. AIME Meeting, Los Angeles, Oct. 12-13, 1950.
- E-46\* de Witte, L. Resistivity and Saturation Distribution in Infiltrated Zones of Porous Formations. OGF Vol.49, No. 12, July 27 (1950) p.246.
- E-47 de Witte, L. Simplified Departure Curves and the Effects of the Equivalence Principle in Resistivity Logging. OGF Vol.50, No. 40, Feb. 11 (1952) p.117.
- E-48 de Witte, Leendert. A Study of Electric Log Interpretation Methods in Shaly Formations. TransAIME Vol.204 (1955) p.103. Also JPT Vol.VII, Aug. (1955) p.103.
- E-49 Dickey, Park A. Natural Potential in Sedimentary Rocks. TransAIME Vol.155, (1944) p.39.
- E-50 Doh, C.A., Lebourg, M., and Fields, R.Q. A Method of Formation Testing on Logging Cable. JPT Vol.9, No. 9, Sept. (1957) p.260.
- E-51 Doll, H.G. Examples of Use of Electric Logs. OGF Vol.54, No. 9, July 5, (1954) p.126.
- E-52\* Doll, H.G. Introduction to Induction Logging and Application to Logging of Wells Drilled with Oil-Base Mud. TransAIME Vol.186 (1949) p.148. Also JPT Vol.1, No. 6, June (1949) p.148.
- E-53\* Doll, H.G. The Laterolog; A New Resistivity Logging Method with Electrodes Using an Automatic Focusing System. TransAIME Vol.192 (1951) p.305. Also

## SECTION

- E -

Sheet 4.

- E-54\* Doll, H.G. Microlaterolog. TransAIME Vol.198 (1953) p.17. Also JPT Vol. 5, No. 1, Jan. (1953) p.17.
- E-55\* Doll, H.G. Selective S.P. Logging. TransAIME Vol.189 (1950) p.129.
- E-56\* Doll, H.G. The Microlog - A New Electrical Logging Method for Detailed Determination of Permeable Beds. TransAIME Vol.189 (1950) p.155.
- E-57\* Doll, H.G. The Self Potential (S.P.) Log in Shaly Sands. TransAIME Vol.189 (1950) p.205. Also JPT Vol.2, No. 7, July (1950) p.205.
- E-58\* Doll, H.G. The Self Potential Log - Theoretical Analysis and Principles of Interpretation. TransAIME Vol.179 (1949) p.146.
- E-59 Doll, H.G. Two Decades of Electrical Logging. JPT Vol.5, No. 9, Sept. (1953) p.33.
- E-60 Doll, H.G., Legrand, J.C., and Stratton, E.F. True Resistivity Determination from the Electrical Log. - Its Application to Log Analysis. OGI Vol.46, No. 20, Sept. 20 (1947) p.297.
- E-61\* Doll, H.G., and Martin, M. Determination of the Maximum Producible Oil Index in a Formation. OGI Vol.53, No. 9, July 5 (1954) p.120.
- E-62\* Doll, H.G., and Martin, M. Electrical Logging in Limestone Fields. FWPC Sec. II (1951) p.394.
- E-63\* Doll, H.G., and Martin, M. Numerical Examples of Electric Log Equations - Fifteen Practical Field Calculations. OGI Vol.53, No. 9, July 5 (1954) p.126.
- E-64 Doll, H.G., and Schlumberger, G. and M. The Electromagnetic Teleclinometer and Dipmeter. FWPC London (1933) p.424.
- E-65 Doll, H.G., and Schwede, H.F. Radioactive Markers in Oil Field Practice. PTAIMS Vol.10, Sept. (1947) T.P. No. 2261.
- E-66 Drake, C.L., and Nafe, J.E. Variation with Depth in Shallow and Deep Water Marine Sediments of Porosity, Density and the Velocities of Compressional and Shear Waves. Geoph. Vol.22, No. 3, July (1957) p.523.
- E-67 Dumanoir, J.L., and Martin, M. How Do the Various Logging Devices Compare When Determining True Resistivities? WO Vol.143, No. 1, July (1956) p.95.
- E-68 Dumanoir, J.L., Tixier, M.P., and Martin, M. Interpretation of the Induction-Electrical Log in Fresh Mud. TransAIME Vol.210 (1957) p.202. Also JPT Vol. 9, No. 7, July (1957) p.202.
- E-69 Dunlap, H.F., Bilhartz, H.L., Schuler, Ellis, and Bailey, G.R. The Relation Between Electrical Resistivity and Brine Saturation in Reservoir Rocks. TransAIME Vol.186 (1949) p.259. Also JPT Vol.1, Oct. (1949) p.259.
- E-70 Dunlap, H.G., and Hawthorne, H.R. The Calculation of Water Resistivities from Chemical Analysis. TransAIME Vol.192 (1951) p.373. Also JPT Vol.3, No. 3, March (1951) p.17.
- E-71 Eccles, W.W.Jr. Composition Correlations of Natural Gas in Reservoir Engineering Problems. TransAIME Vol.210 (1957) p.370. Also JPT Vol.9, No. 5, May (1957) p.61.

## SECTION

- E -

Sheet 5

- E-72\* Egan, E.F., and Scotty, C.B. Neutron Derived Porosity-Influence of Bore-Hole Diameter. TransAIME Vol.195 (1952) p.203.
- E-73 Ettinger, M.I., and Grynberg, J. The Continuous Dipmeter. OGF Vol.55, No. 13, April 1, p.166, and No. 16, April 22, p.129 (1957).
- E-74 Faul, Henry, and Tittle, C.W. Logging of Drill Holes by the Neutron, Gamma Method and Gamma Ray Scattering. Geoph.Vol.16, No. 2, April (1951) p.260.
- E-75 Faul, Henry, Tittle, C.W., and Goodman, Clark. Neutron Logging of Drill Holes; The Neutron-Neutron Method. Geoph.Vol.16, No. 4 (1951) p.626.
- E-76 Faust, L.Y. A Velocity Function Including Lithologic Variation. Geoph.Vol.18 No. 2, April (1953) p.271.
- E-77 Fearon, R.E., and Green, W.G. Well Logging by Radioactivity. Geoph.Vol.5 (1940) p.240.
- E-78 Fields, R.Q., Isbourg, M., and Doh, C.A. A Method of Formation Testing on Logging Cable. TransAIME Vol.210 (1957) p.260. Also JPT Vol.9, No. 9, Sept. (1957) p.260.
- E-79 Frosch, A., and Howell, L.G. Gamma Ray Well Logging. Geoph.Vol.4 (1939) p.106.
- E-80 Fulton, P.F., Morgan, F., and Wyllie, M.R.J. A New Technique for the Measurement of the Formation Factors and Resistivity Indices of Porous Media. TransAIME Vol.192 (1951) p.371.
- E-81 Gardner, G.H.F., Gregory, A.R., and Wyllie, M.R.J. An experimental Investigation of Factors Affecting Wave Velocities in Porous Media. Geoph. Vol.23, July (1958) p.459.
- E-82 Gardner, L.W., Wyllie, M.R.J., and Gregory, A.R. Elastic Wave Velocities in Heterogeneous and Porous Media. Geoph.Vol.21, No. 1, Jan. (1956) p.41.
- E-83 Gillingham, W.J., Martin, M., and Murray, G.H. Determination of the Potential Productivity of Oil-Bearing Formations by Resistivity Measurements. Geoph.Vol.3 No. 3, July (1938) p.258.
- E-84 Goldstein, H., and Wilkins, J.E., Jr. Calculations of the Penetration of Gamma Rays. U.S.A.E.C. NYO-3075. Technical Information Service, Oak Ridge, Tenn. (1954).
- E-85\* Gondouin, M., Tixier, M.P., and Simard, G.L. An Experimental Study on the Influence of the Chemical Composition of Electrolytes on the S.P. (Self-Potential) Curve. TransAIME Vol.210 (1957) p.58. Also JPT Vol.9, Feb. (1957) p.58.
- E-86 Goodman, Clark, Faul, Henry, and Tittle, C.W. Neutron Logging of Drill Holes; The Neutron-Neutron Method. Geoph.Vol.16, No. 4 (1951) p.626.
- E-87 Green, W.G., and Fearon, R.E. Well Logging by Radioactivity. Geoph.Vol.5 No. 3 (1940) p.272.
- E-88\* Greer, W.J., and Owen, J.B. The Guard Electrode Logging System. TransAIME Vol.192 (1951) p.347.
- E-89 Gregory, A.R., Gardner, G.H.F., and Wyllie, M.R.J. An Experimental Investigation of Factors Affecting Elastic Wave Velocities in Porous Media. Geoph.Vol.23 July (1958) p.459.

## SECTION

- E -

Sheet 6.

- E-90 Gregory, A.R., and Wyllie, M.R.J. Formation Factors of Unconsolidated Porous Media- Influence of Particle Shape and Effect of Cementation. TransAIME Vol.198 (1953) p.103. Also JPT Vol.5, April (1953) p.103.
- E-91 Gregory, A.R., Wyllie, M.R.J., and Gardner, L.W. Elastic Wave Velocities in Heterogenous and Porous Media. Geoph. Vol.21, No. 1, Jan. (1956) p.41.
- E-92 Grossmangin, M., and Walker, E.B. Gas Detection by Dual Spacing Neutron Logs in the Greater Oficina Area, Venezuela. TransAIME Vol.210 (1957) p.140. Also JPT Vol. 9, No. 5, May (1957) p.140.
- E-93 Grynberg, J., and Ettinger, M.I. The Continuous Dipmeter. OGF Vol.55, No. 13 April 1, p. 166 and No. 16, April 22, p.129 (1957).
- E-94 Guyod, H. Electric Analogue of Resistivity Logging. Geoph. Vol.20, No. 3 July (1955) p.615.
- E-95 Guyod, H. Electric Log Interpretation. Pt. I. OW Vol.120, No. 3, Dec. 3 (1945) p.33.  
Pt. II, OW Vol.120, No. 4, Dec. 10 (1945) p.38.  
Pt. III, OW Vol.120, No. 5, Dec. 17 (1945) p.33.  
Pt. IV, OW Vol.120, No. 6, Dec. 24 (1945) p.36.
- E-96\* Guyod, Herbert. Electrical Well Logging. Halliburton Oil Well Cementing Co. (1945).
- E-97 Hamilton, R.W. Where to Use Well Logs and What They Tell You. OGF Vol.54, No. 29 (1955) p.158.
- E-98 Hawthorne, H.R., and Dunlap, H.G. The Calculation of Water Resistivities from Chemical Analysis. TransAIME Vol.192 (1951) p.373.
- E-99 Heiland, C.A. Geophysical Exploration. Prentice Hall, Inc. N.Y.
- E-100 Hicks, W.G., and Berry, J.K. Application of Continuous Velocity Logs to Determination of Fluid Saturation of Reservoir Rocks. Geoph. Vol.21, No. 3, July (1956) p.739.
- E-101\* Hildenbrandt, A.B., Boucher, F.G., and Hagen, H.B. New Dip-Logging Method. Bull.AAPG Vol.34, No. 10, Oct. (1950) p.2007.
- E-102\* Hill, H.J., and Milburn, J.D. Effect of Clay and Water Salinity on Electrochemical Behavior of Reservoir Rocks. TransAIME Vol.207 (1956) p.65. Also JPT Vol.VIII, No. 3, Mar. (1956) p.65.
- E-103 Hopper, R.H., and Jakosky, J.J. The Effect of Moisture on the Direct Current Resistivities of Oil Sands and Rocks. Geoph.Vol.2, Jan. (1937) p.33.
- E-104\* Howard, R.C., and Winn, R.H. Guarded Electrode System Improves Log Interpretation of Lower Wilcox. WO Vol.135, No. 1, July 1 (1952) p.170.
- E-105 Howell, I.G., and Frosch, A. Gamma Ray Well Logging. Geoph.Vol.4 (1939) p.106.
- E-106 Hughes, D.S., and Cross, J.H. Elastic Wave Velocities in Rocks at High Pressures and Temperatures. Geoph.Vol.16, No. 4, Oct. (1951) p.577.

## SECTION

- E -

Sheet 7

- E-107 Kurwitz, H.; Marshak, R.E., and Brooks, E.H. Introduction to the Theory of Diffusion and Slowing Down of Neutrons. *Nucleonics*, Vol.4, No. 5, p.5, No. 6, p.43; Vol.5, No. 1, p.53; No.2, p.59 (1949).
- E-108 Jackson, Warren, and Campbell, John L.P. Some Practical Aspects of Radioactivity Well Logging. *TransAIME* Vol.165 (1946) p.241.
- E-109 Jakosky, J.J. *Exploration Geophysics*. Times Mirror Press. Los Angeles, Calif.
- E-110 Jakosky, J.J., and Hopper, R.H. The Effect of Moisture on the Direct Current Resistivities of Oil Sands and Rocks. *Geoph.* Vol.2, Jan. (1937) p.33.
- E-111 Jakosky, J.J., and Wilson, C.H. Prospecting for Oil Structures by Electrical Methods. *PE* Vol.VIII, No. 5 (1937) p.143.
- E-112 Jones, P.H., and Buford, E.B. Electric Logging Applied to Ground-Water Exploration. *Geoph.* Vol.16, No. 1, Jan. (1951) p.115.
- E-113 Jones, Park J. Electric Log Invasion of Filtrate into Water, Oil and Gas Sandstone Beds. *WO* Vol.132, No. 4, April (1951) p.204.
- E-114 Kansas, University of. Petroleum Engineering Conference. (1956). A series of papers dealing with electrical logging.
- E-115 Keller, G.V. An Improved Electrode System for Use in Electric Logging. *EM* Vol.13, No. 10, Aug. (1949) p.12.
- E-116 Keller, G.V. Modified Mono-electrodes for Improved Resistivity Logging. *EM* Vol.14, No. 9, July (1950) p.13.
- E-117 Kerver, J.K., and Prokop, C.L. Effect of the Presence of Hydrocarbons on Well Logging Potentials. *SPEAIME*, Los Angeles Meeting Oct. (1957).
- E-118 Klotz, J.A., and Ferguson, C.K. Filtration from Mud During Drilling. *TransAIME* Vol.201 (1954) p.29. Also *JPT* Vol.6, No. 2, Feb. (1954) p.30.
- E-119 Kokesh, F.P. The Development of a New Method of Seismic Velocity Determination. *Geoph.* Vol.17 (1952) p.560.
- E-120 Kokesh, F.P. Gamma Ray Logging. *OGJ* Vol.50, No. 12, July 25 (1951) p.284.
- E-121 Kokesh, F.P. The Long Interval Method of Measuring Seismic Velocity. *Geoph.* Vol.21, No. 3, July (1956) p.724.
- E-122 Kokesh, F.P., and Blizard, R.B. Geometrical Factors in Sonic Logging. *SEG Meeting*, Dallas, Texas, April (1958).
- E-123 Kunz, K.S., and Martin, M. A Tentative Explanation for the Low Lateral Readings Opposite Some Pay Sands. *OGJ* Vol.56, No. 6, Feb. 10 (1958) p.88.
- E-124 Lamont, N. Relationship Between the Mud Resistivity, Mud Filtrate Resistivity and the Mud Cake Resistivity of Oil Emulsion Mud Systems. *TransAIME* Vol.210 (1957) p.387. Also *JPT* Vol.9, No. 8, Aug. (1957) p.51.
- E-125 Laughton, A.S. Sound Propagation in Compacted Ocean Sediments. *Geoph.* Vol. 22, April (1957) p.233.

## SECTION

- E -

Under

- E-126 Lawrence, H.W. Report on Continuous Velocity Logging. SEG Meeting, Fort Worth, March 8-9 (1956).
- E-127 Lebourg, M., Fields, R.Q., and Doh, C.A. A Method of Formation Testing on Logging Cable. TransAIME Vol.210 (1957) p.260. Also JPT Vol. 9, No. 9, Sept. (1957) p.260.
- E-128 Lecaine, J., and Wallace, P.R. Elementary Approximations in the Theory of Neutron Diffusion. MT-12 (National Research Council of Canada, Chalk River.)
- E-129 Legrand, J.C., Doll, H.G., and Stratton, E.F. True Resistivity Determination from the Electric Log - Its Application to Log Analysis. OGI Vol.46, No. 20, Sept. 20 (1947) p.297.
- E-130 Leonardon, E.G. The Economic Utility of Thermometric Measurements in Drill Holes in Connection with Drilling and Cementing Problems. SEG Vol.1 (1935).
- E-131 Leonardon, E.G., and Deussen, Alexander. Electrical Exploration of Drill Holes. APIDPP (1935) p.47.
- E-132 Leonardon, E.G., and Deussen, Alexander. Use of Electrical Logs for Correlation in the Gulf Coast of Texas and Louisiana. API Proc. (Prod.Bull.216) (1935) p.13.
- E-133 Leonardon, E.G., and McCann, D.C. Exploring Drill Holes by Sample-Taking Bullets. PTAIMS Vol.2, May (1939) T.P. No. 1062.
- E-134\* Leonardon, E.G., and Schlumberger, C., and M. Electrical Coring; A Method of Determining Bottom-Hole Data by Electrical Measurements. Geophysical Prospecting. TransAIME Vol.110 (1934) p.237.
- E-135\* Leonardon, E.G., and Schlumberger, C. and M. A New Contribution to Subsurface Studies by Means of Electrical Measurements in Drill Holes. Geophysical Prospecting. TransAIME Vol.110 (1934).
- E-136\* Leonardon, E.G., and Schlumberger, C. and M. Some Observations Concerning Electrical Measurements in Anisotropic Media and Their Interpretation. Geophysical Prospecting. TransAIME Vol.110 (1934) p.159.
- E-137 Logan, J. Relation of  $R_{mf}/R_m$  in Resistive Drilling Muds. Bull.AAPG Vol.38, No. 10, Oct. (1954) p.2232.
- E-138\* Loy, M.E., Poupon, H.A., and Tixier, M.P. A Contribution to Electrical Log Interpretation in Shaly Sands. TransAIME Vol.201 (1954) p.138.
- E-139 Martin, Maurice. The Microlog. Pt. I, OGI Vol.54, No. 20, Sept. 19 (1955) p.108. Pt. II, Same Jour. No. 25, Oct. 24 (1955) p.106.
- E-140 Mardock, E.S., and Bush, R.E. Quantitative Application of Radioactivity Logs. TransAIME Vol.192 (1951) p.191. Also JPT Vol.3, No. 7 (1951) p.191.
- E-141 Mardock, E.S., and Bush, R.E. Some Preliminary Investigations of Quantitative Interpretations of Neutron Logs. TransAIME Vol.160 (1950) p.19.
- E-142 Marshak, R.E. Theory of the Slowing Down of Neutrons by Elastic Collisions with Atom Nuclei. Reviews of Modern Physics, Vol.19 (1947) p.185.

## SECTION

- 3 -

- E-143 Marshak, R.E., Brooks, E.H., and Hurwitz, H. Introduction to the Theory of Diffusion and Slowing Down of Neutrons. *Nucleonics*, Vol.4, No. 5, p.5; No. 6, p.43, Vol.5, No. 1, p.53, No. 2, p.59 (1949).
- E-144 Martin, J.L., and Blum, H.A. Log Interpretation Problems in Low Resistivity Sands. *JPT* Vol.VII, Aug. (1955) p.10.
- E-145 Martin, J.L., and Campbell, W.M. Displacement Logging - A New Exploratory Tool. *TransAIME* Vol.204 (1955) p.233. Also *JPT* Vol.7, No. 12, Dec. (1955) p.233.
- E-146 Martin, Maurice. With the Microlog You Can be Sure. *OGJ* Vol.54, No. 25, Oct. 24 (1955) p.106.
- E-147\* Martin, M., and Doll, H.G. Determination of the Maximum Producing Oil Index in a Formation. *OGJ* Vol.53, No. 9, July 5 (1954) p.120.
- E-148\* Martin, M., and Doll, H.G. Electrical Logging in Limestone Fields. *FWPC* Sec. II (1951) p.394.
- E-149\* Martin, M., and Doll, H.G. Numerical Examples of Electric Log Equations. -- Fifteen Practical Field Calculations. *OGJ* Vol.53, No. 9, July 5, (1954) p.126.
- E-150 Martin, M., and Dumanoir, J.L. How Do the Various Logging Devices Compare When Determining True Resistivities? *WO* Vol.143, No. 1 July (1956) p.95.
- E-151 Martin, M., Dumanoir, J.L., and Tixier, M.P. Interpretation of the Induction-Electrical Log in Fresh Mud. *TransAIME* Vol.210 (1957) p.202. Also *JPT* Vol.9 No. 7, July (1957) p.202.
- E-152 Martin, M., and Kunz, K.S. A Tentative Explanation for the Low Lateral Readings Opposite Some Pay Sands. *OGJ* Vol.56, No. 6, Feb. 10 (1958) p.88.
- E-153 Martin, M., Murray, G.H., and Gillingham, W.J. Determination of the Potential Productivity of Oil-Bearing Formations by Resistivity Measurements. *Geoph.* Vol.3, No. 3, July (1938) p.258.
- D-154 McCann, D.C., and Leonardon, E.G. Exploring Drill Holes by Sample-Taking Bullets. *PTAIME* Vol.2, May (1939) T.P. No. 1062.
- E-155 McCardell, W.M., and Winsauer, W.O. Ionic Double Layer Conductivity in Reservoir Rocks. *TransAIME* Vol.198 (1953) p.129.
- E-156 McCardell, W.M., Winsauer, W.O., and Williams, M. Origin of the Electric Potential Observed in Wells. *TransAIME* Vol.198 (1953) p.41. Also *JPT* Vol.5, Feb. (1953) p.41.
- E-157 McConnell, E.B. Jr. Self-Potentials of Reservoir Sands. *FM* Vol.XVIII, No. 8, June (1954) p.19.
- E-158 McEwen, C.R., and Eggleston, W.S. The Value of a Barrel of Crude Oil. *JPT* Vol.VI, No. 1, Jan. (1954) p.11.
- E-159 McKelvey, J.G., Southwick, P.F., Spiegler, K.S., and Wyllie, M.R.J. The Application of a Three Component Model of the S.P. and Resistivity Phenomena Evinced by Dirty Sands. *Geoph.* Vol.20, No. 4, Oct. (1955) p.913.
- E-160 Melouan, R.F., and Worthington, A.E. Departure Curves for the Self-Potential Log. *JPT* Vol.10, No. 1, Jan. (1958) p.11.

- E-161 Milburn, F.D., and Hill, H.L. Effect of Clay and Water Salinity on Electrochemical Behavior of Reservoir Rocks. TransAIME Vol.207 (1956) p.65. Also JPT Vol.VIII, Mar. (1956) p.65.
- E-162 Moraghan, Ralph, and Youmans, Arthur. Stability Requirements for Scintillation Counters Used in Radioactivity Logging. TransAIME Vol.210 (1957) p.231.
- E-163 Morgan, F., Wyllie, M.R.J., and Fulton, P.F. A New Technique for the Measurement of the Formation Factors and Resistivity Indices of Porous Media. TransAIME Vol.192 (1951) p.371. Also JPT Vol.3, No. 2, Feb. (1951) p.15.
- E-164 Mounco, W. O., and Rust, W.M. Natural Potentials in Well Logging. TransAIME Vol.155 (1944), p.49. Also PT Vol.6 (1943).
- E-165 Muench, N.J., and Osoba, J.S. Identification of Earth Minerals by Induced Gamma-Ray Spectral Analysis. TransAIME Vol.210 (1957) p.89. Also JPT Vol. 9 No. 3, March (1957) p.89.
- E-166 Nafe, J.E., and Drake, C.L. Variation with Depth in Shallow and Deep Water Marine Sediments of Porosity, Density, and the Velocities of Compressional and Shear Waves. Geoph. Vol.22, No. 3, July (1957) p.523.
- E-167 Nettleton, L.L. Geophysical Prospecting for Oil. McGraw-Hill, N.Y.
- E-168 Newton, W.M., and Sherborne, J.S. Factors Influencing Electrical Resistivity of Drilling Fluids. TransAIME Vol.146 (1942) p.24.
- E-169 Nichols, Earl A. Geothermal Gradients in Mid-Continent and Gulf Coast Oil Fields. TransAIME Vol.170 (1947) p.44. Also PE Vol.XVIII, No. 10, July (1947) p.64.
- E-170 Nowak, T.J. The Estimation of Water Injection Profiles from Temperature Measurements. TransAIME Vol.198 (1953) p.203. Also JPT Vol.5, No. 8, Aug. (1953) p.203.
- E-171 Osoba, J.S., and Brannon, H.R. Spectral Gamma Ray Logging. TransAIME Vol.207 (1956) p.30. Also JPT Vol.8, No. 2, Feb. (1956) p.30.
- E-172 Osoba, J.S., and Muench, N.L. Identification of Earth Minerals by Induced Gamma-Ray Spectral Analysis. TransAIME Vol.210 (1957) p.89. Also JPT Vol.9, No. 3, March (1957) p.89.
- E-173\* Owen, J.B., and Greer, W.J. The Guard Electrode Logging System. TransAIME Vol.192 (1951) p.347.
- E-174 Patnode, H.W. Relationship of Drilling Mud Resistivity to Mud Filtrate Resistivity. TransAIME Vol.186 (1949) p.14. Also JPT Vol.1, No.1, Jan.(1949) p.14.
- E-175\* Patnode, H.W., and Wyllie, M.R.J. The Presence of Conductive Solids in Reservoir Rocks as a Factor in Electric Log Interpretations. TransAIME Vol.189 (1950) p.47. Also JPT Vol.2, No. 2, Feb. (1950).
- E-176 Perebinosoff, A.A., Schlumberger, M., and Doll, H.G. Temperature Measurements in Oil Wells. JIPT Vol.23, No. 159, Jan. (1937) p.1.
- E-177 Perkins, F.M., Brannon, H.R., and Winsauer, W.O. Interrelation of Resistivity and Potential of Shaly Reservoir Rock. TransAIME Vol.201 (1954) p.176. Also JPT Vol.VI, No. 8, Aug. (1954) p.29.

## SECTION

- E -

Sheet 11

- E-178 Pirson, S.J. The Engineering Approach to Oil Reservoir Controls. OW Vol. 120, No. 5 (1945) p.22.
- E-179 Pirson, S.J. A Study of Self Potential Curves. OGF Vol.46, No. 22, Oct. 4 (1947) p.72.
- E-180 Pirson, S.J., and Wright, T.R. Porosity - Profile Determinations from Electric Logs. Bull.AAPG, Vol.36, No. 2 (1952) p.299.
- E-181 Pontecorvo, Bruno. Neutron Well Logging. OGF Vol.40, No. 18 (1941) p.32.
- E-182\* Poupon, H.A., Loy, M.E.; and Tixier, M.P. A Contribution to Electrical Log Interpretation in Shaly Sands. TransAIME Vol.201 (1954) p.138. Also JPT Vol. 6, No. 6 (1954) p.27.
- E-183 Prescott, B. Osborne. Graphical Method for Calculating Dip and Strike from Continuous Dipmeters. OGF Vol.53, No. 44, March 7 (1955) p.118.
- E-184 Prokop, C.L. Radial Filtration of Drilling Mud. JPT Vol.4, No. 1, Jan. (1952) p.5.
- E-185 Prokop, C.L., and Kerver, J.K. Effect of the Presence of Hydrocarbons on Well Logging Potentials. SPEAIME, Los Angeles Meeting, Oct. (1957).
- E-186 Ruzin, L.A. New Well Logging Developments. WO Vol.137, No. 7, Dec. (1953) p.134.
- E-187 Rabe, C.L. A Relation Between Gamma-Radiation and Permeability. - Denver Julesburg Basin. TransAIME Vol.210 (1957) p.358. Also JPT Vol.9, No. 2, Feb. (1957) p.65.
- E-188 Rieke, R.R. Logging Services Playing Vital Role in Exploration. WO Vol.138, No. 5, April (1954) p.207.
- E-189 Ruddick, C.K. How to Select Correct Logging Methods. WO Vol.138, No. 5, April (1954) p.182.
- E-190 Russell, Wm. L. Interpretation of Neutron Well Logs. Bull.AAPG Vol.36 No. 2, Feb. (1952) p.312.
- E-191 Russell, W.L. Interpretation Problems in Radioactivity Logging. PE Vol. 27, No. 6 (1955) p.B-72.
- E-192 Russell, Wm. L. The Total Gamma Ray Activity of Sedimentary Rocks as Indicated by Geiger-Counter Determinations. Geoph.Vol.9, No. 2, April (1944) p.180.
- E-193 Russell, Wm. L. Well Logging by Radioactivity. Bull.AAPG Vol.25, No. 9, (1941) p.1768.
- E-194\* Rust, C.F. Electrical Resistivity Measurements on Reservoir Rock Samples by the Two-Electrode and Four Electrode Methods. TransAIME Vol.195 (1952) p.217. Also JPT Vol.4, No. 9, Sept., and No. 12 (1952). pp 217 and 312.
- E-195 Rust, W.M., and Mounce, W.O. Natural Potentials in Well Logging. TransAIME Vol.155 (1944) p.49.
- E-196 Sage, B.H., and Lacey, W.N. Formation Volumes and Energy Characteristics of Gas-Cap Material from Kettleman Hills. APIDPP (1956) p.156.

- E-197\* Schlumberger Well Surveying Corporation. Introduction to Schlumberger Well Logging - Schlumberger Document No. 8 (1958).
- E-198\* Schlumberger Well Surveying Corporation. Log Interpretation Charts.
- E-199 Schlumberger, C. and M., and Doll, H.G. The Electromagnetic Teleclinometer and Dipmeter. FWPC Vol.1 (1933) p.424.
- E-200\* Schlumberger, C. and M., and Leonardon, E.G. Electrical Coring: A Method of Determining Bottom-Hole Data by Electrical Measurements. Geophysical Prospecting. TransAIME Vol.110 (1934) p.237.
- E-201\* Schlumberger, C. and M., and Leonardon, E.G. A New Contribution to Subsurface Studies by Means of Electrical Measurements in Drill Holes. Geophysical Prospecting. TransAIME Vol.110 (1934) p.273.
- E-202\* Schlumberger, C. and M., and Leonardon, E.G. Some Observations Concerning Electrical Measurements in Anisotropic Media and Their Interpretation. Geophisics. TransAIME Vol.110 (1934) p.159.
- E-203 Schlumberger, M., Doll, H.G., and Perebinosoff, A.A. Temperature Measurements in Oil Wells. JIPT Vol.23, No. 159, Jan. (1937) p.1.
- E-204 Schoellhorn, S.W., Breck, H.R., and Baum, R.B. Velocity Logging and its Geological and Geophysical Application. Bull.AAPG Vol.41, No. 8, Aug. (1957) p.1687
- E-205 Schwede, H.F., and Doll, H.G. Radioactive Markers in Oil Field Practice. PTAME Vol.10, Sept. (1947) T.P. 2261.
- E-206\* Scotty, C.B., and Egan, E.F. Neutron Derived Porosity-Influence of Bore-Hole Diameter. TransAIME Vol.195 (1952) p.203. Also JPT Vol.4, No. 8, Aug. (1952).
- E-207 Shearin, H.M., Winsauer, W.O., Masson, P.H., and Williams, M. Resistivity of Brine Saturated Sands in Relation to Pore Geometry. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.253.
- E-208 Sherborne, J.S., and Newton, W.M. Factors Influencing Electrical Resistivity of Drilling Fluids. TransAIME Vol.146 (1942) p.246.
- E-209\* Sicard, G.L., Tixier, M.P., and Gondouin, M. An Experimental Study on the Influence of the Chemical Composition of Electrolytes on the (S.P.) Self Potential Curve. JPT Vol.7, Feb. (1955) p.58.
- E-210 Singbush, R.L., and White, J.E. Velocity Measurements in Near Surface Formations. Geoph.Vol.18 (1953) p.54.
- E-211 Sippel, R.F., and Caldwell, R.L. New Developments in Radioactive Well Logging. Research. Bull.AAPG Vol.42, No. 1, Jan. (1958) p.159.
- E-212 Smith, G.H., and Atkins, E.R. Jr. The Contribution of Clays to Formation Resistivity Based Upon Laboratory Measurements on Clay Suspensions. AIME Meeting Los Angeles, Oct. (1954).
- E-213 Smith, H.D., and Blum, H.A. MicroLaterolog versus Microlog for Formation Factor Calculations. Geoph.Vol.19, No. 2, April (1954) p.310.

- E-214 Soodak, H., and Campbell, E.C. Elementary Pile Theory. (John Wiley and Sons., New York, (1950).
- E-215 Southwick, P.F., Spiegler, K.S., Wyllie, M.R.J., and McKelvey, J.G. The Application of a Three Component Model of the S.P. and Resistivity Phenomena Evinced by Dirty Sands. Geoph.Vol.20, No. 4, Oct. (1955) p.913.
- E-216 Southwick, P.F., and Wyllie, M.R.J. An Experimental Investigation of the Self-Potential (S.P.) and Resistivity Phenomena in Dirty Sands. TransAIME Vol.201 (1954) p.43. Also JPT Vol.VI, Feb. (1954) p.44.
- E-217 Spangler, M.B., and Wyllie, M.R.J. Application of Electrical Resistivity Measurements to the Problem of Fluid Flow in Porous Media. Bull.AAPG Vol.36 No.2, Feb. (1952) p.359.
- E-218 Spiegler, K.S., Wyllie, M.R.J., McKelvey, J.G., and Southwick, P.F. The Application of a Three Component Model of the S.P. and Resistivity Phenomena Evinced by Dirty Sands. Geoph.Vol.20, No. 4, Oct. (1955) p.913.
- E-219 Standard Letter Symbols for Petroleum Reservoir Engineering and Electric Logging. TransAIME Vol.207 (1956) p.363.
- E-220 Storm, L.W., and Wade, R.T. Electrical Logging Technique as Applied to Petroleum Production and Engineering Problems. PE Vol.VIII, No. 2, Nov. (1956) p.66.
- E-221 Summers, G.C., and Broding, R.A. Continuous Velocity Logging. Geoph.Vol.17 No. 3, July (1952) p.598.
- E-222 Swan, B.G., and Becker, Adrian. Comparison of Velocities Obtained by Delta-Time Analysis and Well Velocity Surveys. Geoph.Vol.17 (1952) p.573.
- E-223 Thomeer, J.H.M.A. The Application of Schlumberger Electrical Logging in Oil-Field Operation- 11th Congress Mondial du Petrole, R. 163, S.I.Paris June (1937).
- E-224 Tittle, C.W., and Faul, Henry. Logging of Drill Holes by the Neutron, Gamma Method and Gamma Ray Scattering. Geoph.Vol.16, No. 2, April (1951) p.260.
- E-225 Tittle, C.W., Faul, Henry, and Goodman, Clark. Neutron Logging of Drill Holes; The Neutron-Neutron Method. Geoph.Vol.16, No. 4, (1951) p.626.
- E-226 Tittle, C.W., and Wyllie, M.R.J. How to Get the Most Out of Electric and Radioactivity Logs. OGI Vol.54, No. 29, Nov. 21 (1955) p.159.
- E-227 Tittman, J. Fundamentals of Logging, Petroleum Engineering Conference, Univ. of Kansas. 1956, p. 115 and 137.
- E-228 Tittman, J. Moderation of Neutrons in SiO<sub>2</sub> and CaCO<sub>3</sub>, JAP Vol.25, No. 4 (1955) p.394.
- E-229\* Tixier, M.P. Electric Log Analysis in the Rocky Mountains. OGI Vol.48 No. 7, June 23 (1949) p.143.
- E-230 Tixier, M.P. Evaluation of Permeability from Electric Log Resistivity Gradient. OGI Vol.48, No. 6, June 16 (1949) p.113.

- E-231 Tixier, M.P. Porosity Balance Verifies Water Saturation Determined from Logs. JPT July (1958) p.161.
- E-232 Tixier, M.P. Porosity Index in Limestone from Electrical Logs, Part I. OGI Vol.50, No. 28, Nov. 15 (1951) p.140. Part II, Same Jour. Vol.50, No. 29, Nov. 22 (1951) p.63.
- E-233 Tixier, M.P., Dumanoir, J.L., and Martin, M. Interpretation of the Induction-Electrical Log in Fresh Mud. TransAIME Vol.210 (1957) p.202. Also JPT Vol.9, No. 7, July (1957) p.202.
- E-234\* Tixier, M.P., Gondcuin, M., and Simard, G.L. An Experimental Study on the Influence of the Chemical Composition of Electrolytes on the (S.P.) Self Potential Curve. JPT Vol.7, Feb. (1955) p.58.
- E-235\* Tixier, M.P., and Kunz, K.S. Temperature Surveys in Gas Producing Wells. GPT Vol.7, No. 7, July (1955) p.111.
- E-236\* Tixier, M.P., Loy, M.E., and Poupon, H.A. A Contribution to Electrical Log Interpretation in Shaly Sands. TransAIME Vol.201 (1954) p.138.
- E-237 Tixier, M.P., and Poupon, H.A. A Contribution to Electrical Log Interpretation in Shaly Sands. TransAIME Vol.201 (1954) p.27. Also JPT Vol.VI, Jan. (1954) p.27.
- E-238\* University of Kansas. Petroleum Engineering Conference (1956). A Series of Papers Dealing with Electrical Logging.
- E-239 Unz, M. Apparent Resistivity Curves for Dipping Beds. Geoph.Vol.18, No. 1, Jan. (1953) p.116.
- E-240 Vogel, C.B. A Seismic Velocity Logging Method. Geoph.Vol.17, July (1952) p.586.
- E-241 Wade, R.T., and Storm, L.W. Electrical Logging Technique as Applied to Petroleum Production and Engineering Problems. PE Vol.VIII No. 2, Nov. (1936) p.66.
- E-242\* Wahlstrom, J.E. The Quantitative Aspects of Electric Log Interpretation. TransAIME Vol.195 (1952) p.47.
- E-243 Wahlstrom, J.E., and Wells, J.C. Formation Evaluation in Exploratory Drilling. A.P.I. Proc. Vol.35 (1955) p.125.
- E-244 Walker, E.B., and Grosmanin, M. Gas Detection by Dual Spacing Neutron Logs in the Greater Oficina Area, Venezuela. TransAIME Vol.210 (1957) p.140. Also JPT Vol.9, No. 5, May (1957) p.140.
- E-245 Wallace, P.R., and Lecaine, J. Elementary Approximations in the Theory of Neutron Diffusion. MT-12 National Research Council of Canada, Chalk River, Ontario.
- E-246 Wells, J.C., and Wahlstrom, J.E. Formation Evaluation in Exploratory Drilling. A.P.I.Proc. Vol.35 (1955) p.125.
- E-247 White, J.E., and Singbush, R.L. Velocity Measurements in Near Surface Formations. Geoph.Vol.18 (1953) p.54.
- E-248 Widmeyer, R.H., and Wood, G.M. Evaluation of Porosity Derivation from Neutron Logs. A.I.M.E. Los Angeles Meeting. Oct. (1957).

- E-249 Wilkins, J.E. Jr., and Goldstein, H. Calculations of the Penetration of Gamma Rays. U.S.A.E.C. NYO-3075. Technical Information Service, Oak Ridge, Tenn. (1954).
- E-250 Williams, M. Estimation of Interstitial Water from the Electric Logs. JPT Vol.2, No. 10, Oct. (1950). TransAIME Vol.186 (1950) p.295.
- E-251 Williams, M., McCardell, W.M., and Winsauer, W.O. Origin of the Electric Potential Observed in Wells. TransAIME Vol.198 (1953) p.41. Also JPT Vol.5, Feb. (1953) p.41.
- E-252 Wilson, C.H., and Jakosky, J.J. Prospecting for Oil Structures by Electrical Methods. PE Vol.VIII, No. 5 (1937) p.143.
- E-253 Winn, R.H. Log Interpretation in Heterogeneous Carbonate Reservoirs. TransAIME Vol.210 (1957) p.268.
- E-254 Winn, R.H., and Howard, R.C. Guarded Electrode System Improves Log Interpretation of Lower Wilcox, WO Vol.135, No. 1, July 1 (1952) p.170.
- E-255 Winsauer, W.O., Brannon, H.R., and Perkins, F.M. Interrelation of Resistivity and Potential of Shaly Reservoir Rock. TransAIME Vol.201 (1954) p.176. Also JPT Vol.VI, Aug. (1954) pp 29.
- E-256 Winsauer, W.O., and McCardell, W.M. Ionic Double Layer Conductivity in Reservoir Rocks. TransAIME Vol.198 (1953) p.129. Also JPT Vol.5, No. 5, May (1953) p. 129.
- E-257 Winsauer, W.O., McCardell, W.M., and Williams, M. Origin of the Electric Potential Observed in Wells. TransAIME Vol.198 (1953) p.41. Also JPT Vol. 5 Feb. (1953) p.41.
- E-258 Winsauer, W.O., Shearin, H.M., Masson, P.H., and Williams, M. Resistivity of Brine Saturated Sands in Relation to Pore Geometry. Bull.AAPG Vol.36, No. 2, Feb. (1952) p.253.
- E-259 Worthington, A.E., and Meldau, R.F. Departure Curves for the Self-Potential Log. JPT Vol.10, No. 1, Jan. (1958) p.11.
- E-260 Wright, C.C., and Beeson, C.M. Loss of Mud Solids to Formation Pores. PE Vol.XXIV, No. 9, Aug. (1952) p. B-40.
- E-261 Wright, T.R., and Pirson, S.J. Porosity-Profile Determinations from Electric Logs. Bull.AAPG Vol.36, No. 2 (1952) p.299.
- E-262 Wyllie, M.R.J. Clay Technology in Well Log Interpretation. Natl.Conf. of Clay Technology. Univ. of Cal., July 21-25 (1952).
- E-263 Wyllie, M.R.J. Procedure for the Direct Employment of Neutron Log Data in Electric Log Interpretation. Geoph.Vol.17, No. 4, Oct. (1952) p.790.
- E-264 Wyllie, M.R.J. The Fundamentals of Electric Log Interpretation. Academic Press, Inc., New York (1954).

- E-265\* Wyllie, M.R.J. An Investigation of the Electrokinetic Component of the Self-Potential (S.P.) Curve. TransAIME Vol.192 (1951) p.1. Also JPT Vol.3, No. 1, Jan. (1951) p.1.
- E-266 Wyllie, M.R.J. A Statistical Study of the Accuracy of Some Connate Water Resistivity Determinations Made from S.P. Log Data. Bull.AAPG Vol.33, No. 11 Nov. (1949) p.1892.
- E-267\* Wyllie, M.R.J. A Quantitative Analysis of the Electrochemical Component of the Self-Potential (S.P.) Curve. TransAIME Vol.186 (1949) p.17. Also JPT Vol.1, Jan. (1949) p.17.
- E-268 Wyllie, M.R.J., and Gregory, A.R. Formation Factors of Unconsolidated Porous Media- Influence of Particle Shape and Effect of Cementation. TransAIME Vol.198 (1953) p.103. Also JPT Vol.5, No. 4, April (1953) p.103.
- E-269 Wyllie, M.R.J., Gregory, A.R., and Gardner, L.W. Elastic Wave Velocities in Heterogeneous and Porous Media. Geoph.Vol.21, No. 1, Jan. (1956) p.41.
- E-270 Wyllie, M.R.J., Gregory, A.B., and Gardner, G.H.F. An Experimental Investigation of Factors Affecting Elastic Wave Velocities in Porous Media. Geoph.Vol.23, July (1958) p.459.
- E-271 Wyllie, M.R.J., McKelvey, J.G., Southwick, P.F., and Spiegler, K.S. The Application of a Three Component Model of the S.P. and Resistivity Phenomena Evinced by Dirty Sands. Geoph.Vol.20, No. 4, Oct. (1955) p.913.
- E-272\* Wyllie, M.R.J., and Patnode, H.W. The Presence of Conductive Solids as a Factor in Electric Log Interpretation. TransAIME Vol.189 (1950) p.47.
- E-273 Wyllie, M.R.J., Morgan, F., and Fulton, P.F. A New Technique for the Measurement of the Formation Factors and Resistivity Indices of Porous Media. TransAIME Vol.192 (1951) p.371.
- E-274 Wyllie, M.R.J., and Southwick, P.F. An Experimental Investigation of the Self-Potential (S.P.) and Resistivity Phenomena in Dirty Sands. TransAIME Vol. 201 (1954) p.43. Also JPT Vol.VI, No. 2, Feb. (1954) p.44.
- E-275 Wyllie, M.R.J., and Spangler, M.B. Application of Electrical Resistivity Measurements to the Problem of Fluid Flow in Porous Media. Bull.AAPG Vol.36 No. 2, Feb. (1952) p.359.
- E-276 Wyllie, M.R.J., and Tittle, C.W. How to Get the Most out of Electric and Radio-Activity Logs. OGW Vol.54, No. 29, Nov. 21 (1955) p.159.
- E-277 Youmans, Arthur, and Monaghan, Ralph. Stability Requirements for Scintillation Counters Used in Radioactivity Logging. TransAIME Vol.210 (1957) p.231.
- E-278 Zinszer, Richard, H. The Use of Electrode Spacing in Well Logging. TransAIME Vol.151 (1943) p.164.

- D-1 Arps, J.J. Analysis of Decline Curves. TransAIME Vol.160 (1945) p.228.
- D-2 Arps, J.J. Estimation of Primary Oil Reserves. JPT Vol.8, Aug. (1956) p.192.
- D-3 Babson, E.C., and Kelsey, L.S. Performance of the Playa del Rey Gas Storage Reservoir. APIDPP (1945) p.186.
- D-4 Bartle, Glen, G. Application to Methods of Estimating Reserves- Production Decline Curve Method, The Geology of the Blue Springs Gas Field, Jackson Co. Missouri. MoBGM, 57th Biennial Rept. of State Geologist. (Rolla,1953) Appendix III, p.37.
- D-5 Bell, H.W., and Cattell, R.A. The Monroe Gas Field, La. Department of Conservation. Bull.9 (1921). (Out of print).
- D-6 Berry, V.J., Jr., and Jacoby, R.H. A Method of Predicting Depletion Performance of a Reservoir Producing Volatile Crude Oil. TransAIME Vol.210 (1957) p.17.
- D-7 Biddison, P.M. Estimation of Natural Gas Reserves, Geology of Natural Gas, Symposium. Bull.AAPG (1935) p.1035.
- D-8 Brandenthaler, R.R. Problems in Estimating Gas Reserves. OGF Vol.26, No. 6, June 30 (1927) p.40.
- D-9 Brown, R.W. The Valuation of Oil and Gas Lands. McGraw Hill Book Co., New York (1924) p.176.
- D-10 Browncombe, E.R., and Collins, Francis. Estimation of Reserves and Water Drive from Pressure and Production History. TransAIME Vol.186 (1949) p.92.
- D-11 Carter, J.J., and Webber, C.E. Measurement and Regulation of Production from Unusually High Pressure Gas Wells. OW Vol.93, No. 10, May 15 (1939) p.16.
- D-12 Cattell, R.A., and Bell, H.W. The Monroe Gas Field, La. Dept. of Conservation. Bull.9 (1921).
- D-13 Clark, Norman J., and Shearin, H.M. Formation Evaluation of Oil and Gas Reservoirs. FE Vol.XXVIII, No. 4, April (1956) p.B-21.  
and Moore, T.W.
- D-14 Coleman, Stewart, and Wilde, H.D. Jr., Quantitative Effect of Gas-Oil Ratios on Decline of Average Rock Pressure. TransAIME Vol.86 (1930) p.174.
- D-15 Collins, Francis, and Browncombe, E.R. Estimation of Reserves and Water Drive from Pressure and Production History. TransAIME Vol.186 (1949) p.92.
- D-16 Cornell, David. How You Can Compute Gas Reserves More Accurately. WO Vol.135, No. 7, Dec. (1952) p.220.
- D-17 Crichton, Jack A., and Gray J. A Critical Review of Methods used in Estimation of Natural Gas Reserves. TransAIME Vol.179 (1949) p.249.
- D-18 Davis, Ralph E. A Method of Estimating Gas Reserves. OGF Vol.50, No. 21, Sept. 27 (1951) p.99.
- D-19 Davis, Ralph E. Estimation of Gas Reserves. OGF Vol.26, No. 4, June 16 (1927) p.G-125.
- D-16a Coste, Eugene Reports to the Canadian Western Natural Gas, Light, Heat and Power Company, Ltd. Waterlow and Sons, Ltd., London Wall, London, 1911.

- D-20 Davis, Ralph E. General Geologic Description of Natural Gas Properties, Classification of Acreage, and Estimated Gas Reserve, as of December, 1923, United Fuel Gas Company, Hearings before Public Service Commission of West Virginia. Pt. I (1924).
- D-21 Davis, Ralph E., and Meltzer, J.H. A Method of Predicting the Availability of Natural Gas Based on Average Reservoir Performance. TransAIME Vol.198 (1953) p.249. Also JPT Vol.5 (1953) p.249.
- D-22 Davis, Ralph E., and Stephenson, Eugene A. Valuation of Natural Gas Property. JPT Vol. V, No. 7, July (1953) p.9.
- D-23 Davis, Ralph E., and Wege, J. Milton. Valuation of Gas Reserves. A.I.M.E. Dallas Section, March 29, 1956.
- D-24 Dodge, J.I., Pyle, H.C., and Trostel, E.G. Estimation by Volumetric Methods of Recoverable Oil and Gas from Sands. Bull.AAPG Vol.XKV (1941) p.1302.
- D-25 Elenbaas, J.R., Katz, D.L., Turner, C.E., Grimm, R.D., and Vary, J.A. Sample Grading Method of Estimating Gas Reserves. TransAIME Vol.195 (1952) p.207. Also JPT Vol.IV, Aug. (1952) p.207.
- D-26 Gardescu, I.I. Relationship Between Rate of Production, Gas-Oil Ratio, and Ultimate Recovery. FWPG Vol.1 (1933) p.479.
- D-27 Gardescu, I., and Ruedemann, P. Estimation of Reserves of Natural Gas Wells, by Relationship of Production to Closed Pressure. Bull.AAPG Vol.VI (1922) p.444.
- D-28 Grimm, R.D., Katz, D.L., Turner, C.E., Elenbaas, J.R., and Vary, J.A. Sample Grading Method of Estimation Gas Reserves. TransAIME Vol.195 (1952) p.207. Also JPT Vol.IV, Aug. (1952) p.207.
- D-29 Gruy, J., and Crichton, Jack A. A Critical Review of Methods used in Estimation of Natural Gas Reserves. TransAIME Vol.179 (1949) p.249.
- D-30 Harlin, M.N., Harris, H.M., and Wilhelm, C.J. Petroleum Engineering Study of the Carthage Gas Field, Panola County, Tex. USEMRI 4698 (1950) p.37.
- D-31 Harris, H.M., Wilhelm, C.J., and Harlin, M.N. Petroleum Engineering Study of the Carthage Gas Field, Panola County, Tex. USEMRI 4698 (1950) p.37.
- D-32 Heithecker, R.E. Estimate of Natural Gas Reserves from the Layton-Collitic and Oswego-Prue Horizon of the Oklahoma City Oil Field. USEMRI 3338 (1937) p.3.
- I-33 Higgins, Ralph V. Calculating Oil Recoveries for Solution-Gas-Drive Reservoirs by Evaluation of Permissible Errors in P.V.T. Data and Kg/Ko Ratios. USEMRI 5526 (1956).
- D-34 Hill, H.B., and Rawlins, E.L. Estimate of Gas Reserves of the Oklahoma City Oil Field, Oklahoma County, Okla. USEMRI 3217 (1935) p.2.
- D-35 Hinds, R.F., and Reudelhuber, F.O. A Compositional Material Balance Method for Prediction of Recovery from Volatile Oil Depletion Drive Reservoirs. TransAIME Vol.210 (1957) p.19.
- D-36 Huckaba, William A., and Meyer, Willis G. Common Fallacies in Oil and Gas Reserve Estimates. Independent Publication of Willis G. Meyer and Associates. Dallas, Tex. (1959).

## SECTION

- D 3

Sheet 3.

- D-37 Jacoby, R.H., and Berry, V.J. Jr. A Method of Predicting Depletion Performance of a Reservoir Producing Volatile Crude Oil. TransAIME Vol.210 (1957) p.27.
- D-38 Johnson, Roswell, H., and Morgan, L.C. A Critical Examination of Equal Pound Loss Method of Estimating Gas Reserves. Bull.AAPG Vol.X (1926) p.901.
- D-39 Katz, D.L. Development of Techniques in Reserve Estimation. JPTAIME Vol.5, Sept. (1953) Sec. 1, p.61.
- D-40 Katz, D.L. A Method of Estimating Oil and Gas Reserves. TransAIME Vol.118 (1937) p.18. Also OW Vol.79, No. 5, Oct. 14 (1936) p.37. See also Handbook of Natural Gas Engineering, McGraw-Hill (1959) p. 482-488.
- D-41 Katz, D.L., Turner, C.E., Grimm, R.D., Elenbaas, J.R., and Vary, J.A. Sample Grading Method of Estimating Gas Reserves. TransAIME Vol.195 (1952) p.207. Also JPT Vol.IV, Aug. (1952) p.207.
- D-42 Kelsey, L.S., and Babson, E.C. Performance of the Playa del Rey Gas Storage Reservoir. APIDPP (1946) p.186.
- D-43 Lacey, W.N., and Sage, B.H. Application of Phase-Equilibrium Data to the Estimation of Oil and Gas Reserves. APIDPP (1937) p.61. Also OGY Vol.36, June 3 (1937) p.124.
- D-44 Lindblad, E.N., Standing, M.B., and Parsons, R.L. Calculated Recoveries by Cycling from a Retrograde Reservoir of Variable Permeability. TransAIME Vol.174 (1948) p.165.
- D-45 MacRoberts, D.T. Relation of Gas-Well Spacing to Ultimate Recovery. TransAIME Vol.127 (1938) p.146. Also Vols. 127 and 132 combined, p.206.
- D-46 Manual For Oil and Gas Industry. Under Revenue Act of 1918. U.S.Treasury Dept. Aug. (1921).
- D-47 Matson, George, C. Gas Prospects South and Southeast of Dallas. USGS Bull. 629, (1916) p.90-98.
- D-48 Meltzer, J.H., and Davis, Ralph E. A Method of Predicting The Availability of Natural Gas Based on Average Reservoir Performance. TransAIME Vol.198 (1953) p.249. Also JPT Vol.5 (1953) p.249.
- D-49 Meyer, Willis G. Use of Oil and Gas Property Appraisal Reports. Special Paper No. 1 (1958). Independent Publication of Willis G. Meyer and Associates, Dallas, Texas.
- D-50 Meyer, Willis G., and Huckaba, William A. Common Fallacies in Oil and Gas Reserve Estimates. Independent Publication of Willis G. Meyer and Associates. Dallas, Texas (1958).
- D-51 Moody, G.B. Discussion of paper by Gray and Crichton, Methods Used in Estimation of Natural Gas Reserves. TransAIME (1949) Vol.179, p.262.
- D-52 Moore, John I., and Stephenson, Eugene A. The Otis Gas and Oil Pool, Kansas Geol.Surv.Bull. (1940) p.38.
- D-53 Morgan, L.C., and Johnson, Roswell H. A Critical Examination of Equal Pound Loss Method of Estimating Gas Reserves. Bull.AAPG Vol.X (1926) p.901.
- D-48a Mensch, W.H. Calculation of Gas Reserves from Gas Density Data. Pet. Eng. Vol.31, No.10, Sept.(1959) p.B-49.

- D-54 Nowak, T.J. Use of Volumetric Methods in Reserve Estimation. PT Vol. V, No. 10, Oct. (1953) p.21.
- D-55 Paine, Paul. Oil Property Valuation. (John Wiley and Sons, Inc. (1942). p.90.
- D-56 Parkhurst, I.P., and Beecher, C.E. Effect of Dissolved Gas Upon the Viscosity and Surface Tension of Crude Oil. TransAIME Vol.G-25. Also listed as TransAIME PDT (1926) p.51.
- D-57 Parsons, C.P. Accurate Estimates of Gas Reserves. OGI Vol.26, No. 51, May (1928) p.86.
- D-58 Ports, P.L., and Shaw, E.W. Natural Gas Resources Available to Dallas and other Cities of Central North Texas. USGS. Bull.716 (1920) p.55.
- D-59 Pyle, H.C., Dodge, J.I., and Trostel, E.G. Estimation by Volumetric Methods of Recoverable Oil and Gas from Sands. Bull.AAPG Vol.XV (1941) p.1302.
- D-60 Rawlins, E.L., and Hill, H.B. Estimate of Gas Reserves of the Oklahoma City Oil Field, Oklahoma County, Okla. USEMRI 3217 (1933) p.2.
- D-61 Rawlins, E.L., and Schellhardt, M.A. Extent and Availability of Natural Gas Reserves in Michigan "Stray" Sandstone Horizon of Central Michigan. USEMRI 3313 (1936) p.6.
- D-62 Roudelhuber, F.O., and Hinds, R.F. A Compositional Material Balance Method for Prediction of Recovery from Volatile Oil Depletion Drive Reserves. TransAIME Vol.210 (1957) p.19.
- D-63 Reudemann, P., and Gardescu, I. Estimation of Reserves of Natural Gas Wells by Relationship of Production to Closed Pressure. Bull.AAPG Vol.VI (1922) p.444.
- D-64 Sage, B.H., and Lacey, W.N. Application of Phase-Equilibrium Data to the Estimation of Oil and Gas Reserves. APIDPP (1937) p.81. Also OGI Vol.36, No. 3, June 3 (1937) p.124.
- D-65 Schellhardt, M.A., and Rawlins, E.L. Extent and Availability of Natural Gas Reserves in Michigan "Stray" Sandstone Horizon of Central Michigan. USEMRI 3313 (1936) p.6.
- D-65a Schilthuis, Ralph J. Active Oil and Reservoir Energy. TransAIME Vol.118(1936)p.83.
- D-66 Shaw, Eugene W. Natural Gas in the Area North and West of Fort Worth. Bull.629 USGS (1916) p.23, 33-41.
- D-67 Shaw, Eugene W. The Principles of Natural Gas Land Evaluation. Bull.AAPG Vol.III (1919) p.378.
- D-68 Shaw, E.W., and Ports, P.L. Natural Gas Resources Available to Dallas and other Cities of Central North Texas. USGS Bull.716 (1920) p.55.
- D-69 Shearin, H.M., and Clark, Norman J. Formation Evaluation of Oil and Gas Reservoirs. PE Vol.XXVIII, No. 4, April (1956) p.B-21.
- D-70 Spencer, G.B., Cook, A.B., and Bobrowski, F.P. Special Considerations in Predicting Reservoir Performance of Highly Volatile Oil Reservoirs. TransAIME Vol.192 (1951) p.37.
- D-71 Spoor, H.C. Jr. Estimation of Gas Reserves. Report of Composite Study Group Papers, Texas Gulf Coast, Houston Geol.Soc. (1946) p.41.
- ~~D-71a Standing, H.B. The Volumetric and Phase Behavior of Oil-Field Hydrocarbon Systems. Rheinhold Pub. Co. New York (1952).~~

- D-72 Standing, M.B., Lindblad, E.N., and Parsons, R.L. Calculated Recoveries by Cycling from a Retrograde Reservoir of Variable Permeability. TransAIME Vol.174 (1948) p.165.
- D-73 Stephenson, Eugene A. A Critical Review of "The Geology of the Blue Springs Gas Field, Jackson County, Mo." by Glen G. Bartle. MoBGM, 57th Bien.Rept. of State Geologists (1933) Rolla, Mo. Bull.AAPG Vol.17 (1933) p.1148.
- D-74 Stephenson, Eugene A. Behavior of Contents of High Pressure Reservoirs. TransAIME Vol.127 (1938) p.189.
- D-75 Stephenson, Eugene A. Valuation of Natural Gas Properties. Geology of Natural Gas, Symposium. Bull.AAPG (1935) p.1011.
- D-76 Stephenson, Eugene A., and Davis, Ralph E. Valuation of Natural Gas Property. JPT Vol.V, No. 7, July (1953) p.9.
- D-77 Stephenson, Eugene A., and Moore, John I. The Otis Gas and Oil Pool, Kansas Geol.Surv. Bull.(1940) p.38.
- D-78 Stratton, E.F., Doll, H.G., and Legrand, J.C. True Resistivity Determination from the Electric Log - Its Application to Log Analysis. OGW Vol.46, No. 20, Sept. 20 (1947) p.297.
- D-79 Swearingen, Judson S. Predicting Wet Gas Recovery in Recycling Operations. OW Vol. 96, No. 3, Dec. 25 (1939) p.30.
- D-80 Tracy, G.W. Simplified Form of Material Balance Equation. TransAIME Vol.204 (1955) p.245.
- D-81 Trostel, E.G., Dodge, J.I., and Pyle, H.C. Estimation by Volumetric Methods of Recoverable Oil and Gas from Sands. Bull.AAPG Vol.XXV (1941) p.1302.
- D-82 Turner, C.E., Katz, D.L., Grimm, R.D., Elenbeas, J.R., and Vary, J.A. Sample Grading Method of Estimating Gas Reserves. TransAIME Vol.195 (1952) p.207. Also JPT Vol.IV, Aug. (1952) p.207.
- D-83 Vary, J.A., Katz, D.L., Turner, C.E., Grimm, R.D., and Elenbeas, J.R. Sample Grading Method of Estimating Gas Reserves. TransAIME Vol.195 (1952) p.207. Also JPT Vol.IV, Aug. (1952) p.207.
- D-84 Versluys, J. An Investigation of the Problem of Estimation of Gas Reserves. Bull.AAPG Vol.XII, Nov. (1928) p.1095.
- D-85 Weeks, I.G. Concerning Estimates of Potential Oil Reserves. Bull.AAPG Vol.34, No. 10, Oct. (1950) p.1947.
- D-86 White, Paul C. Estimating Availability of Natural Gas Reserves. PE Vol. XII No. 3, Dec. (1940) p.23.
- D-87 Wilde, H.D. Jr., and Coleman, Stewart, and Moore, T.W. Quantitative Effect of Gas-Oil Ratios on Decline of Average Rock Pressure. TransAIME Vol.86 (1930) p.174.