

Box List: Adriaan J. de Witte Papers, 1955-1973
Materials Science and Engineering Department, UIUC
ID: 11/9/27

Arrangement:

Series 1: Research files, 1955-1973
Series 2: Publications, 1956-1967

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Series 1: Research files, 1955-1973

This series contains reports, newspaper clippings, papers, drafts, transparencies, photographs, and glass plates related to Professor de Witte's research on natural gas, shale, and oil drilling and production. Of interest are reports and papers compiled during Dr. de Witte's tenure at Gulf Oil Company. Items are organized alphabetically.

Box 1

1. Glass plates: *Induction Log* paper, Dallas, 1961
2. Glass plates: SP and Shale Content, undated
3. Glass plates: streaming potential and abnormal self-potentials in Illinois Basin, undated
4. "A graphical method of dipmeter interpretation using the stereographic net," report by A.J. de Witt and E.W. Sutton, Continental Oil Company, 1955
5. Gulf Research and Development Company, "Determination of saturation and porosity from electric logs in shaly sands...an engineering approach," report no. 14, 1956
6. Gulf Research and Development Company, "A formula for the speed of sound in fluid-saturated rocks," report no. 17, 1956
7. Gulf Research and Development Company, "The anomalous self-potentials in the Illinois Basin," report no. 34, 1957
8. Gulf Research and Development Company, "Outline of a theory for displacement processes," report no. 40, 1957
9. "Interpretation of magnetic anomalies over magnetized spheres," draft, undated
10. "Natural Gas in the Netherlands: Reflections from a Sabbatical Leave," ca. 1970
11. "Natural Gas in the Netherlands: Reflections from a Sabbatical Leave," drafts, transparencies, and newspaper clippings, 1967-1970
12. "Natural Gas in the Netherlands: Reflections from a Sabbatical Leave," research files and newspaper clippings, 1970-1973
13. Photographs and negatives used for research, ASP-4-6A, undated
14. "Theory of the Induction Log," paper presented by A.J. de Witte and D.A. Lowitz at Second Annual Logging Symposium, 1961
15. "The velocity surfaces of calcite and quartz," draft, undated

Series 2: Publications, 1956-1967

This series contains journal articles authored and co-authored by Adriaan de Witte. Articles are listed in chronological order.

Box 1

16. A.J. de Witte, "A graphic method of dipmeter interpretation using the stero-net," *Petroleum Transactions AIME*, vol. 207, 1956

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Series 2: Publications, 1956-1967

Box 1

17. M.R.J. Wyllie and A.J. de Witte, "Comments on paper, 'Resistivity of sandstones as related to the geometry of their interstitial water,'" *Geophysics*, 1956
18. A.J. de Witte, "An engineering approach to problem of determining saturation and porosity from electric logs in shaly sands," *The Oil and Gas Journal*, 1957
19. A.J. de Witte, "Influence of differential displacement in invaded oil and gas sands in the induction log," *Technical Note*, 1957.
20. D. Marsal, "Calculation of water encroachment in oil reservoirs in one-dimensional approximation," translated by A.J. de Witte, 1957
21. M.R.J. Wyllie, A.J. de Witte, and J.E. Warren, "On the streaming potential problem in well logging," *Petroleum Transactions*, vol. 213, 1958
22. A.J. de Witte, "Equivalence of Huygens' principle and Fermat's principle in ray geometry," *American Journal of Physics*, vol. 27, 1959
23. A.J. de Witte, "A kinetic theory of liquid displacement," *The Physics of Fluids*, vol. 3, 1960
24. A.J. de Witte, "On elastic wave propagation in crystals with applications to calcite and quartz," University of Illinois Engineering Experiment Station Technical Report, no. 47, 1962
25. A.J. de Witte, "On the statistics of fault plane solutions of earthquakes," *Journal of Geophysical Research*, 1963
26. A.J. de Witte, "Interference in scattered light," *American Journal of Physics*, vol. 35, 1967

Processing Notes:

Duplicates were weeded. Added folder titles are indicated by []. Processed by Olivia Hagedorn, under the supervision by Susanne Belovari, May 2018.