PETROGRAPHIC POINT-COUNT MODAL ANALYSIS DATA FROM THE ARCO PIPELINE STATE 1 WELL, NORTH SLOPE, ALASKA

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Michael D. Wilson

INTRODUCTION

This report presents petrographic point-count modal analysis data from the ARCO Pipeline State 1 well on the North Slope of Alaska. These data document the mineralogical, textural, and diagenetic characteristics of selected thin-section samples. The dataset provides quantitative information on framework grain composition, pore types, pore-filling phases, and diagenetic alterations. These measurements support interpretations of depositional environment, provenance, and reservoir quality within the sampled stratigraphic intervals. The results also contribute to a broader understanding of North Slope petroleum systems by offering a foundational dataset for evaluating diagenesis, reservoir quality evolution, and potential hydrocarbon source relationships. A third-party agency conducted this work using material derived from GMC-housed samples. The results and interpretations have not undergone technical review and should not be cited as reviewed data or as an authoritative information source. These data are released as a Geologic Materials Center Report under an open end-user license and are available from the DGGS website (https://doi.org/10.14509/31807).

DATA PRODUCTS

The data collection provides files and documentation exactly as received from the analyst. In some cases, laboratory labeling differs from records maintained by the Alaska Oil and Gas Conservation Commission (Alaska Oil and Gas Conservation Commission, 2024). We retain the original submittal labeling to preserve the integrity of the source materials.

ACKNOWLEDGMENTS

The Alaska Geologic Materials Center (GMC) connects the state's largest geologic collections to research, industry, and education communities, fostering greater geologic understanding, increased awareness of economic opportunities, and stimulating public interest and knowledge in Alaska's geologic history. The GMC data archive provides analytical and interpretive data resulting from third-party testing of material borrowed from samples housed at the Alaska Geologic Materials Center. Simone Montayne and GMC staff coordinated this data release.

REFERENCES

Alaska Oil and Gas Conservation Commission, 2024, AOGCC public data resources: Alaska Oil and Gas Conservation Commission database, accessed December 31, 2025, at https://www.commerce.alaska.gov/web/aogcc/Data.aspx