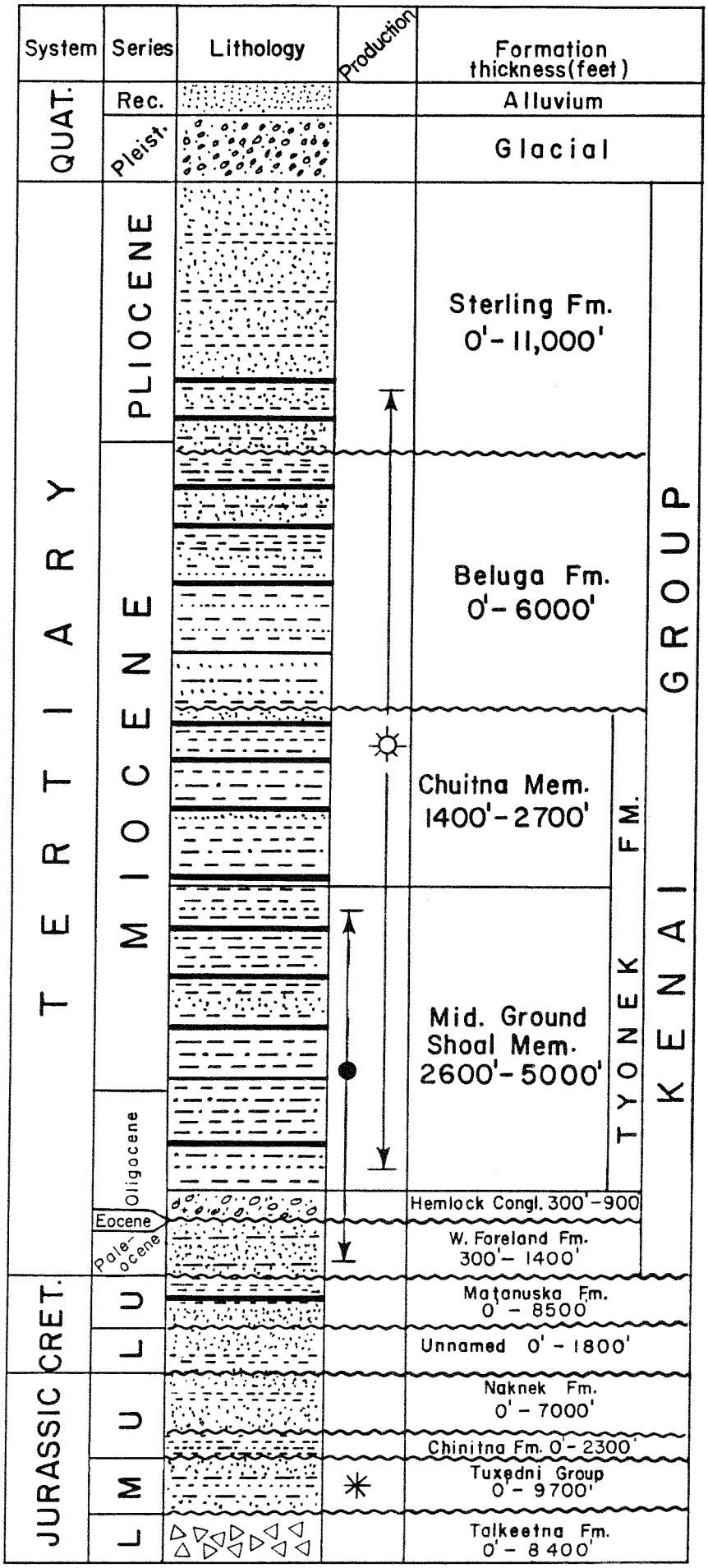


LEGEND

- Conglomerate
- Sandstone
- Siltstone
- Mudstone/Shale
- Coal
- Volcanics
- ● Oil production interval
- Gas production interval
- ✳ Surface oil seeps

REFERENCES

Alaska Geological Society, 1970, oil and gas fields in the Cook Inlet Basin, Alaska.

Calderwood, K.W. and Fackler, W.C., 1972, Proposed stratigraphic nomenclature for Kenai Group, Cook Inlet Basin, Alaska. Am. Assoc. Petroleum Geologists Bull., v. 56 no. 4, p. 739-754

Magoon, L.B., and Claypool, G.E., 1979, Petroleum Geology of Cook Inlet Basin, Alaska -- an exploration model: U.S.G.S. open file report no. 79-548.

Detterman, R.L., and Reed, B.L., 1980, Stratigraphy, Structure, and Economic Geology of the Iliamna Quadrangle, Alaska: U.S.G.S. Bull. 1368-B.

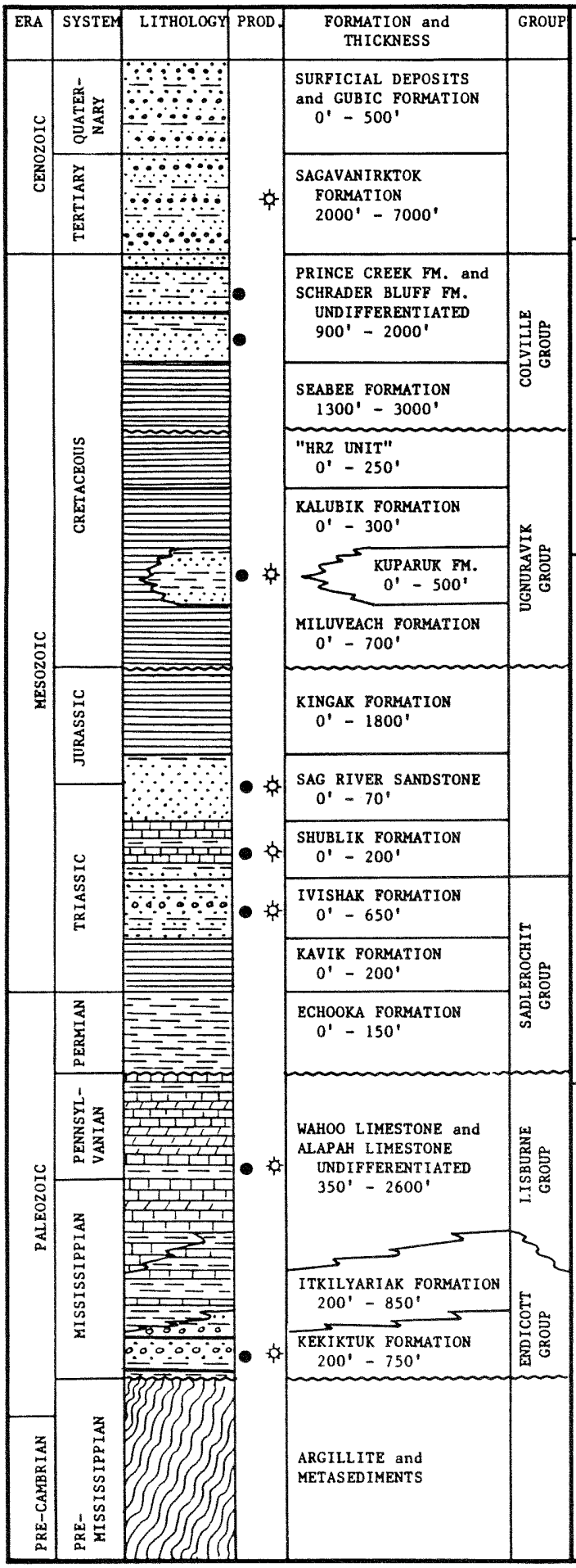
Fisher, M.A., and Magoon, L.B., 1978, Geologic Framework of Lower Cook Inlet, Alaska, A.A.P.G. Bull., Vol. 62 No. 3, p. 373-402.

ALASKA OIL AND GAS CONSERVATION COMMISSION

GENERALIZED STRATIGRAPHIC COLUMN

Cook Inlet Basin, Alaska

April, 1981



ALASKA OIL AND GAS CONSERVATION COMMISSION

GENERALIZED STRATIGRAPHIC COLUMN

KUPARUK FIELD AND PRUDHOE BAY FIELD AREA

NORTH SLOPE, ALASKA

MARCH, 1984

LEGEND

- MUDSTONE OR SHALE
- SILTSTONE
- SANDSTONE OR SAND
- CONGLOMERATE OR GRAVEL
- LIMESTONE
- DOLOMITE
- COAL
- ARGILLITE & METASEDIMENTS
- ● OIL PRODUCTION OR TEST INTERVAL
- ☼ GAS PRODUCTION OR TEST INTERVAL

REMARKS

1) Geologic interpretation of subsurface stratigraphic relationships changes as new data are developed. To the extent possible, the interpretation shown is consistent with the references cited.

2) No vertical scale in either time or thickness is intended.

3) The Prince Creek Fm. & Schrader Bluff Fm. Undifferentiated contain the "Ugnu sands" and the "West Sak sands" that have produced oil on well tests.

4) The Put River Sandstone in the eastern part of Prudhoe Bay Field is correlative with the Kuparuk Fm. (Carman & Hardwick, p. 1022).

5) In the western area the Itkilyariak Fm. and the Kekiktuk Fm. are not differentiated (see Bird & Jordan, p. 1498).

6) To the southeast the Kayak Fm. interfingers with and is correlative with parts of the Itkilyariak Fm. and the Kekiktuk Fm. (see Bird & Jordan, p. 1500).

REFERENCES

1) Carman, G. J., & P. Hardwick, 1983, Geology & Regional Setting of Kuparuk Oil Field, Aalska, A.A.P.G. Bulletin, v. 67, n. 6, pp. 1014-1031.
2) Bird, K. J., 1982, Rock-unit Reports of 228 Wells Drilled on the North Slope, Alaska, U.S.G.S. Open File Report 82-278, 106 p.
3) Alaska Geological Society, 1981, West to East Stratigraphic Correlation Section, N.P.R.A.--Prudhoe Bay, Arctic Slope Alaska.
4) Jamison, H. C., L. D. Brockett, & R. A. McIntosh, 1980, Prudhoe Bay--A 10 Year Perspective, A.A.P.G. Memoir 30, pp 289-314.
5) Reiser, H. N., D. K. Norris, J. T. Dutro, Jr., & W. P. Brosges, 1978, Restriction and Renaming of the Neruokpuk Formation, Northeastern Alaska, U.S.G.S. Bulletin 1457-A, pp. A106-A107.
6) Bird, K. J., & C. F. Jordan, 1977, Lisburne Group (Mississippian and Pennsylvanian), Potential Major Hydrocarbon Objective of Arctic North Slope, Alaska, A.A.P.G. Bulletin., v. 61, n. 9, pp. 1493-1515.