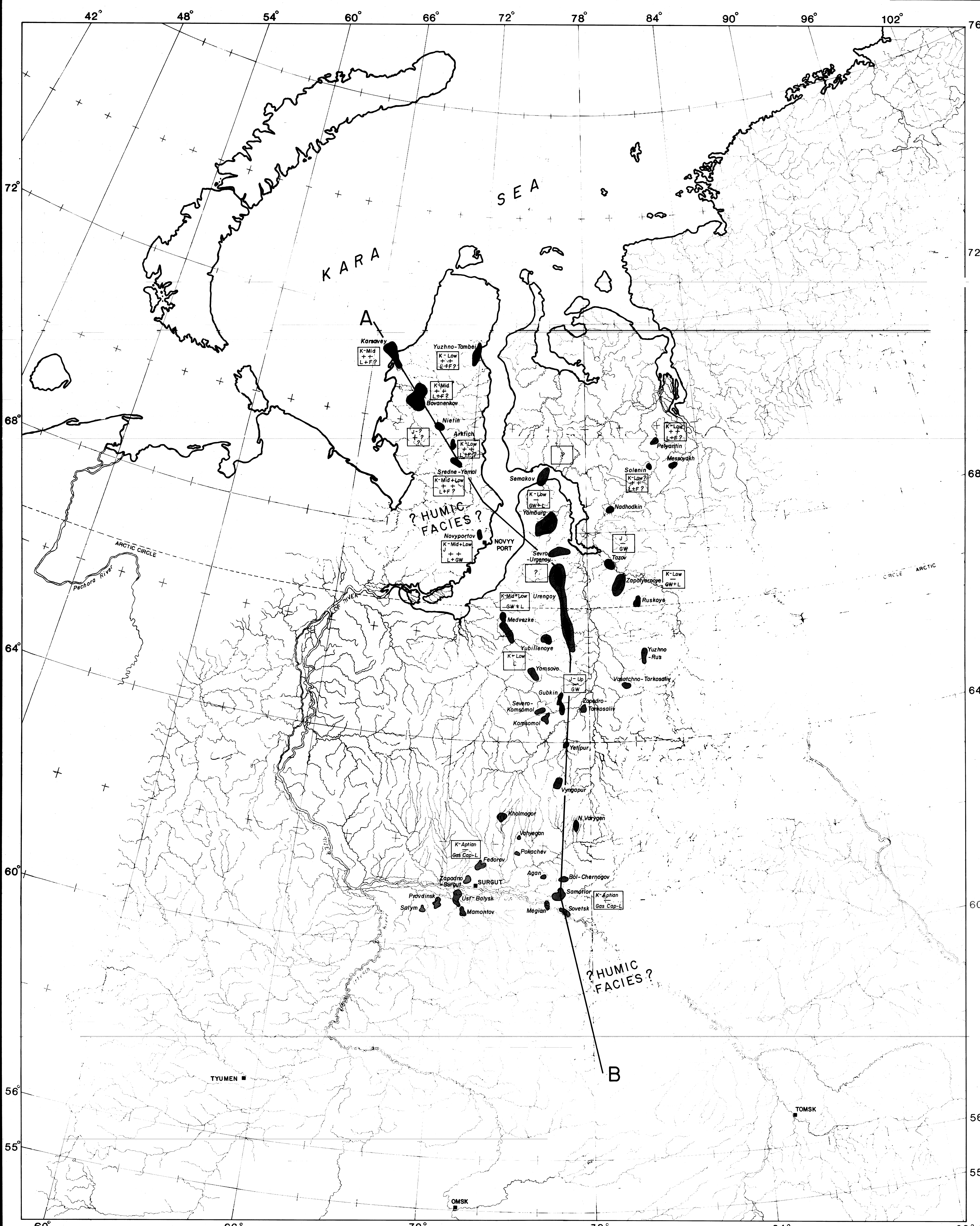


THERMAL GAS (and often condensate)



THERMAL GAS (WITH CONDENSATE)

RESERVOIRS
MIDDLE CRETACEOUS - APTIAN (ALYM, TANPOCHO SUITES)
LOWER CRETACEOUS - BERRIASIAN, VALANGIAN, HAUTERIVIAN, BARREMIAN (MESTON, VARTOV, TANPOCHO, SEVAKHA SUITES)
MIDDLE AND UPPER JURASSIC - (TYUMEN, VASYUGAN, GEORGIYEV, BAZHENOV SUITES)

RESERVES
SANDSTONE RESERVOIRS
MAJOR RESERVES - LOWER CRETACEOUS
OIL x 10⁹ bbls GAS TCF
CONDENSATE? ?

RESOURCES
PRODUCED, PROVED, PROVED-RESERVE, ULTIMATE
↑ ?

SOURCE
(SEE OIL AND CONDENSATE CHART)

CAP
(SEE OIL AND CONDENSATE CHART)

TIME OF MATURATION
MID TERTIARY TO RECENT

TIME OF TRAP FORMATION
(SEE OIL AND CONDENSATE CHART)

TIME OF MIGRATION
(SEE OIL AND CONDENSATE CHART)

EXPULSION EFFICIENCY
(SEE OIL AND CONDENSATE CHART)

MID TERTIARY TO RECENT - LEAKAGE: EITHER OR ALL OF 1) UP-DIP ON INDIVIDUAL STRUCTURE FROM SURROUNDING STRUCTURAL LOW WHERE THERMAL GAS WINDOW PROVIDES MATURATION OF LATERAL EQUIVALENT SOURCE BEDS, 2) VERTICAL LEAKAGE FAULTS OR ACROSS BEDDING OR 3) RELATED TO HIGH HUMIC FACIES IN MORE MODERATE TEMPERATURE ZONE. MOST RESERVOIR AND RESERVES ARE ABOVE PRESENT GAS WINDOW.

LEGEND

■ SOLID PATTERN INDICATES PRESENCE OF THERMAL GAS

RESERVOIR AGE	K = CRETACEOUS (MID = MIDDLE, LOW = LOWER) J = JURASSIC
% RESERVES	++ = MOST ALL GAS + = MAJOR - = MINOR
RELATION TO GAS WINDOW	GW = IN GAS WINDOW L = LEAKAGE - (UP-DIP, VERTICAL) F = FACIES GAS PRONE

0 50 100 150 200
KILOMETERS

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International boundary representation is not necessarily authoritative.

THERMAL GAS
OIL AND GAS MAPS AND SECTIONS
OF THE WEST SIBERIAN BASIN
BY
H. DOUGLAS KLEMME
DATE: 1984 (information as of 1981)