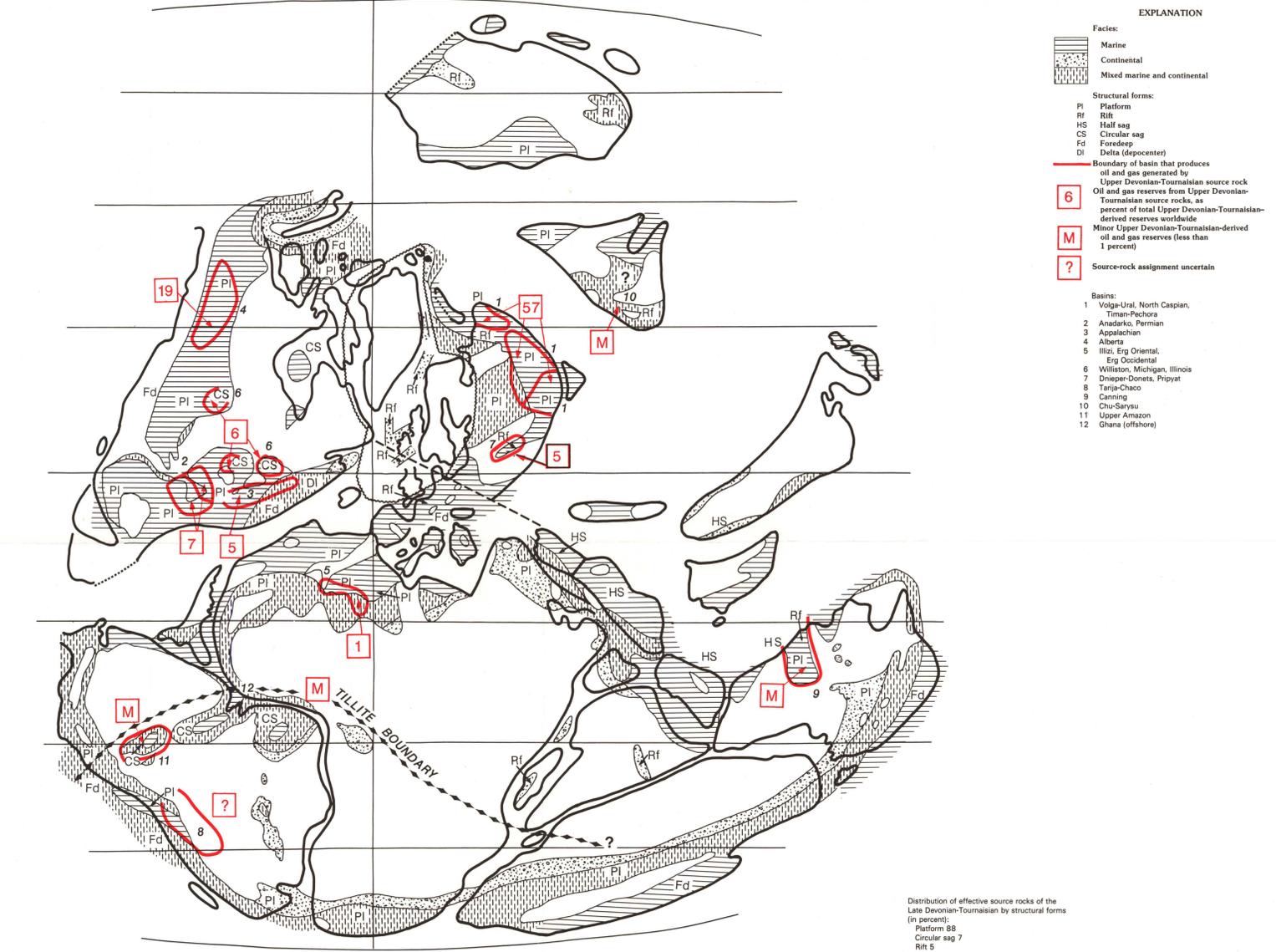


- EXPLANATION**
- Depositional area
 - Oceanic volcanic arc
 - Continental magmatic arc
 - Microplate docking
 - Continent-continent collision
 - Rifting-related volcanism
 - Passive margin
 - Rift zone—Arrows, where present, indicate direction of motion
 - Tectonic regime uncertain
- Microcontinents:
- 1 Songliao
 - 2 South Gobi
 - 3 Junggar
 - 4 Ustyurt
 - 5 Schythian-Turanian
 - 6 Austro-Alpine
 - 7 Iberia
 - 8 Avalon
 - 9 Chilenia
 - 10 Ballenas
 - 11 Falklandia-Desado
 - 12 Patagonia

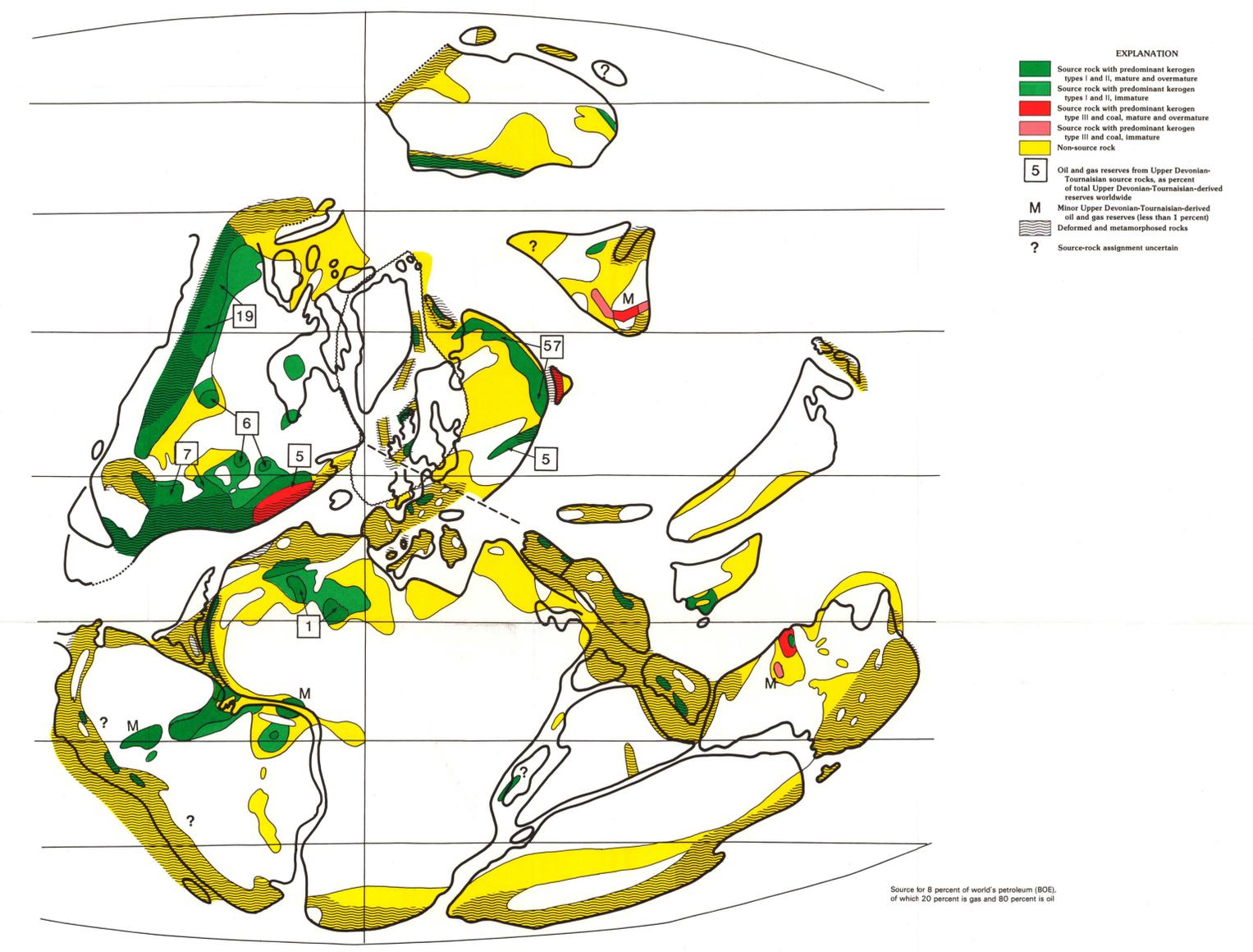
A. PLATE TECTONIC SETTING, LATE DEVONIAN-TOURNAISIAN TIME



- EXPLANATION**
- Facies:
- Marine
 - Continental
 - Mixed marine and continental
- Structural forms:
- Pl Platform
 - Rf Rift
 - HS Half sag
 - CS Circular sag
 - Fd Foredeep
 - Di Delta (depo-center)
- Boundary of basin that produces oil and gas generated by Upper Devonian-Tournaisian source rock. Oil and gas reserves from Upper Devonian-Tournaisian source rocks, as percent of total Upper Devonian-Tournaisian-derived reserves worldwide.
- 6 Minor Upper Devonian-Tournaisian-derived oil and gas reserves (less than 1 percent)
 - M Source-rock assignment uncertain
 - ? Source-rock assignment uncertain
- Basins:
- 1 Volga-Ural, North Caspian, Timan-Fachera
 - 2 Anadarko, Permian
 - 3 Appalachian
 - 4 Alberta
 - 5 Illiz, Erg Oriental, Erg Occidental
 - 6 Williston, Michigan, Illinois
 - 7 Donipen-Donets, Pripet
 - 8 Tarjia-Chaco
 - 9 Canning
 - 10 Chu-Sarysu
 - 11 Upper Amazon
 - 12 Ghana (offshore)

Distribution of effective source rocks of the Late Devonian-Tournaisian by structural forms (in percent):
Platform 88
Circular sag 7
Rift 5

B. LITHOFACIES, STRUCTURAL FORMS, AND MAJOR PETROLEUM BASINS, UPPER DEVONIAN-TOURNAISIAN INTERVAL



- EXPLANATION**
- Source rock with predominant kerogen types I and II, mature and overmature
 - Source rock with predominant kerogen types I and II, immature
 - Source rock with predominant kerogen type III and coal, mature and overmature
 - Source rock with predominant kerogen type III and coal, immature
 - Non-source rock
- 5 Oil and gas reserves from Upper Devonian-Tournaisian source rocks, as percent of total Upper Devonian-Tournaisian-derived reserves worldwide
- M Minor Upper Devonian-Tournaisian-derived oil and gas reserves (less than 1 percent)
- Deformed and metamorphosed rocks
- ? Source-rock assignment uncertain

Source for 8 percent of world's petroleum (BOE), of which 20 percent is gas and 80 percent is oil

C. PETROLEUM SOURCE ROCKS, UPPER DEVONIAN-TOURNAISIAN INTERVAL

PLATE TECTONICS, LITHOFACIES, STRUCTURAL FORMS, PETROLEUM BASINS, AND SOURCE ROCKS OF THE UPPER DEVONIAN-TOURNAISIAN STRATIGRAPHIC INTERVAL