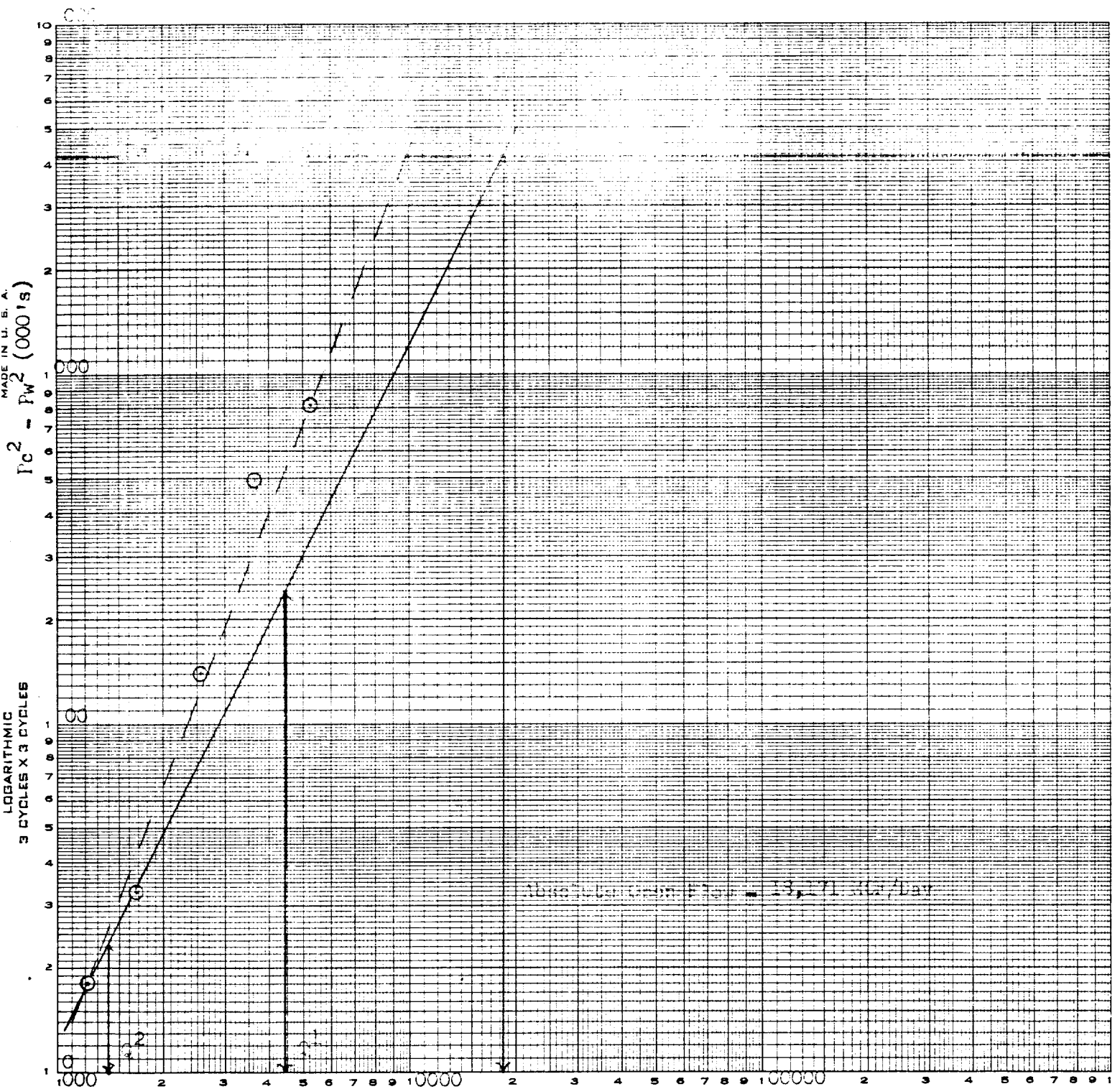


Company: Gulf Oil Corp.
 Lease: Grunberg A Fed.
 Well No: # 1
 Field: Undesignated
 Country: Egypt
 Date: 12-22-77



$$Q_{MCF/D}^1 = 4427; \text{ Log of } Q^1 = 3.646110$$

$$Q^2 = 1400; \text{ Log of } Q^2 = \underline{3.146128}$$

$$N = .499982$$

$$N = .500$$