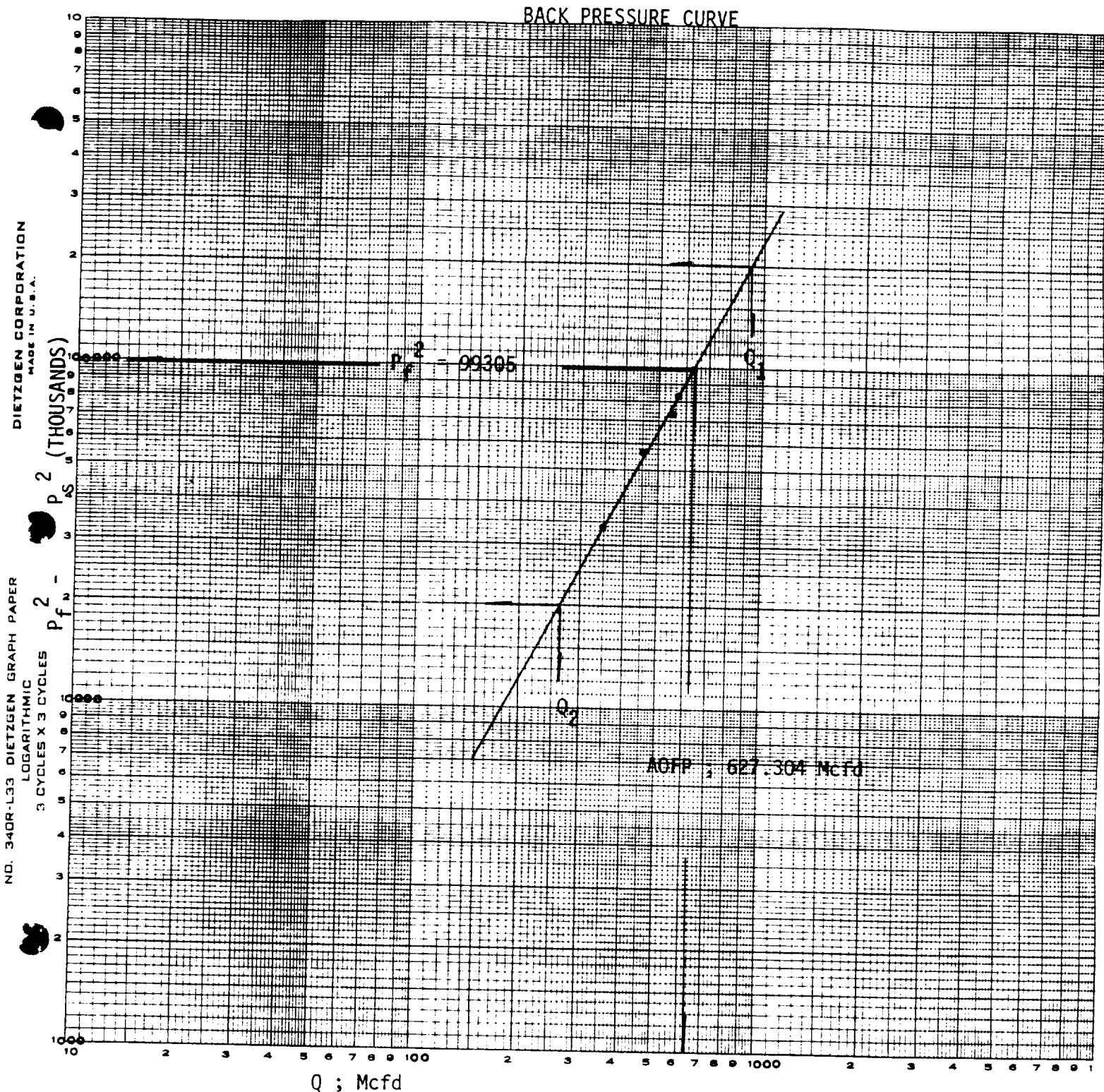


COMPANY : SOUTHLAND ROYALTY COMPANY
 WELL : VACA RIDGE "21" FEDERAL NO. 1
 FIELD : PITCHFORK RANCH (MORROW)
 COUNTY : LEA
 STATE : NEW MEXICO
 DATE : MAY 29, 1985



$Q_1 = 916.484 ; \text{LOG } Q_1 = 2.96212$

$Q_2 = 263.408 ; \text{LOG } Q_2 = 2.42063$

$n = 0.54149$

$\theta = 61.56^\circ$