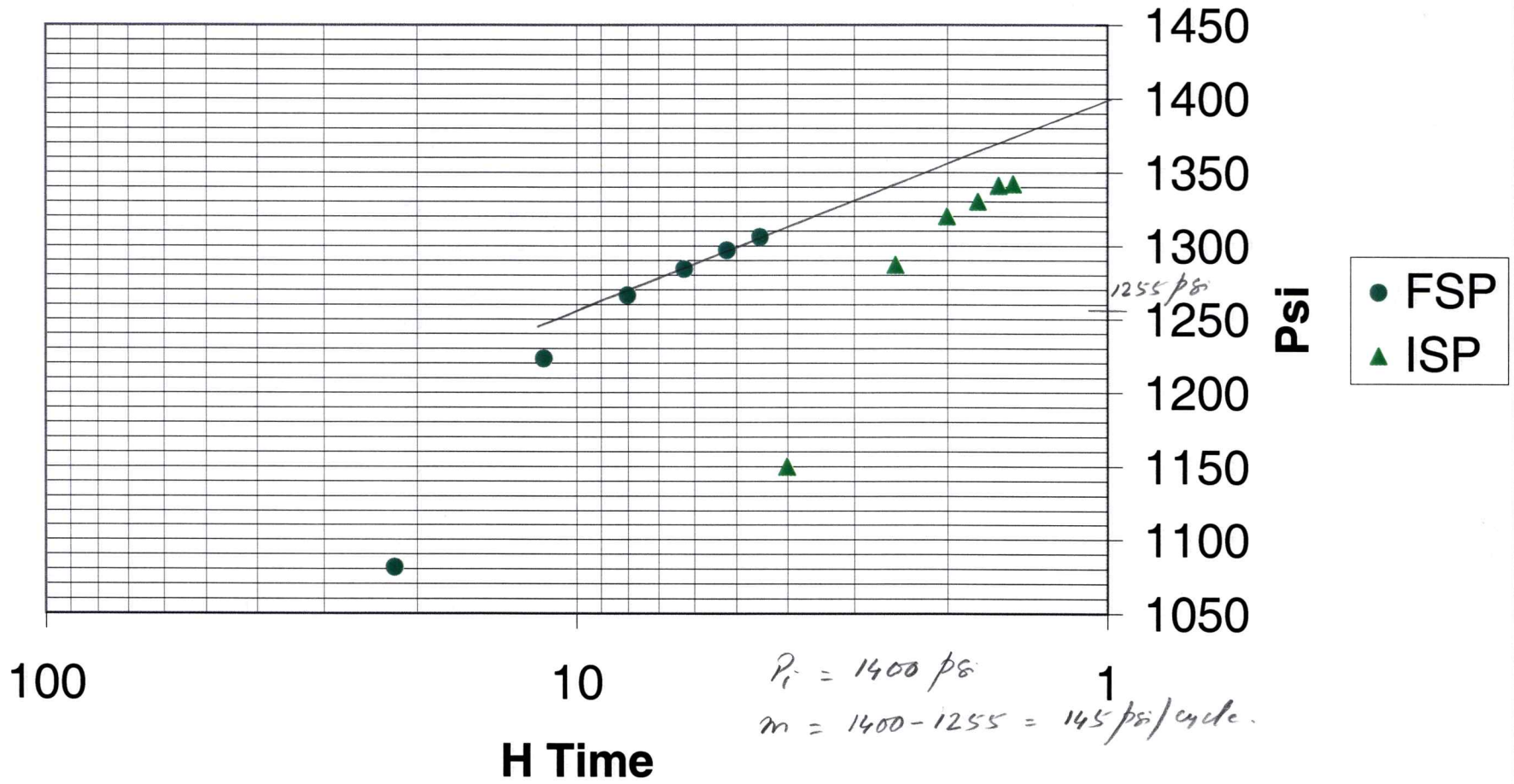


# Moore B5 4385-4395 ft



Well: **Moore B5**  
 DST range: from, ft to, ft thickness, ft  
 4385 4395 10

entered data  
 read from correlations  
 read from Horner plot  
 calculation

**Reservoir gas properties:**

Sp gr., Rog = 0.73 gas specific gravity (avg from 3 samples)  
 Tpc = 386 R pseudocritical temp  
 Ppc = 660 psia pseudocritical pressure

**DST analysis - Oil:**

Pi = 1400 psi  
 m = 145 psi/cycle  
 Qo = 48.3 bbl/d  
 Qg = Mcf/d  
 Pwf = 140 psi (related to Qo - end of second flow)  
 P I hr =

**Transmissibility:**

Kh/Muo = 162.6\*Qo\*Bo/m  
 Bo = 1.03 bbl/STB oil fm vol factor @ BP - Schaben  
 Muo = 1.95 cp at BP - Schaben

GOR, Rs = scf/bbl  
 API stock tank =  
 Sp gr oil, Roo =  
 Res temp = F

Bo = 0.972+0.000147\*(Rs\*(Rog/Roo)^0.5+1.25\*T)^1.175  
 Bo @ bubble pt = bbl/STB

Kh/Muo = 55.818505 md-ft\cp

**Permeability:**

h = 10 ft pay

Muo, 1 atm & res temp = cp  
 Muo, gas sat. = cp

K = 10.9 md

**Production rate calculation:**

**Liquid recovery:**

CO = 180 ft  
 MO = 165 ft Oil % = 60  
 Total = 279 ft

Drill collar length = 0 feet  
 Drill collar ID = 2.25 inch  
 Drill pipe ID = 3.95 inch  
 Fluid in drill collar = 0 feet  
 Fluid in drill pipe = 279 feet

Effective ID = 3.95 inch  
 Effective capacity = 0.01516 bbl/ft

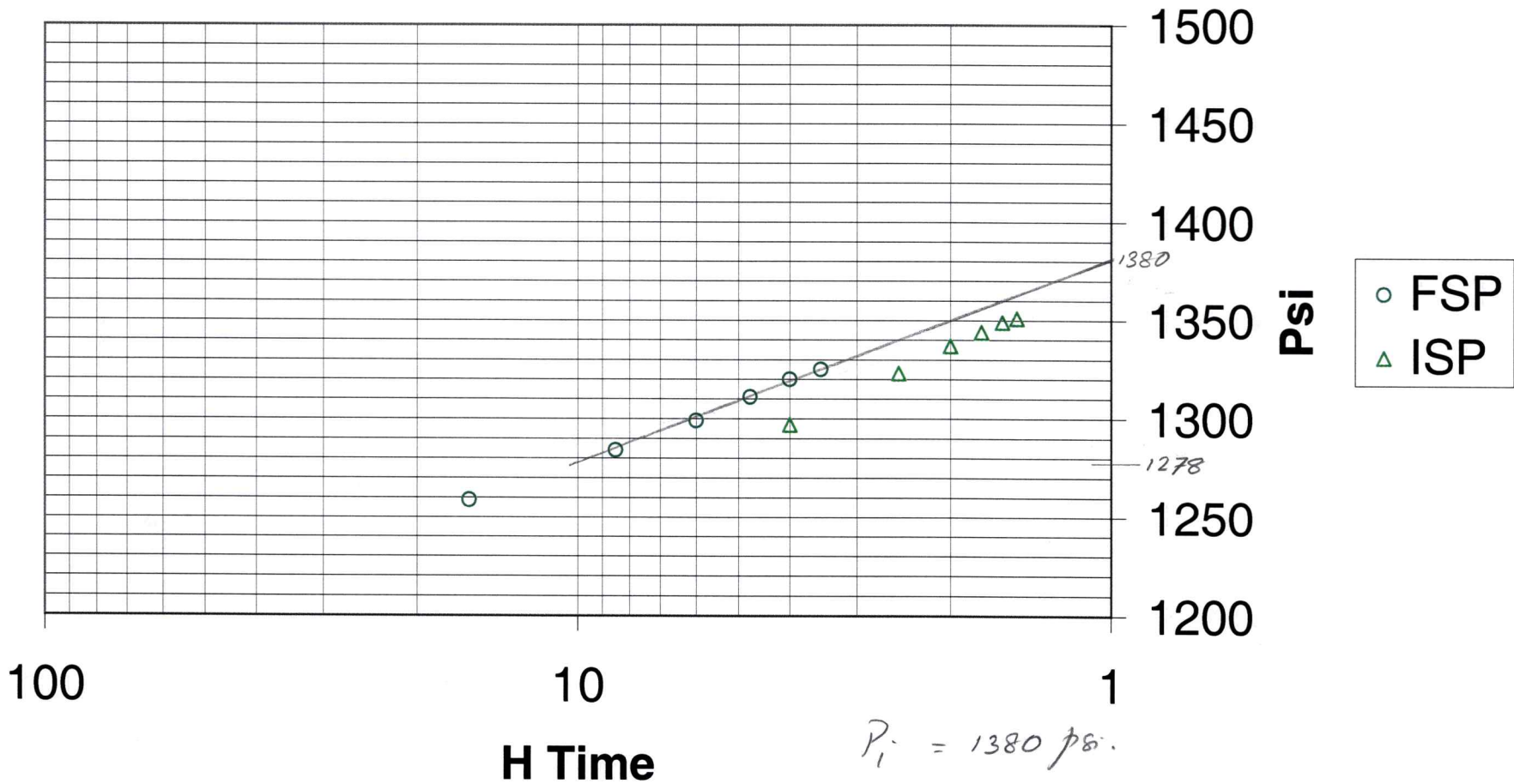
**Pre-flow recovery:**

FFP - end of pre-flow = 40 psi  
 FFP - end of main flow = 140 psi  
 Recovery from pre-flow = 79.7 ft  
 Pre-flow volume = 1.2 bbl  
 Pre-flow time = 15 min  
 Pre-flow rate = 116.0 bbl/d

**Main-flow recovery:**

Recovery from main-flow = 199.3 ft  
 Main-flow volume = 3.02 bbl  
 Main flow time = 90 mins  
 Main-flow rate = 48.3 bbl/d

# Moore B5 4395-4405 ft



$P_i = 1380$  psi.  
 $m = 1380 - 1278 =$

**Well:** **Moore B5**  
 DST range: from, ft to, ft thickness, ft  
 4395 4405 10

entered data  
 read from correlations  
 read from Horner plot  
 calculation

**Reservoir gas properties:**

Sp gr., Rog = 0.73 gas specific gravity (avg from 3 samples)  
 Tpc = 386 R pseudocritical temp  
 Ppc = 660 psia pseudocritical pressure

**DST analysis - Oil:**

Pi = 1380 psi  
 m = 102 psi/cycle  
 Qo = 97.4 bbl/d  
 Qg = Mcf/d  
 Pwf = 199 psi (related to Qo - end of second flow)  
 P I hr =

**Transmissibility:**

Kh/Muo = 162.6\*Qo\*Bo/m  
 Bo = 1.03 bbl/STB oil fm vol factor @ BP - Schaben  
 Muo = 1.95 cp at BP - Schaben

GOR, Rs = scf/bbl  
 API stock tank =  
 Sp gr oil, Roo =  
 Res temp = F

Bo = 0.972+0.000147\*(Rs\*(Rog/Roo)^0.5+1.25\*T)^1.175  
 Bo @ bubble pt = bbl/STB

Kh/Muo = 159.96879 md-ft/cp

**Permeability:**

h = 10 ft pay

Muo, 1 atm & res temp = cp  
 Muo, gas sat. = cp

K = 31.2 md

**Production rate calculation:**

**Liquid recovery:**

CO = 266 ft  
 MO = 240 ft Oil % = 60  
 Total = 410 ft

Drill collar length = 0 feet  
 Drill collar ID = 2.25 inch  
 Drill pipe ID = 3.95 inch  
 Fluid in drill collar = 0 feet  
 Fluid in drill pipe = 410 feet

Effective ID = 3.95 inch  
 Effective capacity = 0.01516 bbl/ft

**Pre-flow recovery:**

FFP - end of pre-flow = 69 psi  
 FFP - end of main flow = 199 psi  
 Recovery from pre-flow = 142.2 ft  
 Pre-flow volume = 2.2 bbl  
 Pre-flow time = 15 min  
 Pre-flow rate = 206.8 bbl/d

**Main-flow recovery:**

Recovery from main-flow = 267.8 ft  
 Main-flow volume = 4.06 bbl  
 Main flow time = 60 mins  
 Main-flow rate = 97.4 bbl/d