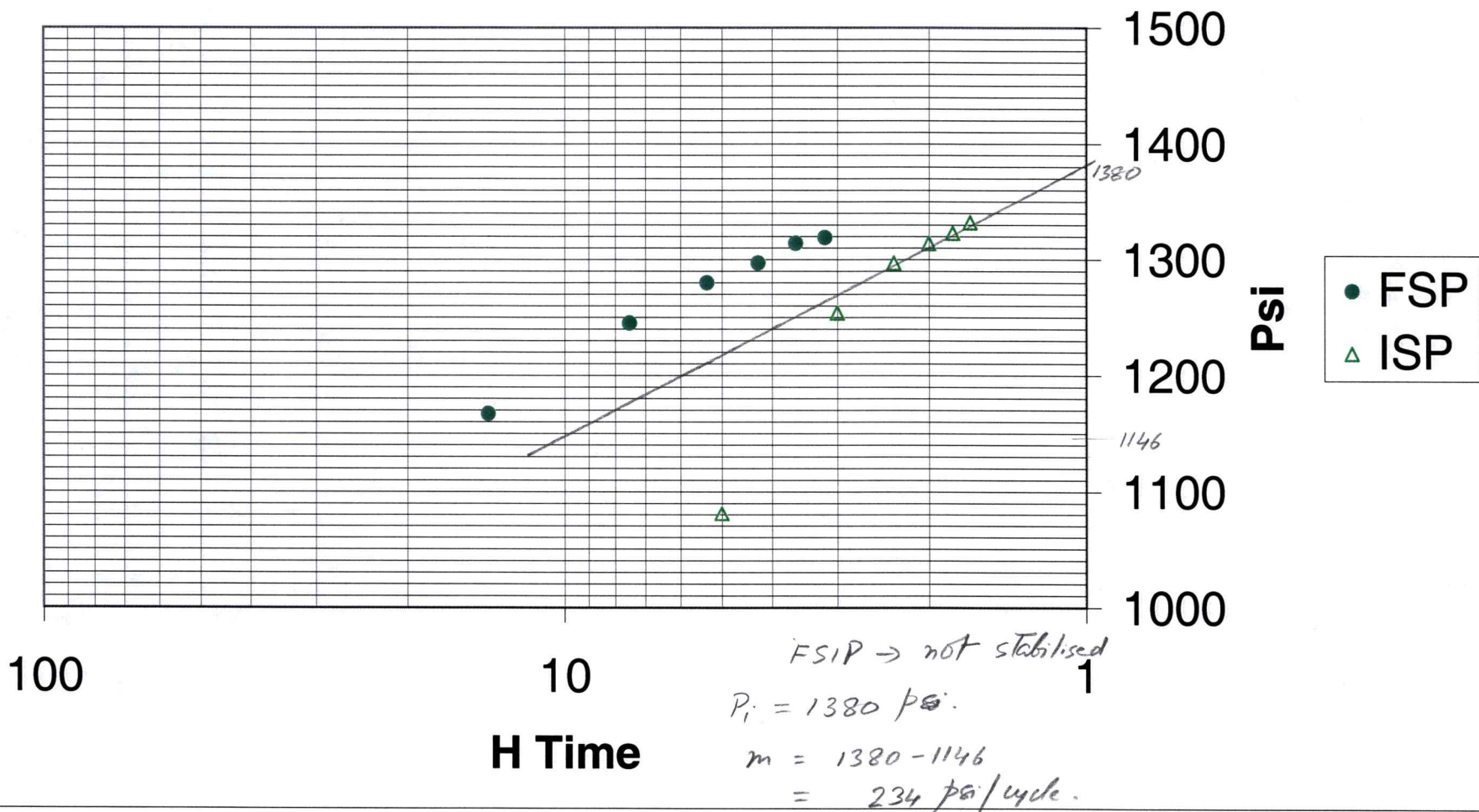


Moore D2 4365-4386 ft



Well: **Moore D2**
 DST range: from, ft to, ft thickness, ft
 4365 4386 21

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 = 234 psi/cycle
 Qo = 70.9 bbl/d (FSIP not stabilised)
 Qg = Mcf/d
 Pwf = 69 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 = 50.741362 md-ft\cp

Permeability:

h = 21 ft pay

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

K = 4.7 md

FO, ft
 OCM, ft oil %

Production rate calculation:

Liquid recovery:

FO 0 ft
 GMO 139 ft Oil % = 75
 Total = 104.25 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 = 104.25 feet

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

Pre-flow recovery:

FFP - end of pre-flow = 43 psi
 FFP - end of main flow = 69 psi

Recovery from pre-flow = 65.0 ft
 Pre-flow volume = 1.0 bbl
 Pre-flow time = 20 min

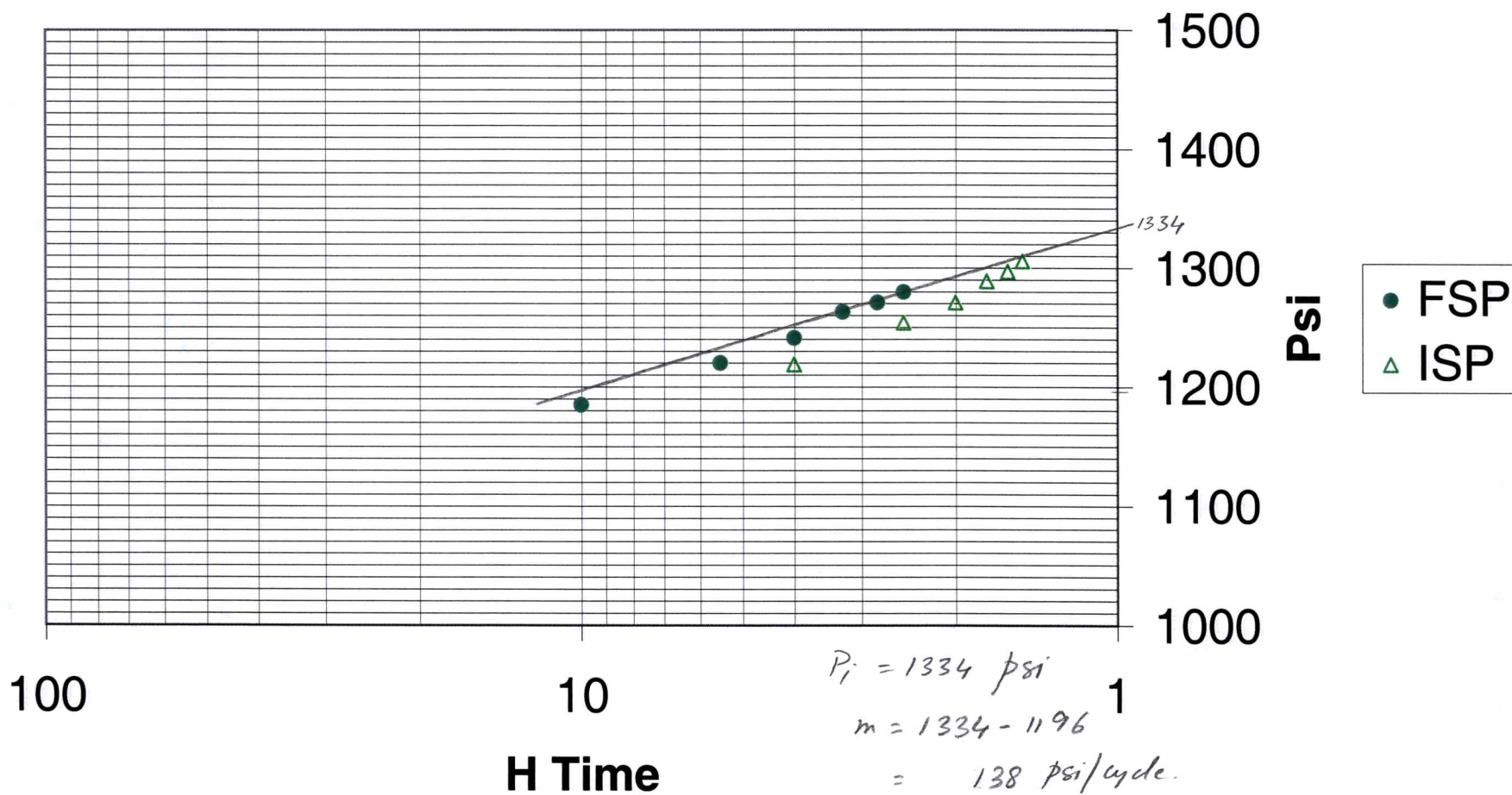
Pre-flow rate = 70.9 bbl/d

Main-flow recovery:

Recovery from main-flow = 39.3 ft
 Main-flow volume = 0.60 bbl
 Main flow time = 45 mins

Main-flow rate = 19.1 bbl/d

Moore D2 4386-4393 ft



Well: **Moore D2**
 DST range: from, ft to, ft thickness, ft
 4386 4393 7

entered data
 read from correlations
 read from Homer 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 = 1334 psi
 m = 138 psi/cycle
 Qo = 530.7 bbl/d (FSIP not stabilised)
 Qg = Mcf/d
 Pwf = 475 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 = 644.03512 md-ft\cp

Permeability:

h = 7 ft pay

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

K = 179.4 md

FO, ft
 OCM, ft oil %

Production rate calculation:

Liquid recovery:

FO 1291 ft
 MO 78 ft Oil % = 60
 Total = 1337.8 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 = 1337.8 feet

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

Pre-flow recovery:

FFP - end of pre-flow = 216 psi
 FFP - end of main flow = 475 psi
 Recovery from pre-flow = 608.3 ft
 Pre-flow volume = 9.2 bbl
 Pre-flow time = 15 min
 Pre-flow rate = 885.1 bbl/d

Main-flow recovery:

Recovery from main-flow = 729.5 ft
 Main-flow volume = 11.06 bbl
 Main flow time = 30 mins
 Main-flow rate = 530.7 bbl/d