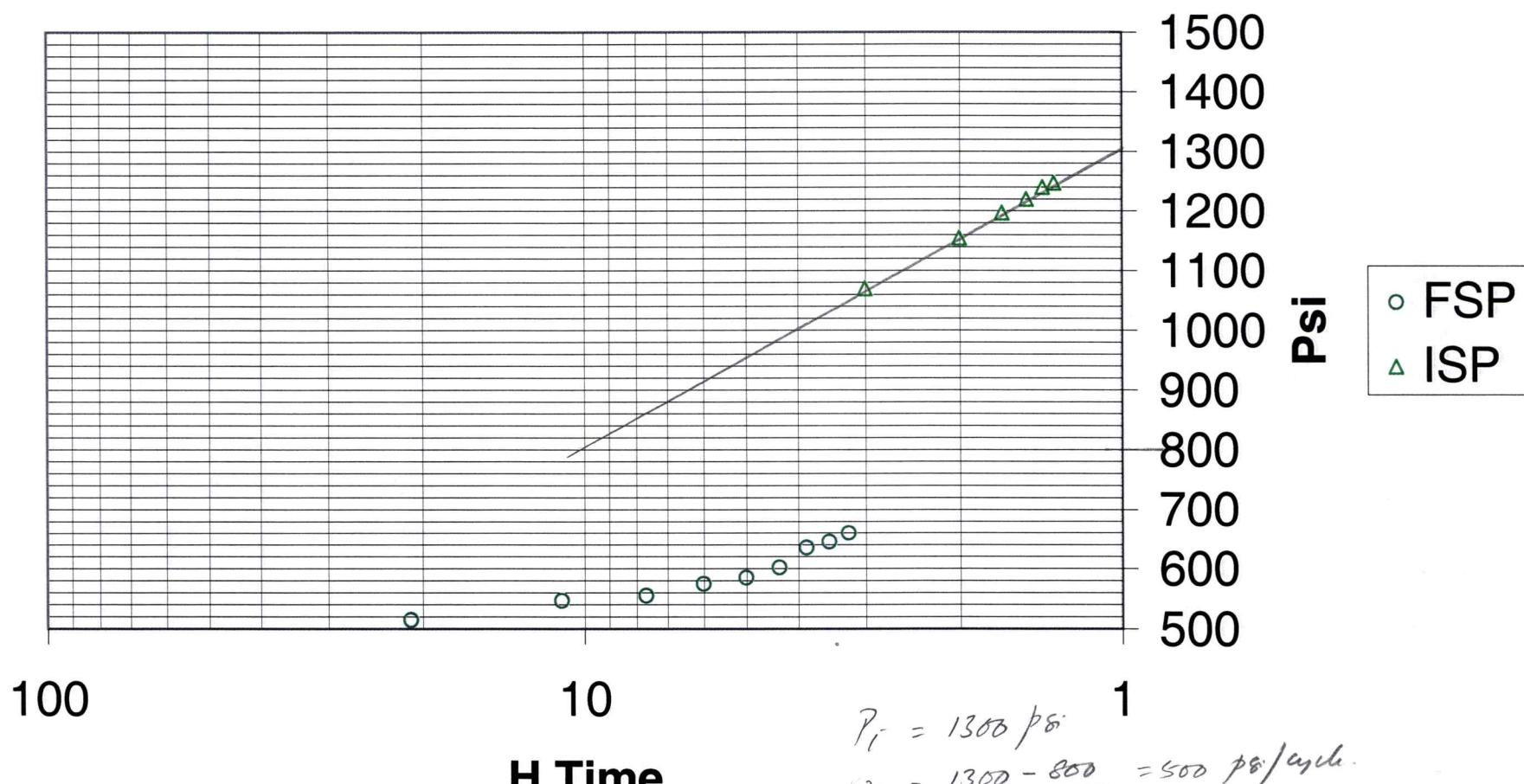


Moore B1
4396-4410 ft



Well: Moore B1
 DST range: from, ft to, ft thickness, ft
 4396 4410 14

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 = 1300 psi
 m = 500 psi/cycle
 Qo = 785.4 bbl/d (during IFP - FSIP inaccurate)
 Qg = Mcf/d
 Pwf = 405 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 = 263.06695 md-ft\cp

Permeability:

h = 14 ft pay

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

K = 36.6 md

Production rate calculation:

Liquid recovery:

CGO = 766 ft
 VHMCGO = 514 ft Oil % =
 Total = 971.6 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 = 971.6 feet

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

Pre-flow recovery:

FFP - end of pre-flow = 150 psi
 FFP - end of main flow = 405 psi

Recovery from pre-flow = 359.9 ft
 Pre-flow volume = 5.5 bbl
 Pre-flow time = 10 min

Pre-flow rate = 785.4 bbl/d

Main-flow recovery:

Recovery from main-flow = 611.7 ft
 Main-flow volume = 9.27 bbl
 Main flow time = 90 mins

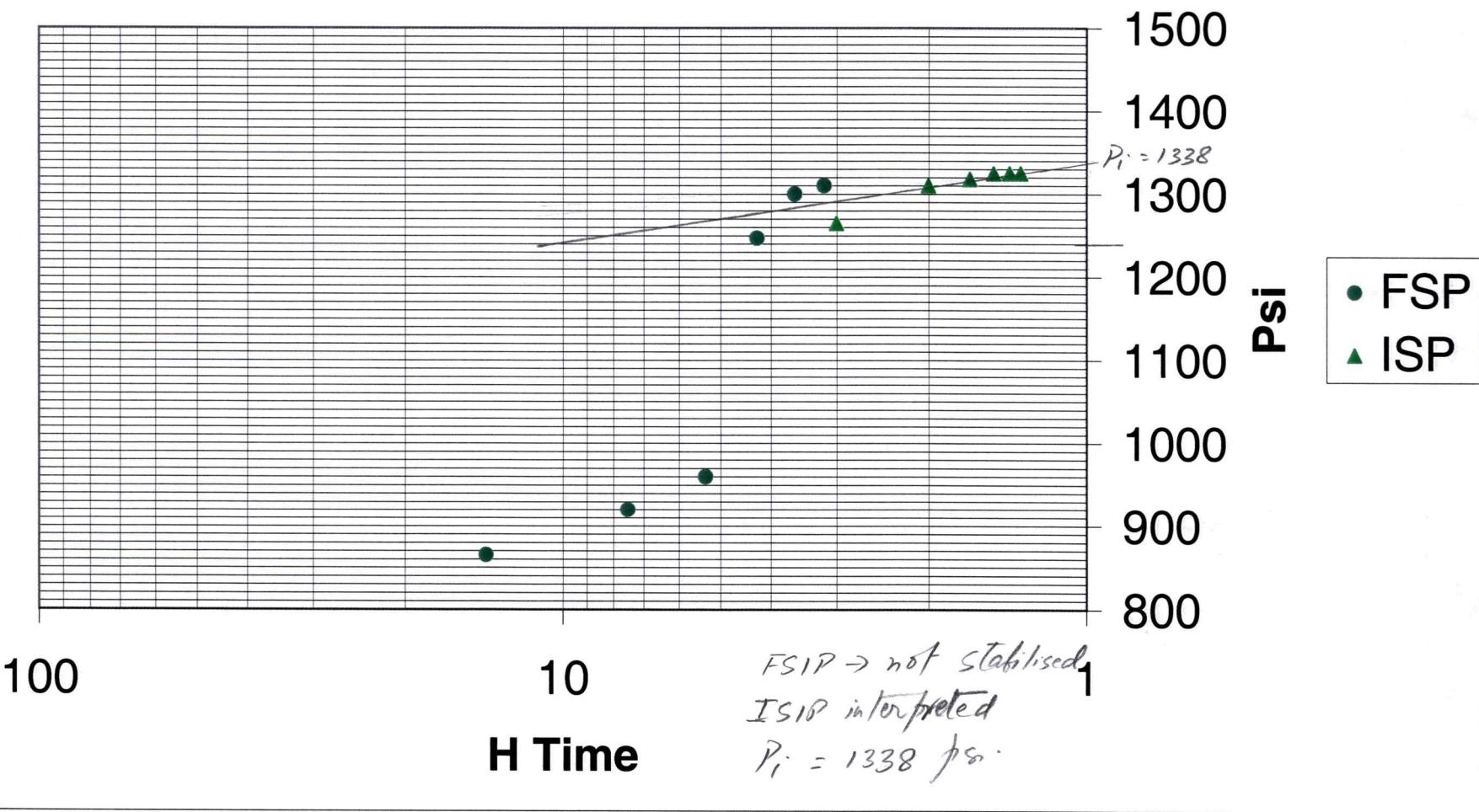
Main-flow rate = 148.3 bbl/d

40

74

Moore B1

4410-4420 ft



Well: **Moore B1**
 from, ft to, ft thickness, ft
 DST range: 4410 4420 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 = **1325** psi
 m = **98** psi/cycle
 Qo = **317.0** bbl/d (FSIP not stabilised. ISIP interpreted)
 Qg = **0** Mcf/d
 Pwf = **195** 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 = **195** bbl/STB

Kh/Muo = **541.72114** md-ft\cp

Permeability:

h = **10** ft pay

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

K = **105.6** md

Production rate calculation:

Liquid recovery:

FO **176** ft
 HOGCM **381** ft
 Total = **404.6** ft Oil % = **60**

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 = **404.6** feet

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

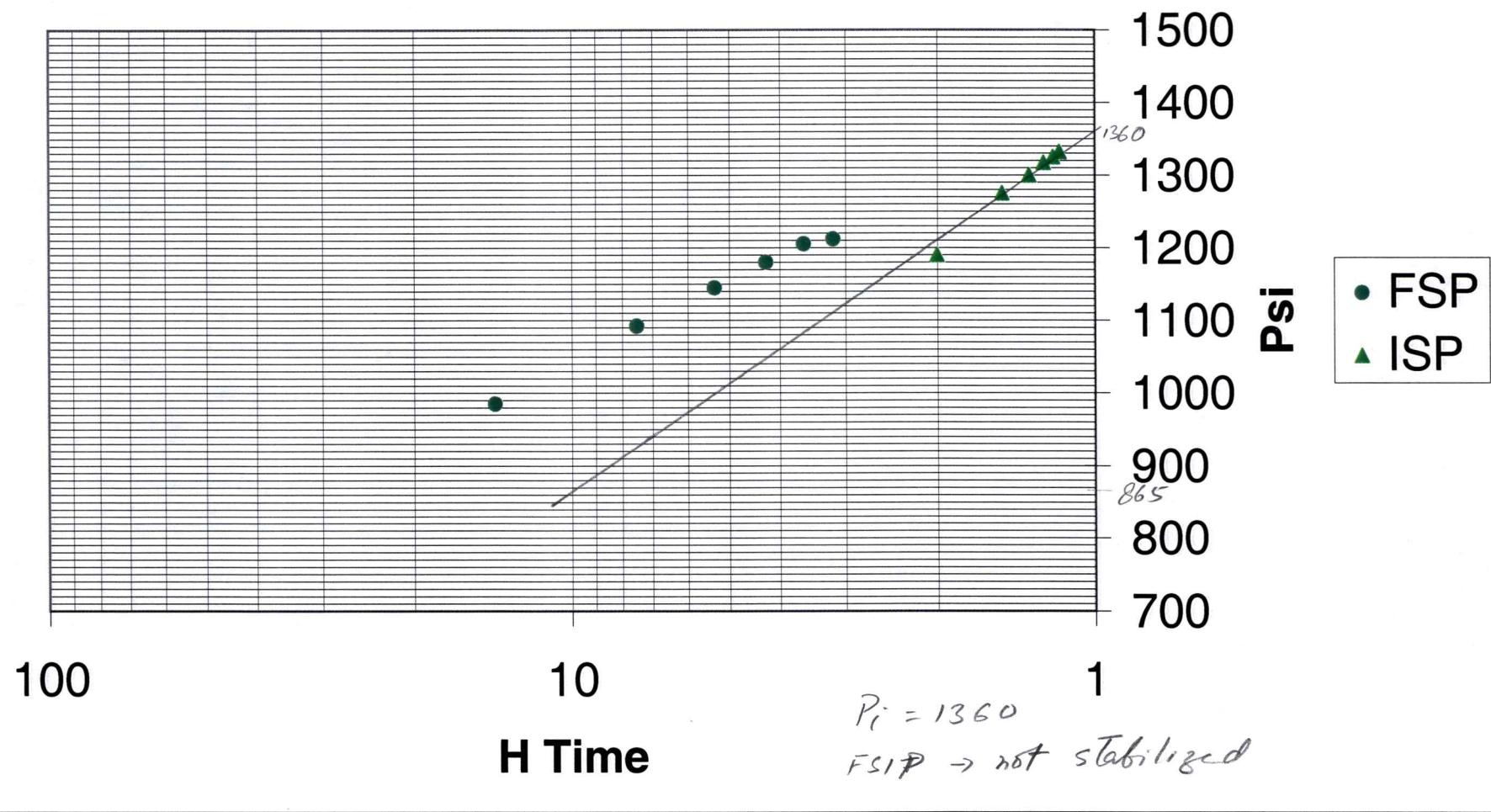
Pre-flow recovery:

FFP - end of pre-flow = **70** psi
 FFP - end of main flow = **195** psi
 Recovery from pre-flow = **145.2** ft
 Pre-flow volume = **2.2** bbl
 Pre-flow time = **10** min
 Pre-flow rate = **317.0** bbl/d

Main-flow recovery:

Recovery from main-flow = **259.4** ft
 Main-flow volume = **3.93** bbl
 Main flow time = **120** mins
 Main-flow rate = **47.2** bbl/d

Moore B1
4420-4430 ft



$$\begin{aligned}m \text{ from ISIT} &= 1360 - 865 \\&= 495 \text{ psi/cycle.}\end{aligned}$$

Well: Moore B1
 from, ft 4420 to, ft 4430 thickness, ft 10
 DST range:

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 = 1360 psi
 m = 495 psi/cycle
 Qo = 1038.5 bbl/d (FSIP not stabilised. ISIP interpreted)
 Qg = Mcf/d
 Pwf = 405 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 = 351.38168 md-ft/cp

Permeability:

h = 10 ft pay

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

K = 68.5 md

Production rate calculation:

Liquid recovery:

FO 693 ft
 HMGCO 451 ft
 Total = 963.6 ft Oil % = 60

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 = 963.6 feet

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

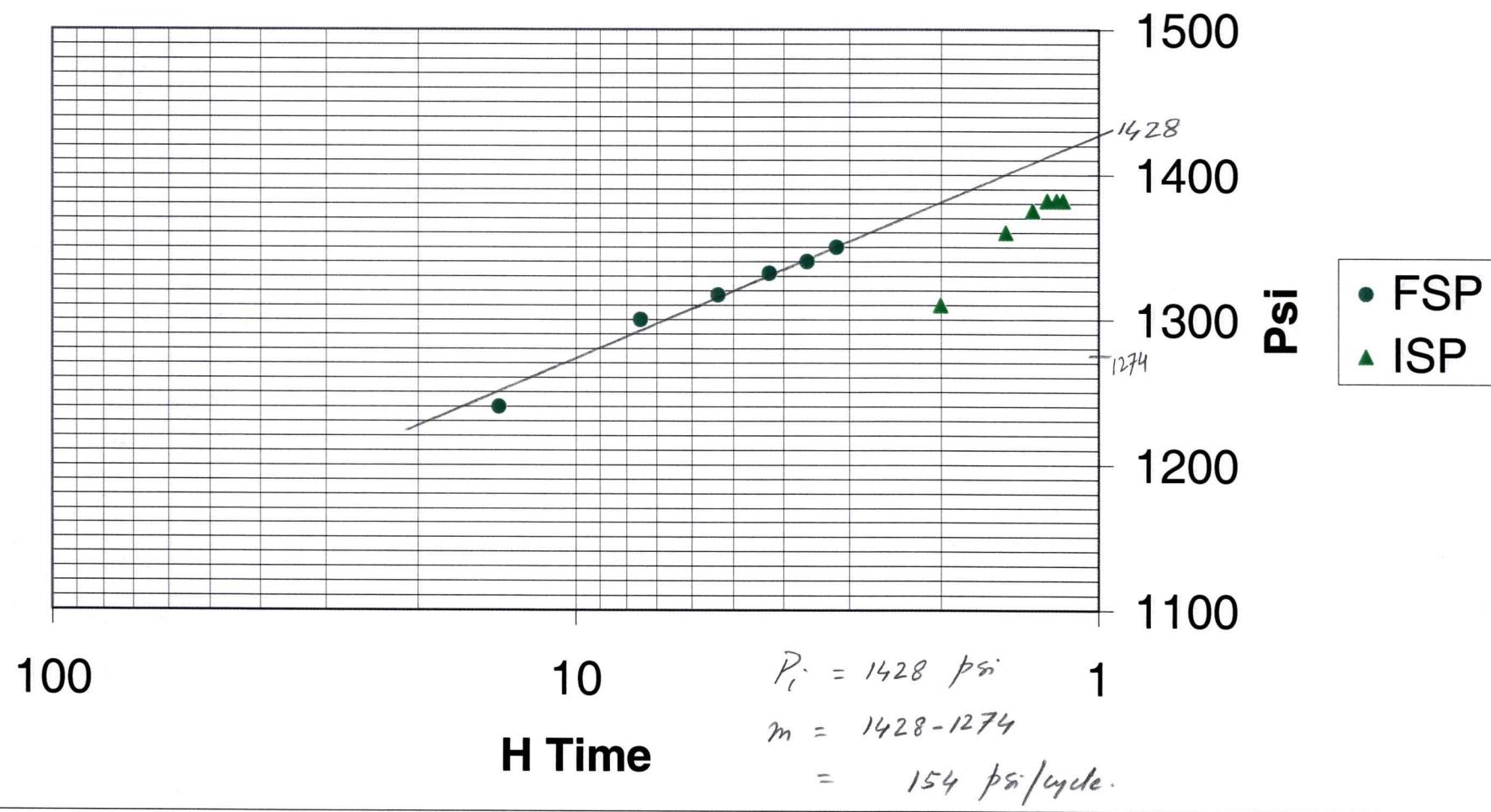
Pre-flow recovery:

FFP - end of pre-flow = 100 psi
 FFP - end of main flow = 405 psi
 Recovery from pre-flow = 237.9 ft
 Pre-flow volume = 3.6 bbl
 Pre-flow time = 5 min
 Pre-flow rate = 1038.5 bbl/d

Main-flow recovery:

Recovery from main-flow = 725.7 ft
 Main-flow volume = 11.00 bbl
 Main flow time = 60 mins
 Main-flow rate = 264.0 bbl/d

Moore B1
4430-4440 ft



Well: Moore B1
 from, ft to, ft thickness, ft
 DST range: 4430 4440 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 = 1428 psi
 m = 154 psi/cycle
 Qo = 288.1 bbl/d
 Qg = Mcf/d
 Pwf = 415 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 = 313.30387 md-ft/cp

Permeability:

h = 10 ft pay

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

K = 61.1 md

Production rate calculation:

Liquid recovery:

FGOSMC 996 ft
 FW 130 ft
 Total = 996 ft Oil % = 0

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 = 996 feet

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

Pre-flow recovery:

FFP - end of pre-flow = 85 psi
 FFP - end of main flow = 415 psi
 Recovery from pre-flow = 204.0 ft
 Pre-flow volume = 3.1 bbl
 Pre-flow time = 5 min
 Pre-flow rate = 890.5 bbl/d

Main-flow recovery:

Recovery from main-flow = 792.0 ft
 Main-flow volume = 12.00 bbl
 Main flow time = 60 mins
 Main-flow rate = 288.1 bbl/d