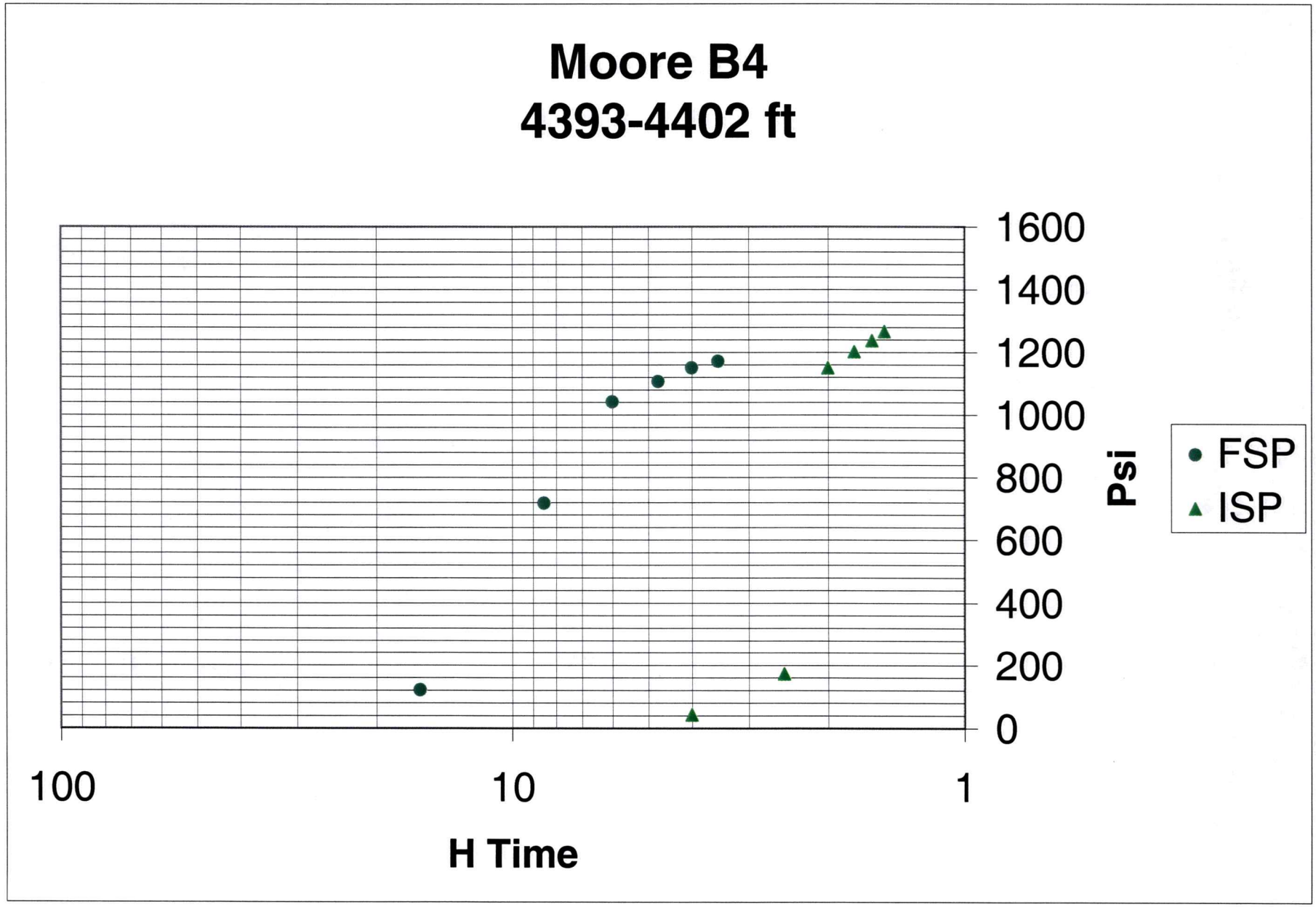
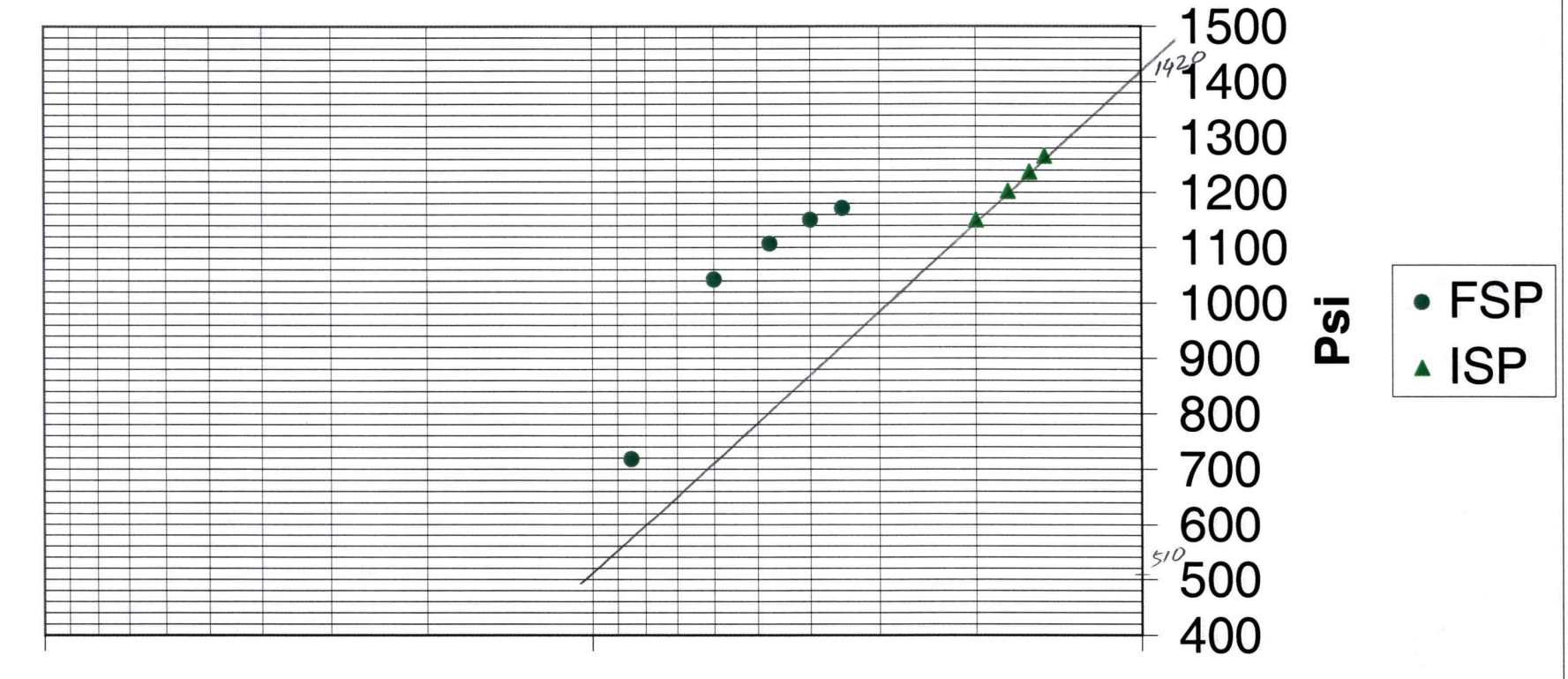

Moore B4
4393-4402 ft
1600
1400
1200
1000
800
600
400
200
0
Psi
FSP
ISP
100
10
1
H Time

Moore B4
4393-4402 ft



FSIP → not stabilized
P_i = 1420 psi
m = 1420 - 510 = 910 psi/cycle.

Well: **Moore B4**

	from, ft	to, ft	thickness, ft
DST range:	4393	4402	9

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 =	1430	psi	
m =	910	psi/cycle	
Qo =	27.3	bbl/d	(FSIP not stabilised)
Qg =		Mcf/d	
Pwf =	57	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 =			74
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 =	5.0324052	md-ft\cp

Permeability:

h =	9	ft

pay

Muo, 1 atm & res temp =		cp
Muo, gas sat. =		cp
K =	1.1	md

Production rate calculation:

Liquid recovery:

FO		ft	
HOCM	103	ft	Oil % = 40
Total =	41.2	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 =	41.2	feet
Effective ID =	3.95	inch
Effective capacity =	0.01516	bbl/ft

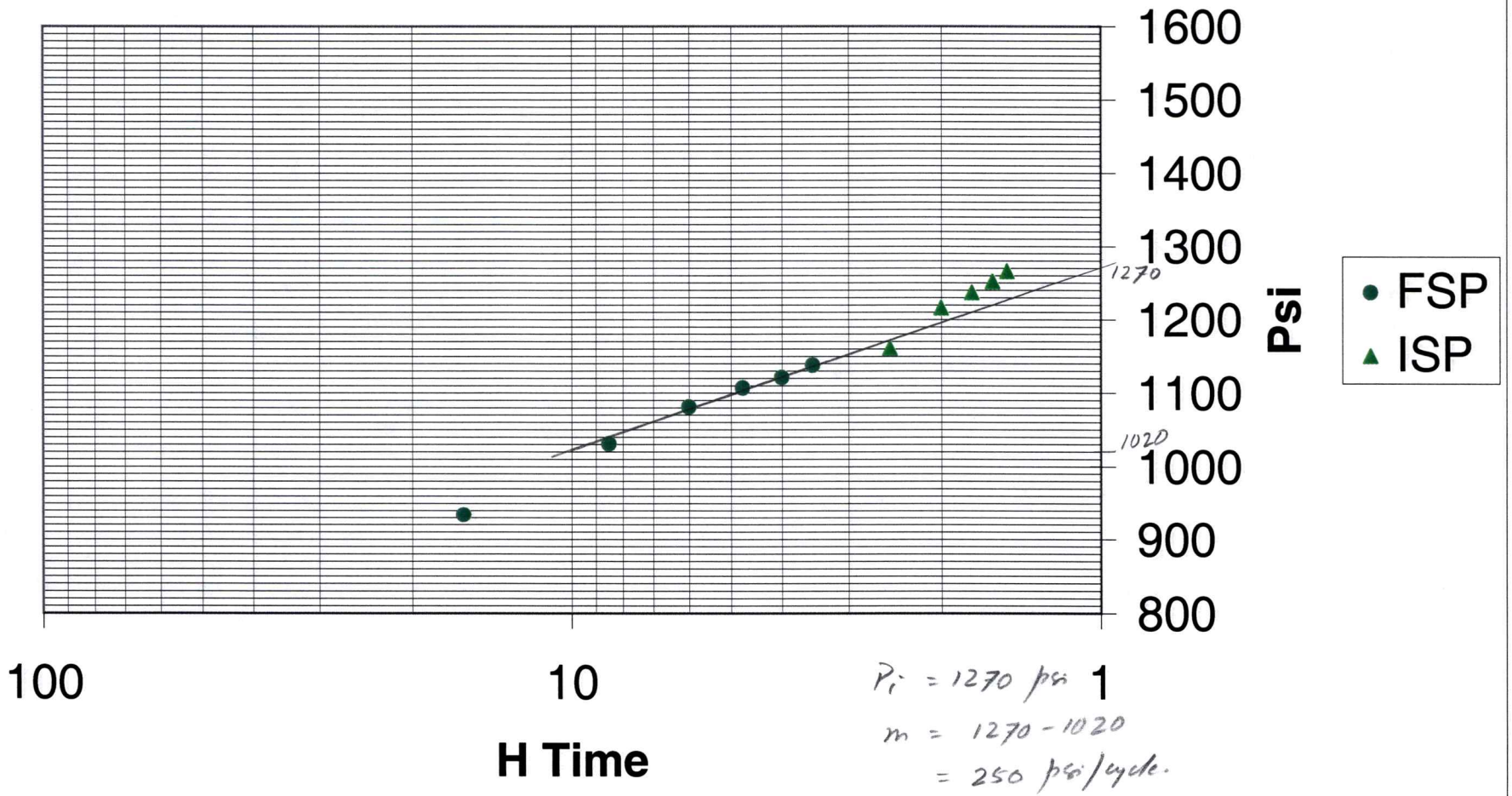
Pre-flow recovery:

FFP - end of pre-flow =	26	psi
FFP - end of main flow =	57	psi
Recovery from pre-flow =	18.8	ft
Pre-flow volume =	0.3	bbl
Pre-flow time =	15	min
Pre-flow rate =	27.3	bbl/d

Main-flow recovery:

Recovery from main-flow =	22.4	ft
Main-flow volume =	0.34	bbl
Main flow time =	60	mins
Main-flow rate =	8.2	bbl/d

Moore B4
4402-4412 ft



Well: **Moore B4**

	from, ft	to, ft	thickness, ft
DST range:	4402	4412	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 =	1270	psi	
m =	250	psi/cycle	
Qo =	56.3	bbl/d	
Qg =		Mcf/d	
Pwf =	104	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 =			74
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 =	37.685937	md-ft\cp

Permeability:

h =	10	ft	pay
Muo, 1 atm & res temp =		cp	
Muo, gas sat. =		cp	
K =	7.3	md	

Production rate calculation:

Liquid recovery:

SMO	63	ft	
HOCM	189	ft	Oil % = 90
Total =	233.1	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 =	233.1	feet
Effective ID =	3.95	inch
Effective capacity =	0.01516	bbl/ft

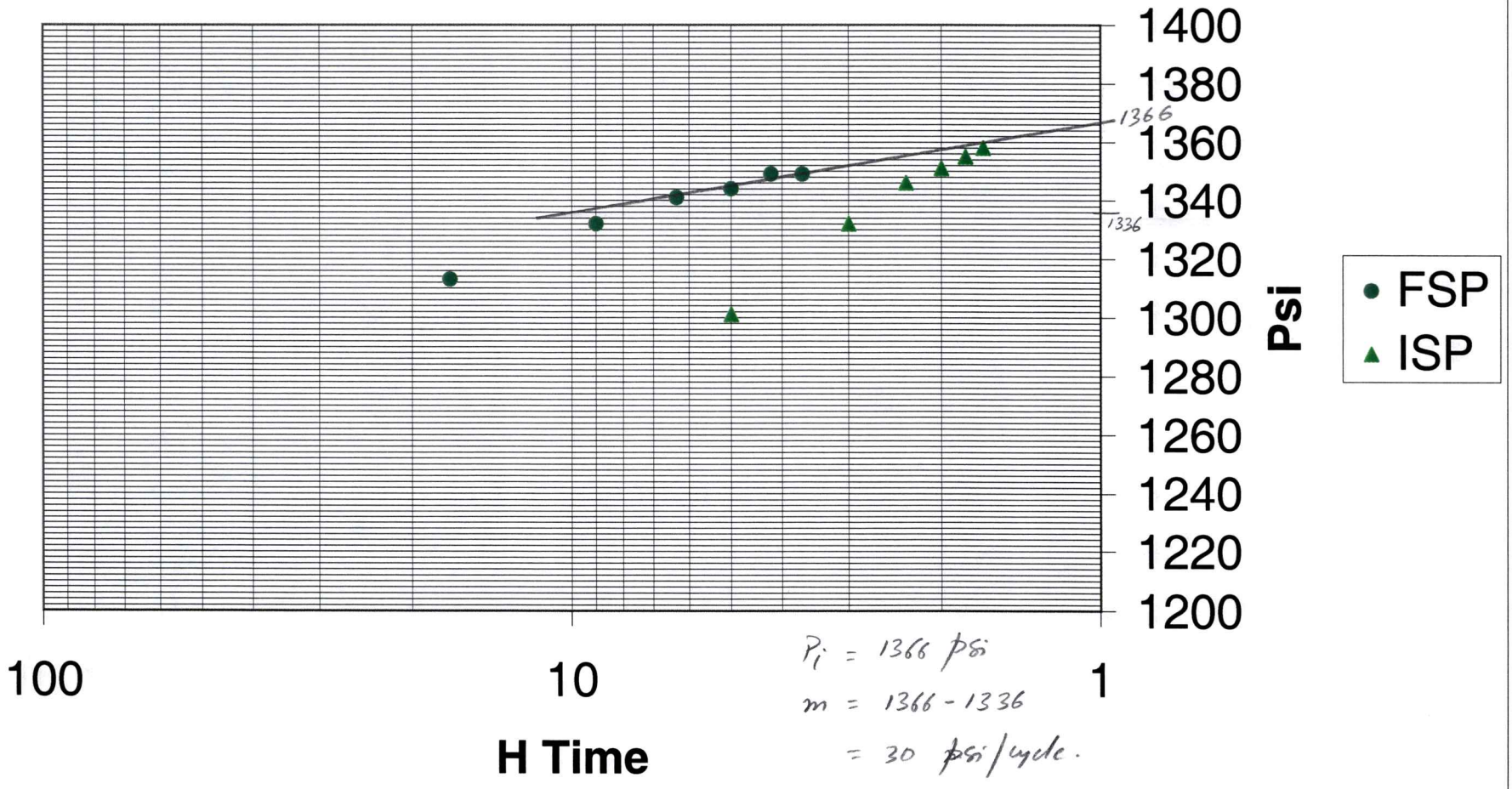
Pre-flow recovery:

FFP - end of pre-flow =	35	psi
FFP - end of main flow =	104	psi
Recovery from pre-flow =	78.4	ft
Pre-flow volume =	1.2	bbl
Pre-flow time =	15	min
Pre-flow rate =	114.1	bbl/d

Main-flow recovery:

Recovery from main-flow =	154.7	ft
Main-flow volume =	2.34	bbl
Main flow time =	60	mins
Main-flow rate =	56.3	bbl/d

Moore B4
4412-4422 ft



Well: **Moore B4**

	from, ft	to, ft	thickness, ft
DST range:	4412	4422	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 =	1366	psi	
m =	30	psi/cycle	
Qo =	197.6	bbl/d	
Qg =		Mcf/d	
Pwf =	348	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 =			74
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 =	1103.0757	md-ft\cp

Permeability:

h =	10	ft pay
Muo, 1 atm & res temp =		cp
Muo, gas sat. =		cp
K =	215.1	md

FO, ft	519		
SMO, ft	180	Oil %	90
Oil in FO + SMO	681	ft	

Production rate calculation:

Liquid recovery:

FO + SMO	681	ft	
MO	240	ft	Oil % = 50
Total =	801	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 =	801	feet
Effective ID =	3.95	inch
Effective capacity =	0.01516	bbl/ft

Pre-flow recovery:

FFP - end of pre-flow =	112	psi
FFP - end of main flow =	348	psi
Recovery from pre-flow =	257.8	ft
Pre-flow volume =	3.9	bbl
Pre-flow time =	20	min
Pre-flow rate =	281.3	bbl/d

Main-flow recovery:

Recovery from main-flow =	543.2	ft
Main-flow volume =	8.23	bbl
Main flow time =	60	mins
Main-flow rate =	197.6	bbl/d