

**NOMENCLATURE (Definition of Symbols)**

Q	= average production rate during test, bbls./day
Q <sub>g</sub>	= measured gas production rate during test, MCF/day
k	= permeability, md
h	= net pay thickness, ft. (when unknown, test interval is chosen)
μ	= fluid viscosity, centipoise
Z	= compressibility factor
T <sub>r</sub>	= reservoir temperature, ° Rankine
m	= slope of final SIP buildup plot, psig/cycle (psig <sup>2</sup> /cycle for gas)
b	= approximate radius of investigation, feet
r <sub>w</sub>	= wellbore radius, feet
t <sub>o</sub>	= total flowing time, minutes
P <sub>o</sub>	= Extrapolated maximum reservoir pressure, psig
P <sub>f</sub>	= final flowing pressure, psig
P.I.	= productivity index, bbls./day/psi
P.I. <sub>t</sub>	= theoretical productivity index with damage removed, bbl./day/psi
D.R.	= damage ratio
E.D.R.	= estimated damage ratio
AOF	= absolute open flow potential, MCF/D
AOF <sub>t</sub>	= theoretical absolute open flow if damage were removed
Z	= subsea depth
W	= water gradient based on salinity
H <sub>w</sub>	= potentiometric surface

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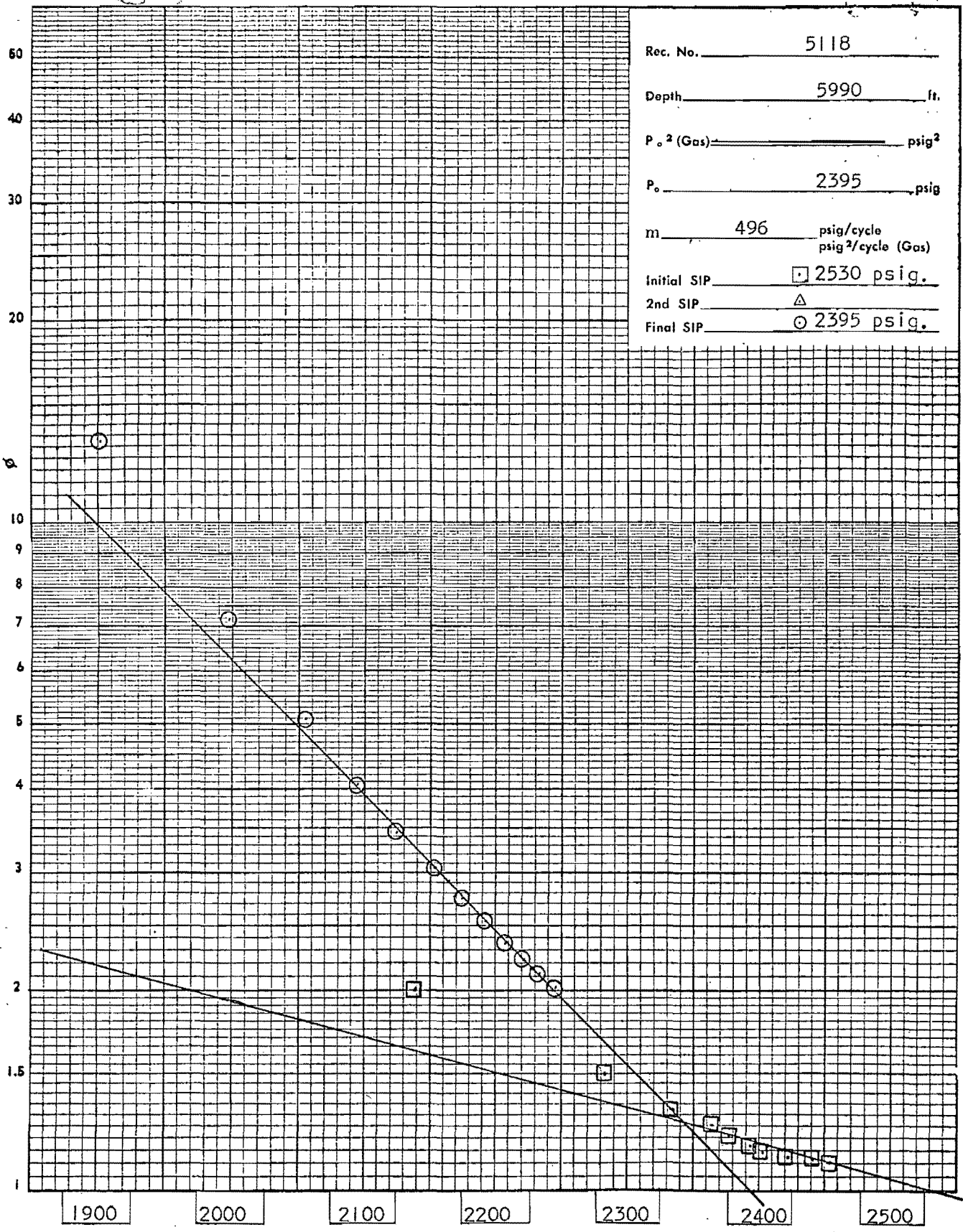
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**DEFINITION OF SYMBOLS**



Rec. No. 5118  
 Depth 5990 ft.  
 P<sub>o</sub><sup>2</sup> (Gas) \_\_\_\_\_ psig<sup>2</sup>  
 P<sub>o</sub> 2395 psig  
 m 496 psig/cycle  
           psig<sup>2</sup>/cycle (Gas)  
 Initial SIP □ 2530 psig.  
 2nd SIP △  
 Final SIP ○ 2395 psig.

$\frac{t_o + \phi}{\phi}$



PSIG (OIL OR WATER)

DST # 7

PRESSURE EXTRAPOLATION PLOT