

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY MA Production Co. LEASE Challenger Bayreath WELL NO. 1 DATE 4-23-84

LOCATION: Unit P Section 19 Township 21S Range 27E
L 11259 H 11259 L/H G 0.600 %CO₂ 0.978 %N₂ 0.211 %H₂S

GH 6755.4 P_{cr} 671 T_{cr} 358
4th TABLE IX & X TABLE IX & X

LINE		1	2	3	4	5	6	7	8
1	T _w (W.H. • R)	530	530						
2	T _s (B.H. • R)	647	647						
3	T = ($\frac{T_w + T_s}{2}$)	589	589						
4	Z (Est.)	.888	.896						
5	TZ	523	528						
6	GH/TZ	12.9167	12.7943						
7	e ^s (Table XIV)	1.62	1.62						
8	P _f or P _s	1200.2	1200.2						
9	P _f ² or P _s ²	1440.5	1440.5						
10	P _c ² = P _f ² /e ^s or P _w ² = P _s ² /e ^s	889.2	889.2						
11	P _c or P _w	943.0	943.0						
12	P • ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	1071.6	1071.6						
13	P _r = (P/P _{cr})	1.60	1.60						
14	T _r = (T/T _{cr})	1.65	1.65						
15	Z (Table XI)		.896						