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

Form C-122F
Adopted 9-1-65

Flow Rate No. 2

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Gulf Oil Corporation LEASE Helbing Fed. Gas (Comm) WELL NO. 1 DATE May 23, 1966

LOCATION: Unit F Section 15 Township 22 S Range 23 E

L 7150 H 7150 L/H 1.000 G .677 % CO_2 0.51 % N_2 0.90 % H_2S 0.37

GH 4841 P_{cr} 669 (TABLE IX & X) T_{cr} 382 (TABLE IX & X)

LINE		1	2	3	4	5	6	7	8
1	T_w(W.H. °R)	531	531						
2	T_s(B.H. °R)	612	612						
3	$T=(\frac{T_w + T_s}{2})$	571	571						
4	Z (Est.)	.782	.766						
5	TZ	447	437						
6	GH/TZ	10.830	11.078						
7	e^S(Table XIV)	1.501	1.515						
8	P_f or P_s	2760	2760						
9	P_f^2 or P_s^2	7617.6	7617.6						
10	$P_c^2 = P_f^2/e^S$ or $P_w^2 = P_s^2/e^S$	5075.0	5028.1						
11	P_c or P_w	2253	2242						
12	$P=(\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	2507	2501						
13	$P_r = (P/P_{cr})$	3.75	3.74						
14	$T_r = (T/T_{cr})$	1.49	1.49						
15	Z (Table XI)	.766	.766						

One copy to be filed in District Office (Work copy acceptable)