

WORK SHEET FOR CALCULATING EQUIVALENT STATIC WELLHEAD PRESSURE

LEASE Barragree WELL NO. 1-25 FIELD _____ COUNTY Meade DATE 4-21-80
 % CO₂ _____ α_m 692 P_{cr} 668 T_{or} 395 FLOW STRING 1-1/4
 % N₂ _____ H 5850 α_{mH} 4048 L/H 1.000 I.D. 1.380

RATE									
LINE	TRIAL								
1	$Q_m, M^2/cfd$.063							
2	T_w	520							
3	T_a	587							
4	T_o	554							
5	Z_o	.964							
5a	$T_o Z_o$	533.6							
6	$\alpha_m H / T_o Z_o$	7.587							
7	e^s	1.329							
8	$(1 - e^{-s})$.248							
9	P_i or P_o	175.4							
10	P_i^2 or P_o^2 (thous.)	30.8							
11	F_o	25.13							
12	$F_i = F_o T_o Z_o / 340$	24.83							
13	$F_i Q_m$	1.564							
14	$Y = (F_i Q_m)^2 L/H$	2.447							
15	$R^2 = Y (1 - e^{-s})$.60							
16	$P_w^2 = P_i^2 + R^2$	31.4							
17	$P_w^2 = e^s P_w^2$ (thous.)	41.7							
17a	$P_i^2 = e^s P_o^2$ (thous.)								
18	P_s or P_f	204.1							
19	P_r	189.8							
20	P_r	.28							
21	T_r	1.40							
22	Z_o	.964							

RECEIVED
 STATE CORPORATION COMMISSION
 JUL 25 1980
 CONSERVATION DIVISION
 Wichita, Kansas