FORM WS-1
Rev. 58

WORK SHEET FOR CALCULATING EQUIVALENT STATIC WELLHEAD PRESSURE

LEASE Holmes WELL NO. 1-14 FIELD Midway (Topeka "A") COUNTY Baca DATE 4-30-73

% CO_2 .02 G_m .768 P_{cr} 626 T_{cr} 349 FLOW STRING

% N_2 24.92 H 3059 G_mH 2340 L/H 1,000 I.D. 2.441

LINE	RATE TRIAL	1st									
1	Q_m, M^2cfd	.056									
2	T_w	520									
3	T_s	560									
	T_e	540									
	Z_e	.976									
	$T_e Z_e$	527.0									
	G_mH/T_eZ_e	4.440									
	e^s	1.181									
	$(1-e^{-s})$	.153									
	P_t or P_c	154.4									
10	P_t^2 or P_c^2 (thous.)	23.8									
11	F_c	5.667									
12	$F_1 = F_c T_e Z_e / 540$	5.531									
13	$F_1 Q_m$	.310									
14	$Y = (F_1 Q_m)^2 L/H$	.096									
15	$R^2 = Y(1-e^{-s})$	.015									
16	$P_w^2 = P_t^2 + R^2$	23.9									
17	$P_s^2 = e^s P_w^2$ (thous.)	28.2									
17a	—or— $P_f^2 = e^s P_c^2$ (thous.)										
18	P_s or P_f	167.9									
19	P_e	161.1									
20	P_r	.26									
21	T_r	1.55									
22	Z_e	.976									

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