

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) 3 rd.
(SURFACE) (P_{sc} & P_w)

Form C-122-E
Adopted 9-1-65

COMPANY SOUTHERN UNION LEASE STATE 17 WELL NO. # 1 DATE 04-13-80
LOCATION: Unit F Section 17 Township 14 S Range 36 E
L 13125 H 13125 L/H 1.000 G mix. 731 % CO₂ 3.543 % N₂ 3.285 % H₂S
d 1.995 F_r .018291 1.887 M^2_{cfd} (L/H) ($F_r Q_m$)² .001183 P_{cr} 675 T_{cr} 387
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6562.5		13125						
2	GH		0	4797.2		9594.4						
3	37.5GH		0	17984		359789						
4	P_r or P_n		2363.2	2945.6	2937.5	3510.3	3496.1		$P_s =$	3494.4		
5	P_r		3.52	4.36	4.35	5.20	5.18					
6	F		534	599.5	599.5	665	665					
7	T_r		1.38	1.55	1.55	1.72	1.72					
8	Z		.704	.805	.805	.886	.885					
9	P/Z P/Z	$\bar{4} \div \bar{8}$	3356.9	3659.1	3649.5	3961.9	3950.4					
10	P/TZ	$\bar{9} \div \bar{6}$	6.286	6.104	6.087	5.958	5.941					
11	(P/TZ) ² /1000 ($\bar{10}$) ² /1000		.039516	.037253	.037050	.035500	.035288					
12	$L/H(F_r Q_m)^2$		.001183	.001183	.001183	.001183	.001183					
13		$\bar{11} + \bar{12}$	.040700	.038436	.038232	.036678	.036471					
14	I_n	$\bar{10} \div \bar{13}$	154.455	158.797	159.206	162.434	162.880					
15	$M = P_n - P_{n-1}$			582	574	572	558					
16	$N = I_n + I_{n-1}$			313.252	313.662	321.640	322.086					
17	$M \times N$	$\bar{15} \times \bar{16}$			180129							
18	$\Sigma (M \times N)$	$\Sigma \bar{17}$			179659							