

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (F & S)
~~XXXXXXXXXX~~ (P_c & P_w)
 Form C-122-E

RATE NO. 1

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: UNIT _____ SECTION _____ TOWNSHIP _____ RANGE _____
 9680 H 9680 L/H 1.00 G 0.903 % CO₂ 1.30 % N₂ 0.69 % H₂S 0.00
 d 4.778 F_r 0.005128 Q_m 0.188 M_{cfd} (L/H) (F_r Q_m)² 0.000001 P_{cr} 662 T_{cr} 457

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	4840		9680						
2	H		0	4371		8741						
3	7.5GH		0	163895		327789						
4	P _c or P _n		3722.2	4381.2	4405.2	5089.2	5094.2					
5	P _r		5.62	6.62	6.65	7.69	7.70					
6	T		530	591	591	651	651					
7	T _r		1.16	1.29	1.29	1.42	1.42					
8	Z		0.873	0.856	0.858	0.957	0.958					
9	P/Z P/Z		4 ÷ 8	4263.69	5117.03	5131.87	5315.65	5315.32				
10	P/TZ		9 ÷ 6	8.0447	8.6656	8.6907	8.1654	8.1648				
11	(P/TZ ² /1000		(10 ² /1000	0.064717	0.075092	0.075529	0.066673	0.066665				
12	L/H (F _r Q _m) ²			0.000001	0.000001	0.000001	0.000001	0.000001				
13				11 + 12	0.064718	0.075093	0.075530	0.066674	0.066666			
14	I _n			10 ÷ 13	124.304	115.398	115.064	122.467	122.475			
15	M = P _n - P _{n-1}				659	683	684	689	689			
16	N = 1 _n + 1 _{n-1}				239.701	239.368	237.531	237.538				
17	M x N					157341		163664				
18	Σ (M x N)					157341		321005				

Delta P = $\frac{3[327789]}{124.304 + 4[115.064]} + 122.475 = \frac{983367}{707.035} = 1390.8$ P = 3722.2 + 1390.8 = 5113.0