

WORK SHEET FOR STEPWISE CALCULATIONS

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_g & P_w)

Form C-122-E

Part 1

COMPANY Antarctica Inc LEASE Stat B 4216 WELL NO. 1 DATE 7/21/80

LOCATION: UNIT L 10820 SECTION 36 TOWNSHIP 18S RANGE 28E

L 10820 H 10820 L/H 1.0 G .704 & CO₂ (L/H) (F_{ro})² .00006 P_{cr} 668 & N₂ (F_{ro})² .00006 S_{cr} 392

~~(F_{ro})² .00006~~

3.5699

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8
1	H		0	5410		10820				
2	GH		0	3808		7617				
3	37.5GH		0	142824		285648				
4	P _c or P _n		1363.2	1597.9	1606.7	1851.1	1867.7			
5	P _r		2.04	2.39	2.41	2.77	2.80			
6	T _r		546	577	577	608	608			
7	T _r		1.39	1.47	1.47	1.55	1.55			
8	Z		1760	1780	1780	1814	1815			
9	P/Z P/Z	4 ÷ 8	1793.6	2048.5	2059.8	2274.2	2291.6			
10	P/TZ	9 ÷ 6	3.2851	3.5564	3.5699	3.7404	3.7691			
11	(P/TZ) 2/1000	(10) 2/1000	.010792	.012605	.012745	.013991	.014287			
12	L/H (F _{ro}) ²		.000006	.000006	.000006	.000006	.000006			
13	In	11 + 12	.010798	.012611	.012751	.013997	.014293			
14	In	10 ÷ 13	304.228	282.131	279.977	267.227	263.702			
15	M+P _n -P _n -1		235	244	244	244	261			
16	N=In+In-1		608.457	586.359	584.205	547.204	543.679			
17	M x N	15 x 16	143071	143071	143071	143071	142820			
18	Σ (M x N)	Σ 17	143071	143071	143071	143071	285891			

$$P = 3(285648) = 856944$$

$$304.228 + 4(279.977) + 263.706 = 1687.842$$

$$856944 = 507.7$$

$$P = 1363.2 + 507.7 = 1870.9$$