

FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE P_w & P_s

COMPANY : PHILLIPS PETRO CO LEASE : RANGER 17 WELL NO. : 1 DATE : 5 19 92

UNIT : 0 SECTION : 34 TOWNSHIP : 12 RANGE : 34

L : 12675 H : 12675 L/H : 1.0 G/GMIX : 1.098

CO2 : 2.24 N2 : 3.36 H2S : 0

d : 2.441 Fr : 0.010763 Q_m : 2.891 (L/H) (Fr Q_m) 0.000968

PCR : 656 TCR : 508

LINE	ITEM	SOURCE	1	2	3	4	5
1	H		0	6338		12675	
2	GH		0	6958.58		13917.15	DELTA P = 2263.5
3	37.5GH		0	260947		521893	Ps = 5006.7
4	Pc or Pn		2743.2	4083.9	3959.1	5165.3	5165.3
5	Pr		4.18	6.23	6.04	7.87	7.87
6	T		534	597.375	597.375	660.75	660.75
7	Tr		1.05	1.18	1.18	1.30	1.30
8	Z		0.505	0.813	0.794	0.966	0.966
9	P/ZP/Z	4/8	5436.4	5023.8	4986.6	5347.4	5347.4
10	P/TZ	9/6	10.1805	8.4098	8.3475	8.0929	8.0929
11	Ln10*2/1000	(10)2/100	0.10364	0.07073	0.06968	0.06549	0.06549
12	L/H(Fr Q_m)2		0.000968	0.000968	0.000968	0.000968	0.000968
13		11+12	0.104611	0.071694	0.070649	0.066463	0.066463
14	In	10/13	97.318	117.303	118.154	121.766	121.766
15	M=Pn-Pn-1			1341	1216	1206	1083
16	N=In+In-1			214.620	215.472	239.920	239.920
17	M x N	15x16			261982		259911
18	SUM(MxN)	SUM17			261982		521893