

VOLUME 1: 2363 PSIA 1: 2680.2
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FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE ~~PP~~ & Ps)

COMPANY : PHILLIPS PETRO CO LEASE : RANGER 17 WELL NO. : 1 DATE : 5 19 92
UNIT : 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 Qm : 2.363 (L/H)(FrQm)0.000647

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 = 2237.8
3	37.56H		0	260947		521893	Ps = 4918.0
4	Pc or Pn		2680.2	3992.1	3877.7	5066.1	5066.1
5	Pr		4.09	6.09	5.91	7.72	7.72
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		0.502	0.799	0.782	0.953	0.953
9	P/ZP/Z	4/8	5334.8	4996.6	4961.4	5316.5	5316.5
10	P/TZ	9/6	9.9902	8.3643	8.3053	8.0462	8.0462
11	Ln10 ² /1000	(10)2/100	0.09980	0.06996	0.06898	0.06474	0.06474
12	L/H(FrQm)2		0.000647	0.000647	0.000647	0.000647	0.000647
13		11+12	0.100451	0.070608	0.069625	0.065389	0.065389
14	In	10/13	99.453	118.461	119.286	123.052	123.052
15	M=Pn-Pn-1			1312	1197	1188	1073
16	N=In-In-1			217.914	218.739	242.338	242.338
17	M x N	15x16			261935		259958
18	SUM(MxN)	SUM17			261935		521893