

FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SURFACE) PRESSURE (P_c & P_w)

COMPANY : UNICAL LEASE : RED HILLS WELL NO. : 3 DATE : 8 14 91
 UNIT : 0 SECTION : 0 TOWNSHIP : 0 RANGE : 0
 L : 14400 H : 14400 L/H : 1.0 S/GMIX : 0.646
 CO2 : 0.49 N2 : 0.69 H2S : 0.69
 d : 2.232 Fr : 0.010700 Qm : 0.000 (L/H) (FrQm) 0.000000

PCR : 670 TCR : 372

LINE	ITEM	SOURCE	1	2	3	4	5	6
1	H		14400	7200		0		
2	GH		9302.4	4651.20		0		
3	37.5GH		348840	174420		0		
4	P_c or P_n		7527.6	6719.7	6696.5	5866.7	5809.8	5814.0
5	P_n		11.32	10.03	9.99	8.76	8.67	9.68
6	T		678	606	606	534	534	534
7	Tr		1.82	1.63	1.63	1.44	1.44	1.44
8	Z		1.208	1.150	1.128	1.038	1.038	1.032
9	$P/ZP/Z$	4/8	6280.3	5946.0	5936.8	5651.7	5596.9	5632.8
10	P/TZ	9/6	9.2630	9.6119	9.7967	10.5837	10.4811	10.13434
11	$\ln(10^2/1000) (10)Z/100$							
12	$L/H(FrQm)^2$							
13		11+12						
14	In	10/13	107.956	101.518	102.075	94.455	95.410	94.802
15	$M=P_n-P_n-1$			808	831	830	887	883
16	$N=In+In-1$			239.874	210.031	196.566	197.485	196.877
17	$M \times N$	15x16			174551			173752
18	SUM(MxN)	SUM17	348840		174289			

DELTA P = 1712.6

P_w = 5814.9