

FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SURFACE) PRESSURE  $Q_m$  &  $P_w$  \*\*\*

COMPANY : COLLINS & WARE INC LEASE : S DRAW WELL NO. : 1 DATE : 4 22 92 \*\*\*

UNIT : 0 SECTION : 4 TOWNSHIP : 22 RANGE : 26 \*\*\*

L : 10280 H : 10280 L/H : 1.0 G/GMIX : 0.622 \*\*\*

CO2 : 0.54 N2 : 0.62 H2S : 0.62 \*\*\*

d : 1.995 Fr : 0.018231  $Q_m$  : 0.000 (L/H) (Fr $Q_m$ ) 0.000000 \*\*\*

PCR : 671 TCR : 365 \*\*\*

LINE	ITEM	SOURCE	1	2	3	4	5	6	
1	H		10280	5140		0			
2	GH		6394.16	3197.08		0			DELTA P = 696.1
3	37.5GH		239781	119891		0			P <sub>w</sub> = 2461.8
4	Pc or Pn		3157.9	2823.6	2817.0	2476.8	2459.3	2460.5	
5	Pr		4.73	4.21	4.20	3.69	3.67	3.67	
6	T		636.8	585.4	585.4	534	534	534	
7	Tr		1.74	1.60	1.60	1.46	1.46	1.46	
8	Z		0.894	0.832	0.831	0.752	0.752	0.751	
9	P/ZP/Z	4/8	3551.8	3395.8	3388.6	3295.4	3272.0	3275.0	
10	P/TZ	9/6	5.5775	5.8008	5.7886	6.1711	6.1274	6.1329	
11	Ln10 <sup>2</sup> /1000	(10)2/100							
12	L/H(Fr $Q_m$ ) <sup>2</sup>								
13		11+12							
14	In	10/13	179.291	172.391	172.754	162.046	163.201	163.055	
15	M=Pn-Pn-1			334	341	340	358	356	
16	N=In+In-1			351.682	352.045	334.800	335.955	335.809	
17	M x N	15x16			120014			119715	
18	SUM(MxN)	SUM17	239781		119767				