

FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SURFACE) PRESSURE (Pc & Pw)

COMPANY : COLLINS AND WARE LEASE : S SHOOTER WELL NO. : FED 13 NO 1 DATE : 11 20 91
 UNIT : B SECTION : 13 TOWNSHIP : 20 RANGE : 33
 L : 13282 H : 13282 L/H : 1.0 G/GMIX : 0.677
 CO2 : 0.59 N2 : 0.53 H2S : 0.53
 d : 2.441 Fr : 0.010763 Qm : 0.000 (L/H)(FrQm)0.000000

PCR : 669 TCR : 382

LINE	ITEM	SOURCE	1	2	3	4	5	6
1	H		13282	6641		0		
2	GH		18991.914	4495.96		0		DELTA P = 1347.7
3	37.56H		337197	168596		0		Pw = 3664.0
4	Pc on Pn		5011.8	4374.3	4357.2	3704.1	3657.9	3662.1
5	Pr		7.56	6.54	6.51	6.54	6.47	6.47
6	T		666.82	600.41	600.41	534	534	534
7	Tr		1.75	1.57	1.57	1.40	1.40	1.40
8	Z		1.004	0.913	0.911	0.799	0.799	0.795
9	P/ZF/Z	4/E	3040.9	4792.5	4780.9	4634.1	4576.3	4605.0
10	P/TZ	9/6	7.5596	7.9821	7.9627	8.6782	8.5698	8.6237
11	Ln(10^2/1000)	(10)2/100						
12	L/H(Fr-Qm)2							
13	10-10							
14	In	10/13	132.250	105.281	105.585	115.232	116.628	115.980
15	M=Pn-Pn-1			637	665	683	699	695
16	N=In-In-1			257.563	257.888	240.816	242.273	241.344
17	M x N	15x16			168797			167893
18	SUM(MxN)	SUM17	337197		168399			

VOLUME 1: 267 PSIA 1: 3337.0
 2: 441 2: 2868.2

FORM C-122E WORKSHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (Pf & Ps)

COMPANY : COLLINS AND WARE LEASE : S SHOOTER WELL NO. : FED 13 NO 1 DATE : 11 20 91
 UNIT : B SECTION : 13 TOWNSHIP : 20 RANGE : 33
 L : 13282 H : 13282 L/H : 1.0 G/GMIX : 0.677
 CO2 : 0.59 N2 : 0.53 H2S : 0
 d : 2.441 Fr : 0.010763 Qm : 0.257 (L/H)(FrQm)0.000005

PCR : 669 TCR : 382