

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

COMPANY : COLLINS AND WARE LEASE : 8 SHOOTER WELL NO. : FED 13 NO 1 DATE : 11 20 91

UNIT : 8 SECTION : 13 TOWNSHIP : 20 RANGE : 33

L : 13282 H : 13232 L/H : 1.0 G/GMIK : 0.677

CG2 : 0.59 W2 : 0.53 H29 : 0

d : 2.441 Fr : 0.010763 Gm : 0.000 (L/H)(FrGm)/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 = 1397.3
3	137.58H		337197	168398		0		
								Pw = 3914.0
4	P _s - P _n		5311.1	4650.3	4632.7	3955.6	3908.3	3910.1
5	P _n		8.01	6.95	6.92	5.81	5.84	5.84
6	T		666.82	600.41	600.41	534	534	534
7	Fr		1.75	1.57	1.57	1.40	1.40	1.40
8	Z		1.026	0.934	0.934	0.825	0.820	0.820
9	P/2P/T	4/3	5324.0	4769.6	4758.4	4777.4	4767.5	4767.2
10	P/TI	3/2	7.9342	8.2770	8.2584	8.9840	8.9255	8.9211
11	Ln(10 ¹² /1000)	(10 ¹² /1000)						
12	L/H(Fr-Gm)/2							
13	11-H2							
14	In	10/13	127.646	120.817	121.089	111.307	112.000	111.968
15	N=P _n -P _{n-1}			669	679	677	723	723
16	N=In-In-1			246.462	249.733	232.399	233.089	233.087
17	M x N	15x16			168783			168091
18	SUM(MAN)	SUM17	337197		168413			