

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

COMPANY : FINA OIL AND CHEMICAL LEASE : FED H H WELL NO. : 133 1 DATE : 12 19 91

UNIT : 0 SECTION : 33 TOWNSHIP : 19 RANGE : 32

L : 12462 H : 12462 L/H : 1.0 G/GMIX : 0.640

CO2 : 1.18 N2 : 0.67 H2S : 0

d : 2.008 Fr : 0.017480 Qm : 1.156 (L/H) (FrQm) 0.000408

PCR : 674 TCR : 371

LINE	ITEM	SOURCE	1	2	3	4	5
1	H		0	6231		12462	
2	GH		0	3987.84		7975.68	DELTA P = 903.1
3	37.5GH		0	149544		299088	Ps = 3406.3
4	Pc or Pn		2503.2	2983.3	2968.7	3432.2	3432.2
5	Pr		3.71	4.43	4.40	5.09	5.09
6	T		534	596.31	596.31	658.62	658.62
7	Tr		1.44	1.61	1.61	1.78	1.78
8	Z		0.737	0.838	0.837	0.912	0.912
9	P/ZP/Z	4/8	3394.7	3561.7	3546.4	3762.2	3762.2
10	P/TZ	9/6	6.3571	5.9729	5.9472	5.7122	5.7122
11	Ln10^2/1000	(10)2/100	0.04041	0.03568	0.03537	0.03263	0.03263
12	L/H(FrQm)2		0.000408	0.000408	0.000408	0.000408	0.000408
13		11+12	0.040821	0.036084	0.035777	0.033037	0.033037
14	In	10/13	155.732	165.529	166.228	172.901	172.901
15	M=Pn-Pn-1			480	465	463	440
16	N=In+In-1			321.260	321.960	339.128	339.128
17	M x N	15x16			149869		149219
18	SUM(MxN)	SUM17			149869		299088