

WORK SHEET FOR STEPWISE CALCULATIC.

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

FO. 3-122E
Adopted 3-1-65

COMPANY Cities Service LEASE Government R WELL NO. 1 DATE 11-21-73

LOCATION: Unit K Section 14 Township 20-S Range 28 E

L 1070 H 11070 LH 1 G 0.6172 %CO₂ 0.28 %N₂ 0.78 %H₂S —

d 2.441 F_r 0.01076 Q_m 5.154 M²cid (L/H) (F_rQ_m)² 0.003077 P_{cr} 671 T_{cr} 365

T@ H = 0 535° R T@ H = 5535 587.5° R T@ H = 11070 640° R

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		-0-	5535			11070					
2	GH		-0-	3416			6832					
3	37.5GH		-0-	128100			256200					
4	P _c or P _n		3420	3409	3397.5	3396.8	3873.7	3854				
5	P _r		4.35	5.08	5.06	5.06	5.77	5.74				
6	T		535	587.5	587.5	587.5	640	640				
7	T _r		1.465	1.609	1.609	1.609	1.75	1.75				
8	Z		6.757	.849	.848	.848	.923	.922				
9	P/Z	4-8	3857	4015	4006.5	4006.5	4196.8	4180				
10	P/TZ	9-6	7.209	6.834	6.819	6.819	6.56	6.53				
11	(P/TZ) ² /1000	10-2/1000	.05196	.0467	.04649	.04649	.0430	.04264				
12	L/H(F _r Q _m) ²		.003077	.003077	.003077	.003077	.003077	.003077				
13		11+12	.05504	.04977	.049567	.049567	.04607	.045717				
14	I _n	10+13	130.97	137.29	137.66	137.66	142.46	142.92				
15	M=P _n P _{n-1}			489	477.5	476.8	476.89	457.35	456.6			
16	N=I _n +I _{n-1}			268.27	268.64	268.64	280.12	280.58				
17	M x N	15x16				128,088		127680				
18	Σ (M x N)	Σ 17				128,088		255767				