

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (D & P_s)
(SURFACE) (D & P_w)

Form C-122E
Adopted 9-1-65

AP 274.291
469.881 + 1911.040 + 442.243 = 274.291
2323.164
274
P_w = 1266.2 - 274 = 992.2

COMPANY J.M. Huber Corp LEASE Allied States Corp. WELL NO. 1 DATE 9-4-75

LOCATION: Unit 14 Section 17 Township 21 Range 27E

L 14395 H 14395 L/H 1.000 G 0.604 % CO₂ % N₂ % H₂S

d 1.995 F_r .018 Q_m 1.102 M² cfd (L/H) (F_r Q_m)² .000404 P_{cr} 671 T_{cr} 358
.018231

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		5698	11,315			11,315	5698	5698	0		
2	GH		3441.59	6882.58			6882.58	3441.59	3441.59	0		
3	37.5GH		129,060	258,097			258,097	129,060	128,082	0		
4	P _c or P _n		955.2	1106.2	1257.2	1255.2	1266.2	1129.2	1131.2	996.2	991.2	
5	P _r		1.42	1.65	1.87	1.87	1.89	1.68	1.68	1.48	1.48	
6	T		520	583	646	646	646	583	583	520	520	
7	T _r		1.45	1.63	1.80	1.80	1.80	1.63	1.63	1.45	1.45	
8	Z		0.848	0.888	0.922	0.922	0.921	0.928	0.928	0.843	0.843	
9	P/Z	4÷8	1126.4	1245.7	1363.6	1361.4	1374.8	1216.8	1220.3	1181.7	1175.8	
10	P/TZ	9÷6	2.1662	2.1367	2.1108	2.1074	2.1282	2.0871	2.0931	2.2725	2.2612	
11	(P/TZ) 2/1000	(10) 2/1000	.004692	.004565	.004455	.004441						
12	L/H(F _r Q _m) ²		.000404	.000404	.000404	.000404						
13		I ₁ + I ₂	.005096	.004969	.004859	.004845						
14	I _n	I ₀ ÷ I ₃	4225.038	430.006	434.410	434.964	469.881	479.134	477.760	440.044	442.243	
15	M = P _n - P _{n-1}			151	151	149		137	135	135	140	
16	N = I _n + I _{n-1}			855.084	864.416	864.920		949.015	947.641	917.804	920.003	
17	M x N	15 x 16		129,118				130,015				
18	Σ(M x N)	Σ17										

P = 274.291
2323.164 + 1720.024 + 443.964 = 2489.066 = 311 P_s = 955.2 + 311.0 = 1266.2
One copy to be filed in District Office (Work copy acceptable.)