

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE (P_c & P_w)

FORM 0-10-10
Adopted 11-1-65

DATE

COMPANY Cities Service Co. Lease Brantley "A" WELL NO. 1 DATE 8-20-81

LOCATION: Unit 12,063 Section 1 Township 1 Range 1

12,063 H 12,063 L/H 1.000 G 589 % CO₂ 1.436 % N₂ 1.750 % H₂S 0

d 2.441 F₁ 0.0763 Q_m 1.030 M² cfd (L/H) (F₁ Q_m)² 0.000122 P_{cr} 677 T_{cr} 350

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6031.5			12063					
2	GH		0	3553.157			7106.313					
3	STAGE		0	1332.45			2664.87					
4	P ₁ or P ₂		2635.4	3063.916	3049.466	3035.031	3434.762	3409.183	3397.289	3395.709		
5	P ₁		3.893	4.524	4.504	4.483	5.073	5.036	5.013	5.016		
6	T		1528	593	593	593	657	657	657	657		
7	T ₁		1.51	1.69	1.69	1.69	1.88	1.88	1.88	1.88		
8	T ₂		1.778	1.863	1.862	1.860	1.932	1.931	1.930	1.930	B.H = 3431.612	
9	P/E	4-5	3336.1	3550.3	3587.7	3531.2	3686.2	3662.6	3653.8	3652.1		
10	P/E ₂	5-5	16.413	5.992	5.966	5.955	5.611	5.575	5.561	5.559		
11	P ₁ or P ₂ or P ₃	10-12	0.041127	0.03590	0.03559	0.03540	0.031479	0.031078	0.030928	0.030899		
12	L.H.F.(Q _m) ²		0.00122	0.00122	0.00122	0.00122	0.00122	0.00122	0.00122	0.00122		
13	P ₁ or P ₂	11+12	0.04249	0.036007	0.035912	0.035582	0.0316007	0.0312002	0.0310802	0.0310215		
14	I _n	10-13	155.470	166.322	167.052	167.355				179.184		
15	M = P ₁ - P _{n-1}		0	428.516	414.066	399.631	399.681	374.099	362.208	360.625		
16	N = I _n + I _{n-1}		0	321.792	322.523	322.825	344.901	356.224	357.785	358.297		
17	M x N	15x16	0		129027					124973.73		
18	Σ (M x N)	Σ 17			129027					254000.95		