

WORK SHEET FOR STEPWISE CALCULATION

(GRASSMAN AND) PRESSURE (P_c & P_w)
(SURFACE)

FORM NO. 1208
April 1965

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

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

12,063 H 12,063 L/H 1,000 G .5891 %CO₂ 1.436 %N₂ .750 %H₂S 0

d 2.441 F_r .010763 Q_m .996 M²cid (L/H) (F_rQ_m)² .000092 P_{cr} 677 T_{cr} 350

3rd DATE

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6032				12,063				
2	GH		0	3553.5				7106.31				
3	3553H		0	122,254				266,487				
4	P _c or P _h		2650.2	3018.81	3031.69	3046.4	3048.3	3446.34	3450.32			
5	P _r		677	4.46	4.48	4.50	4.50	5.09	5.10			
6	T		528	593	593	593	593	657	657			
7	T _r		1.51	1.69	1.69	1.69	1.69	1.88	1.88			
8	Z		.910	.861	.860	.860	.860	.933	.933	34,291,867		
9	P/Z	4+1	2912.31	3506.17	3525.22	3542.33	3544.50	3694.6	3698.09			
10	P/TZ	5-	5.51573	5.91759	5.9447	5.97356	5.97728	5.62345	5.62874			
11	(P/TZ) ² /1000 (Q _m) ²		0.30473	0.35017	0.3533	0.3568	0.35767	0.36232	0.36817			
12	L/H(F _r Q _m) ²		.000092	.000092	.000092	.000092	.000092	.000092	.000092			
13		11+2	.030515	.035109	.035431	.035775	.035819	.0317152	.031747			
14	I _n	10+3	180.75	168.55	167.779	166.97	166.87		177.14			
15	M=P _r +P _h			368.61	381.49	396.2	398.067	398.067	376.6			
16	N=I _n +I _{n-1}			349.30	348.532	347.73	347.62	344.18				
17	M x N	15x16										
18	Σ (M x N)	Σ 17										