

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE (P_c & P_w)

DATE 8-20-3-1

COMPANY Cities Service Co LEASE Brantley "A" WELL NO. 1 DATE 8-20-3-1

LOCATION: Unit _____ Section _____ Township _____ Range _____

H _____ LH _____ G _____ % CO₂ _____ % N₂ _____ % H₂S _____

d _____ F_T _____ Q_m _____ M²cfd (L/H) (F_TQ_m)² _____ P_{cr} _____ T_{CT} _____

380

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12,063	6032		0						
2	GH		7166.31	3553.5		0						
3	STAGH		266,497	133,254		0						
4	P ₁ or P ₂		3429.86	3056.10	3044.54	2651.88	2631.16	2633.06				
5	P ₁		5.07	4.51	4.50	3.93	3.89	3.89				
6	P ₂		657	593	593	528	528	528				
7	P ₃		1.88	1.69	1.69	1.51	1.51	1.51				
8	P ₄		.931	.864	.863	.777	.776	.776				
9	P/C	4-8	3684.85	3537.27	3527.86	3423.27	3390.67	3393.11	506.60	2635.38		
10	P/TZ	5-5	5,608.60	5,970.07	5,949.167	6,423	6,421.73	6,426.26				
11	(P ₁ - P ₂) ² / 1000	(10-2) / 1000	-	-	-	-	-	-				
12	(P ₁ - P ₂) ² / 1000	(10-2) / 1000	-	-	-	-	-	-				
13	P ₁ + P ₂	11+12	-	-	-	-	-	-				
14	P ₃	10+13	178,297	167,501	166,091	154,224	155,721	155,611				
15	M = P ₁ - P ₂		0	373.65	385.31	384.66	413.33	411.48				
16	N = I _n + I _{n-1}		0	345.79	346.39	322.33	323.81	323.70				
17	M x N	15x16	0		133,243							
18	Σ (M x N)	Σ 17			133,243							