

WORK SHEET FOR STEPWISE CALCULATION
 (SUBSURFACE) PRESSURE (P_f & P_s)
 (SURFACE) (P_c & P_w)

Form C-122E
 Adopted 9-1-55

1-4

COMPANY Simpson LEASE State Q WELL NO. 1 DATE 7-12-76

LOCATION: Unit 2 Section 30 Township 21S Range 26E

L 10999 H 1 G .602 % CO₂ 1.35 % N₂ .28 % H₂S

D 2.441 F_r .01076 Q_m 1.271 M₂cid (L/H) (F₁Q_m)² .0001871 P_{ci} 67% T_{ci} 357

ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H	0	5200	10909	10909	10909	ΔP =	3 (5200)			
2	GH	0	3311	6621	6621	6621	ΔP =				
3	37.5GH	0	124163	248302	248302	248302	ΔP =	477.28 + 4(188.23) + 4(188.23)			
4	P _c or P _n	895.2	1025.2	1023.9	1152.34	1149.16					
5	P _f	1.32	1.52	1.51	1.79	1.7	ΔP = 254.3				
6	T	520	524	524	648	648					
7	T _r	1.16	1.64	1.64	1.92	1.82	P _c =	895.2 + 254.3 =	1149.5		
8	Z	.86	.898	.898	.93	.93					
9	P/Z	1040.93	1147.50	1140.20	1259.13	1236.20					
10	P/TZ	2.001783	1.955664	1.952308	1.912236	1.907877					
11	(P/TZ) ² /1000	.00400071	.0038222	.0038118	.0036564	.0036304					
12	L/H(F ₁ Q _m) ²	.0001871	.0001871	.0001871	.0001871	.0001871					
13		.0041944	.0040098	.0039989	.0038043	.0037822					
14	I _n	477.28	484.12	488.23	494.50	478.53					
15	M = P _n - P _{n-1}	130.1	128.68	128.68	128.69	125.86					
16	N = I _n + P _{n-1}	964.91	965.51	985.73	986.76						
17	M x N	124242	124194								
18	Σ (M x N)	Σ 17									

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D.C.C.
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