

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
(SURFACE)

PRESSURE
(P_c & P_w)

4th

Form C-122-E
Adopted 9-1-65

COMPANY Gulf Oil Exp. Prod. Lease Wilson "C" Fed. WELL NO. 1 DATE 8/2/84

LOCATION: Unit E Section 29 Township 26S Range 34E

L 11592 H 11592 LH 1.000 G mix .7383 % CO₂ 1.144 % N₂ .383 % H₂S

d 1.995 F_r .018231 Q_m 0 M^2 cid (L/H) ($F_r Q_m$)² 0 P_{cr} 671 T_{cr} 402

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11592	5796		0						
2	GH		8558	4279		0						
3	37.5GH		320939	160470		0						
4	P_c or P_n		5410.7	4746.1	4731.8	4053.5	4013.7	4015.0		$P_{w0} =$	4018.6	
5	P_r		8.06	7.07	7.05	6.04	5.98	5.98				
6	T		650	592	592	534	534	534				
7	T_r		1.62	1.47	1.47	1.33	1.33	1.33				
8	Z		1.005	.927	.925	.817	.812	.812				
9	P/Z or P/Z	$\bar{4} = 8$	5383.8	5119.9	5115.4	4961.4	4942.9	4944.5				
10	P/TZ	$\bar{9} = 6$	8.2827	8.6485	8.6409	9.2910	9.2564	9.2594				
11	$(P/TZ)^2 / 1000$	$(10)^2 / 1000$										
12	$L/H(F_r Q_m)^2$											
13		$\bar{11} + \bar{12}$										
14	I_n	$\bar{10} \div \bar{13}$	120.734	115.627	115.729	107.631	108.034	107.999				
15	$M = P_n - P_{n-1}$		665	679	678	718	717					
16	$N = I_n + I_{n-1}$		236.361	236.464	223.360	223.763	223.728					
17	$M \times N$	$\bar{15} \times \bar{16}$			160540			160324				
18	$\Sigma (M \times N)$	$\Sigma \bar{17}$			160399							