

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

COMPANY Jake L. Hamon LEASE Amoroso Federal WELL NO. 1 DATE 8/27/66

LOCATION: Unit N Section 17 Township 20 S Range 36 E

L 10999 H 10999 L/H 1.000 G .890 % CO₂ 0.4 % N₂ 0.0 % H₂S 0.0
d 1.995 F_r .018231 Q_m 5.447 M² cfd (L/H) (F_r Q_m)² .009860 P_{cr} 662 T_{cr} 454

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5499		10,999						
2	GH		0	4894.11		9789.11						
3	37.5GH		0	183,529		367,092						
4	P _c or P _n		4353.2	5314.2	5310.2	6267.2	6258.2					
5	P _i		6.58	8.03	8.02	9.47	9.45					
6	T		544	581	581	618	618					
7	T _r		1.20	1.28	1.28	1.36	1.36					
8	Z		.849	.980	.980	1.101	1.099					
9	P/Z P/Z	$\frac{4}{8}$	5127.4	5422.7	5418.6	5692.3	5694.4					
10	P/TZ	$\frac{9}{6}$	9.4254	9.3334	9.3263	9.2108	9.2142					
11	(P/TZ) ² /1000	(10) ² /1000	.088838	.087112	.086980	.084839	.084901					
12	L/H(F _r Q _m) ²		.009860	.009860	.009860	.009860	.009860					
13		$\frac{11}{12}$	.098698	.096972	.096840	.094699	.094761					
14	I _n	$\frac{10}{13}$	95.497	96.248	96.306	97.263	97.236					
15	M=P _n -P _{n-1}			961	957	957	948					
16	N=I _n +I _{n-1}			191.745	191.803	193.569	193.542					
17	M x N	$\frac{15}{16}$			183,555		183,478					
18	Σ (M x N)	Σ I ₇			183,553		367,303					