

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

COMPANY Jake L. Hamon

LEASE Amerasia Petroleum Co.

WELL NO. 1

DATE 8/27/66

LOCATION: Unit N

Section 17

Township

20 S

Range 36 E

L. 10,999

H. 10,999

L/H 1.000

G. .693

% CO₂ 0.45

% N₂ 0.0

% H₂S 0.0

d 1.995 P_r .01823

Q_m 7.433

M² cfd

(L/H) ($F_r Q_m$)²

0.18360

P_{cr} 662

T_{cr} 454

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5499		10,999						
2	GH		0	4910.61		9822.11						
3	37.5GH		0	184,148		368,329						
4	P_c or P_n		3952.2	4986.2	4984.2	6015.2	6010.2					
5	P_r		5.97	7.53	7.53	9.09	9.08					
6	T		544	581	581	618	618					
7	T_r		1.20	1.28	1.28	1.36	1.36					
8	Z		.786	.935	.935	1.068	1.067					
9	P/Z P/Z	4÷8	5028.2	5332.8	5330.7	5632.2	5632.8					
10	P/TZ	9÷6	9.2430	9.1787	9.1750	9.1136	9.1146					
11	$(P/TZ)^2/1000$	$(10)^2/1000$	.085433	.084249	.084181	.083058	.083076					
12	$L/H(F_r Q_m)^2$		.018360	.018360	.018360	.018360	.018360					
13		$11 + 12$	.103793	.102609	.102541	.101418	.101436					
14	I_n	$10 ÷ 13$	89.052	89.453	89.476	89.861	89.855					
15	$M = P_n - P_{n-1}$			1034	1032	1031	1026					
16	$N = I_n + I_{n-1}$			178.505	178.528	179.337	179.331					
17	$M \times N$	15×16		184,241		183,994						
18	$\Sigma (M \times N)$	$\Sigma 17$		184,241		368,235						