

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) $(P_f \& P_s)$
 PRESSURE
 (SURFACE) $(P_{cr} \& P_m)$

Rate

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: UNIT _____ SECTION _____ TOWNSHIP _____ RANGE _____

14755 H 14755 L/H 1.0 G 593 % CO₂ % N₂ % H₂S
 d 1.867 F .018231 Q_m 1.7776 M_{ctd} (L/H) (F Q_m)² .001048 P_{cr} 672 T_{cr} 359

ITEM	SOURCE	1	2	3	4	5	6	7	8	9
H		0	7378			14755				
GH		0	4375			8750				
57.5GH		0	164057			323117				
P _{cr} or P _n		1694.2	2052.5	2049.9	2047.3	2046.0				
P _r		2.52	3.05	3.05	3.05	3.57				
T		526	593	593	593	660				
T _r		1.49	1.68	1.67	1.64	1.86				
Z		.783	.855	.855	.855	.905				
O/Z P/Z		4 ÷ 8	2163.7	2397.6	2394.5	2651.9				
P/TZ		9 ÷ 6	4.1135	4.0482	4.0379	4.0181				
(P/TZ) ² /1000		(10 ² /1000)	.016921	.016388	.016348	.016305				
L/(F Q _m) ²			.001048	.001048	.001048	.001048				
		11 ÷ 12	.017969	.017436	.017396	.017353				
P _n		10 ÷ 15	228.920	232.172	232.424	232.692				
P _n ² /n-1				358	356	353				
P _n ² /n-1				457.841	461.093	464.597				
P _n ² /n-1						465.117				
14 × H		15 × 16				164003				
Σ (G × H)		Σ 17				164003				

3 (328114)

984343

= 706.4

P = 1694.2 + 706.4 = 2400.6

328.920 + 4 (232.692) + 233.701

1393.389