

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
PRESSURE
(SURFACE)
Rate #3

(P_c & P_w)
(P_c & P_w)

DATE _____

WELL NO. _____

LEASE _____

SECTION _____

TOWNSHIP _____

RANGE _____

13542 H 13542 LH 1.0 6.619 % CO₂ 4 % N₂ 2 % H₂S

d F_r Q_m M²cfd (L/H) (F_rQ_m)² P_{cr} 671 T_{cr} 365

ITEM	SOURCE	1	2	3	4	5	6	7	8	9
H		13542	6771			0				
G _H		8382	4191			0				
37.5CH		314344	157172			0				
P _c or P _n		4541.7	3975.0	3955.0	3939.4	3329.3	3299.9	3267.6		
P _r		6.77	5.92	5.89	5.86	4.96	4.92	4.87		
T		648	581	581	581	513	513	513		
T _r		1.78	1.59	1.59	1.59	1.40	1.41	1.41		
Z		.972	.885	.882	.882	.763	.760	.758		
O/L P/Z	4 ÷ 8	4672.5	4491.5	4479.1	4460.8	4363.5	4342.0	4310.9		
P/Z	9 ÷ 6	7.2106	7.7374	7.7159	7.6845	8.5058	8.4646	8.4034		
(P/Z) ² / 1000	(10 ² / 1000)									
L/n(F _r Q _m) ²										
11 ÷ 12										
10 ÷ 13		138.682	129.242	129.601	130.131	117.565	118.146	118.999		
11 ÷ 14			567	587	607	6.05	6.35	6.67		
11 ÷ 15			277.365	267.928	258.843	259.732	247.697	235.713		
15 × 16					157118			157221		
Σ (G × H)	Σ 17				157118			314339		

Rate #3

$3(314344) = 943031$

$138.682 + 4(130.131) + 118.999 = 778.205$

$943031 / 778.205 = 1211.9$

$P = 4541.7 - 1211.9 = 3329.8$