

11/2/88

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)
Rate = 4

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: UNIT _____ SECTION _____ TOWNSHIP _____ RANGE _____

14755 H 14755 L/H 1.0 G 1.593 % CO₂ _____ % N₂ _____ % H₂S _____

d 1.262 F_r _____ Q_m _____ M² cfd (L/H) (F_r Q_m)² _____ P_{cr} 672 T_{cr} 354

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9
1	H		14755	7378							
2	G4		8750	4375							
3	57.5GH		322114	164057							
4	P _c or P _n		24402.6	2077.9	2068.0	2055.3	1730.6	1721.4	1722.4		
5	P _r		3.57	3.08	3.08	3.07	2.58	2.57	2.56		
6	T		660	593	593	593	526	526	526		
7	P _r		1.86	1.68	1.68	1.68	1.49	1.49	1.49		
8	Z		1905	1854	1854	1854	1787	1787	1787		
9	OIL PIZ	4÷8	2632.8	2424.9	2421.6	2413.4	2291.8	2126.5	2128.6		
10	P/IZ	9÷6	410112	410373	410836	410183	411859	411157	411608		
11	(P/IZ) ² /1000	(10 ² /1000)									
12	L/H(F _r Q _m) ²										
13	T _n	11÷12									
14	$\frac{P_n - P_{n-1}}{P_n}$	10÷13	248.812	244.539	244.877	245.194	238.893	239.466	240.335		
15	$\frac{P_n - P_{n-1}}{P_n}$			330	333	335	335	339	343		
16	$\frac{P_n - P_{n-1}}{P_n}$			497.625	493.352	489.416	490.071	484.081	478.359		
17	M × H	15 × 16				163950			164071		
18	Σ (M × H)	Σ 17				163950			328031		

$$3 \text{ (328114)} = 984343$$

$$248.812 + 4(245.194) + 240.335 = 1469.923$$

$$P = 669.6$$

$$P = 2400.6 - 669.6 = 1730.9$$