

WORK SHEET FOR STEPWISE CALCULATIONS

(SUBSURFACE) PRESSURE
(P_c & P_w)
Rat

Form C-122-E

COMPANY Intermountain Inc LEASE State Lb 4216 WELL NO. 1 DATE 7/21/86
 LOCATION: UNIT SECTION 36 TOWNSHIP 18S RANGE 28E
 L 10820 H 10820 L/H 1.0 G .704 % CO₂ %H_s
 a 1.995 F_r Q_m M²cdf (L/H) (F_rQ_m)² P_{cr} 668 T_{cr} 392

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8
1	H		10820	5410		0				
2	GH		7617	3808		0				
3	37.5GH		285648	142824		0				
4	P _c or P _n		1870.9	1601.2	1608.9	1346.9	1365.9			
5	P _r		2.80	3.40	2.41	2.01	2.09			
6	T		608	577	577	546	596			
7	Tr		1.55	1.47	1.47	1.39	1.39			
8	Z		1.815	1.780	1.780	1.761	1.760			
9	P/Z P/Z	4 ÷ 8	2295.5	2052.9	2062.6	1769.9	1797.2			
10	P/TZ	9 ÷ 6	3.7756	3.5579	3.5748	3.2416	3.2916			
11	(P/TZ) 2/L000	(10) 2/1000								
12	L/H (FrQ _m) ²									
13		11 + 12								
14	In	10 ÷ 13								
15	M+P _n -P _{n-1}		264.856	281.063	279.735	308.409	303.799			
16	N=1 _n +1 _{n-1}			270	262	262	243			
17	M x N	15 x 16		529.712	545.920	544.591	588.225			
18	Σ (M x N)	Σ 17								

$$3(285648) = 856944$$

$$264.856 + 4(279.735) + 303.799 = 1687.595$$

$$= 507.7 \quad P = 1870.9 - 507.7 = 1363.2$$