

Wolfcamp

WORK SHEET FOR STEPWISE CALCULATION

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

COMPANY Mesa Pet. Co. LEASE Red Hills WELL NO. 1 DATE _____

SECTION 1 TOWNSHIP 6 RANGE 1

13542 H 13542 L/H 1.0 G .619 % CO₂ .4 % N₂ .2 % H₂S
d. 1.867 F_r .019231 Q_m 1,408 M² cfd (L/H) (F_r Q_m)² .000659 P_{cr} 671 T_{cr} 361

ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
H		0	6771				13542				
G _H		0	4191				8382				
37.5GH		0	157172				314344				
P _c or P _n		3543.2	4243.1	4212.4	4183.0	4180.3	4815.8	4795.2	4775.3		
P _r		5.28	6.32	6.27	6.23	6.23	7.18	7.15	7.12		
T		513	581	581	581	581	648	648	648		
T _r		1.41	1.57	1.59	1.59	1.59	1.77	1.77	1.77		
Z		1.782	.905	.902	.900	.900	.992	.990	.989		
OIL PIZ	4 ÷ 8	4530.9	4688.5	4670.1	4647.8	4644.8	4854.6	4843.6	4828.4		
P/IZ	9 ÷ 6	8.8322	8.0767	8.0450	8.0066	8.00147	7.9917	7.9747	7.9513		
(P/IZ) ² /1000	(10 ² /1000	.078005	.065234	.064722	.064107	.064024	.056127	.055872	.055523		
L/H(F _r Q _m) ²		.000659	.000657	.000659	.000659	.000659	.000659	.000659	.000659		
T _n	11 ÷ 12	.078665	.065893	.065381	.064766	.064683	.056786	.056531	.056182		
10 ÷ 13		112.272	122.573	123.047	123.624	123.703	131.930	132.224	132.629		
10 ÷ 14		700	669	669	640	637	635	615	595		
10 ÷ 15		224.543	234.846	245.621	246.672	246.672	247.328	255.634	264.154		
10 ÷ 16						157130			157172		
Σ (G _H × H)	Σ 17					157130			314302		

3 (314344)

$$112.272 + 4(123.703) + 132.629 = 739.713$$

$$943031 = 1274.8$$

$$P = 3543.2 + 1274.8 = 4818.0$$