

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)

PRESSURE

(P_f & P_s)

(SURFACE)

(P_c & P_w)

Plot on

WY Appalachian Basin, Bet Cr.

LEASE W. H. H. Co.

WELL NO. 1

DATE 6-17-71

CON: UNIT G

SECTION 20

TOWNSHIP 23S

RANGE 33E

5611 H 15611 L/H 1.0

G .575

% CO₂ 0

% N₂ 0

% H₂S 0

d 2.441 F .010763 Q_m 7.2295

M_{ctd} (L/H) (F Q_m)² .006165

P_{cr} 672

T_{cr} 350

ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
H		0	7506			15611					
GH		0	4512			9023					
37.5GH		0	169184			338365					
P _c or P _n		6098.2	7042.7	7025.2	7045.0	7917.0	7902.2	7998.2			
P _r		9.07	10.48	10.45	10.43	11.78	11.76	11.74			
T		540	598	598	598	655	655	655			
r		1.54	1.71	1.71	1.71	1.87	1.87	1.57			
Z		1.067	1.161	1.159	1.158	1.236	1.235	1.232			
O/Z P/Z		5715.2	6066.1	6061.4	6051.5	6405.3	6377.6	6397.6			
P/L		9.582	10.152	10.144	10.123	9.779	9.760	9.767			
(P/T) ² / 1000		(10 ² / 1000)	112015	103074	102916	102590	995632	995034			
L/H (F Q _m) ²		.006165	.006165	.006165	.006165	.006165	.006165	.006165			
P _n		118183	109233	109081	109755	101797	101598	101566			
P _n - P _{n-1}		91.554	92.935	93.501	93.132	96.065	96.154	96.167			
P _n - P _{n-1}		945	925	910	910	910	894	890			
P _n - P _{n-1}		179.107	183.483	185.760	186.134	189.195	192.215	192.215			
15 x 16		15 x 16	169205	169205	169205	169205	169205	169205			
15 x 16		15 x 16	169205	169205	169205	169205	169205	169205			
15 x 16		15 x 16	169205	169205	169205	169205	169205	169205			

$$3(338368)$$

$$6098.2 + 1818.3 = 7916.5$$

$$39.554 + 4(93.132) + (96.167) = 553.249$$