

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) (SURFACE) (P_c & P_w)

Form C-122-E
Adopted 9-1-65

COMPANY LANARK, INC. LEASE LEAVITT COAL WELL NO. 1 DATE 5-27-76
LOCATION: Unit F Section 13 Township 18 S Range 26 E
L 9021 H 5031 L/H 1.000 G .6500 % CO₂ .172 % N₂ 1.298 % H₂S 0.00
d 1.975 P_f 1.010 Q_m 1.100 M₂ .664 (L/H) (F₁Q_m)² .000517 P_{ci} .6642 T_{ci} 372
4.0000

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		9021	1615.5								
2	GH		5870.15	3325								
3	37.5GH		220121	110067								
4	P _c or P _n		1676.9	1676.9	1676.9	1676.9			ΔP = 497.3			
5	P _f		3.55	3.18	3.18	3.60	2.81					
6	T		618	3325	3325	3448	549					
7	T _f		1.66	.81	1.67	1.47	1.47					
8	Z		.042	.042	.042	.042	.042					
9	P/Z P/Z	4=8	2822.9	2822.9	2822.9	2822.9	2822.9					
10	P/TZ	9=6	1.16783	1.16783	1.16783	1.16783	1.16783					
11	(P/TZ) ² /1000 (10) ² /1000					4.48320	1.3623					
12	L/H(F ₁ Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ - I ₃	2183.224	2183.224	2183.224	223.064	222.87					
15	M = P _n - P _{n-1}		2.51	2.51	2.51	2.51	2.43	2.43				
16	N = I _n + I _{n-1}					414.764	414.02					
17	M x N	15 x 16				1101.1	1101.1					
18	Σ (M x N)	Σ IV	27.0121		1101.00							