1st flow rate

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

Form C-122(1)
Adopted 9-1-65

COMPANY Gas Producers LEASE Lowe State WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L H L/H G % CO_2 % N_2 % H_2S

d F_I Q_{in} M^2cfd $(L/H)(F_IQ_{in})^2$ P_{cr} (TABLE IX & X) T_{cr} (TABLE IX & X)

$$\Delta P = \frac{3 \times 320,991}{121.109 + 4(112.230) + 103.478}$$

$$= \frac{962,973}{677.507}$$

$$= 1421.3$$

$$P_w = 5655.9 - 1421.3$$

$$= 4234.6$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12,056	6028				0				
2	GH		8559.76	4279.88				0				
3	37.5GH		320,991	160,495				0				
4	P_c or P_n	P_s	5655.9	4992.9	4968.9	4944.9	4946.9	4238.9	4204.9	4169.9	4170.9	
5	P_I		8.48	7.49	7.45	7.41	7.42	6.34	6.30	6.25	6.25	
6	T		658	589	589	589	589	520	520	520		
7	T_I		1.68	1.50	1.50	1.50	1.50	1.33	1.33	1.33		
8	Z		1.041	.955	.953	.951	.951	.840	.835	.830		
9	P/Z	4÷8	5433.1	5228.2	5214.0	5199.7	5201.8	5046.3	5035.8	5024.0	5025.7	
10	P/TZ	9÷6	8.256991	8.876401	8.857777	8.837787	8.831579	9.704441	9.684231	9.664538	9.662696	
11	$(P/TZ)^2/1000$	$(10)^2/1000$	—									
12	$L/H(F_IQ_{in})^2$		—									
13		11 + 12	—									
14	I_n	10÷13	121.109	112.658	112.965	113.276	113.230	103.046	103.361	103.503	103.478	
15	$M(P_n - P_{n-1})$			663	687	711	709	708	722	777	776	
16	$N(I_n + I_{n-1})$			233.767	225.623	226.241	226.506	216.276	206.307	206.764	206.981	
17	M x N	15 x 16					160,593				160,617	
18	$\sum(M \times N)$	$\sum 17$	320,991				160,398					

One copy to be filed in District Office (Work copy acceptable)