

$$\text{GOR} = \frac{5,107,000}{24 \times 8.6} = 24,743$$

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
(SURFACE)PRESSURE
(P_f & P_s)
(P_c & P_w)Form C-122-E
Adopted 9-1-65

COMPANY Amoco Production Company Swearingen "A" Gas Com WELL NO. 1 DATE 2/23/72

LOCATION: Unit J Section 19 Township 5-S Range 33-E

7631 H 7631 L/H 1.000 G .872 % CO₂ 0.60 % N₂ 0.30 % H₂S 0

$$d \ 1.995 \ F_r \cdot 0.1823 Q_m \ 5,107 \ M^2\text{-cfd} \ (L/H) \ (F_r Q_m)^2 \ .008669 \ P_{CT} \ 664 \ T_{CT} \ 447$$

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3,815.5			7631					
2	GH		0	3,327.12			6,654.23					
3	37.5GH		0	124,767			249,534					
4	P_c or P_n		1,563.2	1,998.1	2,008.6	2,009.2	2,455.4	2,474.3	2,475.2			
5	P_r		2.35	3.01	3.03	3.03	3.70	3.73	3.73			
6	T		542	569.5	569.5	569.5	597	597	597			
7	T_r		1,213	1,274	1,274	1,274	1,336	1,336	1,336			
8	Z		0.539	0.602	0.602	0.602	0.667	0.668	0.668			
9	P/Z P/Z	$\frac{4}{8}$	2,900.2	3,319.1	3,336.5	3,337.5	3,681.3	3,704.0	3,705.4			
10	P/TZ	$\frac{9}{6}$	5,3509	5,8281	5,8586	5,8604	6,1663	6,2044	6,2067			
11	$(P/TZ)^2/1000$	$\frac{100}{2/1000}$	.028632	.033967	.034323	.034344	.038023	.038495	.038523			
12	$L/H(F_r Q_m)^2$		.008669	.008669	.008669	.008669	.008669	.008669	.008669			
13		$\frac{11}{12}$	.037301	.042636	.042992	.043013	.046192	.047164	.047192			
14	I_n	$\frac{10}{13}$	143.452	136.694	136.272	136.247	132.063	131.549	131.520			
15	$M = P_n - P_{n-1}$			434.9	445.4	446.0	446.2	465.1	466.0			
16	$N = I_n + I_{n-1}$			280.146	279.724	279.699	268.310	267.796	267.767			
17	$M \times N$	$\frac{15}{16}$				124,746			124,779			
18	$\Sigma (M \times N)$	$\Sigma \frac{17}{1}$				124,746			249,525			