

GOR $\frac{5,726.000}{24 \times 9.2} = 25,933$

WORK SHEET FOR STEPWISE CALCULATION

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

COMPANY Amoco Production LEASE Swearingen "A" Gas Com. WELL NO. 1 DATE 2/23/72
LOCATION: Unit J Section 19 Township 5S Range 33E

L 7631 H 7631 L/H 1.000 G .866 % CO₂ 0.60 % N₂ 0.30 % H₂S 0

d 1.995 F_r .01823 Q_m 5.726 M²-cfd (L/H) (F_rQ_m)² .010897 P_{cr} 665 T_{cr} 443

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3815.5			7615					
2	GH		0	3,304.22			6,594.59					
3	37.5GH		0	123,908			247,297					
4	P _c or P _n		1,503.2	1,952.9	1963.3	1963.9	2,422.7	2440.6	2,441.3			
5	P _r		2.26	2.94	2.95	2.95	3.64	3.67	3.67			
6	T		538	567.5	567.5	567.5	597	597	597			
7	T _r		1.214	1.281	1.281	1.281	1.348	1.348	1.348			
8	Z		0.544	0.605	0.605	0.605	0.674	0.675	0.675			
9	P/Z P/Z	$\frac{4}{8}$	2,763.2	3,227.9	3,245.1	3,246.1	3,994.5	3,615.7	3,616.7			
10	P/TZ	$\frac{9}{6}$	5.1361	5.6879	5.7182	5.7200	6.0209	6.0564	6.0581			
11	(P/TZ) ² /1000	$\frac{10}{2/1000}$	.026380	.032352	.032698	.032718	.036251	.036680	.036701			
12	L/H(F _r Q _m) ²		.010897	.010897	.010897	.010897	.010897	.010897	.010897			
13		$\frac{11}{12}$	.037277	.043249	.043595	.043615	.047148	.047577	.047598			
14	I _n	$\frac{10}{13}$	137,782	131,515	131.166	131,148	127,702	127,297	127,276			
15	M=P _n -P _{n-1}			449.7	460.1	460.7	458.8	476.7	477.4			
16	N=I _n +I _{n-1}			269,297	268,948	268,930	258,850	258,445	258,414			
17	M x N	$\frac{15}{16}$				123,896			123,367			
18	Σ (M x N)	$\frac{17}{17}$				123,896			247,263			