Rate 1

GOR (GLR) $\frac{126,000}{5.2}$ = 24,231

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 Co LEASE Swearingen "A" Gas Com WELL NO. 1 DATE February 23, 1972

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

L 7631 H 7631 L/H 1.000 G .875 % CO_2 0.60 % N_2 0.30 % H_2S 0

d 1.995 F_r .018231 Q_m 3.024 M^2cfd $(L/H)(F_rQ_m)^2$ .003039 P_{cr} 664 (TABLE IX & X) T_{cr} 447 (TABLE IX & X)

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3815.5			7631					
2	GH		0	3338.56			6677.13					
3	37.5GH		0	125,196			250,392					
4	P_c or P_n		1,786.2	2,206.7	2,210.2	2,211.1	2,635.9	2,644.8	2,645.4			
5	P_r		2.69	3.32	3.33	3.33	3.97	3.98	3.98			
6	T		540	568.5	568.5	568.5	597	597	597			
7	T_r		1.208	1.272	1.272	1.272	1.336	1.336	1.336			
8	Z		0.531	0.611	0.609	0.609	0.676	0.676	0.676			
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3,363.8	3,611.6	3,629.2	3,630.7	3,899.3	3,912.4	3,913.3			
10	P/TZ	$\bar{9}\div\bar{6}$	6,2293	6,3529	6,3838	6,3865	6,5315	6,5534	6,5549			
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$	.038804	.040359	.040753	.040787	.042660	.042947	.042967			
12	$L/H(F_rQ_m)^2$		.003039	.003039	.003039	.003039	.003039	.003039	.003039			
13		$\bar{11}+\bar{12}$	.041843	.043398	.043792	.043826	.045699	.045986	.046006			
14	I_n	$\bar{10}\div\bar{13}$	148.873	146.387	145.775	145.724	142.924	142.509	142.479			
15	$M=P_n-P_{n-1}$			420.5	424.0	424.9	424.8	433.7	434.3			
16	$N=I_n+I_{n-1}$			295.260	294.648	294.697	288.648	288.233	288.203			
17	M x N	$\bar{15}\times\bar{16}$				125,217			125,167			
18	Σ(M x N)	$\Sigma\bar{17}$				125,217			250,384			

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