

Rate 2

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE
(SURFACE) (P_c & P_w)Form C-122-E
Adopted 9-1-65GOR $\frac{4,394}{24 \times 6.3}$ = 29,061
1512COMPANY Amoco Production Co LEASE Swearingen "A" Gas Com WELL NO. 1 DATE February 23, 1972LOCATION: Unit J Section 19 Township 5S Range 33EL 7631 H 7631 L/H 1.000 G 0.852 % CO₂ 0.60 % N₂ 0.30 % H₂S 0d 1.995 F_r 0.01823 4,394 M²cfd (L/H) (F_rQ_m)² .006417 P_{cr} 666 T_{cr} 440

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	3,250.81			6,501.61					
3	37.5GH		0	121,905			243.810					
4	P _c or P _n		1,666.2	2072.0	2,080.4	2,081.0	2,495.8	2,513.2	2,512.5			
5	P _r		2.50	3.11	3.12	3.12	3.75	3.77	3.77			
6	T		542	569.5	569.5	569.5	597	597	597			
7	T _r		1,232	1,294	1,294	1,294	1,357	1,357	1,357			
8	Z		.560	.623	.623	.623	.682	.683	.683			
9	P/Z P/Z	$\frac{4}{8}$	2,975.4	3,325.8	3,339.3	3,340.3	3,659.5	3,679.6	3,678.6			
10	P/TZ	$\frac{9}{6}$	5,4890	5,8399	5,8636	5,8653	6,1908	6,1635	6,1618			
11	(P/TZ) ² /1000	$\frac{10}{1000}$	.030129	.034104	.034382	.034402	.038326	.037989	.037968			
12	L/(F _r Q _m) ²		.006417	.006417	.006417	.006417	.006417	.006417	.006417			
13		$\frac{11}{1} + \frac{12}{1}$	.036546	.040521	.040799	.040819	.044743	.044406	.044385			
14	I _n	$\frac{10}{1} + \frac{13}{1}$	150.194	144.120	143.719	143.690	138.364	138.799	138.826			
15	M=P _n -P _{n-1}			405.8	414.2	414.8	414.8	432.2	431.5			
16	N=I _n +I _{n-1}			294.314	293.913	293.884	282.054	282.489	282.516			
17	M x N	$\frac{15}{1} \times \frac{16}{1}$				121,903			121,906			
18	$\sum (M \times N)$	$\frac{17}{1}$				121,903			243,809			