

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~XSURFACE~~ ~~XX~~ ~~XX~~

Form C-122E
 Adopted 9-1-65

COMPANY Atlantic Richfield

LEASE W. G. Smith Fed. Gas Com.

WELL NO. 1

DATE 6-12-72

LOCATION: Unit G Section 13 Township 23S Range 24E
 L 10350 H 10350 L/H 1.0 G 0.585 %CO₂ 0.64 %N₂ 0.22 %H₂S

d 1.995 F_r 0.018231 Q_m 1.937 M^2_{cid} (L/H) ($F_r Q_m$)² 0.001247 P_{cr} 673.9 T_{cr} 349.1
 TABLE B x TABLE B x

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5175			10350			$\Delta P = 3(227.053)$		
2	GH		0	3027.38			6054.75			1452.887		
3	37.5GH		0	113,527			227,053					
4	P_c or P_n											
5	P_r		1912.2	2187.6	2185.5	2185.3	2458.5	2456.0	2455.9	$P_s = 1912.2 + 543.7$		
6	T		2.84	3.25	3.24	3.24	3.65	3.64	3.64			
7	T_r		530.0	576.5	576.5	576.5	623.0	623.0	623.0	$= 2455.9$		
8	Z		1.52	1.65	1.65	1.65	1.78	1.78	1.78			
9	P/Z		0.791	0.840	0.840	0.840	0.883	0.883	0.883			
10	P/TZ		$\bar{4} \cdot \bar{8}$	2417.4	2604.3	2601.8	2601.5	2784.3	2781.4	2781.3		
11	$(P/TZ)^2 / 1000$		$\bar{9} \cdot \bar{6}$	4.5611	4.5174	4.5131	4.5125	4.4692	4.4645	4.4644		
12	$L/H(F_r Q_m)^2$			0.020804	0.020407	0.020368	0.020364	0.019974	0.019932	0.019931		
13				0.001247	0.001247	0.001247	0.001247	0.001247	0.001247	0.001247		
14	I_n			$\bar{1} \cdot \bar{1} + \bar{1} \cdot \bar{2}$	0.022051	0.021654	0.021615	0.021611	0.021221	0.021179	0.021178	
15	$M = P_n - P_{n-1}$			$\bar{1} \cdot \bar{0} + \bar{1} \cdot \bar{3}$	206.843	208.617	208.795	208.810	210.603	210.798	210.804	
16	$N = I_n - P_{n-1}$				275.4	273.3	273.1	273.2	270.7	270.6		
17	$M \times N$				415.460	415.638	415.653	419.413	419.608	419.614		
18	$\Sigma (M \times N)$						113,515			113,548		
										227.063		