

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) XXX

Form C-122E
Adopted 6-1-55

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_i 0.018231 Q_m 3.771

M²cid (L/H) (F_iQ_m)² 0.004726

P_{ci} 673.9 T_{ci} 349.1

TABLE 16 B X

TABLE 17 B X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H			5175		10350				Δ P =	3(227.053)	
2	GH			3027.38		6054.75					1185.912	
3	37.5GH			113,527		227,053						
4	P _c or P _n		1593.2	1875.7	1878.1	2163.1	2167.2	2167.4		P _s =	1593.2 + 574.3	
5	P _f		2.36	2.78	2.79	3.21	3.22	3.22				
6	T		531	577	577	623.0	623.0	623.0				
7	T _f		1.52	1.65	1.65	1.78	1.78	1.78		=	2167.5	
8	Z		0.811	0.850	0.850	0.887	0.887	0.887				
9	P/Z		4÷8	1964.5	2206.7	2209.5	2438.7	2443.3				
10	P/TZ		9÷6	3.6996	3.8244	3.8293	3.9144	3.9218				
11	(P/TZ)/2/1000		1002/1000	0.013687	0.014626	0.014664	0.015323	0.015381				
12	L/H(F _i Q _m) ²			0.004726	0.004726	0.004726	0.004726	0.004726				
13				0.018413	0.019352	0.019390	0.020049	0.020107				
14	I _n		10÷13	200.923	197.623	197.488	195.242	195.047				
15	M=P _n -P _{n-1}			282.5	284.9	285.0	289.1	289.3				
16	N=I _n +I _{n-1}			398.546	398.411	392.730	392.535	392.525				
17	M x N		15 x 16		113,507		113,557					
18	Σ (M x N)		Σ 17		113,507		227,064					