

WORK SHEET FOR STEPWISE CALCULATION

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

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 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 673.9 T_{cr} 349.1
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10350	5175			0					ΔP = 3(227.053) 1320.206
2	GH		6054.75	3027.38			0					
3	37.5GH		227.053	113.527			0					515.9
4	P _c or P _n		2455.9	2202.5	2200.1	2200.3	1944.6	1939.4	1939.9	1939.8	P _w =	2455.9-515.9
5	P _r		3.64	3.27	3.26	3.27	2.89	2.88	2.88	2.88		
6	T		623.0	576.5	576.5	576.5	530.0	530.0	530.0	530.0	=	1940.0
7	T _r		1.78	1.65	1.65	1.65	1.52	1.52	1.52	1.52		
8	Z		0.883	0.840	0.840	0.840	0.789	0.790	0.790	0.790		
9	P/Z		2781.3	2622.0	2619.2	2619.4	2464.6	2454.9	2455.6	2455.4		
	P/TZ		9.6	4.5481	4.5433	4.5436	4.6502	4.6319	4.6332	4.6328		
11	(P/TZ)/2/1000	(10/2/1000)										
12	L/H(F _r Q _m) ²											
13												
14	I _n	10÷13	223.994	219.872	220.104	220.090	215.045	215.894	215.834	215.852		
15	M=P _n -P _{n-1}			253.4	255.8	255.6	255.7	260.9	260.4	260.5		
16	N=I _n +I _{n-1}			443.866	444.098	444.084	435.135	435.984	435.924	435.942		
17	M x N	15x16				113.509						
18	Σ (M x N)	Σ 17	227.053			113.544				113.563		