

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
(SURFACE)

PRESSURE (P_c & P_w)

Form C-122E
Adopted 5-1-65

COMPANY Atlantic Richfield

LEASE W. G. Smith Fed. Gas Co.

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

0

M₂cid

(L/H) (F_i Q_m)²

0

0

P_{ci}

673.9

T_{ci}

349.1

TABLE IX & X

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10350	5175			0			$\Delta P = \frac{3(37.5)GH}{L_w + L_1 + L_2}$		
2	GH		6054.75	3027.38			0			$= \frac{3(37.5)(0.585)(10350)}{248.133 + 4(251.775 + 254.959)}$		
3	37.5GH		227,053	113,527			0			$= \frac{3(227,053)}{1510.192}$		
4	P _c or P _n		2167.4	1944.8	1943.3	1943.4	1719.3	1716.1	1716.3			
5	P _r		3.22	2.89	2.88	2.88	2.55	2.55	2.55			
6	T		623.0	577.0	577.0	577.0	531.0	531.0	531.0			
7	T _r		1.78	1.65	1.65	1.65	1.52	1.52	1.52			
8	Z		0.887	0.848	0.848	0.848	0.802	0.802	0.802			
9	P/Z		2443.5	2293.4	2291.6	2291.7	2143.8	2139.8	2140.0			
	P/TZ		9÷6	3.9747	3.9716	3.9718	4.0373	4.0298	4.0301			
11	(P/TZ) ² /1000		(10) ÷ 1000									
12	L/H(F _i Q _m) ²											
13												
14	I _n											
15	M=P _n -P _{n-1}											
16	N=I _n +I _{n-1}											
17	M x N											
18	Σ(M x N)											