

WORK SHEET FOR STEPWISE CALCULATION

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

Form C-122-E
Adopted 9-1-65

COMPANY Continental Gas LEASE Red Hills

WELL NO. 1161

DATE 4/10/67

LOCATION: Unit Sh Section 5 Township 26S Range 33E

L 13424 H 13424 L/H 1 G 0.224 % CO₂ 0.15 % N₂ 0.41 % H₂S N.I.

d 2.385 $F_1 = 0.1022 Q_m$ 4.380 $M^2 \text{ cfd}$ (L/H) ($F_1 Q_m$)² 0.002309 P_{CT} 668 T_{CT} 398

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6712		13424						
2	GH		0	485949		9718.98						
3	37.5GH		0	182230		364462						
4	P_c or P_n		6541.2	75529.2	7515.2	8489.2	8443.2					
5	P_f		9.29	11.22	11.25	12.71	12.67					
6	T		547	596.5	596.5	646	646					
7	T_f		1.37	1.50	1.50	1.62	1.62					
8	Z		1.125	1.223	1.221	1.309	1.306					
9	P/Z P/Z	$\bar{4} \div 8$	5814.4	6156.3	6155.0	6485.3	6480.3					
10	P/TZ	$9 \div 6$	10.4296	10.3202	10.3185	10.0322	10.0314					
11	$(P/TZ)^2 / 1000$ ($\bar{10}$) ² / 1000		112.968	106.517	106.471	100.286	100.630					
12	L/H ($F_1 Q_m$) ²		0.002309	0.002309	0.002309	0.002309	0.002309					
13		$\bar{11} + \bar{12}$	11.5297	108.816	108.780	109.695	109.939					
14	I_n	$\bar{10} \div \bar{13}$	92.193	94.845	94.857	97.378	97.450					
15	$M = P_n - P_{n-1}$			988	994	975	948					
16	$N = I_n + I_{n-1}$			187.038	187.050	192.235	192.307					
17	$M \times N$	15×16			182187		182307					
18	$\Sigma (M \times N)$	$\Sigma 17$			182187		364462					