

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE (P_c & P_w)
Rate 3

Form C-122E
Adopted 9-1-65

COMPANY Grace Petr. Corp. LEASE New Mexico Federal "G" WELL NO. 1 DATE 6-12-80

LOCATION: Unit I Section 6 Township 21 S Range 32 E

L 13983 H 13983 L/H 1.0 G .635 % CO₂ .49 % N₂ .29 % H₂S 0

d — F_r — Q_m — M²cld (L/H) (F_rQ_m)² — P_{cr} 670 T_{cr} 372

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9
1	H		13983	6992			0				
2	GH		8879	4439			0				
3	37.5GH		332970	166485			0				
4	P _c or P _n		3972.2	3419.7	3415.1	3410.6	2849.8				
5	P _r		5.93	5.10	5.09	5.09	4.25				
6	T		648	596	596	596	544				
7	T _r		1.74	1.60	1.60	1.60	1.46				
8	Z		.924	.850	.850	.850	.775				
9	P/Z	4-8	4298.9	4023.4	4017.0	4012.5	3677.2				
10	P/TZ	9-6	6.6341	6.7508	6.4413	6.7324	6.7596				
11	(P/TZ) ² /1000	(10) 2/1000									
12	L/H(F _r Q _m) ²										
13		11 + 12									
14	I _n	10 + 13	150.735	148.130	148.339	148.535	147.937				
15	M=P _n -P _{n-1}			552	557	561	561				
16	N=I _n +I _{n-1}			301.471	298.866	236.469	296.874				
17	M x N	15 x 16									
18	Σ (M x N)	Σ 17									

Delta P = $\frac{3(332970)}{150.735 + (148.535) + 147.937} = 2853.3$