

WORK SHEET FOR STEPWISE CALCULATION

(~~WELL~~ SURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

Form C-122E
Adopted 9-1-65

Rate 4

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 — M²_{cld} (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		8679	4439	0						
3	37.5GH		332970	166485	0						
4	P _c or P _n		2865.2	2449.3	2032.1						
5	P _r		4.28	3.66	3.03						
6	T		648	597	546						
7	T _r		1.74	1.60	1.47						
8	Z		.885	.816	.747						
9	P/Z	4÷8	3237.5	3001.6	2720.3						
10	P/TZ	9÷6	4.9961	5.0278	4.9823						
11	(P/TZ) ² /1000	(10) 2/1000									
12	L/H(F _r Q _m) ²										
13		11 + 12									
14	I _n	10÷13	201.153	198.893	200.209						
15	M=P _n -P _{n-1}			416	417						
16	N=I _n +I _{n-1}			400.307	399.047						
17	M x N	15 x 16		166527	166402						
18	Σ (M x N)	Σ 17		166527	332925						

Delta P_g 3(332970) 998910 834.9 2865.2-834.9-2030 One copy to be filed in District Office (Work copy accepted)