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Form G-122-E
Adopted 9-1-63

WORK SHEET FOR STEPWISE CALCULATION
(SUBSURFACE) PRESSURE (P_f & P_s)
~~(SURFACE)~~

COMPANY Greer Petro Co. LEASE East Smith Ranch WELL NO. 7-20-82 DATE 7-20-82
LOCATION: Unit 12 Section 12 Township 20S Range 33E

L 13237 H 13237 L/H 1.000 G_{max} = 843 % CO₂ 1.002 % N₂ 1.091 % H₂S
d 1.995 F_r 0.0233 Q_{in} 355 M²cf/d (L/H) (F_rQ_m)² 1000041 P_{cr} 664 T_{cr} 438

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6618.5		13237						
2	GH		0	5599.4		11158.8						
3	37.5CH		0	209227		418454						
4	P _{cr} or P _n		2986.2	3875.8	3851.9	41715.5	4669.8					
5	P _f		450	5.84	5.80	7.10	7.03					
6	T		534	600	600	666	666					
7	T ₂		1.22	1.37	1.37	1.52	1.52					
8	2		.658	.802	.799	.929	.924					
9	P _{1/2} P _{1/2}	7-5	4538.3	4832.6	4820.9	5075.9	5053.9					
10	P _{1/2}	9-5	8.4986	8.6544	8.034911	7.62148	7.588487					
11	(P _{1/2}) ² /1000 (P _{1/2}) ²		.072227	.064873	.064559	.058087	.057585					
12	L/H(F _r Q _m) ²		.000041	.000041	.000041	.000041	.000041					
13		11-12	.072268	.064914	.064600	.058128	.057626					
14	I _n	10-13	117.538	124.077	124.377	131.115	131.685					
15	M = P _n - P _{at}			889	865	864	818					
16	N = I _n + I _{n-1}			241.625	241.976	255.452	256.062					
17	M x N	15x16			209487		209432					
18	Σ (M x N)	Σ 17			208964		209021					

(P_s = 4667.2)