

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 Grace Petro. Co LEASE East Smith Ranch WELL NO. 205 DATE 7-20-62

LOCATION: Unit L 13237 Section 12 Township 20S Range 33E

L 13237 H 13237 LH 1.000 G mix 843 % CO₂ 1.002 % N₂ 1.091 % H₂S

d 1.995 F_r 0.1231 Q_m 1.055 M₂ rfd (L/H) (F_r Q_m)^{1/2} P_c 664 T_c 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	5579.4		11158.8						
3	37.5GH		0	20922.7		418,454						
4	P _c or P _n		2014.2	2755.9	2733.5	3447.8	3411.4	(P _s = 3405.7)				
5	P _r		3.03	4.15	4.12	5.19	5.14					
6	T		534	600	600	666	666					
7	T _r		1.22	1.37	1.37	1.52	1.52					
8	Z		1.536	1.694	1.673	1.819	1.816					
9	P/Z P/Z	4-8	357.8	290.98	334.4	420.8	4180.6					
10	P/TZ	9-6	7,037.45	6,618.34	6,574.05	6,320.81	6,277.29					
11	(P/TZ) ² /1000	(10 ² /1000)	945.21	1043.02	1043.217	1035.56	1032.403					
12	L/H(F _r Q _m) ²		1,000369	1,000369	1,000369	1,000369	1,000369					
13		11+12	1,040.90	1,041.71	1,043.86	1,040.325	1,039.772					
14	I _n	10+13	1,410.52	1,09.834	150.226	156.753	157.828					
15	M=P _n -P _{n-1}			742	719	714	678					
16	N=I _n +I _{n-1}			290.986	291.878	300.579	308.654					
17	M x N	15x16			209940		203783					
18	Σ(M x N)	Σ17			209513		214671					