

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~(P_g & P_w)~~

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

COMPANY Grace Petrol Co. LEASE East Smith Ranch WELL NO. 205 DATE 7-20-82

CATION: Unit H Section 12 Township 20 S Range 33 E

12237 H 13237 LAH 1000 G_{max} 1843 % CO₂ 1.002 % N₂ 1.051 % H₂S

d 1.995 F_r 0.1823 Q_m 1741 M₂ d_f (L/H) (F_r Q_m)² 1.000182 P_{sc} 664 T_{sc} 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	37.5GH		0	20922.7		41845.4						
4	P _{sc} or P _n		2248.2	3160.6	3133.8	3915.9	3871.1	(P _{sc} = 3865.3)				
5	P _r		3.54	4.76	4.72	5.89	5.83					
6	T		534	600	600	666	666					
7	T _r		1.22	1.37	1.37	1.52	1.52					
8	Z		1568	1727	1724	1856	1853					
9	P/Z P/Z	4-8	41134.2	43477.4	43281.5	45747.7	45381.2					
10	P/TZ	9-6	71741813	71245619	7244184	61868971	61817143					
11	(P/TZ) ² /1000	(10) ² /1000	1.059936	1.052499	1.052044	1.097181	1.046432					
12	L/H (F _r Q _m) ²		1.000182	1.000182	1.000182	1.000182	1.000182					
13		11+12	1.060118	1.052681	1.052226	1.047364	1.046614					
14	I _n	10+13	128.777	137.536	138.132	145.023	146.181					
15	M = P _n - P _{n-1}			812	796	782	737					
16	N = I _n + I _{n-1}			266.313	216.529	283.155	284.313					
17	M x N	15 x 16			209695		209612					
18	Σ (M x N)	Σ 17			208758		208842					