

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE (P_c & P_w)

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

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

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

13237 H 13237 L/H 1.002 G_{mw} 843 % CO₂ 1.002 % N₂ 1.091 % H₂S

d 1.995 F_r 0.0123 Q_m 0 M²cid (L/H) (F_r Q_m)² 0 P_{cr} 664 T_{cr} 438

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13237	6618.5		0						
2	GH		11158.8	5577.4		0						
3	37.SGH		4118454	209227		0						
4	P _c or P _n		3405.7	2750.1	2732.9	2063.3	2018.5	2022.8				
5	P _r		5.13	41.14	4.12	3.11	3.04	3.05				
6	T		666	600	600	534	534	534				
7	T _r		1.52	1.37	1.37	1.22	1.22	1.22				
8	Z		1.816	1.694	1.693	1.541	1.536	1.537				
9	P/Z P/Z	4-8	4173.6	3922.6	3923.6	3813.8	3765.8	3766.9				
10	P/TZ	9-5	6.26674	6.06492	6.572684	7.14201	7.052052	7.054057				
11	(P/TZ) ² /1000 (10 ² /1000)											
12	L/H(F _r Q _m) ²											
13	I ₁ + I ₂											
14	I _n	I ₀ ÷ I ₃	159.572	151.412	152.146	140.016	141.802	141.762				
15	M = P _n · P _n ⁻¹			656	673	669	714	710				
16	N = I _n + I _n ⁻¹			310.941	311.777	292.162	293.048	293.928				
17	M × N	I ₅ × I ₆			209720			208705				
18	Σ (M × N)	Σ I ₇			208733			209749				