

WORK SHEET FOR STEPWISE CALCULATION (SURFACE PRESSURE (P_c & P_w))

Form G-122-B
Adopted 9-1-65

Standard Oil Company

COMPANY of Texas LEASE Pogle Flats Unit Gas Com., WEL.L. NO. 6 DATE 6-14-66

LOCATION: Unit G Section 8 Township 22S Range 23E

L 7037 H 7037 I/H 1,000 G .657 % CO₂ .56 % N₂ .96 % H₂S .37

d F_r Q_m 0 M₂GH (I/H) (P_rQ_m)² 0 P_{cr} 673 T_{cr} 371

TABLE 15 X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		7037	3518.5		0			Delta P = 3 (37.5 GH)			
2	GH		4623.31	2311.66		0			T _s = 4 T ₁ + 12			
3	37.5GH		173,374	86,687		0			= 3 (173,374)			
4	P _c or P _n		2828.8	2576.2	2573.2	2319.2	2311.2		172.051 + 675.176 + 163.180			
5	P _r		4.20	3.83	3.82	3.45	3.43					
6	T		592	559	559	526	526		520,122			
7	T _r		1.60	1.51	1.51	1.42	1.42		1,010.417			
8	Z		822	.777	.777	.717	.717					
9	P/Z P/Z	4:8	3640.6	3315.6	3311.7	3232.8	3223.4		514.8			
10	P/TZ	9:6	5.8119	5.9313	5.9264	6.1460	6.1282					
11	(P/TZ) ² /1000	(9) 2/1000							P _w = P _r - Delta P			
12	1/(F _r Q _m) ²											
13		11 + 12							2823.2 - 514.8			
14	I _n	10 + 13	172.06	168.597	168.794	162.708	163.130					
15	M = P _n - P _{n-1}			252	255	254	262		2313.4			
16	N = I _n + I _{n-1}			340.658	340.855	331.502	331.974					
17	M x N	15 x 16							86,687			
18	Σ (M x N)	Σ 17	173,374									