

WORK SHEET FOR STEEPER CALCULATION

(SURFACE)

PRESSURE (P_c & P_g)

Form G-122 B
Adopted 9-1-65

Standard Oil Company

COMPANY of Texas LEASE Dogleg Plains Unit Gas Com. WELL 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 O_m 0 M^2cd (L/H) ($F_r Q_m$)² 0 P_{cr} 673 T_{cr} 371

TABLE IX & 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				$I_s + 4 I_1 + I_2$			
3	37.5GH		173,374	86,687	0				= 3 (173,374)			
4	P_c or P_n		2826.9	2574.9	2322.9	2321.9			172.141 + 684.628 + 171.230			
5	P_r		4.20	3.83	3.45	3.45			= 520,132			
6	I		592	565	538	538			1,027.999			
7	I_r		1.60	1.52	1.45	1.45			= 506.0			
8	Z		.822	.782	.739	.739						
9	P/Z P/Z		3439.1	3294.4	3143.30	3142.0						
10	P/TZ		9.5	5.8308	5.8426	5.8401						
11	$(P/TZ)^2/1000$											
12	$L/H(F_r Q_m)^2$								$P_g = P_s - \text{Delta P}$			
13									= 2826.9 - 506.0			
14	I_n		172.141	171.503	171.157	171.230						
15	$M^2 P_n P_{n-1}$		252	252	252	253						
16	$N=I_n + I_{n-1}$		343.644	342.660	342.733							
17	$M \times N$		86,687	86,687	86,687							
18	> 20000		173,374	86,687								