

WORK SHEET FOR STEPWISE CALCULATION

~~100830886000~~
(SURFACE) PRESSURE
(P_c & P_w)

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

COMPANY Corinne Grace LEASE Humble-Grace WELL NO. 1 DATE 2/18/72

LOCATION: Unit P Section 2 Township 23 S Range 26 E

L 10,616 H 10,616 L/H 1.000 G .580 % CO₂ - % N₂ - % H₂S -

$$P = \frac{692,694}{1075.413} = 644.1 \quad P_w = 3044.7 - 644.1 = 2400.6$$

$$d = \frac{1.995}{P} \frac{0.018231 Q_m}{P} \frac{5.710}{M^2 c_H} \frac{(L/H) (F Q_m)^2}{.010837} \quad P_{cr} = 672 \quad T_{cr} = 350$$

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	B		10616	5308		0						
2	GH		6157.28	3078.64		0						
3	37.5GH		230,898	115,449		0						
4	P_g or P_{hg}		3044.7	2732.2	2727.0	2409.8	2400.1	2400.8				
5	P_f		4.53	4.07	4.06	3.59	3.57	3.57				
6	T		627	580.5	580.5	534	534	534				
7	T_f		1.79	1.66	1.66	1.53	1.53	1.53				
8	Z		.897	.841	.841	.785	.785	.785				
9	P/Z or P_f/Z		3394.3	3248.8	3242.6	3069.8	3057.5	3058.3				
10	P/TZ		5.4136	5.5966	5.5859	5.7487	5.7257	5.7272				
11	$(P/TZ)^2/1000$	$(10/2/1000)$										
12	$L/H(FQ_m)^2$											
13		$11 + 12$										
14	I_n	$10-13$	184.720	178.680	179.022	173.952	174.651	174.605				
15	$M = P_n - P_{n-1}$			312.5	317.7	317.2	326.9	326.2				
16	$N = I_n + I_{n-1}$			363.400	363.742	352.974	353.673	353.627				
17	$M \times N$	15×16			115,524			115,353				
18	$\Sigma (M \times N)$	$\Sigma 17$	230,898		115,374			230,727				