

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s)
~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~

COMPANY Cortina Grace LEASE Humble-Grace WELL NO. 1 DATE 7/28/71

LOCATION: Unit P Section 2 Township 23 S Range 26 E
L 10,616 H 10,616 L/H 1.000 G .380 % CO₂ - % N₂ - % H₂S -

d 1.995 P_f 018231 Q_m 10.379 M² c/d (L/H) (F_f Q_m)² .035804 P_{cr} TABLE IX & X T_{cr} TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5308		10616						
2	GH		0	3078.64		6157.28						
3	37.SGH		0	115,449		230,898						
4	P _c or P _n		2551.2	3242.4	8243.4	3935.6	3937.6					
5	P _f		3.80	4.83	4.83	5.86	5.86					
6	T		530	580.5	580.5	627	627					
7	T _f		1.51	1.66	1.66	1.79	1.79					
8	Z		.777	.859	.859	.937	.937					
9	P/Z P/Z		3283.4	3274.6	3775.8	4200.2	4202.3					
10	P/TZ		9÷6									
11	(P/TZ) ² /1000	(10) ² /1000	.038379	.042280	.042307	.044875	.044919					
12	L/H(F _f Q _m) ²		.035804	.035804	.035804	.035804	.035804					
13		I ₁ + I ₂	.074183	.078084	.078111	.080679	.080723					
14	I _n	I ₀ ÷ I ₃	83.511	83.273	83.271	83.032	83.027					
15	M=P _n -P _{n-1}			691.2	692.2	692.2	694.2					
16	N=I _n +I _{n-1}			166.784	166.782	166.305	166.298					
17	M x N	I ₅ x I ₆			115,447		115,444					
18	Σ (M x N)	Σ I ₇			115,447		230,891					