

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

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

COMPANY Jake L. Hamon LEASE Union State WELL NO. 1 DATE 8/1/66

LOCATION: Unit H Section 30 Township 20 S Range 36 E

11178 H 11178 L/H 1.000 G .671 % CO₂ 1 % N₂ 36 E % H₂S 382

$$d = \frac{2.441}{843,801} \cdot \frac{.010765}{9.086} \cdot \frac{M^2 \cdot G^2 \cdot d}{(L/H) (F_i Q_m)^2} = .009563$$

$$P = \frac{843,801}{981,981} = 859.3$$

$$P_w = 3195.2 - 859.3 = 2335.9$$

$$P_{cr} = \frac{669}{382} \cdot T_{cr} = \frac{669}{382} \cdot 382$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11178	5589		0						
2	GH		7500.44	3750.22		0						
3	37.5GH		281,267	140,633		0						
4	P _c or P _n		3195.2	2752.2	2759.2	2322.2	2337.2	2336.2				
5	P _r		4.78	4.11	4.12	3.47	3.49	3.49				
6	T		609	576.5	576.5	544	544	544				
7	T _r		1.59	1.51	1.51	1.43	1.43	1.43				
8	Z		.833	.783	.783	.725	.725	.725				
9	P/Z P/Z	$\bar{4} \cdot \bar{8}$	3835.8	3514.9	3523.9	3203.0	3223.7	3222.3				
10	P/TZ	$\bar{9} \cdot \bar{6}$	6.2985	6.0970	6.1126	5.8879	5.9259	5.9233				
11	(P/TZ) ² /1000	$(\bar{10})^2 / 1000$										
12	L/HF _r Q _m) ²											
13		$\bar{11} + \bar{12}$										
14	I _n	$\bar{10} - \bar{13}$	158.768	164.015	163.597	169.840	168.751	168.825				
15	M=P _n -P _{n-1}			443	436	437	422	423				
16	N=I _n +I _{n-1}			322.783	322.365	333.437	332.348	332.422				
17	M x N	$\bar{15} \times \bar{16}$			140,551			140,615				
18	Σ (M x N)	Σ $\bar{17}$	281,267		140,716							