

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

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

L 11178 H 11178 L/H 1.000 G .676 % CO₂ 1 % N₂ 36 E % H₂S 382

$$d = \frac{2.441}{850.086} \cdot \frac{.016763}{809.160} \cdot \frac{F_1}{Q_m} \cdot \frac{4.053}{M^2 d} \cdot \frac{(L/H) (F_1 Q_m)^2}{P_w} = \frac{.001903}{669} \cdot \frac{P_{CT}}{TABLE IX \& X} = \frac{382}{TABLE IX \& X}$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11178	5589		0						
2	GH		7556.33	3778.16		0						
3	37.5GH		283,362	141,681		0						
4	P _c or P _n		4054.2	3525.2	3527.2	3001.2	3003.2					
5	P _f		6.05	5.27	5.27	4.49	4.49					
6	T		609	576.5	576.5	544	544					
7	T _f		1.59	1.51	1.51	1.42	1.42					
8	Z		.891	.826	.826	.746	.746					
9	P/Z P/Z	$\frac{4.8}{9.6}$	4544.6	4267.8	4270.2	4023.1	4025.7					
10	P/TZ	$\frac{9.6}{7.4624}$	7.4624	7.4029	7.4071	7.3954	7.4002					
11	(P/TZ) ² /1000	$\frac{(10.2/1000)}{(10.2/1000)}$										
12	L/H(F ₁ Q _m) ²											
13		$\frac{11}{12}$										
14	I _n	$\frac{10}{13}$	134.005	135.082	135.006	135.219	135.131					
15	M=P _n -P _{n-1}			529	527	526	524					
16	N=I _n +I _{n-1}			269.087	269.011	270.225	270.137					
17	M x N	$\frac{15 \times 16}{15 \times 16}$			141,769		141,552					
18	$\Sigma (M \times N)$	$\Sigma 17$	283,362		141,593							