

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

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LEASE Amorada Federal

WELL NO. 1

DATE 8/27/66

LOCATION: Unit N Section 17 Township 20 S Range 36 E

L 10.999 H 10.999 L/H 1.000 G .893 % CO₂ 0.44 % N₂ 0.0 % H₂S 0.0

$$P = \frac{1.995}{647.897} F_r \cdot 0.01823 D_m \cdot 7.433 M^2 cfd (L/H) (F_r Q_m)^2 \cdot 0.018360 P_{CT} \cdot 662 T_{CT} \cdot 454$$

$$P = 1.995 \cdot 0.01823 \cdot 7.433 \cdot 0.018360 \cdot 662 \cdot 454 = 1705.4$$

$$P_w = 6010.2 - 1705.4 = 4304.8$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	IL		10.999	5499		0						
2	GH		9822.11	4910.61		0						
3	37.5GH		368,329	184,148		0						
4	P_c or P_n		6010.2	5171.2	5164.2	4318.2	4304.2					
5	P_r		9.08	7.81	7.80	6.52	6.50					
6	T		618	581	581	544	544					
7	T_r		1.36	1.28	1.28	1.20	1.20					
8	Z		1.067	.961	.960	.842	.840					
9	P/Z P/Z	$4/8$	5632.8	5381.1	5379.4	5128.5	5124.0					
10	P/TZ	$9/6$	9.1146	9.2618	9.2589	9.4274	9.4191					
11	$(P/TZ)^2 / 1000$	$(10)^2 / 1000$										
12	$L/H(F_r Q_m)^2$											
13		$11 + 12$										
14	I_n	$10 + 13$	109.774	107.970	108.004	106.074	106.167					
15	$M = P_n - P_{n-1}$			839	846	846	860					
16	$N = I_n + I_{n-1}$			217.684	217.718	214.078	214.171					
17	$M \times N$	15×16			184,189							
18	$\Sigma (M \times N)$	$\Sigma 17$	368,329		184,140							