

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

COMPANY Jake L. Hamon LEASE Amerinda Federal WELL NO. 1 DATE 8/27/66

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

L 10999 H 10999 L/H 1.000 G .917 % CO₂ 0.4 % N₂ 0.0 % H₂S 0.0

$$d = \frac{1.995 F_1^{.018231}}{1.134,684 Q_m^{2.275}} M^{2.04} (L/H) (F_1 Q_m)^2 \quad P_{CT} = \frac{662}{631.590} T_{CT}$$

$$P = \frac{1.134,684}{631.590} = 1796.6 \quad P_w = 6638.2 - 1796.6 = 4841.6$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10,999	5499		0						
2	GH		10,086	5042.58		0						
3	37.5GH		378,228	189,097		0						
4	P _c or P _n		6638.2	5753.2	5746.2	4855.2	4841.2	4842.2				
5	P _i		10.03	8.69	8.68	7.33	7.31	7.31				
6	T		618	581	581	544	544	544				
7	T _r		1.34	1.26	1.26	1.18	1.18	1.18				
8	Z		1.148	1.042	1.041	.925	.923	.923				
9	P/Z P/Z	4÷8	5782.4	5521.3	5519.9	5248.9	5245.1	5246.2				
10	P/TZ	9÷6	9.3566	9.5031	9.5007	9.6487	9.6417	9.6438				
11	(P/TZ) 2/1000	(10) 2/1000										
12	L/H (F ₁ Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ ÷ I ₃	106.876	105.229	105.255	103.641	103.716	103.694				
15	M = P _n - P _{n-1}			885	892	891	905	904				
16	N = I _n + I _{n-1}			212.105	212.131	208.896	208.971	208.949				
17	M x N	I ₅ x I ₆			189,221			188,890				
18	Σ (M x N)	Σ I ₇	378,228		189,007							