

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

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

COMPANY AMERICAN NATURAL LEASE WASHITA WELL NO. 1 DATE 8-27-78

LOCATION: Unit A1 Section 20 Township 20 Range 20

L 11200 H 11200 L/H 1.000 G .578% % CO₂ 0 % N₂ 0 % H₂S 0
d 1000 F₁ 10833 Q_m 18.278 M₂ 672 (L/H) (F₁ Q_m)² 0.09925 P_{ci} 672 T_{ci} 530
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	11207		5602						
2	GH		0	6661		2700						
3	37.5GH		0	249,538		123,750						
4	P _c or P _n		1782.2	2764.3	2918.9	3659.6	3606.3					
5	P _r		2.65	0.11	4.04	5.04	5.37					
6	T		534	537	539	639	639					
7	T _r		1.53	1.62	1.62	1.83	1.83					
8	Z		.789	.857	.856	.899	.924					
9	P/Z P/Z		22188	2256	3176.3	4070.8	3903.0					
10	P/TZ		9.6	5.076	5.393	6.371	6.108					
11	(P/TZ) ² /1000	(10) ² /1000	.51789	.03000	.02908	.04058	.03730					
12	L/H(F ₁ Q _m) ²		.04925	.04925	.04925	.04925	.04925					
13			.06714	.09924	.07833	.0983	.08655					
14	I _n	I ₀ ÷ I ₃	69.000	69.106	68.848	76.919	70.566					
15	M = P _n - P _{n-1}			91.1	936.7	940.7	887.4					
16	N = I _n + I _{n-1}			132.106	131.848	139.767	139.414					
17	M x N	15 x 16			123,502		114,716					
18	Σ (M x N)	Σ I ₇			124,036							

$P_s = P_f + \Delta P = 3598.0$