

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)

Form C-122E
Adopted 9-1-55

COMPANY Exxon, U.S.A. LEASE N.M. DA. STATE WELL NO. #12 DATE 7-29-82

LOCATION: Unit Section Township Range

L 12530 H 12530 L/H 1.000 G .612 % CO₂ .48 % N₂ .85 % H₂S NIL

d 2.441 F_r .0107163 Q_m 1.169 M₂ cld (L/H) (F_r Q_m)² .000158 P_{cr} 1671 T_{cr} 362

TABLE 12 & X

RATE: 3

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9
1	H		0	6245		12530					
2	GH		0	3834.18		7668.36					
3	37.5GH		0	143781		287563					
4	P _c or P _n		1795.2	2104.6	2105.2	2415.3	2409.5				
5	P _r		2.68	3.14	3.14	3.60	3.59				
6	T		534	597.5	597.5	1661	661				
7	T _r		1.48	1.65	1.65	1.83	1.80				
8	Z		.788	.822	.822	.890	.890				
9	P/Z	4÷8	2278.2	2560.3	2561.1	2713.8	2707.3				
10	P/TZ	9÷6	4126.62	42850	42864	41056	40957				
11	(P/TZ) ² /1000 (10 ² /1000)		.018200	.018361	.018373	.016856	.016774				
12	L/H(F _r Q _m) ²		.000158	.000158	.000158	.000158	.000158				
13		I ₁ + I ₂	.018358	.018519	.018531	.017014	.016932				
14	I _n	I ₀ ÷ I ₃	232.381	231.380	231.308	241.305	241.880				
15	M = P _n - P _{n-1}			309	310	310	304				
16	N = I _n + I _{n-1}			463.761	463.689	472.613	473.188				
17	M x N	I ₅ x I ₆			143.781		143.957				
18	Σ (M x N)	Σ I ₇			143.782		143.606				

(P_s = 2411.6)