

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE) PRESSURE
(SURFACE) (P_c & P_w)

Form C-122E
Adopted 9-1-55

COMPANY Exxon U.S.A. LEASE N.M. D.A. 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 0.0743 Q_m 0 M²cfd (L/H) (F_r Q_m)² 0 P_{cr} 671 T_{cr} 362

RATE: 1

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9
1	H		12530	62165							
2	GH		7668.36	3834.18							
3	37.5GH		287,563	143,781							
4	P _c or P _n		4351.1	3860.7	3842.4	3335.9	3303.5	3305.4			
5	P _r		6.48	5.75	5.73	4.97	4.92	4.92			
6	T		1661	597.5	597.5	534	534	534			
7	T _r		1.83	1.65	1.65	1.48	1.48	1.48			
8	Z		.965	.879	.879	.809	.807	.807			
9	P/Z	4÷8	4508.9	4392.2	4371.3	4123.6	4093.5	4095.9			
10	P/TZ	9÷6	6.8213	7.3509	7.3160	7.7221	7.6658	7.6702			
11	(P/TZ) ² /1000	(10) 2/1000									
12	L/H(F _r Q _m) ²										
13	I ₁ + I ₂										
14	I _n	10÷13	146.598	136.038	136.687	129.498	130.450	130.374			
15	M=P _n -P _{n-1}			490	509	506	539	537			
16	N=I _n +I _{n-1}			282.636	283.285	266.185	267.137	267.061			
17	M × N	15×16			144,111			143,411			
18	Σ(M × N)	Σ17			143,452			144,152			

P_w = 3303.8