

WORK SHEET FOR STEPWISE CALCULATION

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

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

COMPANY Amoco LEASE Empire South Works WELL NO. 12 DATE 1-28-77

LOCATION: Unit 10991 Section 5 Township 18-S Range 29

10991 H 10991 L/H 1000 G 0.6483 % CO₂ 0.41 % N₂ 0.54 % H₂S 0.0
d 1.995 F_r 0.01823 Q_m 2.579 M₂cid (L/H) (F_rQ_m)² 0.02211 P_{cr} 643 T_{cr} 378

TABLE IX & X

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FEB 8 1977
O. C. C.
ARTESIAN OFFICE

IN	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	0				10.771				
2	GH		0	2496.4				6498.8				
3	37.5G		0	13092.8				26185.6				
4	P _{cr} or P _m		3652.2	2587.4	3564.1	3562.8	2563.0	4034.0	4037.0	4037.0		
5	P _r		4.54	5.33	5.30	5.29	5.29	6.05	6.00	6.00		
6	T		526	588	588	588	588	6.50	6.50	6.50		
7	T _r		1.40	1.57	1.57	1.57	1.57	1.93	1.93	1.93		
8	Z		0.935	.849	.848	.849	.847	.928	.926	.926		
9	P/Z P/Z		4152.7	4225.4	4202.9	4206.4	4206.6	4390.1	4364.8	4359.6		
10	P/TZ		9.8948	9.1861	9.1479	9.1537	9.1541	6.7540	6.7104	6.7071		
11	(P/TZ)2/1000	(10)2/1000	.062328	.051640	.051092	.051195	.051181	.045616	.045030	.044925		
12	L/H(F _r Q _m) ²		.002211	.002211	.002211	.002211	.002211	.002211	.002211	.002211		
13			.064539	.053951	.053303	.053286	.053392	.049827	.049241	.049196		
14	I _n		122.326	133.444	134.099	134.000	133.992	141.217	142.046	142.112		
15	M=P _n -P _{n-1}			.635.2	511.9	570.6	570.8	511	426	444		
16	N=I _n +I _{n-1}			255.710	256.125	256.326	256.318	275.209	276.038	276.104		
17	M x N											
18	Σ (M x N)											