

47A

WORK SHEET FOR STEPWISE CALCULATION

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

Form C-122E
Adopted 9-1-65

COMPANY Marzano Oil Corp. LEASE Apple MF WELL NO. 1 DATE 4-22-86

LOCATION: Unit C Section 12 Township 17S Range 35E

L 12,935 H 12,935 LH 1.00 G 1.118 % CO₂ % N₂ % H₂S

d 1.995 F_r Q_m M²cfd (L/H) (F_rQ_m)² P_{cr} 651 T_{cr} 530

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12,935	6468								
2	GH		14,461	7231								
3	37.5GH		542,300	271150								
4	P _c or P _n		32239	22888	2273.4	1355.7	1213.7	1222.9	P _w =	1251.5		
5	P _r		495	3151	3.49	2.04	1.86	1.88				
6	T		663	599	599.	534	534	534				
7	T _r		1.25	1.13	1.13	1.01	1.01	1.01				
8	Z		1705	1536	1534	1285	1266	1268				
9	P/Z	4+8	4522.9	4270.1	4257.2	4651.4	4562.8	4563.0				
10	P/TZ	9+6	1.90	1.13	7.11	8.71	8.54	8.54				
11	(P/TZ) ² /1000	(10) 2/1000										
12	L/H(F _r Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ + I ₃	144484	140.276	140.702	114.803	117.032	117.029				
15	M = P _n - P _{n-1}			935	950	948	1060	1050				
16	N = I _n + I _{n-1}			285.	285	256	257	258				
17	M x N	I ₅ x I ₆			271554			270742				
18	Σ (M x N)	Σ I ₇			270745							