

WORK SHEET FOR STEPWISE CALCULATION

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

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 L/H 1.00 G m³/d 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	27150								
4	P _c or P _n		4616.5	3565.3	3535.6	2464.5	2391.2	2377.5	P _{wo} = 2391.4			
5	P _r		7.09	5.48	5.44	3.89	3.67	3.65				
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		1.898	.731	.727	.521	.493	.490				
9	P/Z	4÷8	5140.9	4877.2	4868.7	4730.3	4850.3	4851.9				
10	P/TZ	9÷6	7.75	8.14	8.13	8.86	9.08	9.09				
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	128967	122816	123030	112889	110.045	110.059				
15	M = P _n - P _{n-1}			1051	1077	1075	1148	1162				
16	N = I _n + I _{n-1}			251.8	252.0	235.9	233.1	233.1				
17	M x N	I ₅ x I ₆			271380			270877				
18	Σ (M x N)	Σ I ₇			270919							

RECEIVED
MAY 9 1986
O.C.D.
HOBBY OFFICE