

3RD

WORK SHEET FOR STEPWISE CALCULATION

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

Form C-122E
Adopted 9-1-65

COMPANY Manzano Oil Corp. Lease Appe 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 max 1.118 % CO₂ _____ % N₂ _____ % H₂S _____
d 1.995 F_r 0.18231 Q_m 566 M²cfd (L/H) (F_rQ_m)² 1.000106 P_{cr} 651 T_{cr} 530

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H			6468		12,935						
2	GH		0	7231		14,461						
3	37.5GH		0	271,150		542,300						
4	P _c or P _n		1993.2	3217.1	3140.1	4279.3	2189.2					
5	P _r		3.06	4.94	4.82	6.57	6.43					
6	T		534	599	599	663	663					
7	T _r		1.01	1.13	1.13	1.25	1.25					
8	Z		414	1676	1664	1848	1835					
9	P/Z	4÷8	118.5	4759.1	4729.0	5046.3	506.9					
10	P/TZ	9÷6	9.02	7.94	7.89	7.61	7.57					
11	(P/TZ)²/1000	10²/1000	1081286	1063123	1063329	1057932	1057200					
12	L/H(F _r Q _m)²		1000106	1000106	1000106	1000106	1000106					
13		I ₁ + I ₂	1081392	1063229	1062435	1058038	1057366					
14	I _n	I ₀ ÷ I ₃	110.771	125.654	126.449	131.143	131.507					
15	M = P _n - P _{n-1}			1823	1147	1139	1049					
16	N = I _n + I _{n-1}			236.14	237.2	257.6	258.4					
17	M × N	I ₅ × I ₆			270062		271039					
18	Σ (M × N)	Σ I ₇			270237		271260					