

4th

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_e & P_w)

Form C-122E
Adopted 9-1-65

COMPANY MANZANO 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 GMM 1.118 % CO₂ _____ % N₂ _____ % H₂S _____
d 1.995 F_r 0.1823 Q_m 794 M²cfd (L/H) (F_rQ_m)² 1.000210 P_{CT} 651 T_{CT} 530

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6468		12,935						
2	GH		0	7231		14,461						
3	37.5GH		0	271,150		542,200						
4	P _c or P _n		1233.2	2400.1	2303.5	3355.9	3259.7	P _s =	3223.9			
5	P _r		1.89	3.69	3.54	5.15	5.01					
6	T		534	599	599	663	663					
7	T _r		1.01	1.13	1.13	1.25	1.25					
8	Z		269	1552	1538	721	710					
9	P/Z	4-8	454.3	4348.6	430.5	4659.4	4591.1					
10	P/TZ	9-5	6.58	7.26	7.15	7.02	6.92					
11	(P/TZ) ² /1000	10-2/1000	1073702	1052704	1051091	1049384	1047953					
12	L/H(F _r Q _m) ²		100210	100210	100210	100210	100210					
13		11+12	1073912	1053914	1051301	104994	1048163					
14	I _n	10+13	116.151	137.199	135.331	141.840	143.729					
15	M=P _n -P _{n-1}			1167	1070	1053	956					
16	N=I _n +I _{n-1}			253.3	255.5	281.2	283.1					
17	M x N	15x16			273432							
18	Σ(M x N)	Σ17			268868							

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