

WORK SHEET FOR STEPWISE CALCULATION

(SURFACE)

PRESSURE (P_c & P_w)

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

COMPANY Petroleum Development Corp.

LEASE Sum Mayay Field WELL NO. 2

DATE 5/13/78

LOCATION: Unit G

Section 10

Township 19

Range 32

% CO₂ 0

% N₂ 0

% H₂S 0

12720 H 12720 LH 1.000

G₀₂ .740

% CO₂ 0

% N₂ 0

% H₂S 0

d 1.995 F_r .01823 Q_m

0

injected

(L/H) (F_rQ_m)²

0

P_{cr}

TABLE IN B-1

T_{cr}

405

TABLE IN B-2

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12720	6360		0						
2	GH		9412.8	4706.4		0						
3	37.5GH		352980	176490		0						
4	P _c or P _n		2807.4	2351.4	2354.2	1900.5	1879.0	1881.9		P _w =	1882.9	
5	P _r		4.21	3.53	3.53	2.85	2.82	2.82				
6	T		661	597.5	597.5	534	534	534				
7	T _r		1.63	1.48	1.48	1.32	1.32	1.32				
8	Z		1.822	1.771	1.771	1.626	1.627	1.627				
9	P/Z P/Z		3415.3	3049.9	3053.5	3036.0	2996.7	3001.4				
10	P/TZ		5.11669	5.1044	5.1104	5.6853	5.6119	5.6206				
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	193.539	195.910	195.679	175.892	178.194	177.917				
15	M = P _n - P _{n-1}		456	456	453	454	475	472				
16	N = I _n + I _{n-1}		389.449	389.218	371.571	373.873	373.596					
17	M x N	I ₅ x I ₆			176.385			176.464				
18	Σ (M x N)	Σ I ₇			176.575							