

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) 4th

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

COMPANY MESA PETROLEUM LEASE JOG STATE COM. WELL NO. # 1 DATE 1-18-80

LOCATION: Unit L Section 2 Township 24s Range 33e

L 13,250 H 13,250 L/H 1.00 G mix 1.322 % CO₂ .336 % N₂ 2.006 % H₂S _____

d 1.995 F. .018234 m²cid (L/H) (F_{Qm})² _____ P_{cr} 650 T_{cr} 537

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6625		13,250						
2	GH		0	8758		17,516						
3	37.5GH		0	328434		656,868						
4	P _{cr} or P _n		1113.2	2474.6	2354.6	3663.2	3584.7		Ps = 3554.8			
5	P _r		1.71	3.81	3.68	5.64	5.51					
6	T		534	600	600	666	666					
7	T _r		1.00	1.12	1.12	1.24	1.24					
8	Z		.253	.564	.551	.763	.752					
9	P/Z or P/Z	$\bar{4}=.8$	4400.0	4387.6	4345.9	4801.0	4766.9					
10	P/TZ	$\bar{9}=.6$	8.240	7.313	7.243	7.209	7.157					
11	(P/TZ) ² /1000	(10) ² /1000	.067892	.053475	.052462	.051966	.051229					
12	L/H(F _r Q _m) ²		.000417	.000417	.000417	.000417	.000417					
13		$\bar{11} + \bar{12}$	.068309	.053892	.052879	.052383	.051646					
14	I _n	$\bar{10} - \bar{13}$	120.623	135.691	136.973	137.616	138.586					
15	M = P _n - P _{n-1}			1361	1281	1268.6	1190					
16	N = I _n + I _{n-1}			256.314	257.596	274.589	275.559					
17	M x N	$\bar{15} \times \bar{16}$			330077		327.945					
18	$\Sigma (M \times N)$	$\Sigma \bar{17}$			326,790							