

WORK SHEET FOR STEPWISE CALCULATION

COMPANY MESA PETROLEUM LEASE JOG STATE COM. WELL NO. # 1 DATE 1-18-80LOCATION: Unit L Section 2 Township 24s Range 33eL 13,250 H 13,250 L/H 1.00 G mix 1.322 % CO₂ 336 % N₂ 2.006 % H₂Sd 1.995 F_r 0.018230 M²cfd (L/H) (F_rQ_m)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 _c or P _n		5743.2	7420.6	7328.6	8911.7	8811.2	Ps=	8785.6			
5	P _r		8.84	11.42	11.27	13.71	13.56					
6	T		534	600	600	666	666					
7	T _i		1.00	1.12	1.12	1.24	1.24					
8	Z		1.054	1.353	1.338	1.500	1.486					
9	P/Z P/Z	$\bar{4} \div \bar{8}$	5448.9	5484.5	5477.3	5541.1	5929.5					
10	P/TZ	$\bar{9} \div \bar{6}$	10.204	9.141	9.129	8.921	8.903					
11	(P/TZ) ² /1000	$(\bar{10})^2 / 1000$	104122	83355	83334	79577	79266					
12	L/H(F _r Q _m) ²		000104	000104	000104	000104	000104					
13		$\bar{11} + \bar{12}$	104226	83659	83438	79681	79370					
14	I _n	$\bar{10} \div \bar{13}$	97.903	109.263	109.407	111.958	112.173					
15	M=P _n -P _{n-1}			1677	1585	1583	1483					
16	N=I _n +I _{n-1}			207.166	207.310	221.360	221.580					
17	M x N	$\bar{15} \times \bar{16}$			328663		328530					
18	Σ (M x N)	$\Sigma \bar{17}$			328,204							