

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

(3)

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

COMPANY Amirada Hess LEASE State NE 1/4 WELL NO. 1 DATE 11-28-69

LOCATION: Unit K Section 10 Township 215 Range 35E

L 11592 H 11723 LH 0.989 G 0.6235 % CO₂ 0.01 % N₂ 0.61 % H₂S None

d 1.867 F_r 0.0219 m 0 M₂ cfd (L/H) (F_rQ_m)² 0 P_{cr} 671 T_{cr} 365

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11723	5862			0					
2	GH		73093	3654			0					
3	37.5GH		274099	137049			0					
				$\frac{191052}{0.69, 2.38}$				$\frac{131244}{471.484} = M$				
4	P _c or P _n		1166	1023	1025		884	887	$\Delta P =$	$\frac{822-297}{479.616 + 4(488.42) + 500.250}$		
5	P _r		1.738	1.525	1.528		1.317	1.322	$\Delta P =$	$\frac{2.22-2.97}{2.937.720}$		
6	T		620	572	572		524	524				
7	T _r		1.698	1.567	1.567		1.435	1.435				
8	Z		0.902	0.877	0.877		0.847	0.847				
9	P/2 P/2	$\frac{4}{8}$	1293	1166	1169		1044	1047				
10	P/T2	$\frac{9}{6}$	2.085	2.039	2.043		1.992	1.999				
11	(P/T2) ² /1000	(1002/1000)										
12	L/H(F _r Q _m) ²											
13		$\frac{11}{12}$										
14	I _n	$\frac{10}{13}$	479.616	490.436	489.476		502.008	500.250				
15	M=P _n -P _{n-1}		142.9	141.3	141.4		141.4	138.2				
16	N=I _n +I _{n-1}		970.052	969.092			991.484	989.726				
17	M x N	$\frac{15 \times 16}{16}$										
18	$\Sigma(M \times N)$	$\Sigma 17$	274099		137069			137027				

88.7