

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE $(P_c \& P_w)$
(SURFACE)

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

COMPANY Phillips 11 P. 160. LEASE Refined 11

WELL NO. 1

DATE 6.7.73

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 13, 632 H 13, 632 L/H 1.000 G max. 285 % CO₂ _____ % N₂ _____ % H₂S _____

d _____ F_r _____ Q_m 0 M²cd (L/H) (F_rQ_m)² 0 P_{CT} 666 T_{CT} 418

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13,632	13,632		0						
2	GH		13,632	13,632		0						
3	37.5GH		511,416	511,416		0						
4	P _c or P _n		5249.6	5249.6	4822.2	3618.2	3556.3	3559.6	3556.9 = P _n	P _n - ΔP		
5	P _i		288	6.70	6.66	5.90	5.34	5.34				
6	P		1.11	1.14	1.20	1.20	1.28	1.28				
7	P _i		1.11	1.14	1.20	1.20	1.28	1.28				
8	Z		1.995	1.995	1.876	1.744	1.737	1.737				
9	P/P _i or P/Z	4:8	5276.0	5067.6	5065.8	4822.1	4825.4	4829.8				
10	P/P _i Z	9:6	288	8.404	8.353	9.157	9.036	9.095				
11	(P/P _i) ² / 1000	(10) 2/1000										
12	L/H (F _r Q _m) ²											
13		11 + 12										
14	I _n	10 + 13	227.150	118.509	115.152	104.835	110.665	110.573				
15	M ² P _n - P _n ⁻¹		290.1	816.4	815.1	877.8	873.6					
16	N ⁻¹ I _n + I _n ⁻¹		290.155	290.155	228.954	228.954	228.954	228.954				
17	M x N	15 x 16										
18	Σ (M x N)	Σ 17			200,703							