

WORK SHEET FOR STEPWISE CALCULATION

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

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

COMPANY Amoco Production Co. LEASE Area 4117 WELL NO. 2 (10618) DATE 12-28-68

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 11250 H 11250 L/H 1.000 G 0.690 % CO₂ _____ % N₂ _____ % H₂S _____

d 1.905 $F_r = 0.1823 / Q_m$.570 M₂cid (L/H) ($F_r Q_m$)² .000090 P_{cr} 669 T_{cr} 388

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TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11250	5625	5625		0					
2	GH		7538	3769	3769		0					
3	37.5GH		282.675	141.338	141.338		0					
4	P_c or P_n		22279	1927	1944	1942	1606	1654	1649			
5	P_r		3.41	2.88	2.91	2.90	2.40	2.47	2.46			
6	T		615	568	568	568	568	568	568			
7	T_r		1.59	1.46	1.46	1.46	1.46	1.46	1.46			
8	Z		.745	.754	.754	.754	.777	.773	.773			
9	P/Z or P/Z	4.8	3059	2556	2578	2576	2067	2140	2133			
10	P/TZ	9.6	497	4.50	4.54	4.54	3.64	3.77	3.76			
11	$(P/TZ)^2 / 1000$	$(10)^2 / 1000$	.024701	.020250	.020612	.020612	XV	XV	XV			
12	$L/H(F_r Q_m)^2$		.000090	.000090	.000090	.000090	XV	XV	XV			
13		$I_1 + I_2$	0.24791	.020340	.020702	.020702	XV	XV	XV			
14	I_n	$10 \div I_3$	500.45	221.24	219.30	219.30	274.73	265.25	265.96			
15	$M = P_n - P_{n-1}$			352	335	337	336	288	293			
16	$N = I_n + I_{n-1}$			441.79	419.78	419.78	494.03	484.55	485.26			
17	$M \times N$	15×16		155.405	140.626	141.446						
18	$\Sigma (M \times N)$	$\Sigma 17$	282.675	127.190	142.049	141.209						

$$A P = 3 \times 282.675 = 631$$

$$P_w = 22279 - 631 = 16448$$