

WORK SHEET FOR STEPWISE CALCULATION

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

Form C-122E
Adopted 9-1-65

COMPANY Expro 110

LEASE 0/10/11/12/13

WELL NO. 1

DATE 3-4-70

LOCATION: Unit G

Section Z3

Township 12

Range 32

L 9400 H 9400

L/H 1.000

G 1.725

%CO₂ -

%N₂ -

%H₂S -

$d/1.995 \cdot F_r^{.018231} \cdot Q_m$

$M^2 \text{ cfd}$

(L/H) ($F_r Q_m$)²

P_{cr}

T_{cr}

TABLE IX & X

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		9400	4700			0					
2	GH		6909	3454.5			0					
3	37.5GH		259.688	129.844			0					
4	$P_c \text{ or } P_n$		2768.6	2415.1	2383.3	2365.3	2002.4	1000.8				
5	P_r		1814	3.42	3.57	3.57	3.00	2.98				
6	T		628	594	500	500	530	530				
7	T_r		1.07	1.36	1.36	1.36	1.33	1.32				
8	Z		.507	.680	.179	.679	.651	.651				
9	P/Z	$4 \div 8$	2421.5	3551.6	3516.0	3513.0	3075.9	3058.1				
10	P/TZ	$9 \div 6$	57943	6.5709	6.4522	6.4577	5.7601	5.7268				
11	$(P/TZ)^2 / 1000$	$(10 \div 2) / 1000$										
12	$L/H(F_r Q_m)^2$											
13		$I_1 + I_2$	1.029652	.000023	.000030	.0011701	.0000178	.00002996				
14	I_n	$I_0 - I_3$	1.03, 552	153.173	153.494	154.897	175.602	172.619				
15	$N = P_n - P_{n-1}$			282.0	354.7	382.7	382.6	304.5				
16	$N = I_n + I_{n-1}$			324.725	328.591	328.450	328.449	329.476				
17	$M \times N$	15×16			129.509			129.509				
18	$\Sigma(M \times N)$	ΣI_7	200.180									

2(37.5) (6.735) (5406)

277,286.000

795.1

P.2/8