

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
(SURFACE)

PRESSURE (P_f & P_s)
(P_c & P_w)

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

COMPANY Smith & Wigglesworth, Inc. LEASE At. 32 Conn. WELL NO. 1

DATE 12/3/79

LOCATION: Unit B Section 32 Township 19 Range 28

10116 H 10116 LH 1.000 G .601 %CO₂ .28 %N₂ .67 %H₂S

d 1225 F_r .018231 Q_m .650 M_{std} (L/H) (F_rQ_m)² 1.000/110 P_c 671 T_c 358

TABLE IX A X

IN	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5058		10116						
2	GH		0	30399		6078.7						
3	37.5GH		0	11399.5		227989						
4	P _c or P _n		1228.2	1963.1	196.24	2196.1	2189.9		P _c =	2191.1		
5	P _r		2.58	29.3	2.92	3.27	3.27					
6	T		53.4	584.5	584.5	635	635					
7	T _r		1.49	1.63	1.63	1.77	1.77					
8	Z		.792	.827	.828	.894	.894					
9	P/2 P/2	4÷8	2182.1	2378.7	2370.0	2446.5	2449.5					
10	P/TZ	9÷6	4.0863	4.0611	4.0547	3.8686	3.8575					
11	(P/TZ) ² /1000	(10) 2/1000	.016698	.016493	.016441	.014966	.014880					
12	L/H(F _r Q _m) ²		.000140	.000140	.000140	.000140	.000140					
13		I ₁ + I ₂	.016838	.016433	.016581	.015106	.015021					
14	I _n	I ₀ - I ₃	242.681	244.159	244.537	256.091	256.810					
15	M = P _n · P _n ⁻¹		235	234	234	234	238					
16	N = I _n + I _n -1		486.840	487.218	500.628	501.347						
17	M × N	15 × 16			11408.3							
18	Σ (M × N)	Σ 17			113906							