

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

Form C-122E
Adopted 9-1-65

COMPANY Shelly Oil LEASE West Tail Unit WELL NO. 1 DATE 12-23-72

LOCATION: Unit H Section 20 Township 25 Range 36

L 16.499 H 16.499 L/H 1.000 G .719 % CO₂ 1.00 % N₂ 1.00 % H₂S .25

d 3.947 F_r .00163 Q_m 5.808 M₂cid (L/H) (F_rQ_m)² .003908 P_{cr} 671 T_{cr} 391
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	8224.5		16,499						
2	GH		0	5913.42		11,826.84						
3	37.5GH		0	321,753		443,507						
4	P _c or P _n		2251.2	4214.2	4192.2	5131.2	5098.2	5096.2				
5	P _f		4.85	6.28	6.25	7.65	7.66	7.59				
6	T		535	605.5	605.5	676	676	676				
7	T _f		1.37	1.55	1.55	1.73	1.73	1.73				
8	Z		.740	.892	.896	1.004	1.002	1.001				
9	P/Z	4÷8	4392.5	4724.4	4716.3	5110.8	5088.0	5091.1				
10	P/TZ	9÷6	8.2122	4.8025	4.7793	4.5603	4.5267	4.5312				
11	(P/TZ) ² /1000	(10) ² /1000	.067444	.065850	.066817	.057158	.056651	.056719				
12	L/H(F _r Q _m) ²		.003908	.003908	.003908	.003908	.003908	.003908				
13		I ₁ + I ₂	.001348	.064788	.064425	.061066	.060559	.060627				
14	I _n	I ₀ + I ₃	115.101	120.432	120.750	123.905	124.288	124.221				
15	M = P _n - P _{n-1}			963	941	939	706	704				
16	N = I _n + I _{n-1}			235.533	235.901	244.555	245.638	244.971				
17	M × N	15 × 16						20,954				
18	Σ (M × N)	Σ 17			221,936			443,396				

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FEB 25 1972

OIL CONSERVATION COMM.
HCCS, N. H.