

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 Company LEASE West Tail Unit WELL NO. 1 DATE 12-23-72

LOCATION: Unit H Section 20 Township 2S Range 36

L 16.449 H 16.449 L/H 1.000 G .719 % CO₂ 1.00 % N₂ 1.00 % H₂S .25

d 2.141 F_r 2.141 Q_m 4.557 M₂ cid (L/H) (F_rQ_m)² .002406 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		16449						
2	GH		0	5913.42		11826.8						
3	37.5GH		0	221753		443,506						
4	P _c or P _n		3252.2	4207.2	4186.2	5106.2	5065.2	5063.2				
5	P _r		4.85	6.27	6.23	7.61	7.55	7.55				
6	T		53.1	603.5	603.5	676	676	676				
7	T _r		1.36	1.54	1.54	1.73	1.73	1.73				
8	Z		.736	.889	.886	1.002	.999	.999				
9	P/Z	4÷8	4418.15	4732.5	4718.1	5076.0	5070.3	5068.3				
10	P/TZ	9÷6	8.3216	7.8418	7.8178	7.5385	7.5004	7.4975				
11	(P/TZ) ² /1000	(10) ² /1000	.667248	.661173	.661118	.656829	.656256	.656213				
12	L/H(F _r Q _m) ²		.002406	.002406	.002406	.002406	.002406	.002406				
13		I ₁ + I ₂	.001654	.002899	.003520	.057235	.058662	.058619				
14	I _n	I ₀ ÷ I ₃	116.136	122.721	123.068	127.264	127.258	127.902				
15	M = P _n - P _{n-1}			755	920	926	885	883				
16	N = I _n + I _{n-1}			221,753	221,753	221,753	221,753	221,753				
17	M × N	15 × 16										
18	Σ (M × N)	Σ 17										

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OIL CONSERVATION COMM.
HOELS, R. M.