

WORK SHEET FOR STEPWISE CALCULATION

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

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

FLOW NO. 2

COMPANY SKELLY OIL COMPANY LEASE FORTY NINE RIDGE UNIT WELL NO. 2

DATE 12-4-67

LOCATION: Unit 2 Section 21 Township 33 Range 3

L H L/H 1 G 1 % CO₂ 1.31 % N₂ 0.59 % H₂S -

2 3/8" d 1.775 F₁₀₀ 0 M₂₀₀ (L/H) (F₁₀₀)² 0 P_{cr} 675 T_{cr} 342
11 1/2" d 3.020 F₁₀₀ 0 M₂₀₀ (L/H) (F₁₀₀)² 0 P_{cr} 675 T_{cr} 342

To C-122

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		18981	12500	10533	6252		0				
2	GH		8039.08	7187.50	7187.50	3593.75		0				
3	37.5GH		301.466	269.531	269.531	1347.66		0				
	Est M		0	-51.6	0	-219.4	-219.1	-219.6	-218.1	-218.3		
4	P _c or P _n		1431	1879.4	1879.4	1660.0	1660.3	1440.7	1442.2	1442.0	1442	
5	P _r		2.86	2.78	2.78	2.46	2.46	2.13	2.14	2.14	533	
6	T ^{OR}		645	633	633	581		533			533	
7	T _r		1.84	1.85	1.85	1.70	1.70	1.56	1.56	1.56	1.56	
8	Z		.918	.910	.910	.878	.878	.840	.839	.839	.839	
9	P/Z		2103.50	2065.30	2065.30	1890.70	1891.0	1715.10	1719.0	1718.7		
10	P/TZ		3.26120	3.26270	3.26270	3.25420	3.25470	3.21780	3.22510	3.22460		
11	(P/TZ) ² /1000	(1000) ² /1000	.010635	.010645	.010645	.010590	.010593	.010354	.010401	.010398		
12	L/H(F ₁₀₀) ²		0	0	0	0	0	0				
13			.010635	.010645	.010645	.010590	.010593	.010354	.010401	.010398		
14	I _n	I ₀ +I ₃	306.648	306.501	306.501	307.290	307.250	310.778	310.076	310.117		
15	M=P _n -P _{n-1}		0	-51.6	0	-219.1	-219.1	-218.1	-218.3	-218.3		
16	N=I _n +I _{n-1}		306.648	613.149	306.501	613.791	613.751	618.028	617.326	617.367		
17	M x N	I ₅ x I ₆	0	-31638.0	0	-134472.8	-134472.8					
18	Σ (M x N)	Σ I ₇	301466	269038	269531		135058.8			287.300		

Showing bottom hole pressure also measured with Andersons LHP gauge.