

WORK SHEET FOR STEPWISE CALCULATION

NO. OF STAGES (SURFACE) PRESSURE (P_c & P_w)

3rd

Form C-112-E
Adopted 9-1-65

COMPANY Liberty Oil & Gas LEASE Lee Federal Com WELL NO. 2 DATE 3/27/83

LOCATION: Unit _____ Section 25 Township 20S Range 28E

L 11230 H 11230 L/H 1.000 G mix .6355 % CO₂ .990 % N₂ .446 % H₂S _____

d 1.995 F_r 018213 Q_m 0 M²cid (L/H) (F_rQ_m)² 0 P_{cr} 670 T_{cr} 372

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11230	5615		0						
2	GH		7136.7	3568.3		0						
3	37.5GH		267,625	133,812		0						
4	P _c or P _n		4333.5	8855.5	3846.0	3359.7	3331.8	3333.3			P _w =3336.5	
5	P _r		6.47	5.75	5.74	5.01	4.97	4.98				
6	T		646	590	590	534	534	534				
7	T _r		1.74	1.59	1.59	1.44	1.44	1.44				
8	Z		.939	.879	.879	.787	.785	.786				
9	P/Z P/Z	4÷8	4615.0	4386.3	4375.4	4269.0	4244.4	4240.8				
10	P/TZ	9÷6	7.1440	7.4343	7.4160	7.9943	7.9483	7.9415				
11	(P/TZ) ² /1000	(10) 2/1000										
12	L/H(F _r Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ ÷I ₃	139.977	134.512	134.843	125.090	125.812	125.921				
15	M=P _n -P _{n-1}			478	487	486	514	513				
16	N=I _n +I _{n-1}			274.490	274.821	259.933	260.656	260.765				
17	M x N	I ₅ x I ₆			133973			133708				
18	Σ (M x N)	Σ I ₇			133652							