

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
~~XXXXXXXXXX~~

PRESSURE
~~XXXXXXXXXX~~

(P₁ & P₂)
~~XXXXXXXXXX~~

5th

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 11230 Section 25 Township 20S Range 28E

L 11230 H 11230 L/H 1.000 Gmix .6355 %CO₂ .990 %N₂ .446 %H₂S

d 1.995 F_r .018284 10.300 M²cid (L/H) (F_rQ_m)² .035261 P_{cr} 670 T_{cr} 372

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	.5615		11230						
2	GH		0	8568.3		7136.7						
3	37.5GH		0	133812		267625						
4	P _c or P _n		2448.2	3243.5	3245.0	4041.9	4045.3		Ps=4045.1			
5	P _r		3.65	4.84	4.84	6.03	6.04					
6	T		534	590	590	646	646					
7	T _r		1.44	1.59	1.59	1.74	1.74					
8	Z		.740	.840	.840	.919	.920					
9	P/Z P/Z	4÷8	3308.4	3861.3	3863.1	4398.1	4397.0					
10	P/TZ	9÷6	6.1955	6.5446	6.5477	6.8083	6.8065					
11	(P/TZ) ² /1000	(102/1000)	.038384	.042832	.042872	.046353	.046329					
12	L/H(F _r Q _m) ²		.035261	.035261	.035261	.035261	.035261					
13		I ₁ + I ₂	.073645	.078093	.078133	.081614	.081590					
14	I _n	I ₀ ÷ I ₃	84.126	83.805	83.802	83.420	83.424					
15	M = P _n - P _{n-1}			795	797	797	800					
16	N = I _n + I _{n-1}			167,931	167,928	167,222	167,225					
17	M x N	I ₅ x I ₆			133809		133818					
18	Σ (M x N)	Σ I ₇			133816							