

WORK SHEET FOR STEPWISE CALCULATION

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

(SUBSURFACE) PRESSURE (P_i & P_s)
XXXXXX 2nd

COMPANY Liberty Oil & Gas LEASE Lee Federal Com WELL NO. 2 DATE 3/29/83

LOCATION: Unit Section 25 Township 20S Range 20E

L 10619 H 10619 L/H 1.000 G .6444 % CO₂ .391 % N₂ 1.970 % H₂S
d 1.995 F_r .08231 Q_m .338 M²cid (L/H) (F_rQ_m)² .000038 P_{cr} 670 T_{cr} 372

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5309.5		10619						
2	GH		0	3421.4		6842.9						
3	37.5GH		0	128394		256608						
4	P _c or P _n		3233.2	3732.8	3716.8	4198.9	4176.1				P _w =4172.1	
5	P _r		4.83	5.57	5.55	6.27	6.23					
6	T		534	587	587	640	640					
7	T _r		1.44	1.58	1.58	1.72	1.72					
8	Z		.778	.871	.870	.930	.929					
9	P/Z P/Z	4÷8	4155.8	4285.6	4272.2	4515.0	4495.2					
10	P/TZ	9÷6	7.7824	7.3009	7.2781	7.0546	7.0238					
11	(P/TZ) ² /1000	10÷2÷1000	.060565	.053303	.052970	.049768	.049334					
12	L/H(F _r Q _m) ²		.000038	.000038	.000038	.000038	.000038					
13		11÷12	.060603	.053341	.053008	.049806	.049372					
14	I _n	10÷13	128.416	136.872	137.302	141.642	142.262					
15	M=P _n ·P _n ⁻¹			500	484	482	459					
16	N=I _n +I _{n-1}			265.287	265.717	278.944	279.564					
17	M x N	15 x 16			128.512		128.381					
18	Σ (M x N)	Σ 17			128096							