

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~XXXXXXXXXX~~

3rd

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

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

LOCATION: Unit L 10619 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 .478 M²cld (L/H) (F_rQ_m)² .000076 P_{cr} 670 T_{cr} 372
 TABLE 10.8.8

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	128304		256608						
4	P _c or P _n		3153.2	3644.5	3629.2	4103.8	4081.7			Ps=4078.0		
5	P _r		4.71	5.44	5.42	6.13	6.09					
6	T		534	587	587	640	640					
7	T _r		1.44	1.58	1.58	1.72	1.72					
8	Z		.772	.864	.863	.923	.922					
9	P/Z P/Z	4÷8	4084.5	4218.2	4205.4	4446.1	4427.1					
10	P/TZ	9÷6	7.6488	7.1860	7.1642	6.9471	6.9173					
11	(P/TZ) ² /1000	10 ² /1000	.058504	.051639	.051326	.048262	.047849					
12	L/H(F _r Q _m) ²		.000076	.000076	.000076	.000076	.000076					
13		11÷12	.058580	.051715	.051104	.048338	.047925					
14	I _n	10÷13	130.570	138.954	139.376	143.719	144.336					
15	M=P _n -P _{n-1}			491	476	475	453					
16	N=I _n +I _{n-1}			269.524	269.946	283.095	283.711					
17	M x N	15 x 16			128504		128382					
18	Σ (M x N)	Σ 17			128104							