

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P₁ & P₂)
(XXXXXXXXXX)

1st

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 _____ Section 25 Township _____ Range 20e

L 10619 H 10619 L/H 1.000 G .6444 % CO₂ .391 % N₂ 1.970 % H₂S _____

d 1.995 F_r .018231 Q_m .149 M²cfd (L/H) (F_rQ_m)² .0000007 P_{cr} 670 T_{cr} 372

TABLE 18.6.6

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		3453.2	3975.1	3958.3	4461.7	4473.1			Pw=4433.3		
5	P _r		5.15	5.93	5.91	6.66	6.62					
6	T		534	587	587	640	640					
7	T _r		1.44	1.58	1.58	1.72	1.72					
8	Z		.795	.888	.887	.948	.946					
9	P/Z P/Z	$\bar{4} \div \bar{8}$	4343.6	4476.4	4462.5	4706.4	4690.4					
10	P/TZ	$\bar{9} \div \bar{6}$	8.1342	7.6260	7.6022	7.3538	7.3287					
11	(P/TZ) ² /1000	$(\bar{10} \div \bar{2}) \div \bar{1000}$	.066165	.058155	.057794	.054078	.053711					
12	L/H(F _r Q _m) ²		.000007	.000007	.000007	.000007	.000007					
13		$\bar{11} + \bar{12}$	.066172	.058162	.057801	.054085	.053718					
14	I _n	$\bar{10} \div \bar{13}$	122.925	131.116	131.524	135.967	136.431					
15	M=P _n ·P _n ⁻¹			522	505	503	479					
16	N=I _n + I _n -1			254.041	254.449	267.492	267.955					
17	M × N	$\bar{15} \times \bar{16}$			128510		128320					
18	Σ(M × N)	Σ $\bar{17}$			128098							