

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) 4th

Form C-172-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 G mix .6355 % CO₂ .990 % N₂ .446 % H₂S
d 1.995 F_r .018231 Q_m 2.912 M²cid (L/H) (F_rQ_m)² .020806 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	3568.3		7136.7						
3	37.5GH		0	133.812		267.625						
4	P _c or P _n		2858.2	3529.2	3527.1	4195.8	4193.6		Ps=4192.8			
5	P _r		4.27	5.27	5.26	6.26	6.26					
6	T		534	590	590	646	646					
7	T _r		1.44	1.59	1.59	1.74	1.74					
8	Z		.754	.856	.856	.930	.930					
9	P/Z P/Z	4÷8	3790.7	4123.0	4120.4	4511.6	4509.2					
10	P/TZ	9÷6	7.0987	6.9881	6.9838	6.9840	6.9803					
11	(P/TZ) ² /1000	(10) 2/1000	050392	.048833	.048773	.048776	.048724					
12	L/H(F _r Q _m) ²		.020806	.020806	.020806	.020806	.020806					
13		I1 + I2	071198	.069639	.069579	.069582	.069530					
14	I _n	I0÷I3	99.704	100.347	100.372	100.370	100.392					
15	M=P _n -P _{n-1}			671	669	669	667					
16	N=I _n +I _{n-1}			200.051	200.076	200.742	200.764					
17	M x N	15 x 16			133829		133811					
18	Σ (M x N)	Σ I7			133796							