

WORK SHEET FOR STEPWISE CALCULATION

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

5th

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

3/29/83

2

WELL NO.

Lee Federal Com

COMPANY Liberty Oil & Gas LEASE

LOCATION: Unit

Section

25

Township

20s

Range

20e

L 10619

H

10619

L/H

1.000

G

.6444

% CO₂

.391

% N₂

1.970

% H₂S

$$d \frac{1.995 F_r \cdot 0.018231}{Q_m} \frac{1.000}{M^2 c_{fd}} \frac{(L/H) (F_r Q_m)^2}{P_{cr}} \frac{670}{T_{cr}} \frac{372}{T_{cr}}$$

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		2643.2	3073.2	3061.4	3478.5	3462.3			Ps=3459.2		
5	P _r		3.95	4.59	4.57	5.19	5.17					
6	T		534	587	587	640	640					
7	T _r		1.44	1.58	1.58	1.72	1.72					
8	Z		.744	.832	.831	.886	.885					
9	P/Z P/Z	4-8	3552.7	3693.8	3684.0	3926.1	3912.3					
10	P/TZ	9-6	6.6530	6.2926	6.2760	6.1345	6.1129					
11	(P/TZ) ² /1000	10-2/1000	.044262	.039597	.039388	.037632	.037367					
12	L/H(F _r Q _m) ²		.000332	.000332	.000332	.000332	.000332					
13		11+12	.044594	.039929	.039720	.037964	.037699					
14	I _n	10+13	149.190	157.595	158.006	161.588	162.150					
15	M=P _n -P _{n-1}			430	418	417	401					
16	N=I _n +I _{n-1}			306.784	307.196	319.594	320.156					
17	M x N	15x16			128476		128357					
18	Σ (M x N)	Σ 17			128132							