

WORK SHEET FOR STEPWISE CALCULATION

~~XXXXXXXXXX~~ PRESSURE (P_c & P_w)

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

1 st

GULF OIL

COMPANY EXPLORATION & PROD. LEASE WHITE CITY PENN GAS WELL NO. COM UNIT 3 #2 DATE 10/11/82

LOCATION: Unit Section 28 Township 24 S Range 26 E

L 10850 H 10850 L/H 1.000 G .576 % CO₂ 1.41 % N₂ .30 % H₂S

d 1.995 F_r .01823 $\frac{Q_m}{m}$ 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 672 T_{cr} 350

TABLE 1A & B

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10850	5425		0						
2	GH		6249.6	3124.8		0						
3	37.5GH		234360	117180		0						
4	P _c or P _n		3703.9	3340.2	3332.6	2962.2	2938.2	2939.5				
5	P _r		5.51	4.97	4.96	4.41	4.37	4.37		PW = 2942.5		
6	T		643	588.5	588.5	534	534	534				
7	T _r		1.84	1.68	1.68	1.53	1.53	1.53				
8	Z		.928	.877	.877	.787	.786	.786				
9	P/Z P/Z	4÷8	3991.3	3808.7	3800.0	3763.9	3738.1	3739.8				
10	P/TZ	9÷6	6.2073	6.4718	6.4571	7.0485	7.0003	7.0034				
11	(P/TZ) ² /1000	(10) 2/1000										
12	L/H(F _r Q _m) ²											
13	I ₁ + I ₂											
14	I _n	I ₀ ÷ I ₃	161.100	154.518	154.869	141.874	142.850	142.787				
15	M = P _n - P _{n-1}			364	371	370	394	393				
16	N = I _n + I _{n-1}			315.617	315.969	296.743	297.720	297.656				
17	M x N	I ₅ x I ₆			117.310			117024				
18	Σ (M x N)	Σ I ₇			117049							