

3 rd
PRESSURE
(P_c & P_w)

~~X~~
(SURFACE)

WORK SHEET FOR STEPWISE CALCULATION

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 $\frac{P_r}{P_c}$ 0 $\frac{Q_m}{Q_{m1}}$ 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 672 T_{cr} 350

TABLE 15 & 16

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		3051.9	2743.3	2738.3	2424.9	2407.2	2408.3		PW = 2410.8		
5	P _r		4.54	4.08	4.07	3.61	3.58	3.58				
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		.901	.857	.856	.771	.771	.771				
9	P/Z P/Z	4-8	3387.2	3201.0	3199.0	3145.2	3145.1	3123.6				
10	P/TZ	9-6	5.2679	5.4392	5.4358	5.8898	5.8467	5.8495				
11	(P/TZ) ² /1000	10-2/1000										
12	L/H(F _r Q _m) ²											
13	I ₁ + I ₂											
14	I _n	10-13	189.828	183.852	183.966	169.786	171.037	170.956				
15	M = P _n - P _{n-1}			309	314	313	331	330				
16	N = I _n + I _{n-1}			373.680	373.793	353.751	355.002	354.921				
17	M x N	15x16			117216			117118				
18	Σ (M x N)	Σ 17			117144							