

WORK SHEET FOR STEPWISE CALCULATION

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

XXXXXX PRESSURE
(SURFACE) (P_c & P_w)

4th

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 Q_m 0 M²cfd (L/H) (F_rQ_m)² 0 P_{cr} 672 T_{cr} 350

TABLE 13 & 8

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		2475.2	2221.8	2219.8	1964.5	1953.2	1954.0	P _w = 1956.3			
5	P _r		3.68	3.31	3.30	2.92	2.91	2.91				
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		.890	.859	.859	.779	.779	.779				
9	P/Z P/Z	4÷8	2781.1	2586.5	2584.1	2521.9	2507.4	2508.3				
10	P/TZ	9÷6	4.3252	4.3950	4.3910	4.7226	4.6954	4.6972				
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	231.205	227.534	227.740	211.747	212.976	212.894				
15	M=P _n ·P _n ⁻¹			253	255	255	267	266				
16	N=I _n + I _n -1			458.738	458.945	439.487	440.716	440.634				
17	M × N	15 × 16			117175			117163				
18	Σ (M × N)	Σ 17			117185							