

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~ISOTHERMAL~~

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

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 .018231 Q_m .807 M²cfd (L/H) (F_rQ_m)² .000216 P_{cr} 672 T_{cr} 350
 TABLE 11 & 12

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5425		10850						
2	GH		0	3124.8		6249.6						
3	37.5GH		0	117180		234360						
4	P _{cr} or P _n		2938.2	3350.2	3334.5	3729.4	3707.9		Ps =	3703.9		
5	P _r		4.37	4.99	4.96	5.55	5.52					
6	T		534	588.5	588.5	643	643					
7	T _r		1.53	1.68	1.68	1.84	1.84					
8	Z		.786	.878	.877	.929	.928					
9	P/Z P/Z	4÷8	3738.2	3815.7	3802.2	4014.4	3995.6					
10	P/TZ	9÷6	7.0003	6.4837	6.4608	6.2433	6.2139					
11	(P/TZ) ² /1000	10÷2/1000	.049004	.042039	.041742	.038978	.038613					
12	L/H(F _r Q _m) ²		.000216	.000216	.000216	.000216	.000216					
13		11÷12	.049220	.042255	.041958	.039194	.038829					
14	I _n	10÷13	142.225	153.442	153.983	159.292	160.034					
15	M=P _n ·P _{n-1}			412	396	395	373					
16	N=I _n +I _{n-1}			295.667	296.208	313.275	314.017					
17	M×N	15×16			117394		117243					
18	Σ(M×N)	Σ17			116966							