

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 F_r .0182 Q_m 1.636 M²cid (L/H) (F_rQ_m)² .000890 P_{cr} 672 T_{cr} 350

TABLE IX & X

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 _c or P _n		2393.2	2742.7	2731.7	3069.3	3055.0		Ps = 3051.9			
5	P _r		3.56	4.08	4.07	4.57	4.55					
6	T		534	588.5	588.5	643	643					
7	T _r		1.53	1.68	1.68	1.84	1.84					
8	Z		.771	.857	.856	.901	.901					
9	P/Z P/Z	4÷8	3104.0	3200.4	3191.3	3406.6	3390.7					
10	P/TZ	9÷6	5.8128	5.4382	5.4227	5.2980	5.2733					
11	(P/TZ) ² /1000	(10) 2/1000	0.33788	.029574	.029406	.028068	.027808					
12	L/H(F _r Q _m) ²		.000890	.000890	.000890	.000890	.000890					
13		11÷12	.034678	.030464	.030296	.028958	.028698					
14	I _n	10÷13	167.621	178.513	178.992	182.954	183.751					
15	M=P _n -P _{n-1}			350	339	338	323					
16	N=I _n +I _{n-1}			346.134	346.613	361946	362.743					
17	M x N	15 x 16			117342		117276					
18	Σ (M x N)	Σ 17			117018							