(STATIC BHP CALCULATED BACK TO SURFACE = Pc)

Form C-122F
Adopted 9-1-65

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c ~~or P_w~~)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f ~~or P_s~~)

COMPANY SANTA FE ENERGY LEASE DUKE GOLD FED. WELL NO. 1 DATE 10-18-90

LOCATION: Unit ______ Section 17 Township 23S Range [illegible]

L* 13338 H 13338 L/H 1.000 G .591 % CO_2 .63 % N_2 .85 % H_2S ______

* = BHP INSTRUMENT SET @ THIS DEPTH

GH 7882.8 P_{cr} 672 (TABLE IX & X) T_{cr} 354 (TABLE IX & X)

LINE		1	2	3	4	5	6	7	8
1	T_w(W.H. °R)	534	534	534					
2	T_s(B.H. °R)	667	667	667					
3	$T = (\frac{T_w + T_s}{2})$	600.5	600.5	600.5					
4	Z (Est.)	1.198	1.150	1.126					
5	TZ	719.3	678.5	676.1					
6	GH/TZ	10.957	11.616	11.658					
7	e^s(Table XIV)	1.508	1.545	1.548					
8	P_f ~~or P_s~~	7413.2	7413.2	7413.2					
9	P_f^2 ~~or P_s^2~~	54955.5	54955.5	52955.5					
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	36438.2	35558.2	[illegible]					
11	P_c ~~or P_w~~	6036.4	5962.2	[illegible]					
12	$P = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	6724.8	6687.7	6685.4					
13	$P_r = (P/P_{cr})$	10.00	9.95	9.94					
14	$T_r = (T/T_{cr})$	1.69	1.69	1.69					
15	Z (Table XI)	1.130	1.126	[illegible]					