FLOW RATE NO. 1

P_w = 4971

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) (SURFACE) PRESSURE (P_f & P_s) (P_c & P_w)

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

COMPANY B-A LEASE NORTH WILSON DEEP UNIT WELL NO. 2 DATE 4-22-64

LOCATION: Unit F Section 5 Township 21-S Range 35-E

L 11253 H 11253 L/H 1.00 G .648 % CO_2 .24 % N_2 .39 % H_2S .5/100 CF

T_0 = 526
T_{H_2} = 577
= 6.28

d 1995 F_r .01823 Q_m 4.809 M^2cfd (L/H) $(F_rQ_m)^2$ _____ P_{cr} 670 (TABLE IX & X) T_{cr} 373 (TABLE IX & X)

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11253	5636.5		0						
2	GH		7292	.3646		0						
3	37.5GH		273,450	136,725		0						
4	P_c or P_n	BHP Emp	6281	5655	5642 OK	5003	4971 OK					
5	P_r		9.37	8.44	8.42	7.47	7.42					
6	T		6.28	577	577	526	526					
7	T_r		1.68	1.55	1.55	1.41	1.41					
8	Z		1.092	1.025	1.024	.940	.936					
9	P/Z P/Z	$\bar{4}\div\bar{8}$	5751.8	5517.1	5509.8	5322.3	5310.9					
10	P/TZ	$\bar{9}\div\bar{6}$	9.158	9.561	9.549	10.118	10.096					
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$	—									
12	$L/H(F_rQ_m)^2$		—									
13		$\bar{11}+\bar{12}$	—									
14	I_n	$\bar{10}\div\bar{13}$	109.194	104.591	104.723	98.833	99.049					
15	$M=P_n-P_{n-1}$			626	639	639	671					
16	$N=I_n+I_{n-1}$			213.785	213.917	203.556	203.772					
17	M x N	$\bar{15}\times\bar{16}$			136,693							
18	Σ(M x N)	$\Sigma\bar{17}$	273,450		136,757							

One copy to be filed in District Office (Work copy acceptable)