

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_c & P_w)

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

COMPANY NATOMAS LEASE State Com 23 WELL NO. 1 DATE 6-20-79
LOCATION: Unit Section 23 Township 23S Range 34E

L 12,182 H 12,182 LH 100 G MIX. 684 % CO₂ % N₂ % H₂S

d 2441 F_r 0.0763 Q_m M₂ (L/H) (F_r Q_m)^{1/2} P_{cs} 669 T_{cs} 385

TABLE 18 & 19

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12182	6091		0						
2	GH		8332	4165		0						
3	37.5GH		312,468	156,234		0						
4	P _c or P _n		56222.6	4978.2	4957.8	4095.0	4251.7	4253.1				
5	P _r		8,410	7,441	7,441	6,442	6,336	6,336				
6	T		656	595	595	534	534	534				
7	T _r		1,70	1,55	1,55	1,39	1,39	1,39				
8	Z		1,039	952	951	859	854	854				
9	P/Z P/Z	4+8	5411.5	5222.2	5213.2	4999.9	4978.6	4980.3				
10	P/TZ	9+6	8,249	8,789	8,762	9,363	9,323	9,326				
11	(P/TZ) ² /1000 (10 ² /1000)											
12	L/H (F _r Q _m) ²											
13	I ₁ + I ₂											
14	I _n		121,222	113,784	114,132	106,801	107,260	107,223				
15	M = P _n - P _{n-1}			644	664	663	706	705				
16	N = I _n + I _{n-1}			235,006	235,354	220,633	221,392	221,355				
17	M x N				156,465			155,976				
18	Σ (M x N)				156,003							

4.