

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)

PRESSURE (P_f & P_s)

(SURFACE) ~~(P_f & P_s)~~

3RD

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

COMPANY NATOMAS LEASE STATE Com 23 WELL NO. 1 DATE 6-20-79

LOCATION: Unit H 12, 182 Section 23 Township 23S Range 34E

L. 12, 182 H 12, 182 LH 1.00 GMIX .684 % CO₂ % N₂ % H₂S
d 2.441 F_r 1010763 Q_m 1.958 M₂ 1.000444 P_{cs} 669 T_{cs} 385

TABLE 18 & 19

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H											
2	GH		6091			12182						
3	37.5GH		4166			8332						
			156234			312468						
4	P _c or P _n		3693.2	4380.1	4360.3	5025.9	4987.6					
5	P _r		5.52	6.55	6.52	7.51	7.46					
6	T		534	595	595	656	656					
7	T _r		1.39	1.55	1.55	1.70	1.70					
8	Z		1.793	.895	.893	.991	.989					
9	P/Z P/Z	4+8	4657.3	4893.9	4882.8	5071.5	5043.1					
10	P/TZ	9+5	8.221	8.225	8.206	7.731	7.688					
11	(P/TZ) ² /1000 (10 ² /1000)		1076063	1067652	1067343	1059267	1059100					
12	L/H(F _r Q _m) ²		1000444	1000444	1000444	1000444	1000444					
13		11+12	1076063	1067652	1067343	1059267	1059100					
14	I _n	10+13	113.7228	120.470	120.740	128.016	128.721					
15	M=P _n -P _{n-1}		687	667	666	666	627					
16	N=I _n +I _{n-1}		234.198	234.468	248.756	249.461						
17	M x N	15x16		156915		156496						
18	Σ(M x N)	Σ17		156053								