

3 RP

(SUBSURFACE) PRESSURE (P_c & P_w)
(SURFACE)

WORK SHEET FOR STEPWISE CALCULATION

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

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

H 12, 182 LH 1.00 GMY 684 % CO₂ % N₂ % H₂S

d 2,141 F_r 10763 Q_m M² H₂O (L/H) (F_r Q_m)^{1/2} P_{cs} 669 T_{cs} 385

TABLE 1A & B

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12182	6091								
2	GH		8332	4166								
3	37.5GH		312468	156234								
4	P _c or P _n		49554	4384.5	4364.1	3244.2	3702.0	3703.7	(P _w)	3703.9		
5	P _r		145	6.55	6.52	5.60	5.53	5.53				
6	T		656	595	595	534	534	534				
7	T _r		170	1.55	1.55	1.38	1.39	1.39				
8	Z		588	595	593	1799	794	794				
9	P/Z P/Z	4+8	505.9	4858.9	4887.0	4686.2	4662.5	4664.6				
10	P/TZ	9+6	7692	8233	8213	8776	8731	8735				
11	(P/TZ) ² /1000 (10 ² /1000)											
12	L/H(F _r Q _m) ²											
13	I ₁ + I ₂											
14	I _n	10+13	130005	121456	121752	113952	114531	114480				
15	M = P _n - P _{n-1}			601	621	620	662	660				
16	N = I _n + I _{n-1}			251461	251757	235704	236283	236232				
17	M x N	15 x 16			156418			156017				
18	Σ (M x N)	Σ 17			156050							