

3rd

PRESSURE
(P_c & P_w)SURFACE
(SURFACE)

WORK SHEET FOR STEPWISE CALCULATION

COMPANY Aminole USA, Inc. LEASE Federal 19-1 WELL NO. 1 DATE 2-24-83LOCATION: Unit 13089 Section 19 Township 19S Range 33E13089 H 13089 L/H 1.000 G .7319 % CO₂ 5.002 % N₂ .607 % H₂Sd 2.441 F_r 010763 M^2 cld 0 (L/H) ($F_r Q_m$)² 0 P_{cr} 689 T_{cr} 392

TABLE 11.8.3

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13089	6545		0						
2	GH		9580	4789.9		0						
3	37.5CH		359244	179622		0						
4	P_c or P_n		3321.1	2806.7	2794.0	2268.6	2240.8	2243.7		Pw-2243.9		
5	P_r		4.82	4.07	4.06	3.29	3.25	3.26				
6	T		665	599.5	599.5	534	534	534				
7	T_r		1.70	1.53	1.53	1.36	1.36	1.36				
8	Z		.872	.778	.777	.669	.668	.668				
9	P/Z P/Z	$\bar{4} \div 8$	3808.6	3607.6	3595.9	3391.0	3354.5	3358.9				
10	P/TZ	$\bar{9} \div 6$	5.7272	6.0177	5.9982	6.3502	6.2819	6.2900				
11	$(P/TZ)^2/1000$	$(10^2/1000)$										
12	$L/H(F_r Q_m)^2$											
13	$\bar{11} + \bar{12}$											
14	I_n	$\bar{10} \div \bar{13}$	174.606	166.177	166.716	157.476	159.188	158.984				
15	$M = P_n \cdot P_n^{-1}$			514	527	525	553	550				
16	$N = I_n + I_{n-1}$			340.783	341.322	324.192	325.903	325.699				
17	$M \times N$	$\bar{15} \times \bar{16}$			179906			179226				
18	$\Sigma (M \times N)$	$\Sigma \bar{17}$			179338							

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