

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_c & P_w)

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

COMPANY Inter North INC. LEASE Tonto State Comm WELL NO. #1 DATE 12-11-81

LOCATION: Unit T Section 32 Township 19 Range 33

L 125 H 12125 L/H 1000 G 818 % CO₂ 16.9% % N₂ 0.56% % H₂S 0.14

d 2441 F_r 0.0023 Q_m 0 M₂ 0 (L/H) (F_r Q_m)² 0 P_c 665 T_c 428

Rate: 4

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		15.25	6212.5								
2	GH		10936.2	5268.1								
3	37.5GH		402109	201305								
4	P _c or P _n		3841.1	3169.8	3149.8	2460.9	2419.2	2402.4	(P _w = 2423.7)			
5	P _r		5.78	4.77	4.74	3.20	3.64	3.64				
6	I		1.65	599.5	599.5	530	534	534				
7	T _r		1.55	1.40	1.40	1.25	1.25	1.25				
8	Z		1.866	1.747	1.745	1.614	1.610	1.610				
9	P/Z P/Z	4÷8	4435.5	4243.3	4227.6	4008.1	3965.8	3971.9				
10	P/TZ	9÷6	6.66985	7.0781	7.05244	7.60583	7.42667	7.43379				
11	(P/TZ) ² /1000	(10) 2/1000										
12	L/H(F _r Q _m) ²											
13		11 + 12										
14	I _n	10÷13	149.928	141280	141.794	133.223	134.649	134.441				
15	M = P _n - P _{n-1}			671.338	651.273	688.836	730.462	726.907				
16	N = I _n + I _{n-1}			291.209	291.222	275.623	271.443	276.235				
17	M x N	15 x 16			201660			206797				
18	Σ (M x N)	Σ 17			200949			201812				