

Page 1 of 1

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

WORK SHEET FOR STEPWISE CALCULATION

COMPANY Amoco Oil Corp. LEASE Production Field, Ohio WELL NO. 1 DATE 2-15-74

LOCATION: Unit Section Township Range

L 12005 H 13005 L/H 1.000 G_{sc} 26.7 % CO₂ 0.45 % N₂ 1.22 % H₂S 0.46 %

d F_r Q_m M²cfd (L/H) (F_rQ_m)² P_{cr} 666 T_{cr} 608

TABLE IX & X

TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		12405	6702.5			0			ΔP =	3(37.5) (26.7)(13405)	-
2	GH		10281.6	5140.8			0			146.002 + 4(10281.679) + 153.679		
3	37.5GH		385561	192.281			0					
4	P _c or P _n		3521.2	2952.2	2904.2	2905.2	2910.7	2292.2	2291.2		1156684	1284.1
5	P _r		559	4.43	0.42	4.42	3.47	2.44	2.44		900.777	
6	T		6461	587	587	587	530	530	530			
7	T _r		158	1.44	1.44	1.44	1.30	1.30	1.30			
8	Z		.854	.254	.254	.254	.632	.632	.632			
9	P/Z P/Z	4-8	4191.1	3715.4	3704.8	3706.1	3655.4	3626.9	3630.1			
10	P/TZ	9-6	6.5079	6.6702	6.6521	6.6543	6.8169	6.8432	6.8492			
11	(P/TZ) ² /1000 (10 ² /1000)		-	-	-	-	-	-	-			
12	L/H(F _r Q _m) ²		-	-	-	-	-	-	-			
13		I ₁ + I ₂	-	-	-	-	-	-	-			
14	I _n	I ₀ + I ₃	153.659	119.221	150.328	150.279	144.793	146.130	146.002			
15	M = P _n - P _{n-1}			32.7	635	634	635	653	651			
16	N = I _n + I _{n-1}			303.580	303.987	303.738	295.212	296.409	296.281			
17	M x N	15 x 16				192.677			192.879			
18	Σ (M x N)	Σ I ₇	385561			192.864						