

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

WORK SHEET FOR STEP WISE CALCULATION

Flow No. 3

COMPANY SHELLY OIL COMPANY LEASE FORTY NINE A-100 UNIT WELL NO. 2 DATE 12-4-74

LOCATION: Unit 6 Section 21 Township 23S Range 30E

L 13981 H 13981 L/H 1 G 1525 % CO₂ 1.31 % N₂ 0.59 % H₂S --

$2\frac{7}{8}$ " d 1.995 F_i 0.18231 Q_m 0 M²-cfd (L/H) (F_iQ_m)² 0 P_{ci} 675 T_{ci} 342

$4\frac{1}{2}$ " d 3.920 F_i 0.091233 Q_m 0

NO. C-122

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13981	12500		6250			0	0		
2	GH		803908	7187.50		3593.75			0			
3	37.5GH		301466	269.531		134766			0			
4	E _{67.111}		0	-58.1	-58.2	-247.3	-247.5	-247.4	-494.9	-457.1	-457.0	
5	P _c or P _n		2165	2106.9	2106.8	1859.5	1859.3	1859.4	136.44	1402.2	1402.3	1402.
6	T ^{OR}		3.21	3.12	3.12	2.75	2.75	2.75	2.02	2.08	2.08	2.08
7	T _i		645	633		582			561			531
8	Z		1.81	1.85	1.85	1.70	1.70	1.70	1.55	1.55	1.55	1.55
9	P/Z		.915	.906	.906	.870	.870	.870	.842	.838	.838	.838
10	P/TZ		2366.10	2325.55	2325.40	2137.40	2137.10	2137.20	1620.40	1673.3	1673.4	
11	(P/TZ) ² /1000 (10 ³ Z/1000)		3.66845	3.67380	3.67360	3.67250	3.67200	3.67220	3.05160	3.15120	3.15140	
12	L/H(F _i Q _m) ²		.013457	.013497	.013495	.013487	.013484	.013485	.009312	.009930	.009931	
13	I ₁ + I ₂		.013457	.013497	.013495	.013487	.013484	.013485	.009312	.009930	.009931	
14	I _n		272.602	272.194	272.219	272.299	272.323	272.317	327.706	317.341	317.330	
15	M=P _n -P _{n-1}		0	-58.2	-58.2	-247.3	-247.4	-247.5	-449.1	-457.0	-457.0	
16	N=I _n +I _{n-1}		272.602	544.796	544.821	544.517	544.542	544.536	606.029	587.664	587.653	
17	M x N				-31708.10			-134772.66				
18	Σ (M x N)				2447579							