

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE)
(SURFACE)

PRESSURE (P_f & P_s)
HOBBBS OIL FIELD, C.

Form C-122E
Adopted 9-1-65

COMPANY Shawmut Oil Co. LEASE State Land "76"

WELL NO. 76

DATE JAN 19 11 44 AM '67

DATE 1-16-67

LOCATION: Unit J Section 2 Township 16 S Range 22 E

L 11,978 H 11,778 L/H 1.000 G 1.144 %CO₂ — %N₂ — %H₂S —

d 1.995 F_r 0.821 Q_m 0.820 M² GFD (L/H) (F_r Q_m)² .00022348 P_{cr} 650 T_{cr} 5.37

TABLE IX & X

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5989			11,978					
2	GH		0	6851.116			13,721.8					
3	37.5GH		0	256,426			513,855					
4	P _c or P _n		2866.2	4051.2	4008.1	4006.9	5145.9	5083.9	5082.9			
5	P _r		4,413	6,233	6,166	6,164	7,917	7,821	7,820			
6	T		532	586	586	586	640	640	640			
7	T _r		.9107	1.091	1.091	1.091	1.191	1.191	1.191			
8	Z		.587	.810	.802	.802	.981	.971	.971			
9	P/Z	4/8	4886.2	5001.5	4991.5	4996.1	5245.6	5235.7	5234.7			
10	P/TZ	9/6	9,185	8.535	8.518	8.526	8.196	8.181	8.179			
11	(P/TZ) ² /1000	(10) ² /1000	.08436422	.07284622	.07255632	.07269267	.06117442	.06692476	.06689604			
12	L/H(F _r Q _m) ²		.00022348	.00022348	.00022348	.00022348	.00022348	.00022348	.00022348			
13		I ₁ + I ₂	.0845877	.0730697	.0727798	.07291615	.0673979	.06715224	.06711952			
14	I _n	I ₀ = I ₃	.08.585	.116.806	.117.038	.116.929	.121.606	.121.828	.121.857			
15	M = P _n - P _{n-1}			.1183	.1139.9	.1138.7	.117.7	.107.1	.107.6			
16	N = I _n + I _{n-1}			.225.391	.225.623	.225.514	.238.535	.238.757	.238.786			
17	M x N	15 x 16				.256,928			.256,934			
18	Σ (M x N)	Σ 17				.256,928			.513,862			