

WORK SHEET FOR STEPWISE CALCULATION
(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

COMPANY Sw Oil Co LEASE Bogale Frats Unit WELL NO. 8 DATE 1-9-66

LOCATION: Unit G Section 5 Town 22 S Range 23 E

L 6951 H 6900 L/M 1.0 G 656 W 1 N₂ .89 G/H₂ .9

d 1995 F₁ 0.82810 6.123 M₁ 0.114 G₁ 0.114 10.246 P₁ 670 T₁ 315

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	3450		1400						
2	GH		0	2263.2		4526.4						
3	37.5GH		0	84870		169740						
4	H ₁ - P ₁		2214.2	2551.13	2532.4	2290.4	2374.8					
5	P ₁		3.30	3.808	3.809	4.314	4.32					
6	T		533	561	561	539	589					
7	T _r		1.421	1.496	1.496	1.570	1.570					
8	Z		.718	.771	.771	.812	.812					
9	P ₁ /T	4.8	5633.5	3368.95	3310.5	3334.6	3565.0					
10	P ₁ /T _r	9.6	57786	53981	54016	60731	60526					
11	(P ₁ /T _r) ² 1000	(10.2/1000)	.03318	.034787	.03482	.03652	.03663					
12	L H(F ₁ P ₁) ²		.01246	.01246	.01246	.01246	.01246					
13		11 + 12	.04594	.047247	.04728	.04848	.04909					
14	L ₁	10 13	12.5.947	124.835	124.81	123.39	123.29					
15	M ₁ P ₁ n ₁ F ₁ n ₁		336.937	538.214	338.91	342.40	342.57					
16	N ₁ L ₁ n ₁ + L ₁ n ₁		250.782	250.757	248.20	248.10						
17	M x N	15 x 16			84756		84850					
18	Σ (M x N)	Σ 17			84756		169606					

WORK SHEET FOR STEPWISE CALCULATION (SURFACE) PRESSURE (P_f & P_s)

Form C-177A
Adopted 10/1/77

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____ Meridian _____

L _____ H _____ I _____ J _____ K _____ L _____ M _____ N _____ O _____ P _____ Q _____ R _____ S _____ T _____ U _____ V _____ W _____ X _____ Y _____ Z _____

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		6400	3450		0						
2	GH		4526.4	2263.2		0						
3	37.5GH		169.740	848.76		0						
4												
5			2894.8	2637.97	2637.31	2379.4	2376.1					
6			21.36	3537	3436	3537	3546					
7			587	561	561	533	533					
8			1570	1496	1496	1421	1421					
9	PAT	48	812	.773	.773	.719	.719					
10	PAT	96	3366.0	3412.6	3411.78	3369.3	3369.7					
11	(PAT) 2/1000	(10) 2/1000	6.0526	6.0831	6.0816	6.2681	6.2681					
12	L HFT(2) 2											
13		11 + 12										
14		10 + 13	165.22	164.33	164.43	161.66	161.29					
15	M F(1) 100			256.85	257.486	257.745	261.266	261.02				
16	M F(1) 100			329.61	329.65	325.49	325.72					
17	M x N	15 x 16			84.720							
18	Σ(M x N)	Σ17	169.740		856.20							

$$F_u = 2377$$