

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

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

COMPANY Barclay LEASE Cassidy WELL NO. 1 DATE 1-9-61

LOCATION: Unit E Section 29 Township 23 S Range 30 E

L 12.673 H 2.605 L/H 2.117 G 5736 % CO₂ 0.144 % N₂ 0.144 % H₂S 0.144

F₁ 0.002 Q_m 2.117 M₂ 0.002 (L/H) (F₁ Q_m)² 0.144 P_{cr} 611 T_{cr} 274

TABLE IX 8 x

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LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		6	612.1		17.023						
2	GH		0	28.00		70.00						
3	F ₁ Q _m		0	181.000		262.007						
4			180.12	212.10	211.00	244.47	244.47					
5			3.2	3.2	3.12	3.6	3.65					
6			5.0	5.1	5.11	6.67	6.72					
7			1.51	1.72	1.72	1.92	1.92					
8			.788	.869	.869	.919	.919					
9	P ₁ - P ₂	4.8	2203.4	2140.36	2430.48	2628.30	2614.31					
10	F ₁ Q _m	9.5	441.50	413.04	411.249	391.100	294.410					
11	(F ₁ Q _m) ² / 1000	(10) ² / 1000	.01953	.01706	.01611	.01577	.01500					
12	L/H (F ₁ Q _m) ²		.00149	.00149	.00149	.00149	.00149					
13		II + I ₂	.02102	.01855	.01840	.01726	.01709					
14	I _n	IO = I ₃	210.24	222.68	223.47	230.58	231.14					
15	M = P _n - P _{n-1}			313.10	204.89	363.78	290.49					
16	N = I _n + I _{n-1}				433.72		454.61					
17	M x N	15 x 16					132,080					
18	Σ (M x N)	Σ I ₇			131,755		261,264					

P_s = 2400.32

ΔP = 5.12, 12.