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PRESSURE (P_c & P_w)

Form C-122-E

RATE NO. 4

COMPANY Monsanto Company LEASE Albert Federal WELL NO. 1 DATE 1-10-77

SECTION: UNIT 0 SECTION 32 TOWNSHIP 19S RANGE 25E

d 2.441 H 9299 L/H 1.00 G 0.595 % CO₂ 0.00 % N₂ 0.00 % H₂S 0.00
F 0.010763 Q_m 2.123 M² cfd (L/H) (F_o)² 0.000522 P_{cr} 672 T_{cr} 354

ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1 H		0	4650	9929							
2 GH		0	2766	5533							
37.5GH		0	103742	207484							
4 P _c or P _n		2003.2	2272.2	2543.2	2534.2						
5 P _r		2.98	3.38	3.78	3.77						
6 T		519	568	616	616						
7 T _r		1.47	1.60	1.74	1.74						
8 Z		0.758	0.771	0.869	0.870						
9 P/2 P/Z		4 ÷ 8	2641.35	2947.08	2925.24	2914.21					
10 P/12		9 ÷ 6	5.0893	5.1931	4.7488	4.7309					
11 (P/TZ) ² /1000		(10 ² /1000)	0.025901	0.026968	0.022551	0.022381					
12 L/H (F _o) ²			0.000522	0.000522	0.000522						
13			11 + 12	0.026423	0.027490	0.023073	0.022903				
14 I _n			10 ÷ 13	192.608	188.906	205.816	206.559				
15 M=P _n - P _{n-1}				269	271	262	262				
16 N=1 _n + 1 _{n-1}				381.514	394.722	395.465					
17 M x N				102627		103612					
18 Σ (M x N)				102627		206239					

$$\Delta P = \frac{3 [207484]}{192.608 + 4 [188.906] + 206.559} = \frac{622452}{1154.791} = 539.0 \quad P = 2003.2 + 539.0 = 2542.2$$