

(SURFACE)

PRESSURE

(P_c & P_w)

Form C-122-E

RATE NO. 3

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

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

9299 H 9299 L/H 1.00 G 0.595 % CO₂ 0.00 % N₂ 0.00 % H₂S 0.00

d F Q M cfd (L/H) ($F_r Q_m$)² P cr 672 T cr 354

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		9299	4650		0						
2	GH		5533	2766		0						
	37.5GH		207484	103742		0						
	P _c or P _n		2563.8	2315.5	2311.8	2059.9	2052.1					
5	P _r		3.82	3.45	3.44	3.07	3.05					
6	T		616	571	571	526	526					
7	T _r		1.74	1.61	1.61	1.49	1.49					
8	Z		0.869	0.822	0.822	0.769	0.770					
9	P/Z P/Z		4 ÷ 8	2948.93	2816.89	2677.29	2666.41					
10	P/PTZ		9 ÷ 6	4.7872	4.9333	5.0899	5.0692					
11	(P/PTZ) ² /1000		(10 ² /1000)									
12	L/H(F _r Q _m) ²											
13												
14												
15												
16	N=1 n + 1 n-1			248	252	252	260	259				
17	M x N		15 x 16				104079					
18	Σ (M x N)		Σ 17		103804		207883					

$$\Delta P = \frac{3 \left[\frac{207484}{208.889 + 4} \right] + 197.269}{\frac{622452}{1218.290}} = 510.9 \quad P = 2563.8 - 510.9 = 2052.9$$