

COMPANY YPC LEASE Jackson GM WELL NO. 1 DATE 1-28-77

LOCATION: Unit N Section 24 Township 17S Range 25E

L 8186 H 8186 L/H 1 G 6.656 % CO₂ 1.19 % N₂ 0.70 % H₂S 1.1

3/8-8036 319835 4-2 3/8-124 (3-2) 12048 4-2 3/8-26 (2-5) 1035 301535
2.00204 Fr 0.0171794 GH 5370 720/377 P_{cr} 674 T_{cr} 373
48 1.2 TALE IN 8 X

LINE	8186	301535	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 Q _m			SI	445	552	664	725	SI																	
2 T _w (W.H. °R)			510	512	513	514	515																		
3 S (B.H. °R)			602	600	599	598	597																		
4 T = (1/W + 1/S)			556	556	556	556	556																		
5 Z (Est.)				.77	.769	.767	.767																		
6 T _Z			431.456	428.12	427.564	426.452	426.452																		
7 GH/T _Z			12.446	12.5432	12.5595	12.5923	12.5923																		
8 e ^s (Table XIV)			1.59497	1.6005	1.6015	1.6035	1.6035																		
9 1-e ^s (Table XIV)				0.37952	0.3936	0.3763	.3763																		
10 F ₁			2521.2	2395.2	2356.2	2303.2	2277.2																		
11 F ₁ 2/1000			6356.45	5736.98	5551.68	5304.73	5185.64																		
12 F ₁ (Table XV)																									
13 T _c = F ₁ T _Z				7.3548	7.3453	7.3262	7.3262																		
14 F ₂ Q _m				3.2729	4.0546	4.865	5.3115																		
15 L/H (F ₂ Q _m) ²				10.712	16.440	23.660	28.212																		
16 F _w = L/H (F ₂ Q _m) ² (1-e ^s)				4.02	6.17	8.90	10.62																		
17 P _w ² = P ₁ ² + F _w				5741.00	5557.855	5313.63	5196.26																		
18 P _s ² = e ^s P _w ²				10136.63	9188.47	8900.90	8520.41	8332.20																	
19 P _s				3183.8	3031.2	2983.4	2919.0	2886.6																	
20 P = (P ₁ ² + P _s) ^{1/2}				2852.5	2713.2	2669.8	2611.1	2581.9																	
21 P _r = (P/P _{cr})				4.232	4.025	3.961	3.874	3.831																	
22 T _r = (T/T _{cr})				1.490	1.490	1.490	1.490																		
23 Z (Table XI)				0.776	0.770	0.769	0.768	0.767																	

$$q_{min} = \frac{.633 + \frac{.77}{131.25}}{1 + \frac{.77}{131.25}} = \frac{.659508}{1.005870} = .6557$$