

RATE NO. 4

COMPANY

LEASE

WELL NO.

DATE

LOCATION: UNIT

SECTION

TOWNSHIP

RANGE

7400 H 7400 L/H 1.00 G 0.717 % CO₂ 0.89 % N₂ 1.54 % H₂S 0.00

Q_m Q_m M^2 cfd (L/H) ($F_r Q_m$)² P_{cr} T_{cr} 398

ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	1	7400	3700		0						
2	GH	5306	.2653		0						
3	37.5GH	198968	99484		0						
4	P_c or P_n	2580.6	2251.0	2263.1	1945.1	1970.1					
5	P_r	3.86	3.37	3.39	2.91	2.95					
6	T	553	541	541	530	530					
7	T_r	1.39	1.36	1.36	1.33	1.33					
8	Z	0.705	0.676	0.677	0.652	0.652					
9	P/Z P/Z	3660.43	3331.93	3344.88	2983.22	3021.62					
10	P/TZ	9 ÷ 6	6.1560	6.1799	5.6287	5.7012					
11	$(P/TZ)^2/1000$	$(10^2/1000)$									
12	$L/H(F_r Q_m)^2$										
13		$11 + 12$									
14	I_n	$10 ÷ 13$	150.939	162.444	161.814	177.661	175.403				
15	$M=P_n - P_{n-1}$		330	317	318	293	295				
16	$N=1_n + 1_{n-1}$		313.382	312.753	339.475	337.217					
17	$M \times N$	15×16	53256	53256	98858						
18	$\Sigma (M \times N)$	$\Sigma 17$	53256		152114						

$$\Delta P = \frac{150.939 + 4[161.814] + 175.403}{3[198968]} = \frac{596903}{973.598} = 613.1$$

$$P = 2580.6 - 613.1 = 1967.5$$

RECEIVED

MAY 22 1967

OIL CONSUMPTION COMM.
HOSEA, E. L.