

RATE NO. 3

DATE 10-25-76

PROPERTY MESA PETROLEUM CORP.; LEASE NASH UNIT WELL NO. 3 RANGE 29E

CATION: UNIT F SECTION 12 TOWNSHIP 23S CO₂ 0.00 % N₂ 0.00 % H₂S 0.00

12445 H 12445 L/H 1.00 G 0.721 M² cfd (L/H) (F Q_r)² 0.004426 P_{cr} 668 T_{cr} 398

d 2.441 F_r 0.010763 Q_m 6.181

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6223		12445						
2	GH		0	4486		8973						
3	37.5GH		0	168241		336482						
4	P _c or P _n		3593.2	4379.2	4362.2	5130.2	5102.2					
5	P _r		5.38	6.56	6.53	7.68	7.64					
6	T		532	586	586	640	640					
7	T _r		1.34	1.47	1.47	1.61	1.61					
8	Z		0.763	0.888	0.886	0.985	0.983					
9	P/Z P/Z		4706.84	4933.75	4925.70	5209.91	5192.02					
10	P/T2		8.8474	8.4194	8.4056	8.1405	8.1125					
11	(P/TZ) ² /1000	(10 ² /1000	0.078277	0.070886	0.070655	0.066268	0.065813					
12	L/H(F _r Q _m) ²		0.004426	0.004426	0.004426	0.004426	0.004426					
13			0.082703	0.075312	0.075080	0.070693	0.070239					
14	I _n		106.979	111.794	111.955	115.152	115.499					
15	N = P _n - P _{n-1}			786	769	768	740	739				
16	N = 1 + 1 _{n-1}			218.772	218.934	227.107	227.454					
17	M x N		15 x 16		171955		168316					
18	Σ (M x N)		Σ 17		171955		340271					

$$\text{Delta P} = \frac{3[336482]}{106.979 + 4[111.955]} + 115.499 = \frac{1009445}{670.298} = 1506.0$$

$$P = 3593.2 + 1506.0 = 5099.2$$