

Form C-122-E

PRESSURE

(P_C P_w)

RATE NO. 4 WELL NO. 3 DATE 10-25-76

PROPERTY		MESA PETROLEUM CORP.		LEASE		NASH UNIT		WELL NO.	
SECTION		TOWNSHIP		RANGE		29E			
12445		H		12445		L/H		1.00	
G		0.721		%		CO ₂		0.00	
%		N ₂		0.00		%		H ₂	
0.00		0.00		%		H ₂		0.00	
L/H		(F Q _M) ²		0.003233		P		668	
T		398		CR					
d		2.441		F		C.010763		Q _m	
5.283		M ² cfd		(L/H)		(F Q _M) ²		P	
668		T		CR					

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	$P_c \text{ or } P_n$		4513.2	5356.2	5337.2	6161.2	6130.2					
5	P_r		6.76	8.02	7.99	9.22	9.18					
6	T		532	586	586	640	640					
7	T_r		1.34	1.47	1.47	1.61	1.61					
8	Z		0.875	0.988	0.985	1.080	1.077					
9	$P/Z \text{ } P/Z$	$\overline{4} \div \overline{8}$	5156.76	5419.06	5416.28	5706.93	5693.51					
10	P/TZ	$\overline{9} \div \overline{6}$	9.6932	9.2475	9.2428	8.9171	8.8961					
11	$(P/TZ)^2 / 1000$	$(10^2 / 1000)$	0.093957	0.085517	0.085429	0.079514	0.079141					
12	$L/H(F \cdot Q_r)^2$		0.003233	0.003233	0.003233	0.003233	0.003233					
13		$\overline{11} + \overline{12}$	0.097191	0.088750	0.088662	0.082747	0.082374					
14	I_n	$\overline{10} \div \overline{13}$	99.734	104.197	104.247	107.763	107.997	792				
15	$M = P_n - P_n^{-1}$			843	824	824	793					
16	$M = \frac{1}{n} + \frac{1}{n-1}$			203.931	203.981	212.010	212.244					
17	$M \times N$	$\overline{15} \times \overline{16}$			168039		168309					
18	$\sum (M \times N)$	$\sum \overline{17}$			168039		336349					

$$\Delta P = \frac{3[336482]}{99.734 + 4[104.247]} + 107.997 = \frac{1009445}{624.719} = 1615.8$$