

WORK SHEET FOR STEPWISE CALCULATION

~~XXXXXXXXXXXX~~ (P_F & P_S)
 (SURFACE) PRESSURE (P_C & P_W)
 RATE NO. 2

Form C-122-E

COMPANY Maralo, Inc. LEASE Chavelea Carson WELL NO. 1 DATE 4-13-77
 LOCATION: UNIT F SECTION 10 TOWNSHIP 9S RANGE 31E
10163 H 10163 L/H 1.00 G 0.899 % CO₂ 0.00 % N₂ 0.00 % H₂S 0.00
 d F r Q m M cf/d (L/H) (F_r Q_m)² P cr 662 T_{cr} 457

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1			10163	5082		0						
2	GH		9137	4568		0						
3	37.5GH		342620	171310		0						
4	P _C or P _n		3018.2	2464.4	2455.1	1893.0	1982.7	1851.4	1862.1			
5	P _r		4.56	3.72	3.71	2.86	3.00	2.80	2.81			
6	T _r		637	585	585	532	532	532	532			
7	T _r		1.39	1.28	1.28	1.16	1.16	1.16	1.16			
8	Z		0.733	0.631	0.631	0.756	0.498	0.483	0.484			
9	P/Z P/Z		4 ÷ 8	4118.72	3907.98	3893.27	2503.36	3981.34	3834.65	3850.40		
0	P/TZ		9 ÷ 6	6.4658	6.6860	6.6609	4.7056	7.4837	7.2080	7.2376		
1	(P/TZ) ² /1000		(10 ² /1000)									
2	L/H(F _r Q _m) ²											
3			11 + 12									
4	I _n		10 ÷ 13	154.660	149.566	150.131	212.515	133.623	138.735	138.167		
5	M=P _n -P _{n-1}			554	563	562	472	604	593	594		
6	N=1 _n +1 _{n-1}			304.225	304.790	362.645	283.754	288.866	288.298			
7	M x N		15 x 16	171597	171597				170961			
8	Σ (M x N)		Σ 17	171597					342557			

Delta P = $\frac{342620}{154.131 + 4[150.131] + 138.167}$ = $\frac{1027860}{892.822}$ = 1151.2
 P = 3018.2 - 1151.2 = 1867.0

RECEIVED

APR 26 1977

OIL CONSERVATION COMM.
HOUSES, R. W.