

WORK SHEET FOR STEPWISE CALCULATION

(P_f & P_s)

PRESSURE

(SURFACE)

(P_c & P_w)

Form C-122-E

RATE NO. 1

MPANY 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

M² cfd

(L/H) (F_r Q_m)²

P_{cr}

662

T_{cr}

457

NE	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		3177.2	2603.7	2593.6	2010.9	1981.4	1994.1	1982.6			
5	P _r		4.80	3.93	3.92	3.04	2.99	3.01	2.99			
6	T _r		637	585	585	533	533	533	533			
7	T _r		1.39	1.28	1.28	1.17	1.17	1.17	1.17			
8	2		0.745	0.642	0.641	0.510	0.525	0.508	0.506			
9	P/Z P/Z		4264.70	4058.20	4044.85	3941.31	3775.60	3925.49	3915.14			
0	P/TZ		9 ÷ 6	6.6950	6.9143	7.3946	7.0837	7.3649	7.3455			
1	2/TZ ² /1000		(10 ² /1000)									
2	L/H(F _r Q _m) ²											
3												
4	I _n		10 ÷ 13									
5	M=P _n -P _{n-1}		149.366	144.153	144.628	135.234	141.170	135.779	136.138			
6	N=1 _n +1 _{n-1}		573	584	583	612	599	611	610			
7	M x N		293.518	293.994	279.863	285.798	280.408	280.767				
8			171692	171692								
9			171692									
10			343241									

$$\Delta P = \frac{3[342620]}{149,366 + 4[144.628] + 136.138} = \frac{1027860}{864.016} = 1189.6$$

$$P = 3177.2 - 1189.6 = 1987.6$$

RECEIVED

APR 20 1977

OIL CONSERVATION COMM.
HOSES, U. S.