

XXXXXXXXXXXXX
 XXXXXXXXXX
 PRESSURE
 (SURFACE)
 RATE NO. 3
 (P_c & P_w)

WORK SHEET FOR STEPWISE CALCULATION

COMPANY Monsanto Company LEASE Coquina Federal WELL NO. 1 DATE 5-27-75
 LOCATION: UNIT J SECTION 31 TOWNSHIP 20-S RANGE 27-E
 10690 H 10690 L/H 1.0 G .640 % CO₂ % N₂ % H₂
 d F_r Q_m M²cfd (L/H) (F_rQ_m)² P_{cr} 672 T_{cr} 372

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		10690	5345	0							
2	GH		6842	3421	0							
3	37.5GH		256560	128280	0							
4	P _c or P _n		1695.0	1494.5	1295.5							
5	P _r		2.52	2.22	1.93							
6	T		625	582	538							
7	T _r		1.68	1.56	1.45							
8	Z		.868	.834	.804							
9	O/Z P/Z		1952.7	1792.0	1611.4							
0	P/TZ		3.1244	3.0818	2.9951							
1	(P/TZ) ² /1000		(10 ² /1000									
2	L/H(F _r Q _m) ²											
3			11 ÷ 12									
4	P _n		320.058	324.482	333.868							
5	P _n - P _{n-1}			200	199							
6	P _{n-1} + 1			640.117	644.541							
7	M × H		15 × 16	128023	128264							
8	Σ (M × H)		Σ 17	128023	256287							

delta P = 320.058 + 4 (324.482) + 333.869 = 769680 = 394.3
 3 (256560) = 1951.855 = 394.3
 P = 1695.0 - 1300.7 = 394.3