

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (RX or Pw)

Form C-122F
Adopted 9-1-63

TRANSWESTERN

COMPANY GAS SUPPLY COMPANY

LEASE

ANTELOPE FEDERAL

WELL NO. #3

DATE 10/28/82

RECEIVED

LOCATION: Unit 3078 Section 29 Township 4 S Range 22 E

L 3078 H 3078 L/H 1.000 G .6298 %CO₂ .116 %N₂ 6.748 %H₂S NOV 24 1982

GH 1939 P_{cr} 670 T_{cr} 368

O. C. D.
ARTESIA, OFFICE

LINE	1st RATE			2nd RATE			3rd RATE			4th RATE		
	1	2	3	4	5	6	7	8				
1	T _w (W.H. • R)	534	534	534	534	534	534	534				
2	T _s (B.H. • R)	565	565	565	565	565	565	565				
3	T = ($\frac{T_w + T_s}{2}$)	549.5	549.5	549.5	549.5	549.5	549.5	549.5				
4	Z (Est.)	.843	.848	.860	.865	.897	.900	.895				.898
5	TZ	463.2	466.0	472.6	475.3	492.9	494.6	491.8				493.5
6	GH/TZ	4.186	4.161	4.103	4.079	3.934	3.921	3.943				3.929
7	e ^S (Table XIV)	1.170	1.169	1.166	1.165	1.159	1.158	1.159				1.159
8	P _f or P _s	1138.2	1138.2	999.2	999.2	702.2	202.2	721.2				721.2
9	P _f ² or P _s ²	1295.5	1295.5	998.4	998.4	493.1	493.1	520.1				520.1
10	P _c ² = P _f ² /e ^S or P _w ² = P _s ² /e ^S	1107.3	1108.3	856.0	856.8	425.5	425.7	448.6				448.9
11	P _c or P _w	1052.3	1052.8	925.2	925.6	652.3	652.4	669.8				670.0
12	P = ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	1095.2	1095.5	962.2	962.4	677.2	677.3	695.5				695.6
13	P _r = (P/P _{cr})	1.64	1.64	1.44	1.44	1.01	1.01	1.04				1.04
14	T _r = (T/T _{cr})	1.49	1.49	1.49	1.49	1.49	1.49	1.49				1.49
15	Z (Table XI)	.848	.848	.865	.865	.900	.900	.898				.898