

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

RECEIVED

Type Test [x] Initial [] Annual [] Special					Test Date 11/10/87		APR 10 '89	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company		C	
Pool <u>W. PECOS SLOPE ABO</u>					Formation Pecos Slope		Unit ARTESIA, ORN, LE	
Completion Date 11/7/87		Total Depth 3200.0'		Plug Back TD 3143.0'		Elevation 4132.2'		Farm or Lease Name China Draw AEP St.
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 3200.0'	Perforations: From 2825.0' To 2829.0'		Well No. 4		
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 2760.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge N 36 6S 22E		
Type Well Single					Packer Set At 2760.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 104 @ 2770'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 2760.0'	H 2760.0'	Gg .616	%CO2 .01	%N2 4.91	%H2S 0.00	Prover 0.000"	Meter Run 2.000"	Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000 X 0.000	0	0.0	42	628	0	0	0	0 hrs.
1.	2.067 X .750	130	8.7	43	389	62	0	0	24 hrs.
2.	2.067 X .750	130	11.7	42	275	62	0	0	24 hrs.
3.	2.067 X .750	130	14.6	42	222	62	0	0	24 hrs.
4.	2.067 X .750	130	17.0	42	105	62	0	0	24 hrs.
5.	0.000 X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 HOUR)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	2.709	35.30	143.20	1.017	1.274	1.011	125
2.	2.709	40.93	143.20	1.018	1.274	1.011	145
3.	2.709	45.72	143.20	1.018	1.274	1.011	162
4.	2.709	49.34	143.20	1.018	1.274	1.011	175
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.22	503	1.45	.978		0.000 Deg.				
2.	.22	502	1.44	.978						
3.	.22	502	1.44	.978						
4.	.22	502	1.44	.978						
5.	0.00	0	0.00	0.000						

Pc 641.2 Pc2 411.1				
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)
1.	161.8	402.4	161.9	249.2
2.	83.1	288.6	83.3	327.9
3.	55.3	235.8	55.6	355.6
4.	14.0	119.5	14.3	396.9
5.	0.0	0.0	0.0	0.0

$$\frac{Pc2}{Pc2-Pw2} = \frac{1.0382}{1.0275} \quad (2) \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1.0275$$

$$AOF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 180 \text{ Mcfd}$$

Absolute Open Flow 180 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .725

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By:
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