

c/ST
File

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

RECEIVED Form C-122

APR 10 '89

Type Test [x] Initial [] Annual [] Special				Test Date 5/27/88			
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company		ARTESIA, OFFICE	
Pool <u>AID</u> Morrow				Formation Undes. Aid Morrow		Unit	
Completion Date 8/1/85		Total Depth 10760.0'		Plug Back TD 10641.0'		Elevation 3697.0'	
Csg Size 4.500"		Wt. 9.500#		d 4.090"		Set At 10760.0'	
Tbg Size 2.375"		Wt. 4.700#		d 1.995"		Set At 10354.0'	
Perforations: From 10402.0' To 10424.0'		Perforations: From 0.0' To 0.0'		Farm or Lease Name Woodchuck ABW St Cm		Well No. 1	
Unit Sec K 13		Twp 17S		Rge 28E			
Type Well Single				Packer Set At 10354.0'		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 192 @ 10413'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 10354.0'		H 10354.0'		Gg .607		%CO2 .48	
				%N2 .24		%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	85	2210	0	0	0	0 hrs.
1.	2.067 X .500	665	16.7	87	1749	62	0	0	24 hrs.
2.	2.067 X .500	670	22.1	89	1727	62	0	0	24 hrs.
3.	2.067 X .500	680	24.9	85	1560	62	0	0	24 hrs.
4.	2.067 X .500	695	37.0	87	1280	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.	1.189	106.42	678.20	.975	1.284	1.048	166
2.	1.189	122.88	683.20	.973	1.284	1.048	191
3.	1.189	131.38	693.20	.977	1.284	1.050	206
4.	1.189	161.87	708.20	.975	1.284	1.050	253
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr °R	Tr °R	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.01	547	1.53	.910	61.360 Mcf/bbl.	55.600 Deg.	xxxxxxx	673.4 PSIA	356.8°R
2.	1.01	549	1.54	.911			xxxxxxx	671.7 PSIA	372.8°R
3.	1.03	545	1.53	.907			xxxxxxx		
4.	1.05	547	1.53	.906			xxxxxxx		
5.	0.00	0	0.00	0.000			xxxxxxx		

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ²	Pc ² -Pw ²	Pc ²	Pc ² -Pw ²
1.	3105.3	1762.4	3106.2	1836.5	1.5113	1.5113	1.3525	1.3525
2.	3028.3	1740.5	3029.4	1913.2				
3.	2475.0	1573.6	2476.2	2466.4				
4.	1672.4	1294.0	1674.4	3268.3				
5.	0.0	0.0	0.0	0.0				

ROF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 342 \text{ Mcfd}$

Absolute Open Flow 342 Mcfd @ 15.025 Angle of Slope, 0 36 Slope, n .731

Remarks:

Approved By:	Conducted By: Tracy Richardson	Calculated By: Andrea Carpenter	Checked By:
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