

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

GAS WELL

Form C-122

O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special					Test Date 12/7/84	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company	
Pool East Burton Flats <i>Morrow</i>					Formation Morrow	
Completion Date 6/6/84		Total Depth 12110.0'		Plug Back TD 11992.0'		Elevation 3291.0'
Farm or Lease Name Williamson BC Fed						Well No. 5
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 12110.0'	Perforations: From 11510.0' To 11536.0'		Unit Sec Twp Rge 0 17 20S 29E
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 11447.0'	Perforations: From 0.0' To 0.0'		County Eddy
Type Well Single					Packer Set At 11447.0'	
Producing Thru Tubing		Resv. Temp. °F 184 @ 0'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.
L 11447.0'		H 11447.0'		Gg .610		%CO2 .97
				%N2 .40		%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	39	2240	0	0	0	0 hrs.
1.	4.026 X 2.000	260	10.8	39	2056	62	0	0	24 hrs.
2.	4.026 X 2.000	270	20.3	39	1904	62	0	0	24 hrs.
3.	4.026 X 2.000	270	40.4	39	1720	62	0	0	24 hrs.
4.	4.026 X 2.000	300	50.0	39	1570	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)	/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	19.806	54.32	273.20	1.021	1.280	1.026	1442
2.	19.806	75.82	283.20	1.021	1.280	1.027	2015
3.	19.806	106.96	283.20	1.021	1.280	1.027	2843
4.	19.806	125.14	313.20	1.021	1.280	1.030	3336
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio
1.	.40	499	1.40	.950	217.000 Mcf/bbl.
2.	.42	499	1.40	.949	A.P.I. Gravity of Liquid Hydrocarbons 56.600 Deg.
3.	.42	499	1.40	.949	Specific Gravity Separator Gas .610 xxxxxxxxxxxxxx
4.	.46	499	1.40	.943	Specific Gravity Flowing Fluid xxxxxx .624
5.	0.00	0	0.00	0.000	Critical Pressure 675.2 PSIA 674.7 PSIA
					Critical Temperature 356.6°R 361.1°R

Pc 2253.2 Pc2 5076.9

NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	$\frac{Pc2}{Pc2-Pw2} = 2.2754$	(2) $\left[\frac{Pc2}{Pc2-Pw2} \right]^n = 1.8549$
1.	4281.6	2084.9	4346.8	730.1		
2.	3675.7	1950.2	3803.2	1273.7		
3.	3004.0	1805.3	3259.1	1817.8		
4.	2506.5	1691.2	2860.1	2216.9		
5.	0.0	0.0	0.0	0.0		

ROF = $Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 6188 \text{ Mcfd}$

Absolute Open Flow 6188 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .751
 Remarks:

Approved By:	Conducted By: Terry Richardson	Calculated By: Andie Carpenter	Checked By:
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