

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

Form C-122

RECEIVED

451
file

JUL 22 '88

Type Test [x] Initial [] Annual [] Special				Test Date 6/29/88		JUL 22 '88	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company		O. C. D. ARTESIA, OFFICE	
Pool Angell Ranch #1				Formation Atoka-Morrow		Unit	
Completion Date 2/6/83		Total Depth 10250.0'		Plug Back TD 10214.0'		Elevation 3380.0'	
Farm or Lease Name Bluffside WF Fed				Well No. 1			
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 10250.0'	Perforations: From 10170.0' To 10194.0'			
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 10121.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge E 9 19S 27E	
Type Well Single				Packer Set At 10121.0'		County Eddy	
Producing Thru Tubing		Resu. Temp. °F 210 @ 10115'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.	
L 10121.0'		H 10121.0'		Gg .620		%CO2 60	
				%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 Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000	X 0.000	0	0.0	95	3278	0	0	0 hrs.
1.	2.067	X .750	520	18.0	95	2700	62	0	24 hrs.
2.	2.067	X .750	520	23.4	95	2573	62	0	24 hrs.
3.	2.067	X .750	550	30.4	94	2331	62	0	24 hrs.
4.	2.067	X .750	580	47.3	95	1863	62	0	24 hrs.
5.	0.000	X 0.000	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.	2.709	97.97	533.20	.968	1.270	1.037	338
2.	2.709	111.70	533.20	.968	1.270	1.037	386
3.	2.709	130.85	563.20	.969	1.270	1.039	453
4.	2.709	168.39	593.20	.968	1.270	1.041	584
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.
1.	.79	555	1.54	.930	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.79	555	1.54	.930	Specific Gravity Separator Gas	.620
3.	.84	554	1.54	.926	Specific Gravity Flowing Fluid	xxxxxx
4.	.88	555	1.54	.922	Critical Pressure	673.2 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	360.5°R

Pc 3291.2 Pc² 10832.0

NO	Pt²	Pw	Pw²	Pc²-Pw²	(1) $\frac{Pc²}{Pc²-Pw²} =$	(2) $\left[\frac{Pc²}{Pc²-Pw²}\right]^n =$
1.	7361.5	2713.8	7364.9	3467.1	1.4839	1.3351
2.	6688.4	2587.1	6692.9	4139.1		
3.	5495.3	2345.5	5501.4	5330.6		
4.	3520.1	1878.9	3530.4	7301.6		
5.	0.0	0.0	0.0	0.0		

$$ADP = Q \left[\frac{Pc²}{Pc²-Pw²} \right]^n = 780 \text{ Mcfd}$$

Absolute Open Flow 780 Mcfd @ 15.025 Angle of Slope, θ 36 Slope, n .732
Remarks:

Approved By:	Conducted By: Tracy Richardson	Calculated By: Theresa Sloan	Checked By:
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