

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

Form C-122

RECEIVED

*clsr
file*

Type Test [x] Initial [] Annual [] Special					Test Date 10/5/88		JAN 23 '90	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				O. C. D.
Pool <i>Angell Ranch</i> Undesignated <i>Ato-Mn</i>				Formation Atoka Morrow				Unit ARTESIA, OFFICE
Completion Date 7/2/83		Total Depth 10430.0'		Plug Back TD 10358.0'		Elevation 3359.0'		Farm or Lease Name Amigo WT State
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 10430.0'	Perforations: From 9553.0' To 9562.0'				Well No. 1
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 9515.0'	Perforations: From 0.0' To 0.0'				Unit Sec Twp Rge L 16 19S 27E
Type Well Single				Packer Set At 9515.0'		County Eddy		
Producing Thru Tubing		Resv. Temp. °F 180 @ 9500'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 9515.0'	H 9515.0'	Gg .615	%CO2 .35	%N2 .99	%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	61	2925	0	0	0	0 hrs.
1.	2.067 X .750	560	18.0	61	2000	62	0	0	24 hrs.
2.	2.067 X .750	560	22.3	60	1926	62	0	0	24 hrs.
3.	2.067 X .750	550	23.3	63	1817	62	0	0	24 hrs.
4.	2.067 X .750	550	28.4	61	1620	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	101.58	573.20	.999	1.275	1.049	368
2.	2.709	113.06	573.20	1.000	1.275	1.050	410
3.	2.709	114.55	563.20	.997	1.275	1.048	413
4.	2.709	126.47	563.20	.999	1.275	1.048	458
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.	.85	521	1.46	.908	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.85	520	1.45	.908	Specific Gravity Separator Gas	.615	xxxxxxxxxxxxxx
3.	.84	523	1.46	.911	Specific Gravity Flowing Fluid	xxxxxx	.615
4.	.84	521	1.46	.910	Critical Pressure	671.3 PSIA	671.3 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	357.6°R	357.6°R

Pc 2938.2 Pc2 8633.0

NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	Pc2	= 1.4477	(2)	$\left[\frac{Pc2}{Pc2-Pw2} \right]^n$	= 1.3576
1.	4053.0	2014.1	4056.6	4576.4					
2.	3760.5	1940.4	3765.0	4868.0					
3.	3349.6	1831.5	3354.3	5278.7					
4.	2667.3	1635.0	2673.1	5960.0					
5.	0.0	0.0	0.0	0.0					

ROF = $Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 621 \text{ Mcfd}$

Absolute Open Flow 621 Mcfd @ 15.025 Angle of Slope, 0 40 Slope, n .826

Remarks:

Approved By:	Conducted By: Ed Perry	Calculated By: Andrea Carpenter	Checked By:
--------------	---------------------------	------------------------------------	-------------