

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

Form C-122

RECEIVED

45F
File

Type Test [x] Initial [] Annual [] Special		Test Date 2/13/88		MAY 04 '88	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company		O. C. D.	
Pool Springer Basin		Formation Atoka Morrow		Unit ARTESIA, OFFICE	
Completion Date 11/22/88		Total Depth 8420.0'		Plug Back TD 8379.0'	
Elevation 3432.8'		Farm or Lease Name Long Arroyo MO Fed		Well No. 2	
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 8420.0'	Perforations: From 8211.0' To 8221.0'	Unit Sec Twp Rge A 26 14S 27E
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 8196.0'	Perforations: From 0.0' To 0.0'	
Type Well Single		Packer Set At 8196.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 162 @ 8178'		Mean Temp. °F 62.0	
Baro. Press. - Pa 13.2 psia.		State New Mexico			
L 8196.0'	H 8196.0'	Gg .645	%CO2 1.00	%N2 .55	%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	38	2050	0	0	0	0 hrs.
1.	2.067 X 1.375	520	11.2	38	1675	62	0	0	24 hrs.
2.	2.067 X 1.375	490	12.2	38	1630	62	0	0	24 hrs.
3.	2.067 X 1.375	460	16.0	38	1600	62	0	0	24 hrs.
4.	2.067 X 1.375	430	19.0	38	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.	10.204	77.28	533.20	1.022	1.245	1.060	1064
2.	10.204	78.35	503.20	1.022	1.245	1.056	1075
3.	10.204	87.01	473.20	1.022	1.245	1.053	1189
4.	10.204	91.76	443.20	1.022	1.245	1.049	1250
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	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.	.79	498	1.35	.890	63.980 Mcf/bbl.	51.700 Deg.	xxxxxx	.693	673.8 PSIA	367.6°R
2.	.75	498	1.35	.896					672.2 PSIA	383.3°R
3.	.70	498	1.35	.902						
4.	.66	498	1.35	.909						
5.	0.00	0	0.00	0.000						

Pc 2063.2 Pc2 4256.8			
NO	Pt2	Pw	Pw2
1.	2850.0	1691.0	2859.3
2.	2700.1	1646.1	2709.7
3.	2602.4	1616.8	2614.2
4.	2506.5	1587.3	2519.6
5.	0.0	0.0	0.0

$\frac{Pc2}{Pc2 - Pw2} = \frac{2.4377}{1} = 2.4377$		$\left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.9162$	
$ROF = Q \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 2395 \text{ Mcfd}$			

Absolute Open Flow	2395 Mcfd @ 15.025	Angle of Slope, θ	36	Slope, n	.730
Remarks:					

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