

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/26/2000	
Company Yates Petroleum Corp				Connection GPM Gas Corp			
Pool Wildcat				Formation Morrow			
Completion Date 12/1/1999		Total Depth 9320		Plug Back TD 9200		Elevation 3562	
Csg. Size 5.500	Wt. 17.000	d 4.892	Set At 9320	Perforations: From 9075 To 9096		Farm or Lease Name WINDMILL ATI STATION	
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 9116	Perforations: From 9075 To 9096		Unit J	Sec. 16
Type Well Single				Packer Set At 8411		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 144 @ 8500		Mean Temp. °F 62		Baro. Press. - Pa 13.2	
State New Mexico							
L 9985	H 9985	Gg 0.603	%CO ₂ 0.398	%N ₂ 0.845	%H ₂ S 0.000	Prover 0.000	Meter Run 3.000
						Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
Sl.	0.000	x	0.000	0	0.0	0	500	0			0
1.	3.068	x	2.000	150	8.0	60	300	60			24
2.	3.068	x	2.000	150	10.0	60	250	60			24
3.	3.068	x	2.000	150	12.0	60	200	60			24
4.	3.068	x	2.000	150	13.0	60	150	60			24
5.		x									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{hwP_m}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	21.320	36.1	163.2	1.0000	1.288	1.014	1005
2.	21.320	40.4	163.2	1.0000	1.288	1.014	1124
3.	21.320	44.3	163.2	1.0000	1.288	1.014	1231
4.	21.320	46.1	163.2	1.0000	1.288	1.014	1282
5.							

NO.	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.24	520	1.47	0.973	0	
2.	0.24	520	1.47	0.973	0.000	
3.	0.24	520	1.47	0.973	0.603	XXXXXXXXXX
4.	0.24	520	1.47	0.973	0.603	0.603
5.						

Pc	513.2	Pc²	263.4
NO.	P _e	P _w	P _w ²
1.	98.1	330.3	109.1
2.	69.3	288.4	83.2
3.	45.5	249.5	62.2
4.	26.6	212.0	44.9
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.461$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.303$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1464$			

Absolute Open Flow	1464	Mcf/d @ 15.025	Angle of Slope θ	35	Slope, n	0.697
Remarks:						

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Tom Benedict	Katie Brunson	Pinson McWhorter	

Company Yates Petroleum Corp
Well WINDMILL AT STATE #1
Location J 16-15S-28E

County Chaves
Date 2-26-2000

