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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-20-81		DEC 16 1981	
Company Yates Petroleum Corporation, Transwestern Pipeline Co.				Connection O			
Pool Wildcat Strawn				Formation Strawn		Unit ARTESIA, OFFICE NM 0557142	
Completion Date 9-11-81		Total Depth 9450 KB		Plug back TD 9050 KB		Elevation 3563 KB	
Casing Size 4 1/2		Wt. 11.6#		d 4.000		Set At 9441	
Perforations: From 8575		To 8586 KB		Well No. 1			
Tubing Size 2 3/8		Wt. 4.7#		d 1.995		Set At 8535	
Perforations: From		To		Unit K		Sec. Twp. Rge. 20 19S 25E	
Type Well - Single - Draddenhead - G.G. or G.O. Multiple Single				Packer Set At 8535		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 143 @ 8581 KB		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
State New Mexico							
L 8573		H 8573		Cg 0.607		% CO ₂ 0.59	
				% N ₂ 129		% H ₂ S Nil	
Prover -----		Meter Run 2"		Taps Flanged			

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
SI							2473	67			Days
1.	2.067	X	0.625	490	15	70	2340	70			22 hrs.
2.	2.067	X	0.625	498	28	63	2157	71			24 hrs.
3.	2.067	X	0.625	486	48	58	1822	72			24 hrs.
4.	2.067	X	0.625	492	77	60	1395	73			24 hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.866	86.88	503.2	0.9905	1.284	1.0411	215
2	1.866	119.64	511.2	0.9971	1.284	1.0438	298
3	1.866	154.80	499.2	1.002	1.284	1.0443	388
4	1.866	197.23	505.2	1.000	1.284	1.0441	493
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	0.747	530	1.485	.9226	Specific Gravity Separator Gas 0.607	XXXXXXX
2	0.758	523	1.465	.9179	Specific Gravity Flowing Fluid XXXXX	0.607
3	0.741	518	1.451	.9170	Critical Pressure 674	P.S.I.A. 712.5
4	0.750	520	1.457	.9173	Critical Temperature 357	P.S.I.A. 371
5						

NO.	P _i	P _w	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.4595$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.2081$
1			8602	1003		
2			7318	2287		
3			5210	4395		
4			3024	6581		
5						

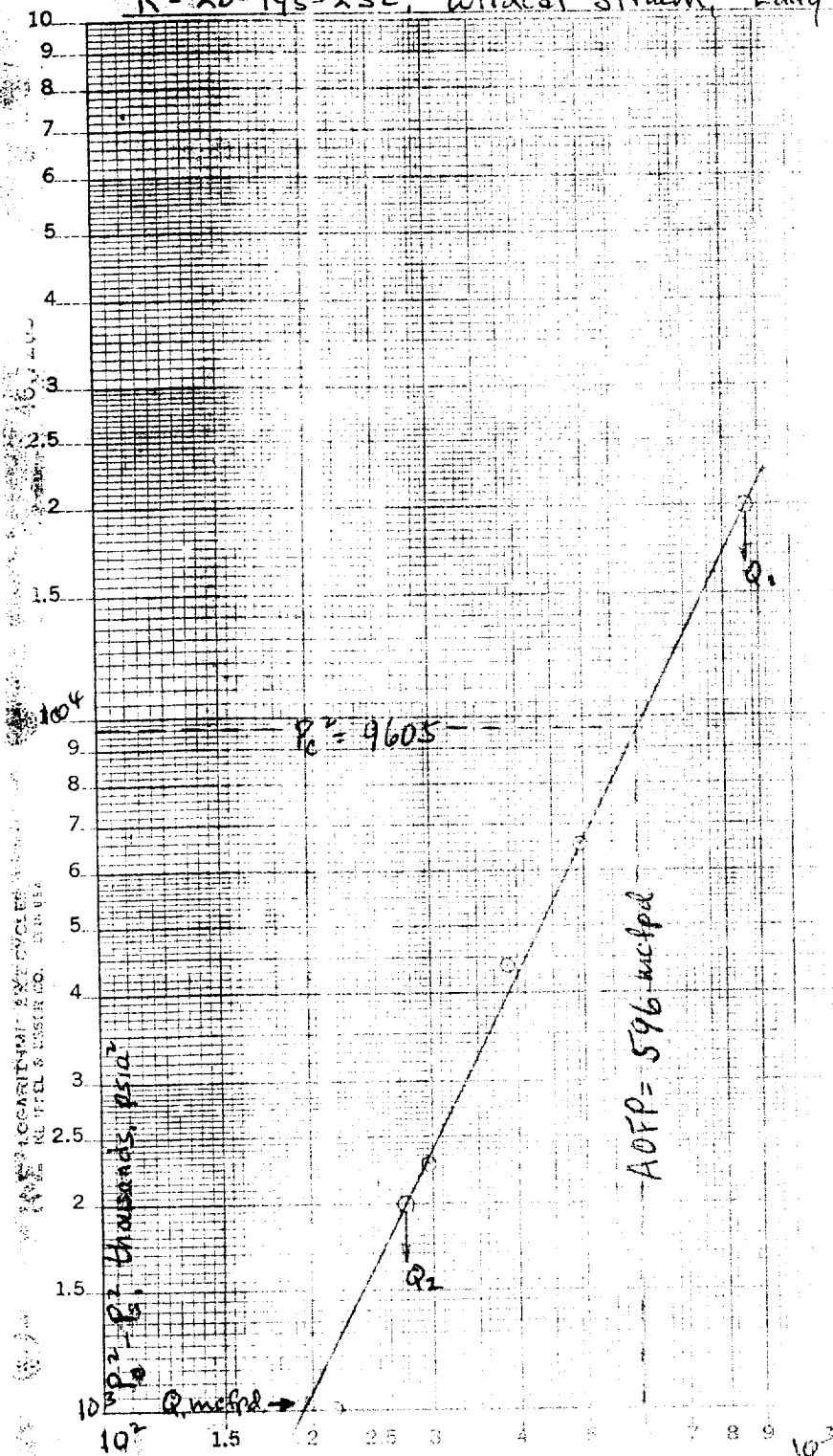
Absolute Open Flow 596		Mcf @ 15.025		Angle of Slope θ _____		Slope, n _____	
Remarks: Static Pressures by Bennett Wireline, flowing pressures by DWT. Calculations worksheet Cl22D attached.							
Approved By Commission:		Conducted By: Danny Matthews		Calculated By: Eddie Mahfood		Checked By:	

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O. C. D.
ARTESIA, OFFICE

YPC- Ross EQ Federal Com No. 1
K-20-19s-2SE, Wildcat Strawn, Eddy Co., N Mex.



$$Q_1 = 863 \text{ mcfpd}$$

$$Q_2 = 273 \text{ mcfpd}$$

$$\log Q_1 = 2.936$$

$$\log Q_2 = 2.436$$

$$n = 0.500$$

15953

$$f_2 = \frac{1.63294}{1.016224}$$

$$(16.2165 + 4 \log d) d^{\frac{3}{2}}$$
$$\begin{array}{r} 12132 \\ \hline 17.4347 \times 5.7728 \end{array}$$

607

671.3

2.4+

1.6-

672.1

2.2

38.1

712.4

360.8

0.6

34

356.8

0.8+

13.9

371.0

674 | 357

605475

006651

671.6