

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/13/82		NOV 3 1982	
Company Exxon Company USA				Connection None		O. C. D.	
Pool <i>N. Burton Flat - WolfCamp</i> Undesignated				Formation WolfCamp		Unit ARTESIA OFFICE	
Completion Date 10/10/82		Total Depth 11901'		Plug Back TD 11820'		Elevation 3231'GL+18'	
Casing Size 5.500		WT. 20.00		Set At 11901'		Perforations: From 9004' To 9130'	
Trq. Size 2.875		WT. 6.50		Set At 8901'		Perforations: Open Ended From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8901'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 165° 9067'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 9067'		H 9067		Cg .6944		% CO ₂ 0.125	
				% N ₂ 1.112		% H ₂ S -	
				Prover -		Meter Run 2.900	
						Taps F	
FLOW DATA				TUBING DATA		CASING DATA	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g. DWT
1	2.900	1.000	510	3.0	96	1831	
2	2.900	1.000	510	8.0	88	1614	
3	2.900	1.000	510	19.0	88	1370	
4	2.900	1.000	510	21.0	86	1390	
5							
RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mscf/d
1	4.801	39.62	523.2	.9671	1.200	1.048	231
2	4.801	64.70	523.2	.9741	1.200	1.051	382
3	4.801	99.70	523.2	.9741	1.200	1.051	588
4	4.801	104.82	523.2	.9759	1.200	1.051	619
5							
NO	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 1.56 Mcf/bbl.		
1	.78	556	1.44	.910	A.P.I. Gravity of Liquid Hydrocarbons 47.8 @ 60° Deg.		
2	.78	548	1.42	.905	Specific Gravity Separator Gas .694 XXXXXXXXXX		
3	.78	548	1.42	.905	Specific Gravity Flowing Fluid XXXXXX 2.086		
4	.78	546	1.42	.905	Critical Pressure 668 P.S.I.A. 668 P.S.I.A.		
5					Critical Temperature 385 °R 385 °R		
P _c 2337.2 P _c ² 5462.5				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5405$			
NO	P _i ²	P _w	P _i ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5405$			
1	3375.3		3375.8	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 905.814$			
2	2647.7		2649.2				
3	1913.2		1916.7				
4	1968.9		1972.8				
5							
Absolute Open Flow 906 Mcf/d @ 15.025				Angle of Slope @ 45		Slope, n 1.000	
Remarks: DUE TO LOW VOLUME & HIGH FLUID - C122D WAS CALCULATED WITH SEPERATOR GAS GRAVITY. WELL PRODUCED 42.0 BBLS CONDENSATE IN 4.0 HOURS = 252.0 BC/D							
Approved By Division		Conducted By: JARREL WELL TESTING, INC.		Calculated By: D. Townely		Checked By: PE #2208 Joe A. Coleman	

*Post ID-2
11-12-82
Camp + BK*

COMPANY: Exxon Company, Inc.
 WELL: Yates Federal C, No. 2
 LOCATION: J 31 20s 38e
 COUNTY: Eddy
 DATE: October 13, 1982

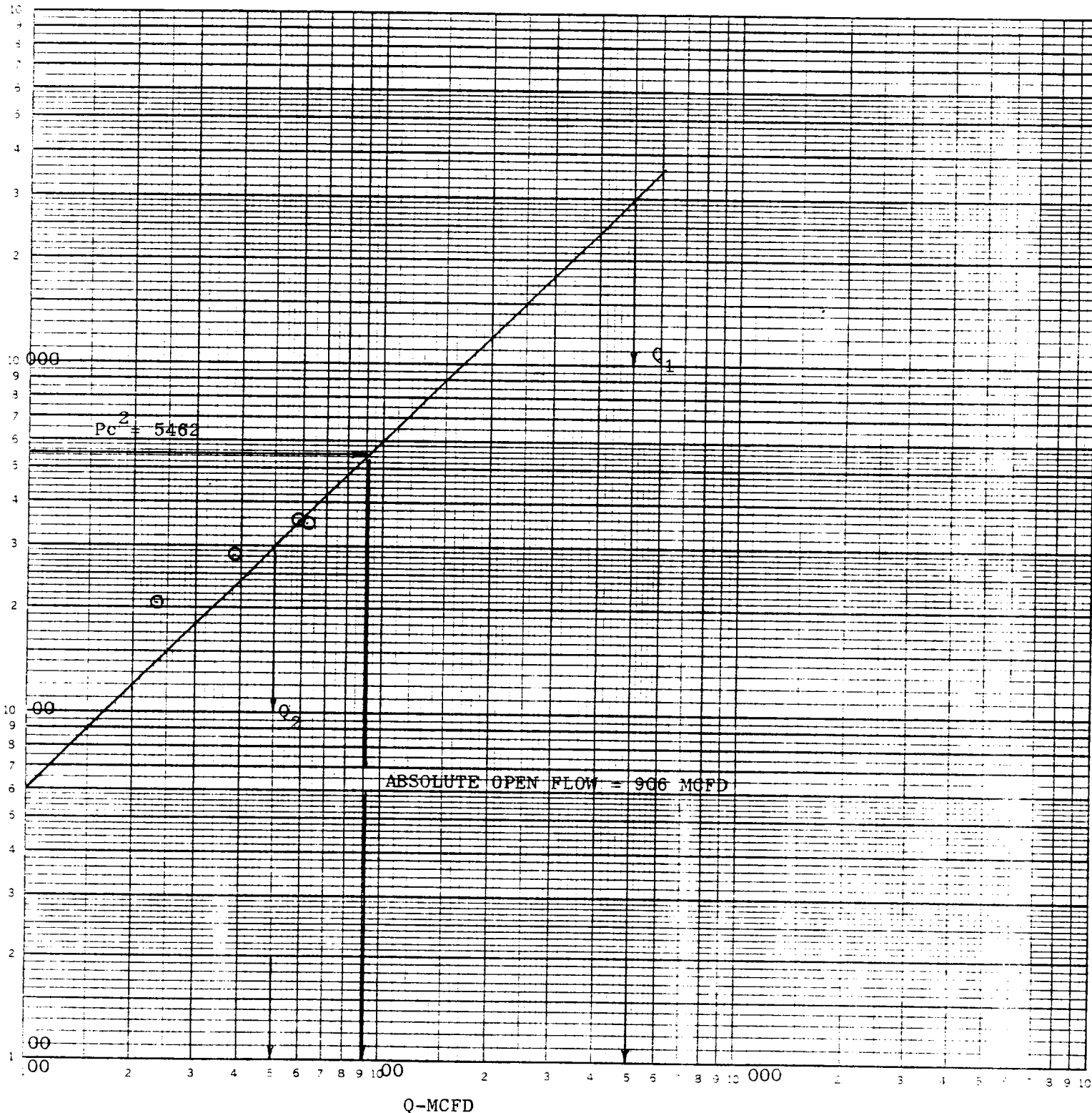
RECEIVED

NOV 3 1982

O. C. D.
 ARTESIA OFFICE

46 7403

LOG-ARITHMIC 3 X 3 CYCLES
 KLUFTILL & LESSER CO. MADE IN U.S.A.



$$Q_1 = 5000 \text{ MCFD: } \log Q_1 = 3.69897$$

$$Q_2 = 500 \text{ MCFD: } \log Q_2 = 2.69897$$

$$N = 1.00000 = 1.000$$