

RECEIVED

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

Form C-122
Revised 9-1-65

O. C. D.

Type ☒ Initial ☐ Annual ☐ Special		Test Date 10-15-80	
Company Yates Petroleum Corporation		Connection Transwestern Pipeline Company	
Pool Eagle Creek Permo Penn		Formation Upper Penn	
Completion Date 7-29-80		Total Depth 8370 KB	Plug Back To 7422 KB
Elevation 3670 KB		Farm or Lease Name Pubco NO State Com.	
Casing Size 4 1/2	Wt. 10.5	d 4.052	Set At 8353 KB
Perforations: From 7355 To 7367		Well No. 1	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 7329 KB
Perforations: From To		Unit J 36 17S 24E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 7329 KB	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 131 @ 7361	Mean Annual Temp. °F 62	Baro. Press. - P _a 13.2
State New Mexico			
L 7353	H 7353	C _g 0.632	% CO ₂ 0.77
% N ₂ 0.75		% H ₂ S N. 7	Prover ---
Meter Run 2"		Taps Flanged	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow Weeks
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51							2130	63		
1.	2.067	x	0.750	340	5	57	1789	66		
2.	2.067	x	0.750	340	10	57	1322	68		
3.	2.067	x	0.750	340	19	57	943	69		
4.	2.067	x	0.750	340	34	57	385	70		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.709	42.02	353.2	1.003	1.258	1.034	149
2	2.709	59.43	353.2	1.003	1.258	1.034	210
3	2.709	81.92	353.2	1.003	1.258	1.034	290
4	2.709	109.58	353.2	1.003	1.258	1.034	387
5							

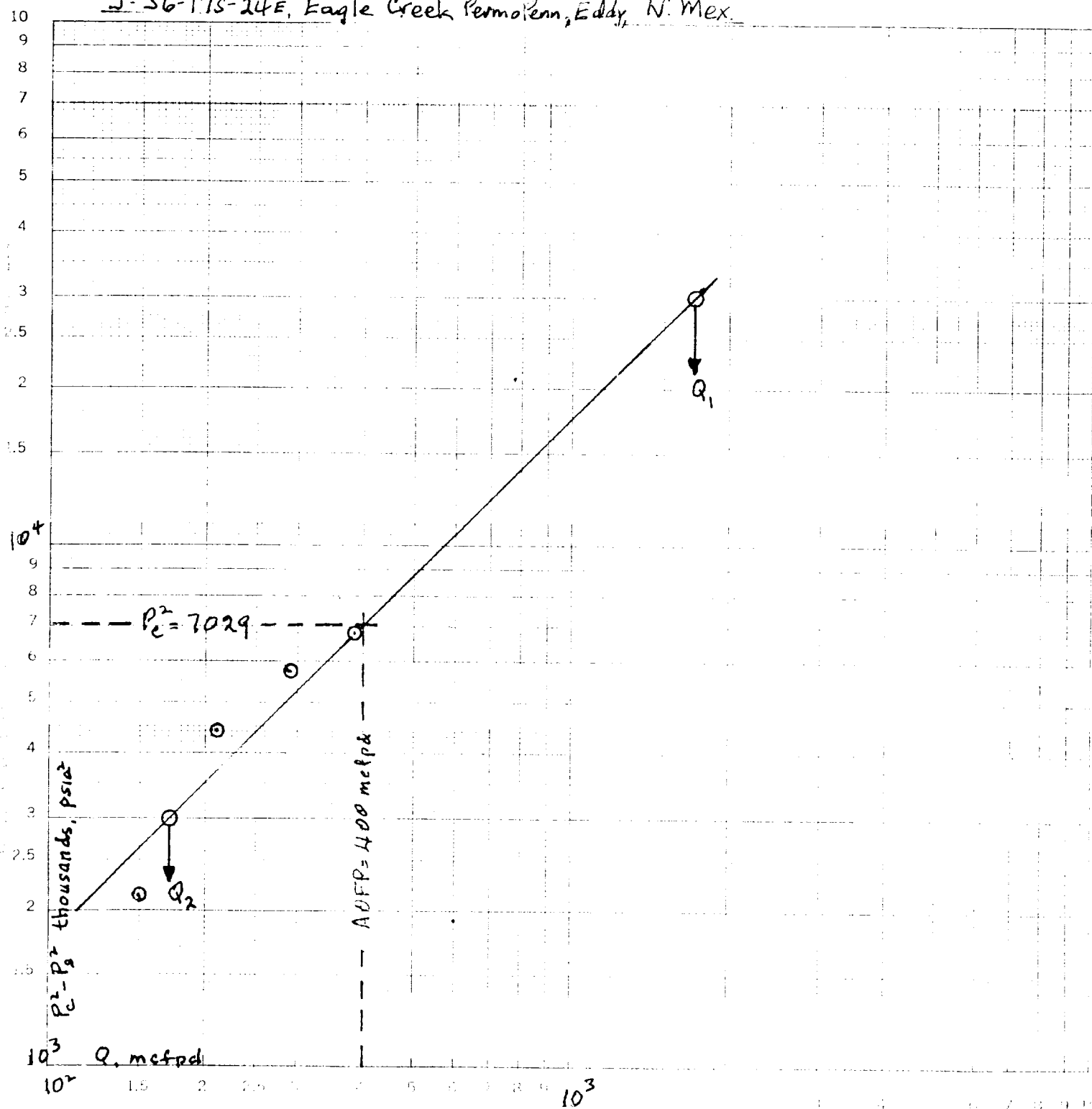
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	0.525	517	1.413	0.935	Specific Gravity Separator Gas 0.632	XXXXXXXXXX
2	0.525	517	1.413	0.935	Specific Gravity Flowing Fluid XXXXX	
3	0.525	517	1.413	0.935	Critical Pressure 672.5	P.S.I.A.
4	0.525	517	1.413	0.935	Critical Temperature 366	R
5						

NO.	P _f ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{R_c^2 - R_w^2} = 1.0328$	(2) $\left[\frac{R_c^2}{R_c^2 - R_w^2} \right]^n = 1.0328$
1			4901	2128		
2			2618	4411		
3			1310	5719		
4			223	6806		
5						

Absolute Open Flow _____ 400 _____ Mcfd @ 15.025		Angle of Slope @ _____ 45 deg.	Slope, n _____ 1.000
Remarks: Static pressure by Bennett Wireline. Flowing pressures by DWT.			
Calculations worksheet C122D attached.			
Approved By Commission:	Conducted By: Bob Gary	Calculated By: Eddie Mahfood	Checked By:

YPC - Pubco NO State Conn. No. 1

J-36-17S-24E, Eagle Creek Permian, Eddy, N. Mex.



$$Q_1 = 1710 \text{ mcfpd}$$

$$\log Q_1 = 3.2230$$

$$Q_2 = 171 \text{ mcfpd}$$

$$\log Q_2 = 2.2230$$

$$n = 1.0000$$

