

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-24-81		MAY 20 1981	
Company Yates Petroleum Corporation ✓				Connection Transwestern Pipeline Co.		O. C. D. ARTESIA, OKLAHOMA	
Pool Und. Abo				Formation Abo		Unit NM 28297	
Completion Date 2-19-81		Total Depth 4450 KB		Plug Back TD 4282 KB		Elevation 3920 KB	
Form or Lease Name Everette OO Fed.		Well No. 1		Unit E		Sec. Twp. Rge. 25 55 24E	
Well Size 5 1/2"	Wt. 14#	d 5.012"	Set At 4280 KB	Perforations: From 3916 To 3936 KB			
Well Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 3874	Perforations: From To			
Type well - Single - Dradhead - G.O. or G.O. Multiple Single				Packer Set At 3874		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 98 • 3926		Mean Annual Temp. °F 62		Baro. Press. - P _g 13.2	
L 3923		H 3923		C _g 0.736		% CO ₂ 10.23	
				% N ₂ 4.57		% H ₂ S N.7	
				Prover -----		Meter Run 2"	
						Taps Flanged	

FLOW DATA									
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.
									Temp. °F
1.	2.067 X 1.000			425	33	70	964	64	
2.	2.067 X 1.000			430	48	72	934	71	
3.	2.067 X 1.000			455	68	63	916	74	
4.	2.067 X 1.000			465	95	65	877	76	
5.							838	77	

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	4.946	114.66	438.2	.9905	1.166	1.049	720
2	4.946	145.35	443.2	.9887	1.166	1.048	872
3	4.946	171.75	468.2	.9971	1.166	1.051	1038
4	4.946	213.14	478.2	.9952	1.166	1.050	1284
5		212.02					1277

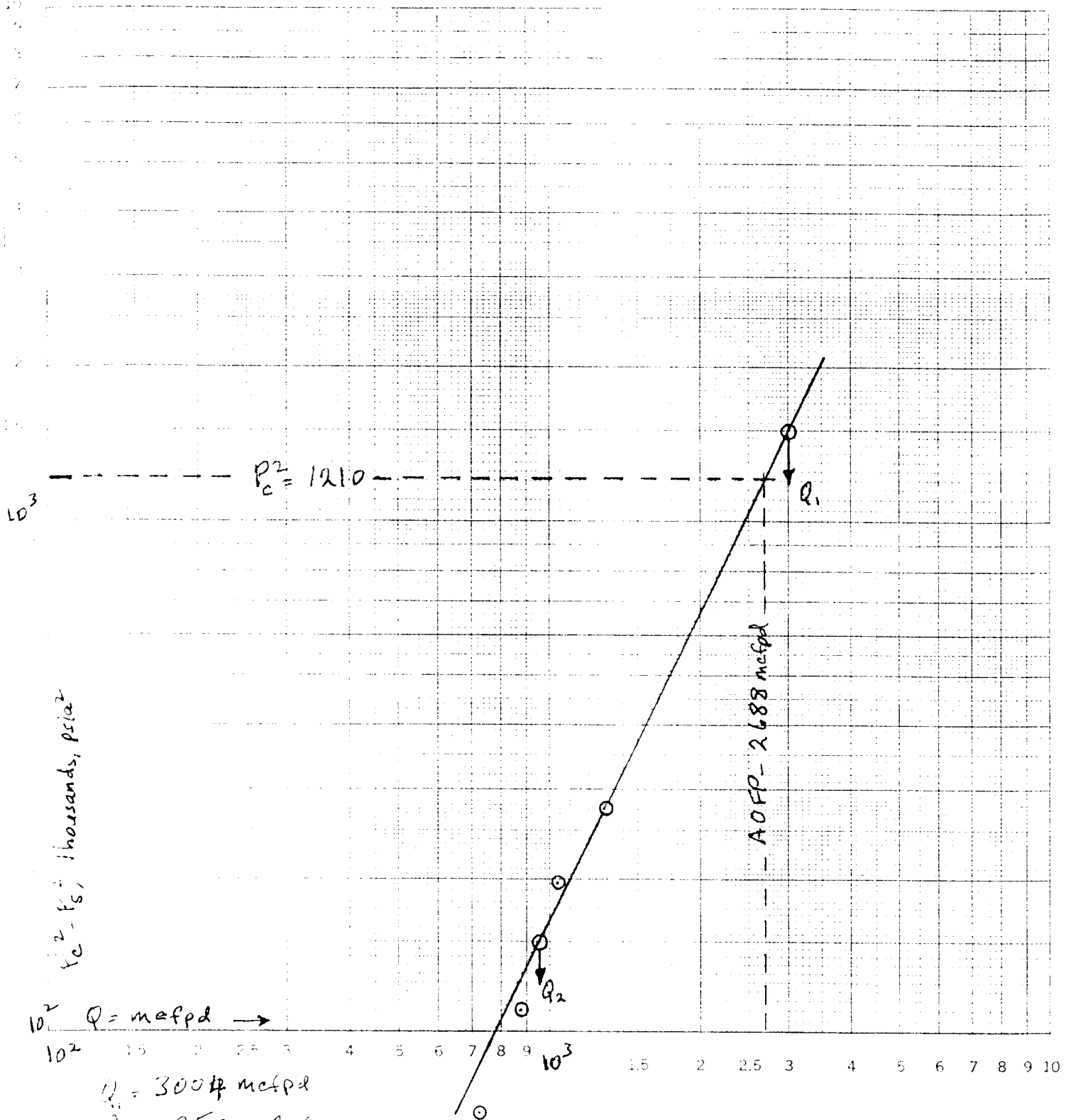
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.752	530	1.421	.9094			0.736	XXXXXX	704.5	373
2	.755	532	1.426	.9102						
3	.742	523	1.402	.9058						
4	.745	525	1.408	.9073						
5										

NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$
1			1140	70	4.384	2.094
2			1100	110		
3			1013	197		
4			934	276		
5						

Absolute Open Flow 2688 Mcfd @ 15.025				Angle of Slope 63.43 deg.		Slope, n 0.5000	
Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT calculations worksheet C122D attached.							
Approved by Commission:		Conducted By: David Weaver		Calculated By: Eddie Mahfood		Checked By:	

(PC- Everett 00 Federal No.)

E-25-5s-24E, Und. Abo, Chaves Co, N.M.



$$Q_1 = 300 \text{ mcfpd}$$

$$Q_2 = 950 \text{ mcfpd}$$

$$\log Q_1 = 3.4777$$

$$\log Q_2 = 2.9777$$

$$n = 0.5000$$

C-122D

10

100

5/3

[illegible]