

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

C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-26-75		AUG 19 1975	
Company Coquina Oil Corp.				Connection None				O. C. C. ARTEBIA, OFFICE	
Pool Wildcat				Formation Undesignated Morrow				Unit	
Completion Date 7-26-75		Total Depth 10,810 10804		Plug Back TD 10,757 10740		Elevation 3210 GL		Farm or Lease Name Wagner Federal	
Csg. Size 5 1/2	Wt. 17	d	Set At 10,804	Perforations: From 10,483 To 10,522		Well No. 2			
Tbg. Size 2 7/8	Wt. 6.5	d	Set At 10,528	Perforations: From To		Unit Sec. Twp. Rge. 1 29 20 27			
Type Well - Single - Brazenhead - G.G. or G.O. Multiple Single						Packer Set At 10,442		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 1 @ 10,503		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
10,442	10,442	G _g .630	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover	Meter Run 3068	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							3034			
1.	3.068		1.750	130	6	75	2699	72	Packer	60 min.
2.	3.068		1.750	165	8	90	2240	73	In	60 min.
3.	3.068		1.750	155	13	84	2269	72	Well	60 min.
4.	3.068		1.750	190	24	74	2224	73		60 min.
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.	15.61	29.31	143.2	.9859	1.260	1.612	575
2.	15.61	37.76	178.2	.9723	1.260	1.014	732
3.	15.61	46.76	168.2	.9777	1.260	1.014	912
4.	15.61	69.83	203.2	.9868	1.260	1.618	1380
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0 Hydrocarbons Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons None made Deg.	
	1.	.21	535	1.45	.977	Specific Gravity Separator Gas .63 X X X X X X X X
	2.	.27	550	1.50	.972	
	3.	.25	544	1.48	.972	
4.	.36	534	1.45	.965		
5.	4330.2	18820			Specific Gravity Flowing Fluid X X X X X	
	P _c	P _w	P _c ²	P _w ²	Critical Pressure 670 P.S.I.A. P.S.I.A.	
					Critical Temperature 368 °R °R	

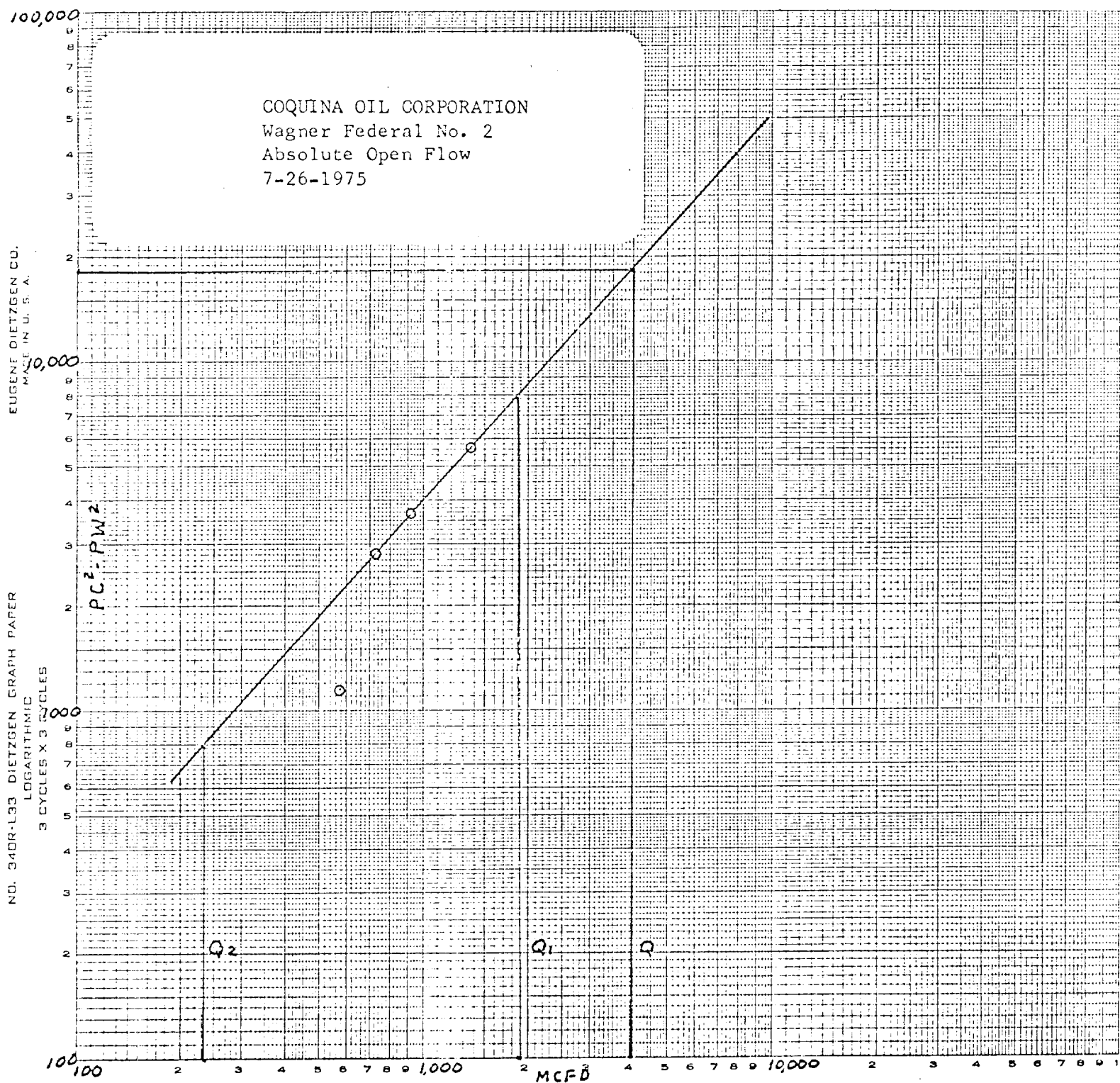
NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 3.265	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 2.905
	1	4203.2	17667	1153		
	2	4002.2	16018	2802		
	3	3896.2	15180	3640		
	4	3613.2	13055	5765		
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 4009	

Absolute Open Flow 4009 Mcfd @ 15.025		Angle of Slope θ 47°	Slope, n .90
--	--	------------------------------------	---------------------

PW substituted for PT - measured with Amerada instrument No. 34515 -

Remarks: **Calibrated 7-75 8500# Element**

Approved By Commission:	Conducted By: <i>J. Druell</i>	Calculated By: <i>Richburg</i>	Checked By: <i>J. Druell</i>
-------------------------	--------------------------------	--------------------------------	------------------------------



$$Q_1 = 1880$$

$$Q_2 = 234$$

$$\text{Log } Q_1 = 3.27416$$

$$\text{Log } Q_2 = 2.36922$$

$$N = .90494$$

$$Q = 4009$$