

COPY 6515
8-12-2

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

Form C-122
Revised 9-1-65

JUN 10 1975

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date May 29, 1975	
Company Atlantic Richfield Company				ARTESIA, OFFICE El Paso Natural Gas Company	
Pool Avalon				Formation Morrow	
Completion Date 1-20-75		Total Depth 11100		Plug Back TD 10996	
				Elevation 3280 GL	
Farm or Lease Name BQ-2 Federal Com.					
Cas. Size 5 1/2	Wt. 17	d 4.892	Set At 11096	Perforations: From 10867 To 10916	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10779	Perforations: From open To End	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single				Packer Set At 10748	
Producing Thru Tbg.		Reservoir Temp. °F 186 @ 10867		Baro. Press. - P _g 13.2	
Mean Annual Temp. °F 60		State New Mexico			
L 10779	H 10779	G _g .589	% CO ₂ -----	% N ₂ -----	% H ₂ S -----
Prover -----		Meter Run 4'		Taps FLG.	

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.		Temp. °F
SI											24 Hour
1.	4 X 1.500			631	9.6	76	3045				1 Hour
2.	4 X 1.500			631	16.0	76	2958				1 Hour
3.	4 X 1.500			632	28.6	78	2797				1 Hour
4.	4 X 1.500			635	40.3	78	2630				1 Hour
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	10.84	78.64	644.2	.9850	1.303	1.050	1149
2	10.84	101.52	644.2	.9850	1.303	1.050	1483
3	10.84	135.84	645.2	.9831	1.303	1.049	1979
4	10.84	161.62	648.2	.9831	1.303	1.049	2354
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.96	536	1.51	.907	A.P.I. Gravity of Liquid Hydrocarbons <u>Dry</u> _____ Deg.
2	.96	536	1.51	.907	Specific Gravity Separator Gas <u>.589</u> _____ XXXXXXXXXX
3	.96	538	1.52	.909	Specific Gravity Flowing Fluid <u>XXXXXX</u> _____
4	.96	538	1.52	.909	Critical Pressure <u>672</u> _____ P.S.I.A. <u>672</u> _____ P.S.I.A.
5					Critical Temperature <u>354</u> _____ R <u>354</u> _____ R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²
1	3255.2	10596.3		
1		3065.5	9397.3	1199.0
2		2984.1	8904.9	1691.5
3		2833.4	8028.2	2568.2
4		2677.2	7167.4	3428.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.090$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.912$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.087$

Absolute Open Flow <u>4.912</u> _____ Mcfd @ 15.025	Angle of Slope <u>57°</u>	Slope, n <u>.652</u>
Remarks: <u>No measurable fluid made.</u>		

Approved by Commission:	Conducted By: Rick Pagan	Calculated By: Reston & Pagan	Checked By: R.E. Huff
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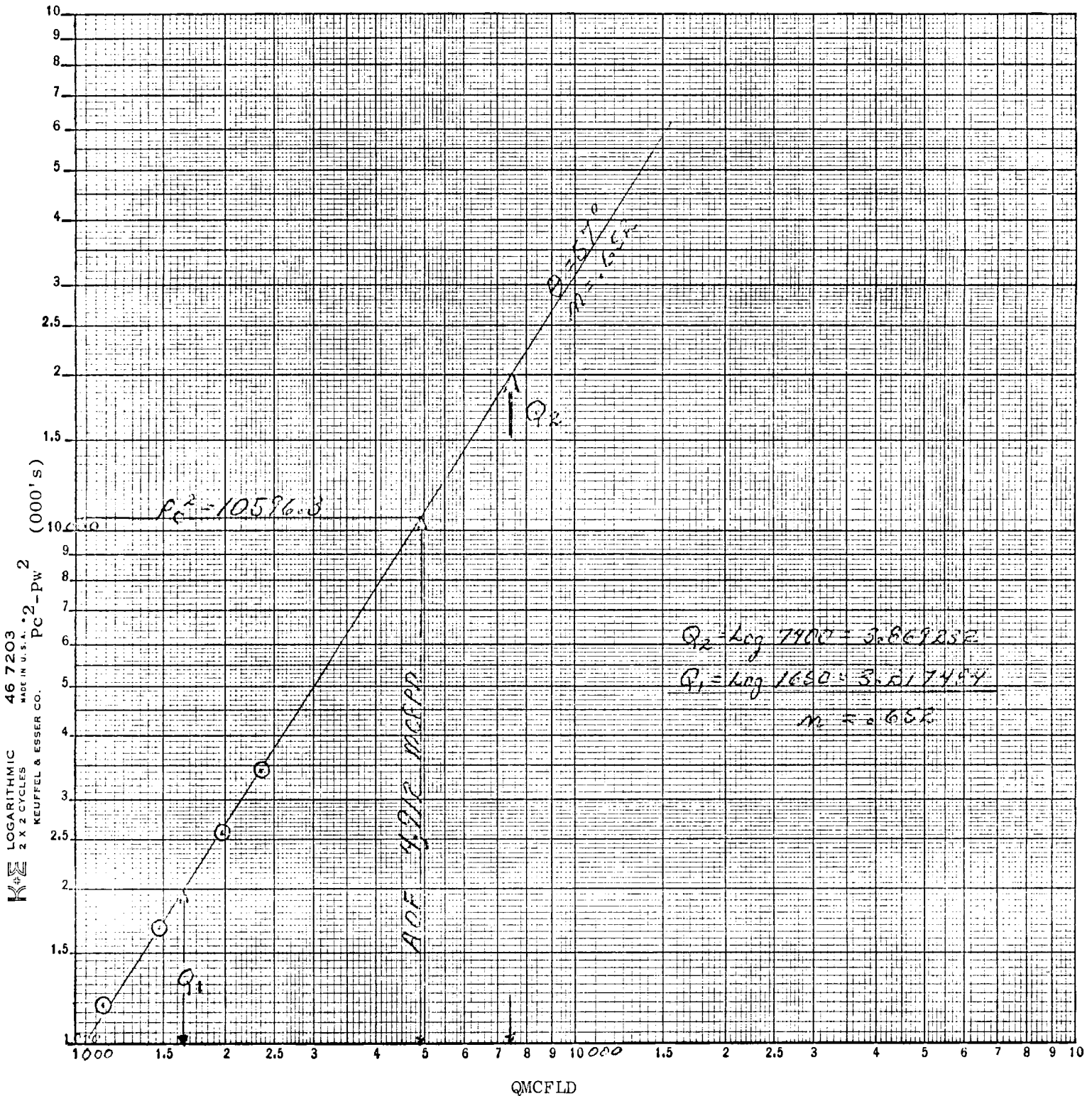
ATLANTIC RICHFIELD COMPANY

BQ 2 Fed. Com #1 (Morrow)

0 9-21S-26E Eddy Company

AOF 4,912 MCFLD N=.652

5/29/75



AOF 4,912 MCFLD