

NEW MEXICO 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 3-21-74		APR 9 1974	
Company David Fasken				Connection				O. C. C. ARTESIA, OFFICE	
Pool Undesignated				Formation Atoka ST. v. n. as per n.c.				Unit	
Completion Date 2-19-74		Total Depth 8710		Plug Back TD 8530		Elevation 3452 KB		Farm or Lease Name Yates "6" Federal	
Csg. Size 4 1/2	Wt. 11.60	d 4.000	Set At 8595	Perforations: From 8231 To 8241		Well No. 1			
Thq. Size 2 3/8	Wt. 4.60	d 1.995	Set At 8052	Perforations: From To		Unit Sec. Twp. Rge. 1 6 18S 26E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At 8052'		County Eddy	
Producing Thru Tubing		Reservoir Temp. *F 146 @ 8236		Mean Annual Temp. *F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 8236	H 8236	Gg 0.610	% CO ₂	% N ₂	% H ₂ S	Prover Cfp	Meter Run	Taps	

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				1825			1825				
1.	2"	X	1/16	1480		46	1480	46			60 min.
2.	2"	X	3/32	1091		48	1091	48			60 min.
3.	2"	X	1/8	660		47	660	47			60 min.
4.	2"	X	3/16	674		60	674	60			60 min.
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, Mcfd
1	0.06405		1493.2	1.014	1.280	1.159	143.9
2	0.1410		1104.2	1.012	1.280	1.117	225.3
3	0.2648		673.2	1.013	1.280	1.071	247.6
4	0.6082		687.2	1.000	1.280	1.066	570.3
5							

NO.	P _f	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Trace	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Trace	Deg.
2					Specific Gravity Separator Gas	0.610	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	671	P.S.I.A.
5					Critical Temperature	362	R

P _f 2807.2	P _s 7880		
NO.	P _i ²	P _s ²	P _f ² - P _s ²
1	2329.2	5425	2455
2	1989.2	3957	3923
3	1669.2	2786	5094
4	1136.2	1291	6589
5			

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

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

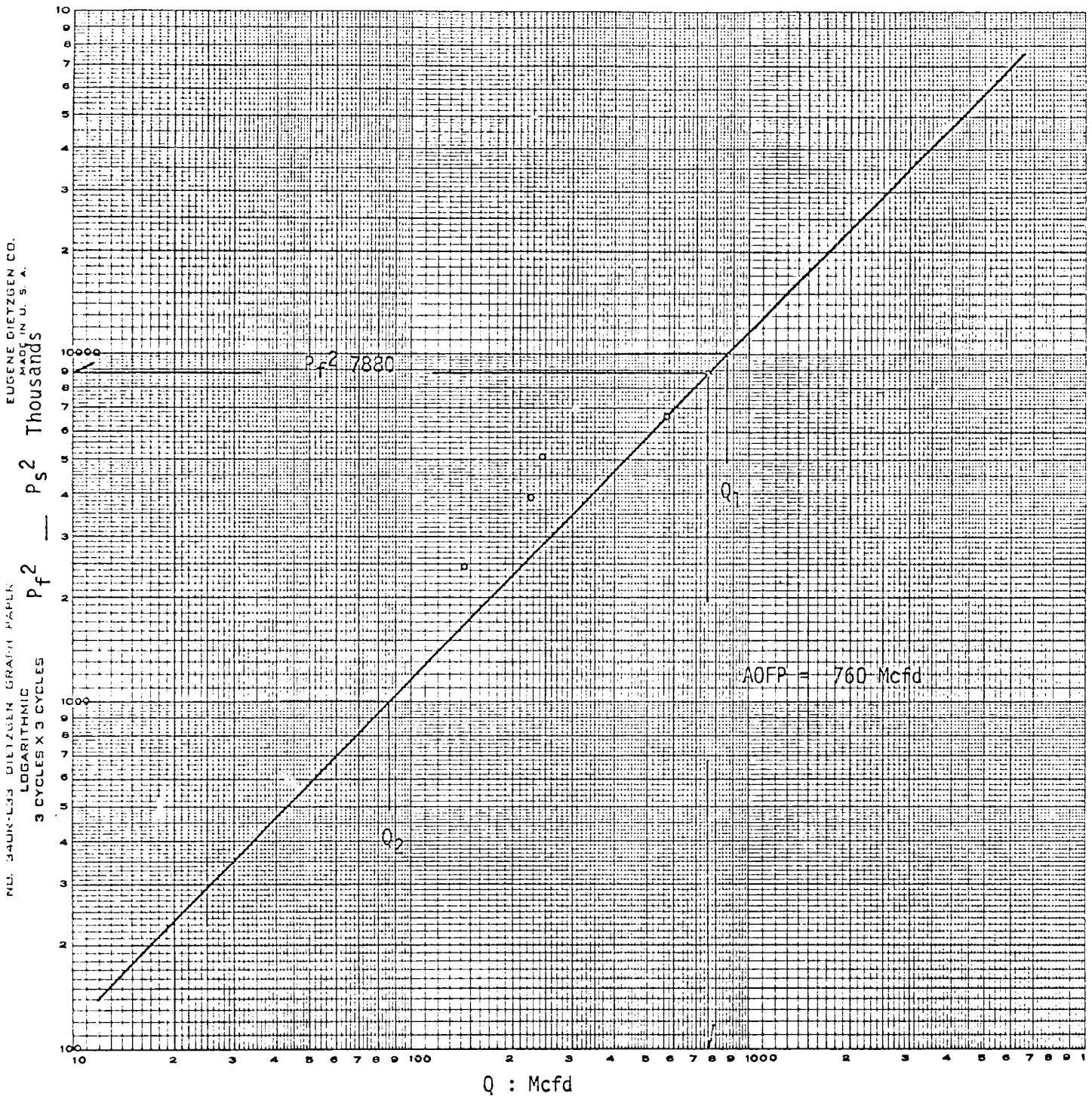
$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$$

Absolute Open Flow	760	Mcf/d @ 15.025	Angle of Slope @	45°	Slope, n	1.000
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Remarks: **BHP measured with Amerada RPG-3 gauge.**

Approved By Commission:	Conducted By: Teffteller, Inc	Calculated By: B. Buckbee	Checked By:
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Company : David Fasken
 Well : Yates "6" Federal No. 1
 Field : Undesignated
 County : Eddy
 State : New Mexico
 Date : March 21, 1974



Q₁ = 860 ; Log Q₁ = 2.9345
 Q₂ = 86 ; Log Q₂ = 1.9345
 n = 1.000
 θ = 45°