

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

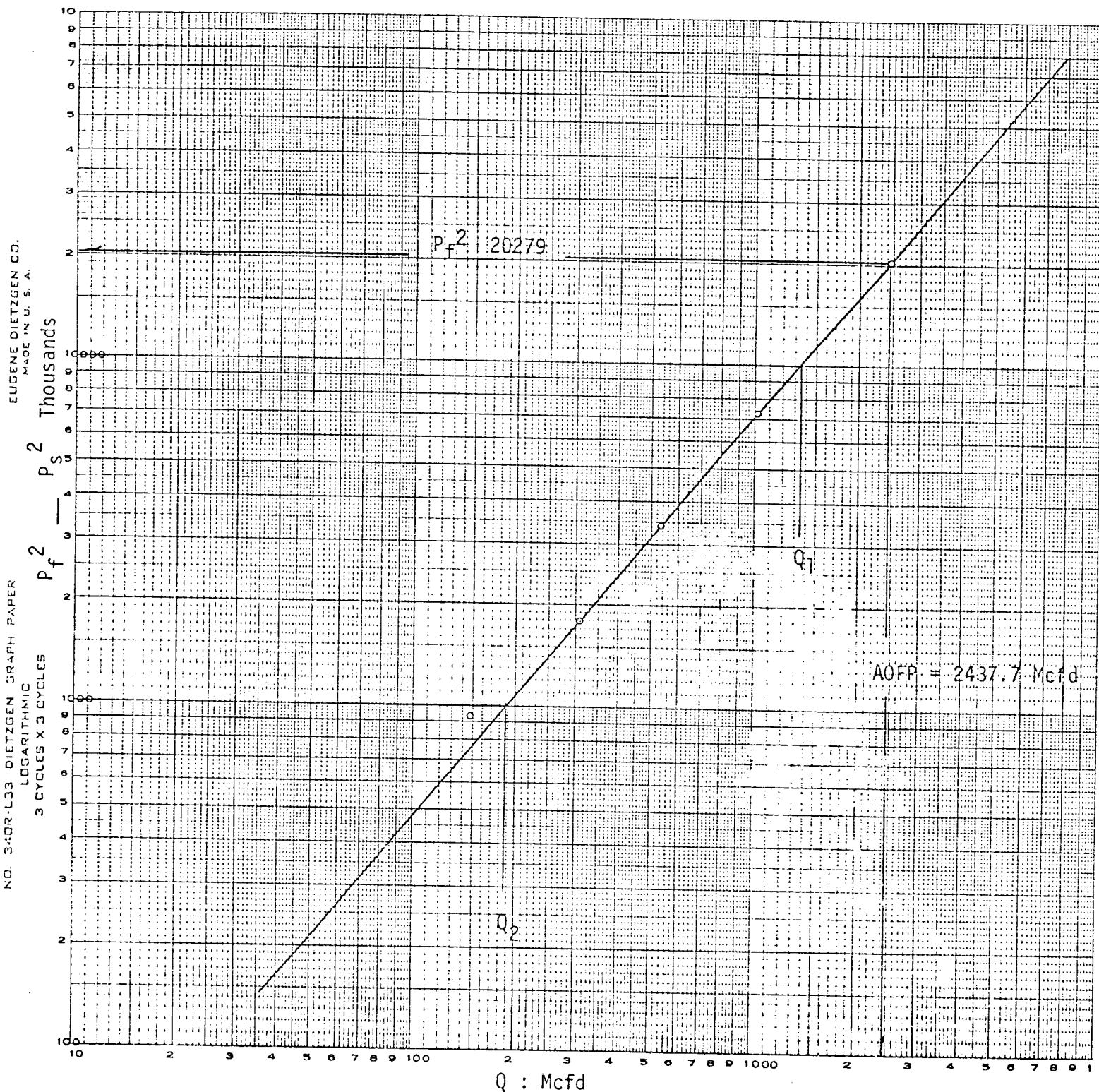
Form C-122
Revised 9-1-65

JUL 30 1976

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-7-76	
Company C & K Petroleum, Inc.		ARTESIA, OFFICE Pending	
Pool Undesignated		Formation Morrow	
Completion Date 7-1-76		Total Depth 11935	Plug Back TD 11635
Elevation 3355.5		Unit NM0557822	
Farm or Lease Name Allied Chemical Fed.		Well No. 2	
Coq. Size 5.5	Wt. 20	Set At 11935	Perforations: From 11566 To 11576
Thq. Size 2 7/8	Wt. 6.5	Set At 11525	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11525	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 201 @ 11400	Mean Annual Temp. °F 70	Baro. Press. - P _a 13.2
State New Mexico		Prover Pos. Ck.	
L 11571	H 11571	G _g 0.600	% CO ₂ % N ₂ % H ₂ S
METER RUN			
Taps			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI	115 hrs		
1.	2"	X	22/64"
2.	2"	X	22/64"
3.	2"	X	22/64"
4.	2"	X	22/64"
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	3544	84	1 hr.
2.	3445	92	1 hr.
3.	3333	96	1 hr.
4.	3148	87	1 hr.
5.	2728		
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	Pkr.		
2.			
3.			
4.			
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1.	2.162		53.2
2.	2.162		113.2
3.	2.162		195.2
4.	2.162		363.2
5.			
NO.	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}
1.	0.9777	1.291	1.006
2.	9.9706	1.291	1.010
3.	0.9671	1.291	1.013
4.	0.9750	1.291	1.029
5.			
NO.	P _r	Temp. °R	T _r
1.			
2.	Used Simplified		
3.	Supercompressibility		
4.	Tables		
5.			
Gas Liquid Hydrocarbon Ratio Dry Gas Mcl/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____			
Specific Gravity Flowing Fluid _____			
Critical Pressure _____ P.S.I.A.			
Critical Temperature _____ R			
P _f 4503.2 P _f 2 20279			
NO.	P _r	P _s	P _s 2 P _f 2 - P _s 2
1.		4398.2	19344
2.		4301.2	18500
3.		4107.2	16869
4.		3612.2	13048
5.			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.804453$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.41789$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2437.7$			
Absolute Open Flow 2437.7 Mcl @ 15.025 Angle of Slope 49° 26' Slope, n 0.856176			
Remarks: BHP measured with Amerada RPG3 gauge serial no. 12468N 0-6000 psi.			
Approved by Commission: Conducted By: Tefteller, Inc. Calculated By: F. Tefteller Checked By:			

Field : Black River
 County : Eddy
 State : New Mexico
 Date : July 7, 1976



$Q_1 = 1350$; $\text{Log } Q_1 = 3.130334$
 $Q_2 = 188$; $\text{Log } Q_2 = 2.274158$
 $n = 0.856176$
 $\theta = 49^\circ 26'$

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