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Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
OCT 1 1975
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-14-75	
Company: Western Oil Producers, Inc.			Connection:		Unit:
Pool: Wildcat Well			Formation: Devonian		
Completion Date: 7-22-75	Total Depth: 10243		Plug Back TD: 8500PB	Elevation:	Farm or Lease Name: Flint
Csg. Size: 5 1/2 / Wt.: 17 / d: 4.892	Set At: 8505		Perforations: From 8250 To 8250		Well No.: 2
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441	Set At: 8220		Perforations: From To		Unit: N / Sec.: 25 / Twp.: 17S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 8220		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 170 @ 8155	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8255	8255	0.655				Pos. Ck		

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	97 hrs		2119			2119		Pkr.		
1.	2"	x 13/64	1976		73	1976	73			60 min.
2.	2"	x 11/64	1968		74	1968	74			60 min.
3.	2"	x 9/64	1988		75	1988	75			60 min.
4.	2"	x 8/64	2022		79	2022	79			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	0.7208		1989.2	0.9877	1.236	1.177	2060.2
2.	0.5090		1981.2	0.9868	1.236	1.176	1446.4
3.	0.3346		2001.2	0.9859	1.236	1.178	961.2
4.	0.2618		2035.2	0.9822	1.236	1.173	758.7
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	2.97	533	1.42	0.722
2.	2.96	534	1.42	0.723
3.	2.99	535	1.42	0.721
4.	3.04	539	1.43	0.727
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.655 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 376 R _____ R

P_f 2724.2 P_f^2 7421

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		2554.2	6524	897
2		2530.2	6402	1019
3		2554.2	6524	897
4		2590.2	6709	712
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.2639198$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.2639198$

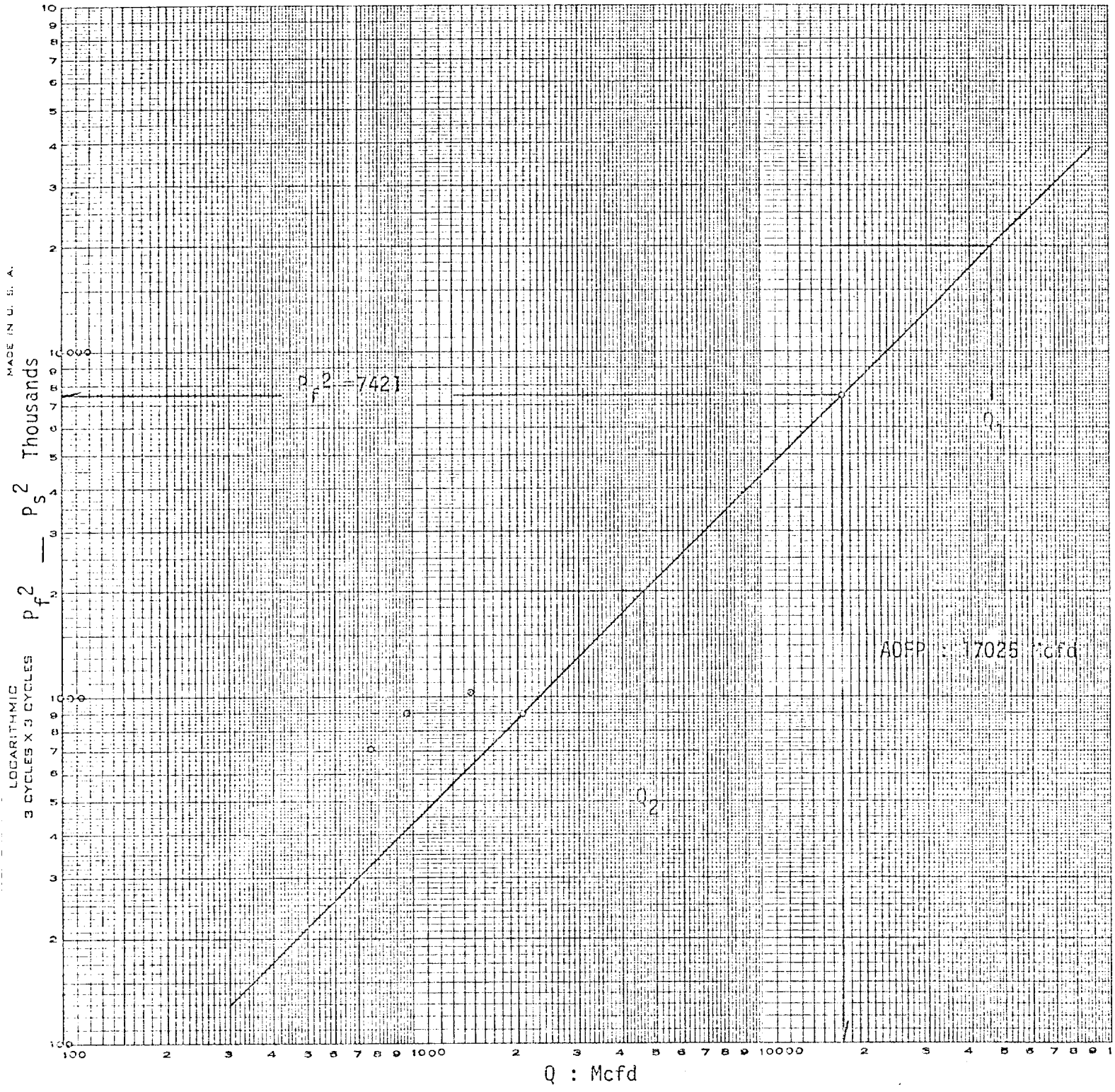
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 17025 yes

Absolute Open Flow 17025 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.00000

Remarks: BHP measured with Amerada RPG-3 gauge serial no. 12468N, 0-6000 psi.
Rates ran in decreasing order because of water.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, INC.	G. W. Taylor	

Company : Western Oil Producers, Inc.
Well : Flint No. 2
Field : Wildcat Well
County : Eddy
State : New Mexico
Date : August 14, 1975



Q_1	=	46000	Log Q_1	=	4.662758
Q_2	=	4600	Log Q_2	=	3.662758
			n	=	1.000000
			θ	=	45^o