

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

Form C-122
Revised 6-1-6

RECEIVED *C/S*

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 7-27-82	AUG 10 1982	
Company: FRED POOL Operating Co.		Connection: AIR NEW WELL		O. C. D. ARTESIA, OFFICE
Pool: PECOS SLOPE Abo		Formation: ABO		Unit: J
Completion Date: 7-27-82	Total Depth: 4753	Plug Hole: 4685	Elevation: 3707 KB	Form or Lease Name: WAGGONER <i>Wagoner</i>
Perforations: From 4212 To 4346	Well No.: 2			
Perforations: From OPEN To ENDED	Unit: J	Sec: 10	Twp: 7S	Rge: 26E
Type Well - Single - (Underhead - G.O. or G.O. Multiple): SINGLE		Packer Set At: NONE		County: CHAVES
Producing thru TUBING	Reservoir Temp. °F: 102 @ 4145	Mean Annual Temp. °F: 60	Base Press. - P _g : 13.2	State: N.M.
L: 4279	M: 4279	Q _g : 0.731	% CO ₂ : 9.30	% H ₂ : 5.92
			% H ₂ S: 0	Preval: 2"
				Meter Run: FLANGE

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Preval Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _g	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
51							836	79	966		127 HRS.
1	2.00	X	187	390	0	52	807	68	924	8/64	1 HR
2	2.00	X	375	230	0	56	751	69	868	14/64	1 HR
3	2.00	X	375	400	0	54	654	70	777	18/64	1 HR
4	2.00	X	375	509	0	60	546	68	670	24/64	1 HR
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_1 - P_2}$	Pressure P _g	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, MWD
1	0.60	0	403.2	1.0078	1.1696	1.0399	299.
2	2.37	0	243.2	1.0039	1.1696	1.0230	693.
3	2.37	0	413.2	1.0058	1.1696	1.0402	1200
4	2.37	0	522.2	1.0000	1.1696	1.0493	1521
5							

NO.	P ₁	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/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
1	58	512	1.39	.925						
2	35	516	1.40	.956						
3	59	514	1.40	.924						
4	75	520	1.41	.908						
5										

1. 863.5	P ₁ ² 746	(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 1.9684$	(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1.8307$
NO	P ₁	P ₂	P ₂ ² - P ₁ ²
1		827	684
2		778	606
3		699	489
4		606	367
5			

AOF = 0 $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 2,784.0$

*Test ID-2
8-6-82
Gump & BK*

Absolute Open Flow: 2,784.0	MWD @ 15.025	Angle of Slope: 48.2	Slope, n: 0.8930
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

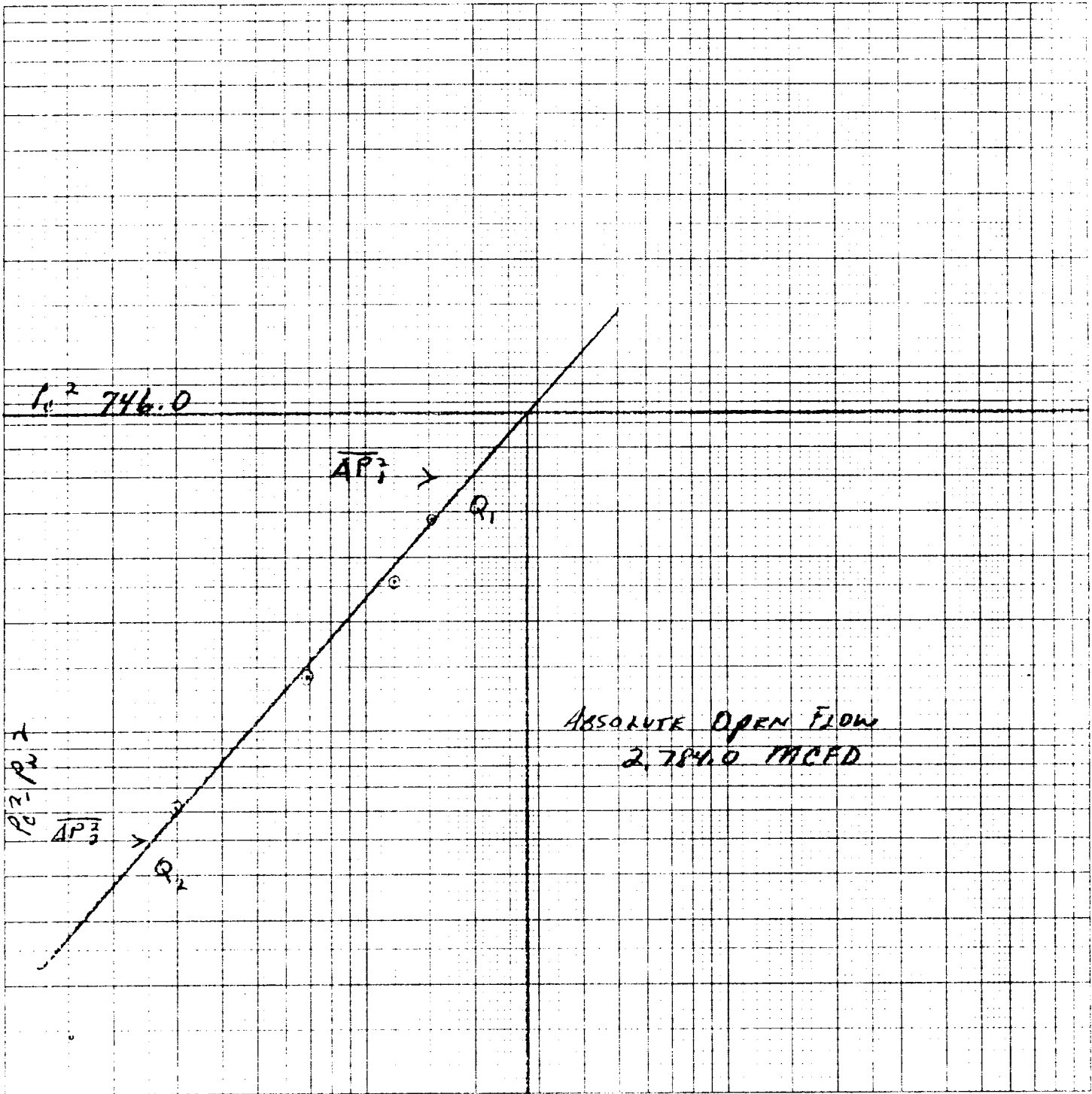
Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT - CATHEY	Checked By:
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ced Pool JK
 Waggoner Well No 2
 Unit J, Sec 10, Twp 1 N, R. 1 E
 Charles County, Md.

Jan 1-22

46 7400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



$Q \text{ MCFD}$
 $\overline{AP^2} \quad P_0^2 - P_w^2 \quad 500$
 $\overline{AP^2} \quad P_0^2 - P_w^2 \quad 50$
 $Q_1 = 2000.0 \text{ MCFD}$
 $Q_2 = 2000.0 \text{ MCFD}$

$Q_1 \quad 3.3010$
 $Q_2 \quad 2.4080$

 $\eta = .8930$