NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF
C-122

RECEIVED
APR 2 1982
O. C. D.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 3/8/82	
Company: FRED POOL ~~Drlg~~ Operating Co.		Connection: Air			
Pool: Cerros Slope Abo.		Formation: Abo		Unit	
Completion Date: 1/4/82	Total Depth: 4801	Plug Back TD: 4742	Elevation: 3715 GL	Farm or Lease Name: Wagner	
Csg. Size: 4 1/2 / Wt.: 10.5 / d: 4 / Set At: 4801		Perforations: From 4064 To 4382		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 4001		Perforations: From To		Unit: N / Sec.: 10 / Twp.: 7S / Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: NA		County: Chaves	
Producing Thru: Tubing	Reservoir Temp. °F: 100 @	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.6	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.62				2"		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							985	53			
1.	2	X	1.25		3		970	59			1 hr
2.	2	X	1.25		14.5		900	61			"
3.	2	X	1.25		41.5		820	62			"
4.	2	X	1.25		51		690	62			"
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	36.20			1.001	1.27	1.094	302
2	36.20			.999	1.27	1.086	723
3	36.20			.998	1.27	1.077	2050
4.	36.20			.998	1.27	1.064	2489
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.63	560	1.54	.862
2.	1.49	560	1.54	.873
3.	1.37	560	1.54	.882
4.	1.177	560	1.54	.897
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 373 R _____ R

P_c 1078 P_c^2 1162

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	•	1063	1130	32
2		989	978	184
3		928	861	300
4		808	653	508
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.28$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.05$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4700$

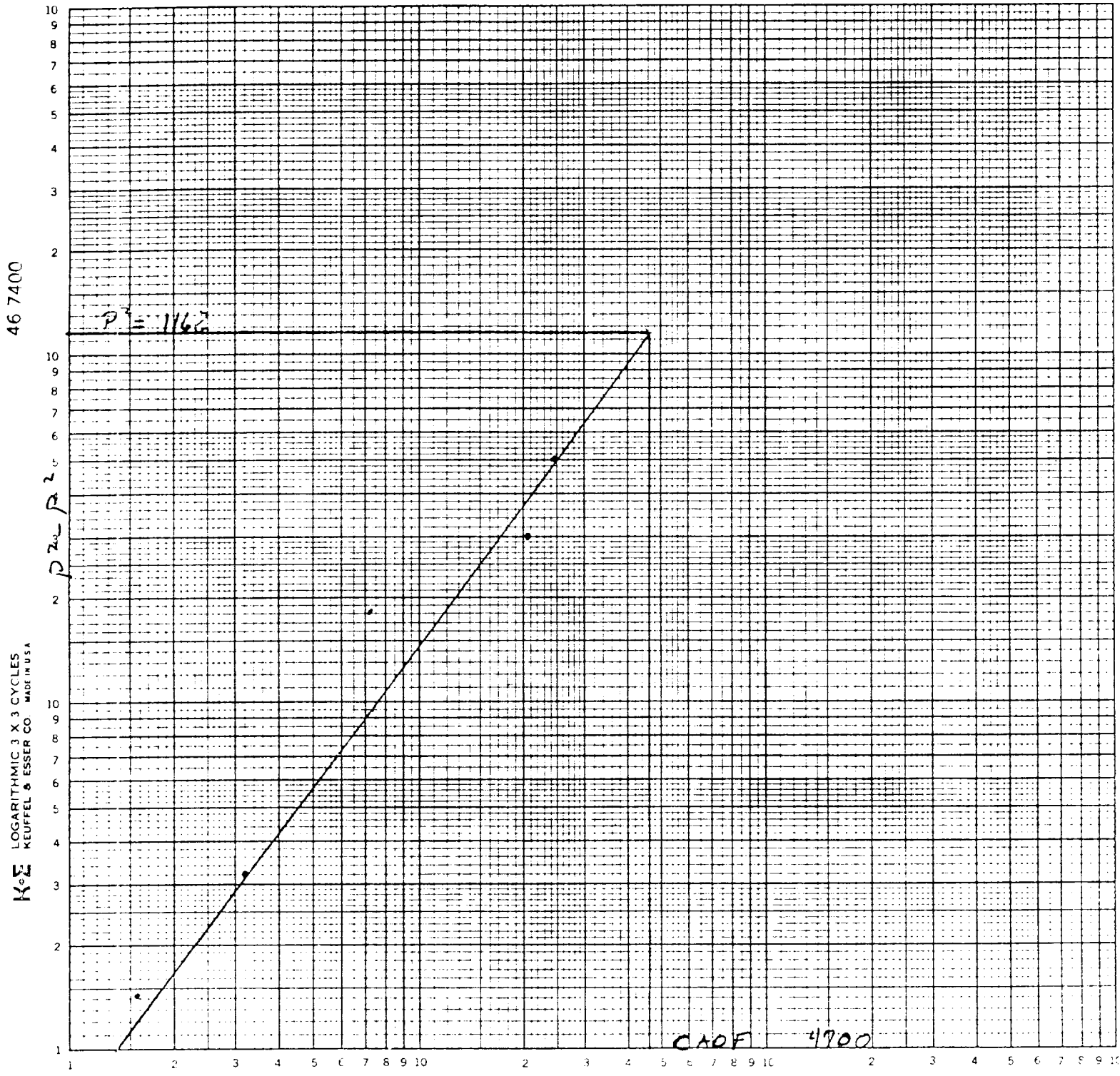
Absolute Open Flow 4700 Mcfd @ 15.025 Angle of Slope θ 53.5 Slope, n 1.35

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Keltic Services	Mike Kelly	

FRED POOL Jr

Wagner #1



Q
MSCFPD