

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED BY
NOV 16 1983
O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date NOV 16 1983	
Company McClellan Oil Corp. ✓		Connection Air	
Pool SE South Chaves Queen GAS		Formation Queen	
Completion Date 1/24/83		Total Depth 1805	Plug Back TD 1805
Elevation 3823.3GL		Farm or Lease Name Harris Fed	
Ceq. Size 4 1/2	Wt. 9.5	Set At 1805	Perforations: From 1726 To 1735
Thq. Size 2 3/8	Wt. 4.7	Set At 1730	Perforations: From Open To Ended
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	County Chaves
Producing Thru Tubing	Reservoir Temp. °F 60	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico			
L	H	G _g .8	% CO ₂
% N ₂	% H ₂ S	Prover 2"	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							150				
1.	2	X	$\frac{1}{4}$	16		65	92				1 hr
2.	2	X	$\frac{1}{4}$	28		65	54				1 hr
3.	2	X	3/8	10		65	28				1 hr
4.	2	X	3/8	13		65	19				1 hr
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.087		29.2	.995	1.118	1.003	35
2.	1.087		41.2	.995	1.118	1.004	50
3.	2.378		23.2	.995	1.118	1.004	61
4.	2.378		26.2	.995	1.118	1.005	69
5.							

NO.	R ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 315 P_c² 99.23

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		226	51	47.8
2		210	44	55.3
3		153	23	75.8
4		126	16	83.2
5				

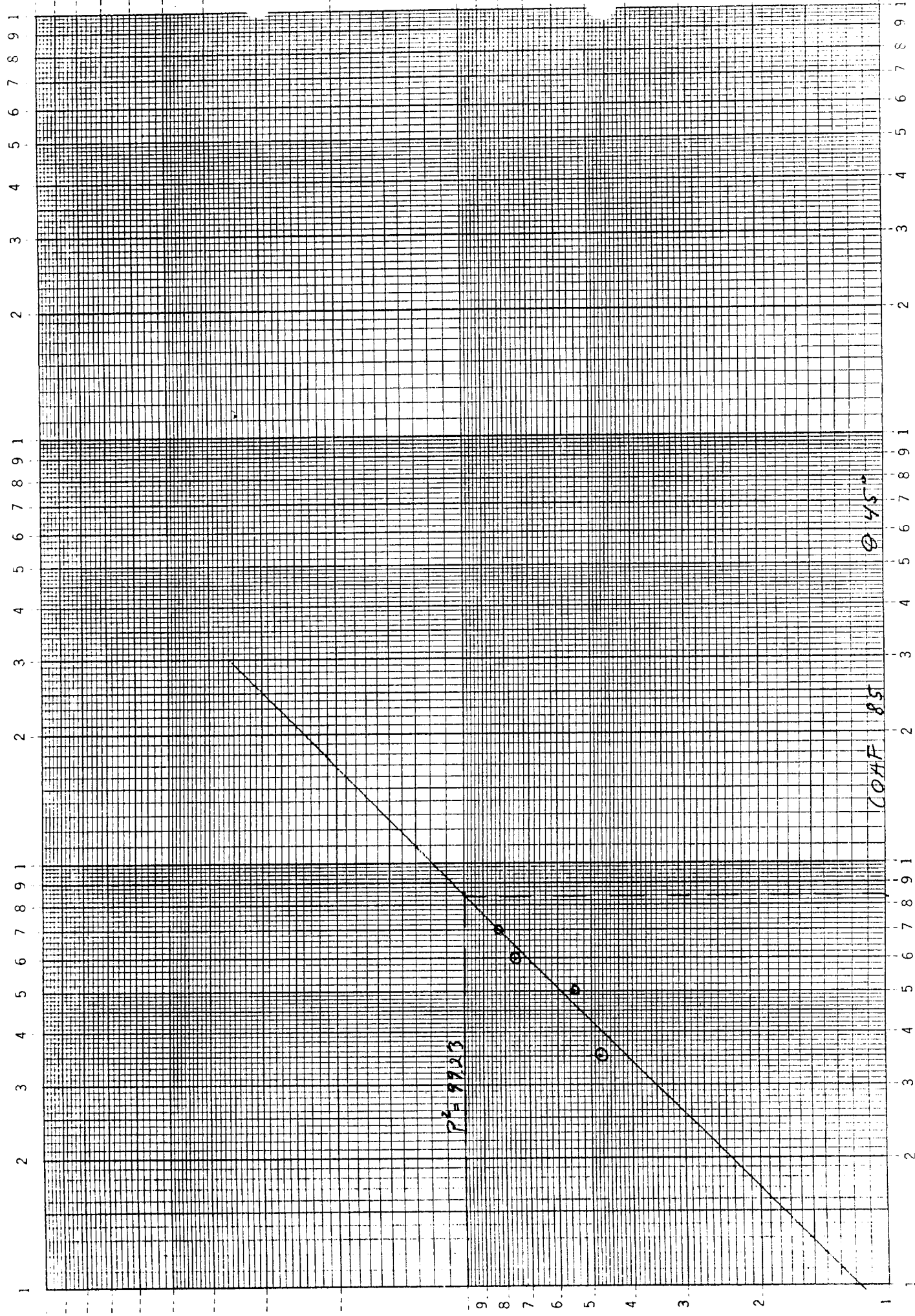
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.193$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.193$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 85$

Absolute Open Flow 85 Mcfd @ 15.025 Angle of Slope @ 45 Slope, n 1

Remarks: Bottom hole pressures recorded with Amerada type.

Approved By Division	Conducted By: Keltic Services	Calculated By: Kelly	Checked By:
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Q_{msc}