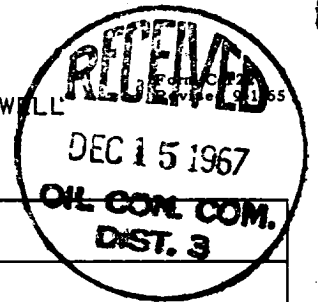


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-12-67	
Company Campbell, Kiel & Rothwell				Connection None	
Pool Tocito Dome				Formation Tocito	
Completion Date 12-2-67		Total Depth 6365		Plug Back TD 6328	
		Elevation 5696 (KB)		Farm or Lease Name Navajo Tocito	
Csg. Size 4.50	Wt. 9.50	d 4.090	Set At 3345	Perforations: From 6322 To 6328	
	10.50	4.052	3020-6365	Well No. 1	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6300	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing				State New Mexico	
Reservoir Temp. °F 130 @ 6365		Mean Annual Temp. °F -		Baro. Press. - P _a 12.0	
L 6300	H 6328	G _g Est. 0.72	% CO ₂ -0-	% N ₂ -0-	% H ₂ S -0-
		Prover -	Meter Run 4"	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	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							2546	-	2544	-	9 da
1.	4.0"		2.50	660	23	54	2355	-	2400	-	1.25 Hr
2.	4.0"		2.50	560	48	54	2034	-	2292	-	1.00 Hr
3.	4.0"		2.50	640	61	63	1771	-	2171	-	1.00 Hr
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	42.13	123.2	-	1.0058	0.9129	1.1000	5,243
2	42.13	163.5	-	1.0058	0.9129	1.0820	6,844
3	42.13	198.5	-	0.9971	0.9129	1.0870	8,275
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 46 bbl/MCF or 21,484 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons -0- Deg.
2.					Specific Gravity Separator Gas Est. 0.72 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2558	P _c ² 6543	(1) $\frac{P_c^2}{P_r^2 - R_w^2} = 3.68$	(2) $\left[\frac{P_c^2}{P_r^2 - R_w^2} \right]^n = 1.945$
NO.	P _r ²	P _w	R _w ²
1		2412	5818
2		2304	5308
3		2183	4765
4			
5			

Absolute Open Flow 16,095 Mcfd @ 15.025		Angle of Slope θ _____		Slope, n 0.51	
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Remarks: **Test conducted thru test unit. Choke openings - 1st flow rate-14/64", 2nd flow rate - 21/64", 3rd flow rate 27/64".**

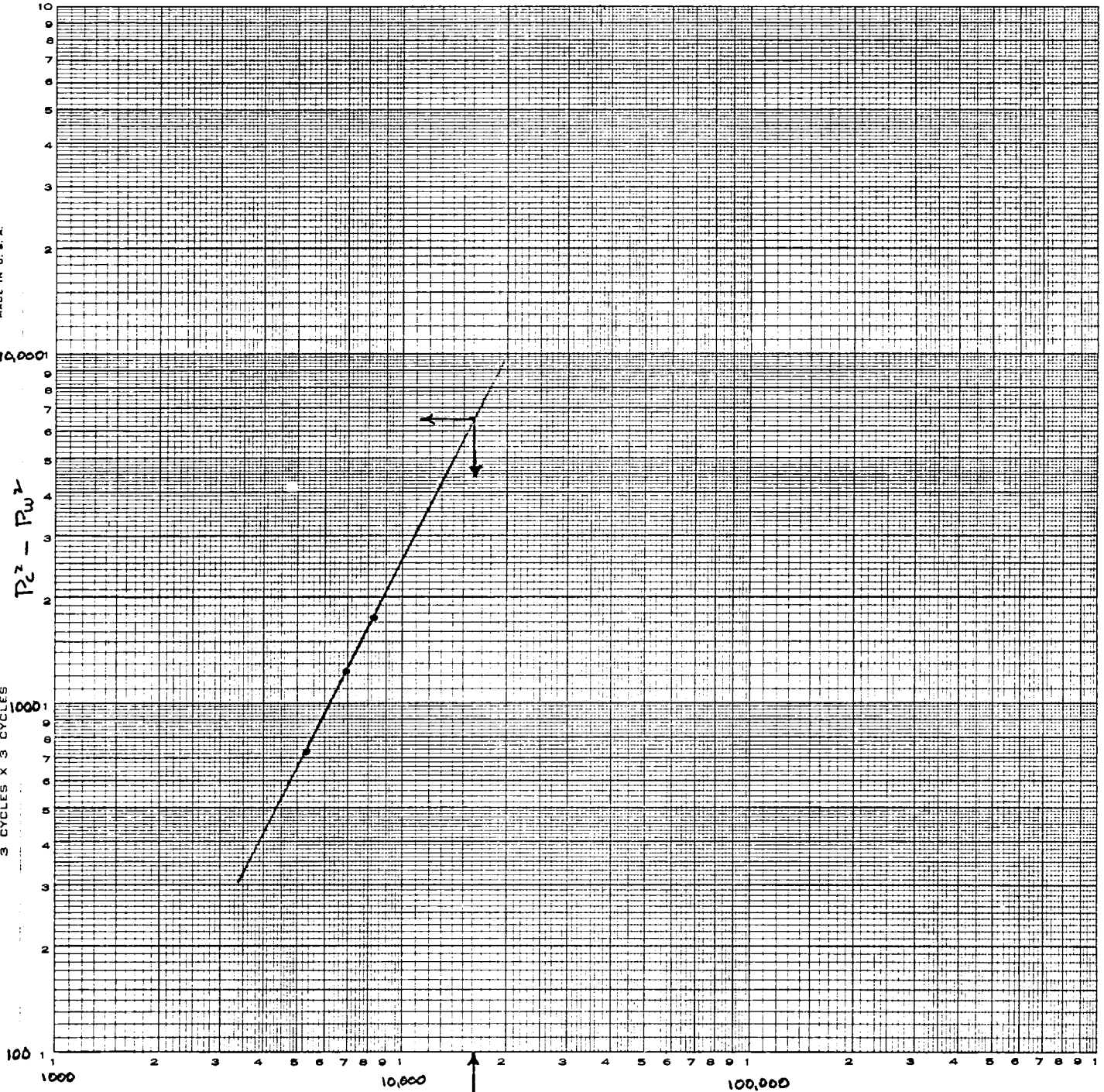
Approved By Commission:	Conducted By: Ewell N. Walsh	Calculated By: Ewell N. Walsh	Checked By:
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CAMPBELL, KIEL & ROTHWELL
 Navajo Tecito No. 1
 SWNE Sec.9-T26N-R18W
 San Juan County, New Mexico
 December 12, 1967

RECEIVED
 NOV 15 1967
 OIL CON. COM.
 DIST. 3

EUGENE DIETZGEN CO.
 MADE IN U.S.A.

YD. 340R-L33 DIETZGEN GRAPH PAPER
 LOGARITHMIC
 3 CYCLES X 3 CYCLES



ROF = 16,100

Q - MCF

n = 0.51