

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

Form C-122
Revised 9-1-66

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-12-67	
Company Campbell, Kiel & Rothwell				Connection None		
Pool Tocito Dome				Formation Tocito		Unit
Completion Date 12-2-67		Total Depth 6365		Plug Back TD 6328		Elevation 5696 (KB)
Csg. Size 4.50		Wt. 9.50		Set At 3345		Perforations: From 6322 To 6328
Thg. Size 2.375		Wt. 4.7		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		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
Farm or Lease Name Navajo Tocito				Well No. 1		
Unit G Sec. 9 Twp. 26N Rge. 18W				County San Juan		
State New Mexico						

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 _t	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 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

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{3.68}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.945}$
1		2412	5818	725		
2		2304	5308	1235		
3		2183	4765	1778		
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 T0cito No. 1
 SWNE Sec.9-T26N-R18W
 San Juan County, New Mexico
 December 12, 1967

