

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

Form C-112
 Revised 5-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 2-23-72	
Company Artec Oil & Gas			Connection Southern Union Gathering		
Prod. Bulcher Kutz			Formation Pictured Cliffs		Unit
Completion Date 2-18-72		Total Depth 2030	Plug Back TD -----		Elevation 5954 DF
Farm or Lease Name Newman "B"			Well No. #3		
Cas. Size 3"	Wt. 7.70#	Set At 2030	Perforations: From 1944 To 1994		Unit B
Tub. Size 1"	Wt. 1.7#	Set At 1920	Perforations: From ---- To ---		Sec. 30
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At ---		Twp. 28N
Producing Thru Casing			Baro. Press. - P_d		Rge. 9W
Reservoir Temp. *F @			Mean Annual Temp. *F		County San Juan
State New Mexico			Meter Run Taps		

Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Bgro. Press. = P _a		State		
Casing		a						New Mexico		
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover		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.
SI							219		218	
1.	2"		3/4				142		106	3 hr
2.										
3.										
4.										
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, Mscf
1.	12,365		118	1.0000	.9258	1.0000	1351
2.							
3.							
4.							
5.							

NO.	P_r	Temp. *R	T_r	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/scf.
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

NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8126$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6578$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2240$
1.	154	23,716	29,184	
2.				
3.				
4.				

Absolute Open Flow	2240	Mscf @ 15.025	Angle of Slope θ
Remarks:			

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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