

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-30-71	
Company Artec Oil & Gas Company		Connection Southern Union Gathering	
Well ARTEC		Formation Picture Cliff	
Completion Date 3-23-71	Total Depth 3080	Plug Back TD 3080	Elevation 6360 Gr
Farm or Lease Name Davis		Well No. #16	
Log Size 4-1/2"	Wt. 10.5#	Set At 3070'	Perforations: From 2938 To 2960
Log Size 1"	Wt. 1.7#	Set At 2930'	Perforations: From ---- To ----
Type Well - Single - Bracedhead - G.G. or G.O. Multiple Single		Packer Set At ----	County San Juan
Producing Zone Casing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a State New Mexico
L	H	G _g	% 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.	
1.	2"		3/4				810		810	
2.							121		76	
3.										
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.	12.335		88	1.0000	.9258	1.0000	1007
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/sbl.
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 _r 822	P _w 675.684		
NO.	P _r	P _w	R _r ² R _w ² R _r ² - R _w ²
1.		133	17,689 657,995
2.			
3.			
4.			
5.			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0268$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1027$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0200$

Actual Open Flow	1027	Mcf/d @ 15.025	Angle of Slope @
Remarks:			

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