

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 9-21-71				
Company Aztec Oil & Gas Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesaverde				Unit	
Completion Date 9-9-71		Total Depth 7058'		Plug Back TD 7027'		Elevation 5962 GL		Farm or Lease Name Hare	
Csg. Size 4 1/2"	Wt. 10.5#	d	Set At 7058	Perforations: From 4730 To 4765		Well No. #16			
Tbg. Size 2-3/8"	Wt. 4.7#	d	Set At 6712'	Perforations: From ---- To ----		Unit H		Sec. 3	Twp. 29N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 6712'		County San Juan			
Producing Thru 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.		Temp. °F
SI									808		
1.	2"		3/4						138		3 Hrs.
2.											
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	12.365		150	1.0000	.9258	1.0000	1717
2.							
3.							
4.							
5.							

NO.	P _r	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 820	P _c ² 672,400	
NO.	P _t ²	P _w ²
1		150
2		22,500
3		649,900
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0346$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1761$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0258$

Absolute Open Flow	1761	Mcf/d @ 15.025	Angle of Slope @
Remarks:			

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