

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 12-13-73	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering			
Pool Aztec				Formation Pictured Cliff <i>Ext.</i>		Unit	
Completion Date 12-1-73		Total Depth 2180'		Plug Back TD 2180'		Elevation 5932 GR	
Farm or Lease Name Cain				Well No. #20			
Comp. Size 4 1/2"	Wt. 10.50#	d	Set At 2180'	Perforations: From 2050' To 2070'		Unit Sec. Twp. Rge. M 15 28N 10W	
Tag. Size 1"	Wt. 1.70#	d	Set At 2076'	Perforations: From ---- To ----			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ----		County San Juan	
Producing Thru Casing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _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.	Temp. °F	
SI							410		420		<i>7.2</i> 3 Hours
1.	2"		3/4"				142		95		
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, Mcfd
1	12,365		107	1.0000	.9258	1.0000	1,225
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 <i>DEC 18 1973</i> _____
3					Specific Gravity Flowing Fluid <i>OIL CON. COM.</i> _____
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature <i>DIST. 3</i> _____ R _____ R

P _c 432	P _c ² 186,624					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1683$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,1413$
1	164	26,896	159,728			
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,398$

Absolute Open Flow	1,398	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
Remarks:				

Approved By Commission:	Conducted By:	Calculated By: <i>[Signature]</i>	Checked By:
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