

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

Form 7-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual											
Company: Aztec Oil & Gas Company						Connection: Southern Union Gathering					
Pool: Fulcher Kutz						Formation: Pictured Cliffs					
Completion Date: 11-1-77			Total Depth: 1739'			Flow Back TD: 1692'			Elevation: 5539' GR		
Form or Lease Name: Browning Stewart			Well No.: #5			Unit: P			Sec. Twp. Rge.: 10-T28N-R11W		
Csg. Size: 2.875	Wt.: 6.4#	d: 2.441	Set At: 1702'	Perforations: From 1622' To 1660'							
Log. Size: --	Wt.: --	d: --	Set At: --	Perforations: From -- To --							
Type well - Single - Broadhead - G.G. or G.O. Multiple: Single						County: San Juan			State: New Mexico		
Producing thru: Csg		Reservoir Temp. °F: 12.2		Mean Annual Temp. °F: 12.2		Basic Pressure - P _c : 12.2		Meter Run: 700			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run		Taps		

FLOW DATA						PRESS. 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
1.	2"	X	3/4"				140			
2.							78			1 hr
3.							69			2 hrs
4.							69			3 hrs
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mscf
1	12.365		81.2	1.000	.9258	1.0000	930
2.							
3							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon ratio	Mol/cu ft.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Gas	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 152.2 P _c ² 23,165				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		81.2	6,593	16,572
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3978$

ADP = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,236$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3293$

Absolute Open Flow: 1,236	Miscible Flow: Blowing light mist of H₂O	Slope, n: .85
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Approved By Commission:	Conducted By: Mike Cattaneo	Checked By: James Smith
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