

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 11-21-77	
Company Aztec Oil & Gas Company				Connection El Paso Natural Gas Company		
Pool Kutz				Formation Gallup		Unit
Completion Date 10-29-70		Total Depth 6754		Plug Back TD 6716		Elevation 6223 GR
Farm or Lease Name Hillside		Well No. #1				
Csq. Size 5.500	Wt. 14# 15.5#	d 5.012 4.950	Set At 6754	Perforations: From 5906 To 5914		Unit #1
Tbg. Size 2.0625	Wt. 3.25#	d 1.750	Set At 5880	Perforations: From ---- To ----		Unit Sec. Twp. Rge. J 09 27N 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 6515		County San Juan
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		State 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							298		367		
1.	2"		3/4"						48		1 Hour
2.									45		2 Hours
3.									40		3 Hours
4.											
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, Mcfd
1	12.365		52.2	1.0000	.9258	1.0000	598
2.							
3.							
4.							
5.							

NO.	P _t	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

$P_c = 379.2$ $P_c^2 = 143,793$				
NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		52.2	2,725	141,068
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0193$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 607$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0145$$

Absolute Open Flow	607	Mcf/d @ 15.025	Angle of Slope θ	75
Remarks:				

Approved By Commission:	Conducted By: Don Thompson	Calculated By: James W. Smith	Checked By:
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