

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 1-27-78	
Company Southland Royalty Company			Connection El Paso Natural Gas Company		
Pool Kutz			Formation Gallup		Unit
Completion Date 1-25-60		Total Depth 6744'		Plug Back TD 6650'	
Elevation 6130 GR		Farm or Lease Name Frontier "B"			
Csg. Size 7.000	Wt. 23#	d 6.366	Set At 6742'	Perforations: From 5856' To 5882'	
Tbg. Size 2.375	Wt. 4.70#	d 1.995	Set At 5969'	Perforations: From 5934' To 5956'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At 6360'	
Producing Thru Csg.		Reservoir Temp. °F @		Mean Annual Temp. °F 12.2	
Baro. Press. - P _a 12.2		State New Mexico			
L	H	Gg .700	% 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									583		
1.	2" X 3/4"								28		1 Hour
2.									14		2 Hours
3.									9		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		21.2	1.0000	.9258	1.0000	243
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 595.2 P _c ² 354,263				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		21.2	449	353,814
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0013$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 243$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0010$

Absolute Open Flow	243	Mcf @ 15.025	Angle of Slope θ	.75
Remarks:				

Approved By Commission:	Conducted By: Donnie Thompson	Calculated By: James Smith	Checked By:
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