

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 5-19-78	
Company Southland Royalty Company				Connection Southern Union Gathering	
Pool Blanco				Formation Mesa Verde	
Completion Date 5-8-78		Total Depth 5380'		Plug Back TD 5340'	
		Elevation 6150' GR		Farm or Lease Name Hubbard	
Casing Size 7.000 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2899 2773-5380	Perforations: From 4300' To 4499'	
Tub. Size 2.375	Wt. 4.7#	d 1.995	Set At 5271	Perforations: From 4919' To 5316'	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At -----	
Producing Thru Tbg		Reservoir Temp. °F 6		Mean Annual Temp. °F 12.2	
		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _g .700	% CO ₂	% N ₂	% H ₂ S
Provor		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							862		874		
1.	2" X 3/4"						228		788		1 hr
2.							218		761		2 hrs
3.							211		738		3 hrs
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		223.2	1.0000	.9258	1.0000	2555
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

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	886.2	750.2	562,800	222,550
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 3.5289$

AOIF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 6578$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.5747$

Absolute Open Flow	6578	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
--------------------	------	--------------	------------------	--------------

Remarks: _____

Approved By Commission	Conducted By Cliff Pistole	Calculated By James Smith	Checked By
------------------------	-------------------------------	------------------------------	----------------