

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

Form 6-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-29-78	
Company Southland Royalty Company				Connection Southern Union Gathering Co.			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 6-15-78		Total Depth 5177'		Plug Back TD 5046'		Elevation 6150' GR	
Farm or Lease Name Hubbard		Well No. 3A		Unit E		Sec. Twp. Rge. 15 32N 12W	
Csg. Size 7.000 4.500		Wt. 20# 10.5#		Set At 6.456 4.052		Perforations: From 4761' To 4989'	
Tbg. Size 2.375		Wt. 4.7#		Set At 1.995 4982'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At	
Producing Thru Tbg.						Baro. Press. - P _a 12.2	
L		H		G _g .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
1.	2" x 3/4"						982		1017		1 Hr.
2.							422		860		2 Hrs.
3.							403		820		3 Hrs.
4.							384		785		
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, Mcf/d
1.	12,365		396.2	1.0000	.9258	1.0000	4536
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	Specific Gravity Separator Gas _____ X X X X X X X X	Specific Gravity Flowing Fluid _____ X X X X X	Critical Pressure _____ P.S.I.A.	Critical Temperature _____ R
1.										
2.										
3.										
4.										
5.										

NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	1029.2	797.2	635,528	423,725	2.4999	1.9881
2.						
3.						
4.						
5.						

Absolute Open Flow				Angle of Slope	
9,018 Mcf/d @ 15.025				Slope, n = .75	

Remarks:			
Approved By Commission:	Conducted By: Cliff Pistole	Calculated By: James Smith	Checked By: