

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

Form C-172
 Revised 8-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-22-79	
Company Southland Royalty Company		Connection Southern Union Gathering Company	
Pool Blanco		Formation Mesa Verde	
Completion Date 4-15-79	Total Depth 5223'	Plug Back TD 5200'	Elevation 6098' GR
Farm or Lease Name Decker		Well No. 4A	
Csg. Size 7.000 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2778' 2636-5215'
Perforations: From 4766' To 5175'		Unit Sec. Twp. Rge. (A) 10-32N-12W	
Tbg. Size 2.375	Wt. 4.7#	d 1.995 5071'	Set At 5071'
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple		Packer Set At --	
Producing Thru Tbg.		Baro. Press. - P _a 12.2	
Reservoir Temp. °F @		Mean Annual Temp. °F @	
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	
SI							864				
1.	2" X 3/4"						284				1 hr
2.							265				2 hrs
3.							257				3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		269.2	1.0000	.9258	1.0000	3,082
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1042$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0772$
1		269.2	72,469	695,257		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,320$				Absolute Open Flow <u>3,320</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>75</u>
Remarks: _____						
Approved By Commission:		Conducted By: Tom Short		Calculated By: James Smith		Checked By: