

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 5-4-78			
Company Southland Royalty Company				Connection Southern Union Gathering				
Pool Blanco				Formation Mesa Verde				Unit
Completion Date 4-23-78		Total Depth 5458'		Plug Back TD 5457'		Elevation 6302'		Farm or Lease Name Decker
Casing Size 4.500	Wt. 20# 10.50	d 6.456 4.052	Set At 3118' 2966-5458	Perforations: From 4412' To 5053'			Well No. #1A	
Tubg. Size 2.375	Wt. 4.7	d 1.995	Set At 5480'	Perforations: From 5136' To 5373'			Unit Soc. Twp. Rge. P-14-32N-12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At -----		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F 0		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico
L	H	Gg .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							934		902		
1.	2"	X	3/4"				307		812		1 hr
2.							300		786		2 hrs
3.							285		771		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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.365		297.2	1.0000	.9258	1.0000	3,402
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

$P_c = 946.2$ $P_c^2 = 895,294$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.1760$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.3791$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		783.2	613,402	281,892				
2								
3								
4								
5								

$ADP = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8,094$				
Absolute Open Flow _____		8,094 Mcfd @ 15.025		Angle of Slope _____
				Slope, n _____ .75

Remarks: _____

Approved by Commission	Conducted by Cliff Pistole	Calculated by James Smith	Checked by
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