

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 9-14-78			
Company Southland Royalty Company				Connection Southern Union Gathering Company					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 8-31-78		Total Depth 5390'		Plug Back TD 5389'		Elevation 6050' GR		Farm or Lease Name Childers	
Gas Size 4.500	Wt. 23.0#	d 4.052	Set At 2965-5390'	Perforations: From 2817' To 2884'		Well No. 1A			
Trg. Size 1.660	Wt. 2.3#	d 1.380	Set At 2798'	Perforations: From To		Unit Sec. Twp. Rge. P 1, T31N, R11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple						Packer Set At 3090'		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F P		Mean Annual Temp. °F		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.	
SI							616		616	
1.	2"	X	3/4"				93		397	1 hr
2.							79		335	2 hrs
3.							69		301	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, Mcf/d
1	12.365		81.2	1.0000	.9258	1.0000	930
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

P _c 628.2 P _c ² 394,635					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3308$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2750$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,186$ SEP 14 1978			
1		313.2	98,094	296,541				
2								
3								
4								
5								

Absolute Open Flow 1,186		Mcf @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				

Approved By Commission	Conducted By Jim Bacon	Calculated By James Smith	Checked By:
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