

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

Form C-127
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-14-79	
Company Southland Royalty Company				Connection Southern Union Gathering Company			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 5-7-79		Total Depth 2627'		Plug Back TD 2350'		Elevation 5795' GR	
Farm or Lease Name Calloway							
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 2627'	Perforations: From 2456' To 2521'		Well No. 2	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 2469'	Perforations: From To		Unit A	Sec. 22
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 2363'		Twp. 31N	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
State New Mexico							
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.	
SI							820			
1.	2"	X	3/4"				85			
2.							60			
3.							51			
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		63.2	1.0000	.9258	1.0000	723
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 832.2 P_c^2 692,557				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		63.2	3,994	688,563
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0058$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 727$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0049$$

Absolute Open Flow	727	Mcf/d @ 15.025	Angle of Slope @
Remarks:			

Approved By Commission:	Conducted By: Mike Cattaneo	Calculated By:	Checked By:
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