

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 4-30-80	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 4-16-80		Total Depth 6590'		Plug Back TD 6587'		Elevation 5883' GR	
Farm or Lease Name McClanahan							
Well No. #17E							
Csg. Size 5.500	Wt. 24#	d 4.8920	Set At 6589'	Perforations: From To			
Tbg. Size 1.900	Wt. 2.76#	d 1.6100	Set At 4415'	Perforations: From 4309' To 4396'			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG- Multiple				Packer Set At 4518'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F 12.2		Baro. Press. - P _g 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							940		969	
1.	2" X 1/2"						71		898	1 Hour
2.							81		862	2 Hours
3.							83		835	3 Hours
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, Mc/d
1	5.4315		95.2	1.0000	.9258	1.0000	479
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 981.2 P _c 2962753.4				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		847.2	717747.8	245005.6
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.9295$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.7910$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1337$$

Absolute Open Flow 1337 Mc/d @ 15.025

Angle of Slope @ .75

1337

Remarks: _____

Approved By Commission:	Conducted By: Jim Choquette	Calculated By: James Smith	Checked By: L. O. Van Ryan
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