

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 5-15-80	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Basin				Formation Dakota		Unit
Completion Date 5-8-80		Total Depth 6680'		Plug Back TD 6637'		Elevation 5878' GR
Farm or Lease Name Cain		Well No. #10E				
Csq. Size 5.500	Wt. 15.5#	d 4.892	Set At 6680'	Perforations: From To		Unit Sec. Twp. Rge. F 15 - 28N - 10W
Tig. Size 2.375	Wt. 4.7#	d 1.995	Set At 6542'	Perforations: From 6387' To 6545'		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At --		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		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.		Temp. °F
1.	2" X 1 1/2"						651		809		1 Hour
2.							249		506		2 Hours
3.							160		459		3 Hours
4.							133		437		
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	5.4315		145.2	1.0000	.9258	1.0000	730
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.4270$ (2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.3056$ AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 953$
1		449.2	201780.6	472588.8	
2					
3					
4					
5					

Absolute Open Flow	953	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
Remarks:				

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