

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 3-14-80			
Company Southland Royalty Company				Connection Southern Union Gathering				
Pool Basin				Formation Dakota				Unit
Completion Date 3-7-80		Total Depth 6483'		Plug Back TD 6440'		Elevation 5742' GR		Farm or Lease Name Aztec
Csg. Size 8.652 4.5000	Wt. 24# 10.5#	d 7.981 4.052	Set At 242' 6481'	Perforations: From To		Well No. #8E		
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 6415'	Perforations: From 6250' To 6416'		Unit Sec. Twp. Rq. H 14, 28N, 11W		
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single					Packer Set At ----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		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							535		595	
1.	2" X 3/4"						73		329	1 Hour
2.							49		292	2 Hours
3.							48		261	3 Hours
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		60.2	1.0000	.9258	1.0000	689
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.
5.					Critical Temperature _____ R

P _c 607.2	P _c ² 368691.8	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2538$	(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.849$
NO	P _i ²	P _w	P _w ²
1		273.2	74638.2
2			
3			
4			
5			

Absolute Open Flow 816 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By:
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