

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 12-18-79	
Company Southland Royalty Company				Connection Northwest Pipeline Corporation			
Pool Basin				Formation Dakota		Unit	
Completion Date 12-11-79		Total Depth 4885'		Plug Back TD 4883'		Elevation 6180' GR	
Farm or Lease Name State Line		Well No. 1		Perforations: From 4617' To 4808'		Unit Sec. Twp. Rge. D 13 32N 13W	
Csg. Size 7.000 4.500	Wt. 10.20# 10.50#	d 6.456 4.052	Set At 3106' 2939-4885'	Perforations: From ---- To ----		County San Juan	
Tbg. Size 2.375	Wt. 4.70#	d 1.995	Set At 4795'	Perforations: From ---- To ----		State New Mexico	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ----		Prover Meter Run Taps	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F 12.2		Baro. Press. - P _a 12.2	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S		

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	
SI							1000		989		
1.	2"	X	3/4"				123		304		3 Hrs
2.											
3.											
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		135.2	1.0000	.9258	1.0000	1548
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

$P_c = 1012.2$ $P_c^2 = 1024548.8$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1081$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0800$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		316.2	99982.4	924566.4				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1672$				
Absolute Open Flow		Mcfd @ 15.025		Slope, n
1672				.75

Remarks:			

Approved By Commission:	Conducted By: Leroy Castleman	Calculated By: James Smith	Checked By:
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