

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

Form O-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-5-79	
Company Southland Royalty Company				Connection El Paso Natural Gas Company		
Pool Basin				Formation Dakota		Unit
Completion Date 7-5-79		Total Depth 7832'		Plug Back TD 7796'		Elevation 6307'
Farm or Lease Name Hale						Well No. #5
Csg. Size 7.000 4.500	Wt. 23# 10.5#	d 6.366 4.052	Set At 3473 3339-7831	Perforations: From 7606' To 7780'		Unit Sec. Twp. Rge. M Sec. 34-31N-8W
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 7760'	Perforations: From To		County San Juan
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		State New Mexico
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1470		1470		
1.	2" X 3/4"						159		610		1 hr
2.							110		395		2 hrs
3.							85		290		3 hrs
4.											
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	12.365		97.2	1.0000	.9258	1.0000	1113
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

$P_c = 1482.2$ $P_c^2 = 2,196,917$					$(1) \frac{P_c^2}{P_e^2 - P_w^2} = 1.0434$		$(2) \frac{P_c^2}{P_e^2 - P_w^2} = 1.0324$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²				
1		302.2	91,325	2,105,592				
2								
3								
4								
5								

AOF = Q $\left[\frac{P_e^2}{P_c^2 - P_w^2} \right]^n = 1,149$

Absolute Open Flow 1,149 Mcfd @ 15.025 Angle of Slope θ _____

RECEIVED

JUL 20 1979

OIL CON. COM.

DIST. 3

Slope n .75

Remarks:	
Approved By Commission:	Conducted By: Dwayne Horton
Calculated By: James Smith	Checked By: <i>[Signature]</i>