

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 8-4-79	
Company Southland Royalty Company				Connection El Paso Natural Gas Company		
Pool Basin				Formation Dakota		Unit
Completion Date 7-28-79		Total Depth 8237'		Plug Back TD 8197'		Elevation 6650' GR
Csg. Size 4.500		Wt. 20 # 10.5#		d 6.456 4.052		Set At 6231' 5079-8234'
Perforations: From 8124' To 8142'		Well No. 5				
Tbg. Size 2.375		Wt. 4.70#		d 1.995		Set At 8134'
Perforations: From ----- To -----		Unit C		Sec. 13		Twp. 32N
Type Well - Single - Broadhead - G.G. or G.O. Multiple G. G. Multiple		Packer Set At 6165'		County San Juan		
Producing Thru Tbg		Reservoir Temp. *F @		Mean Annual Temp. *F @		Baro. Press. - P _a 12.2
State New Mexico		Prover Meter Run		Taps		
L		H		Gg		% CO ₂
				.700		% 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							1365			
1.	2" X 3/4"						19			1 hr
2.							8			2 hrs
3.							8			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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		20.2	1.0000	.9258	1.0000	231
2.							
3.							
4.							
5.							

NO.	P _t	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

$P_c = 1377.2$ $P_c^2 = 1,896,680$				
NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		20.2	408	1896272
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0002$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 231$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0002$

Absolute Open Flow	231	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
Remarks: Water				

Approved By Commission:	Conducted By: Donnie Thompson	Calculated By: James Smith	Checked By:
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