

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 8-1-79	
Company Southland Royalty Company				Connection El Paso Natural Gas Company		
Pool Undesignated				Formation Fruitland		Unit
Completion Date 7-25-79		Total Depth 2850'		Plug Back TD 2839'		Elevation 6185' GR
Csg. Size 2.875	Wt. 6.5#	d 2.441	Set At 2620'	Perforations: From 2488' To 2502'		Well No. 3
Thq. Size ----	Wt. ---	d ---	Set At ----	Perforations: From To		Unit Sec. Twp. R1/4 A 23 31N 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At ---		County San Juan
Producing Thru Csg		Reservoir Temp. °F @		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	
SI									865		
1.	2" X 3/4"								135		1 hr
2.									118		2 hrs
3.									95		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		107.2	1.0000	.9258	1.0000	1227
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

$P_c = 877.2$ $P_c^2 = 769,480$				
NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		107.2	11492	757988
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0152$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1243$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0129$$

Absolute Open Flow	1243	Mcfd @ 15.025	Angle of Slope @	85
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Remarks: _____

Approved By Commission:	Conducted By: Mick Ferrari	Calculated By: James Smith	Checked By:
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