

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 11-13-78	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 10-30-78		Total Depth 7225'		Plug Back TD 7176'		Elevation 6122' GR
Farm or Lease Name Grenier A		Well No. 8		Perforations: From 4384' To 4741'		
Csg. Size 4.500	Wt. 23# 10.5#	d 6.366 4.052	Set At 5346' 5198-7225	Perforations: From 4920' To 5133'		Unit Soc. Twp. Rge. F - 35 - 30N - 10W
Tbg. Size 1.900	Wt. 2.76#	d 1.610	Set At 5117'			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At 5263'		County San Juan County
Producing Thru Tbg.		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.	
SI							1028		1012	
1.	2"	X	3/4"				219		821	1 hr
2.							186		771	2 hrs
3.							114		765	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		126.2	1.0000	.9258	1.0000	1,445
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

$P_c = 1,040.2 \quad P_c^2 = 1,082,016$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		777.2	604,040	447,976
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2637$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,667$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8455$

Absolute Open Flow	2,667	Mcfd @ 15.025	Angle of Slope θ	Slope, n
Remarks: Small amount of H ₂ S & oil				

Approved By Commission:	Conducted By: Abe Saiz	Calculated By: James Smith	Checked By:
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