

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 10-25-78	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Blanco		Formation Mesaverde	
Completion Date 10-18-78		Total Depth 4651'	Flow Back TD 4576'
		Elevation 5701' GR	Form or Lease Name Cain
Coq. Size 7.000	Wt. 20#	d 6.456	Set At 2292'
4.500	10.50#	4.052	2113-4648'
Perforations: From 4050' To 4515'		Well No. 3R	
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 4449'
Perforations: From To		Unit Sec. Twp. Rge. I 30, T29N, R9W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Pecker Set At ---
Producing Thru Tbg.			County San Juan
Reservoir Temp. °F s		Mean Annual Temp. °F	State New Mexico
L	H	G _s .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	
5i							880		880		
1.	2"	X	3/4"				454		582		1 hr
2.							223		516		2 hrs
3.							192		482		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	12.365		204.2	1.0000	.9258	1.0000	2,358
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flooding Fluid _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 892.2	P _c ² 796,021	
NO.	P _c ²	P _w ²
1		494.2
2		244,234
3		551,787
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4426$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3163$$

$$Q = 3,078$$

Absolute Open Flow	3,078	Mscf @ 14.7 psia	Angle of Slope	Slope, n	.75
Remarks:					

Approved By Commission	Conducted By: Mike Cattaneo	Calculated By: James Smith	Checked By:
------------------------	--------------------------------	-------------------------------	-------------