

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

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/6/78			
Company Bolin Oil Company				Connection not connected			
Pool Blanco				Formation Mesaverde		Unit	
Completion Date 1/30/78		Total Depth 5230' KB		Plug Back TD 5150' KB		Elevation 6498' GL	
Farm or Lease Name Candado							
Csg. Size 5 1/2"	Wt. 15.5#	d 1.610	Set At 5212' DF	Perforations: From 5014' To 5078'		Well No. 20-A	
Tbg. Size 1 1/2"	Wt. 2.9#	d 1.610	Set At 5050' KB	Perforations: From To		Unit Sec. Twp. Rge. 0 3 26N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 3809' KB		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a State New Mexico	
L	H	G _g	% 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							1063#				7 days
1.	2"	X	3/4"				32#	40			3 hrs.
2.											
3.											
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 _{sc}	Rate of Flow Mbd
1	12.3650		44	1.0198	1.0000	1.0000	555
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature R
1.										
2.										
3.										
4.										
5.										

P _c 1075 P _c ² 1155625			
NO.	P _r ²	P _w	P _w ²
1	1936	140	19600
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_r^2 - P_w^2} = \frac{1.0173}{1.0129}$$

$$AOF = Q \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 562$$

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

Absolute Open Flow	562	Mcl @ 15.025	Angle of Slope	Slope, n .75
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Remarks:

Approved by Commission:	Conducted by: F. P. Crum, Jr.	Calculated by:	Checked by:
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