

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-31-77	
Company Jerome P. McHugh				Connection		
Pool Undesignated Fruitland				Formation Fruitland		Unit
Completion Date 8-23-77		Total Depth 1370'		Plug Back TD 1304'		Elevation Bengal C
Csg. Size 2-7/8"	Wt. 6.4#	d 1343'	Set At 1343'	Perforations: From 1079' To 1130'		Well No. 5
Thq. Size 1-1/4"	Wt. 2.4#	d 1.380	Set At 1130'	Perforations: From Open End To		Unit Sec. Twp. Rge. O 36 27N 13W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _g New Mexico
L	H	G _q .62 est	% 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
1.							305		320		7 days
2.											
3.	5/8" Pos Choke			2		64°			70		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.							
2.							
3.	8.5417		14	.9962	.9837	1.0000	117
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 332	P _c ² 110,224	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0650$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0550$
NO.	P _t ²	P _w	P _w ²
1.			
2.			
3.	82	6,724	103,500
4.			
5.			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 123$

Absolute Open Flow 123 Mcfd @ 15.025 Angle of Slope 0.85

Remarks:

Approved By Commission: Charles Hall Conducted By: Jim L. Jacobs Calculated By: Checked By: