

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 7-14-77			
Company Jerome P. McHugh				Connection					
Pool Choza Mesa				Formation Pictured Cliffs				Unit	
Completion Date 6-25-77		Total Depth 6360'		Plug Back TD 3972'		Elevation 7068' GR		Farm or Lease Name Burke	
Csg. Size 4-1/2"	Wt. 10.5#	d	Set At 4017'	Perforations: From 3704' To 3722'		Well No. 2			
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 3618'	Perforations: From Open End To		Unit Sec. Twp. Rye. B 5 28N 3W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .62	% 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							1070		1070		7 days
1.											
2.											
3.	5/8" Pos Choke						30	66°	330		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, Mcfd
1							
2							
3	8.5417		42	.9943	.9837	1.000	351
4							
5							

NO.	P _r	Temp. °R	T _r	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

$P_c = 1082$ $P_c^2 = 1,170,724$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1109$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0935$	
NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$				
1							
2							
3	342	116,964	1,053,760	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 384$			
4							
5							

Absolute Open Flow _____ 384 _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n _____ .85	
Remarks _____					

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