

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 2-29-72	
Company Manning Gas and Oil Co.				Connection Waiting on Pipeline		
Pool So. Blanco P. C.				Formation Pictured Cliffs		Unit
Completion Date 2-13-72		Total Depth 3110		Plug Back TD 3049		Elevation 6810' KB
Comp. Date 4.500	Wt. 9.50	d 3.500	Set At 3093'	Perforations: From 2966 To 2992		Well No. 10
Tbg. Size 1.250	Wt. 2.40	d 1.380	Set At 2985	Perforations: From 2982 To 2985		Unit Sec. Twp. Rge. K 12 24N 4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F 95 @ 3110		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0
State New Mexico						
L --	H --	G _g Est. 0.650	% CO ₂ --	% N ₂ --	% H ₂ S --	Prover --
Meter Run --		Type --				

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							1030		1035		14 days
1.	3/4" T.C. Choke					60	203		568		3 hr.
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 _{pv}	Rate of Flow Q, Mcfd
1	12.3560		215	1.0000	0.9608		2,552
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

$P_c = 1047$ $P_c^2 = 1,096,209$					RECEIVED MAR 2 1972	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4427$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3655$
1		580	336,400	759,809		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,485$			
Absolute Open Flow <u>3,485</u> Mcfd @ 15.025		Angle of Slope θ <u>--</u>	
Slope, n <u>0.85</u>			
Remarks:			
Approved By Commission:		Conducted By: Ewell N. Walsh	
Calculated By: Ewell N. Walsh		Checked By:	