

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 2-27-73	
Company Manning Gas & Oil Co.				Connection Waiting on Pipeline		
Pool So. Blanco P. C.				Formation Pictured Cliffs		Unit
Completion Date 2-2-73		Total Depth 3175		Plug Back TD 3124		Elevation 6868 KB
Csg. Size 4.500	Wt. 9.50	d 4.090	Set At 3161	Perforations: From 3072 To 3100		Well No. 11
Tbg. Size 1.900	Wt. 2.90	d 1.610	Set At 3077	Perforations: From 3074 To 3077		Unit Sec. Twp. Rge. P 2 24N 4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 3158		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0
State New Mexico						
L 3180	H 3180	Gg 0.690	% 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							996		1004		25 da.
1.	0.750T.G.					60	186		556		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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.3650		198	1.000	0.9325	1.0000	2,283
2.							
3.							
4.							
5.							

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

P _c 1004 P _c ² 1,008,016					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4707$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3588$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		568	322,624	685,392				
2								
3								
4								
5								

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,102$				
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Absolute Open Flow 3,102 Mcfd @ 15.025		Angle of Slope ϕ	Slope, n 0.85
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Remarks:		Registered Professional Engineer, St. of N.M., Reg. No. 4324	
Approved By Commission:	Conducted By: Dewey Smith	Calculated By: Ewell N. Walsh	Checked By:

