

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

Form No. 1
1-6-66

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-4-76	
Company Manning Gas & Oil Co.		Connection Waiting on pipeline	
Pool So. Blanco P.C		Formation Pictured Cliffs	
Completion Date 4-15-76		Total Depth 3200'	Plug Back TD 3160
		Elevation 6862' K.B.	Farm or Lease Name Apache
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 3188.90
Perforations: From 3071' To 3099'		Well No. 14	
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 3097
Perforations: From 3093 To 3096		Unit Sec. Twp. Rge. E 3 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 92 @ 3200	Mean Annual Temp. °F -	Baro. Press. - P _a 12.0
State New Mexico			
L 3093	H 3093	Gg 0.72	% 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.	3/4" T.H.C.						930		930		8 da.
2.							101	60	600		3 hrs.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd	
1	12.365	113	1.0000	0.9129	1.0000	1.276	
2.							
3.							
4.							
5.							

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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	

NO.	P _c	P _w	P _r ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	942	887.364	612	374,544	512,820	1.7303	1.5937
2							
3							
4							
5							

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.034$	
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Absolute Oper. Flow	2.034	Mcf/d @ 15.025	Angle of Slope ϕ	Slope, n 0.85
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Remarks:			

Approved By Commission:	Conducted By: H. Williams	Calculated By: Ewell N. Walsh	Checked By:
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