

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 12-10-76				
Company Dugan Production Corp.				Connection					
Pool NIPP PC Extension				Formation Pictured Cliffs				Unit	
Completion Date 12-3-76		Total Depth 1353'		Plug Back TD 1324'		Elevation 6241' GR		Farm or Lease Name Martha Washington	
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 1348'	Perforations: From 1218' To 1238'			Well No. 1		
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 1249'	Perforations: From Open To Ended			Unit Sec. Twp. Rge. A 34 26N 12W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
			.62						

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							200		229		7 days
1.											
2.											
3.	1/2" Pos Choke						14	52°	45		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	5.4315		26	1.008	.9837	1.000	140
4							
5							

NO.	P _t	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 241	P _c ² 58,081				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1					
2					
3		57	3,249	54,832	
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0592$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 147$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0500$

Absolute Open Flow 147	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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DEC 3 1976

OIL CON. COM.

DIST. 3

Remarks:			
Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By: