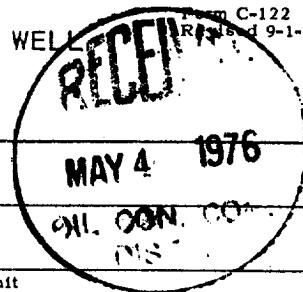


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-27-76			
Company Dugan Production Corp.				Connection			
Pool Wildcat				Formation Pictured Cliffs		Unit	
Completion Date 3-26-76		Total Depth 1240'		Plug Back TD 1215'		Elevation 6213' GR	
Farm or Lease Name Red Mac		Well No. 2		Perforations: From 1141' To 1162'			
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 1233'	Perforations: From Open Ended To		Unit Sec. Twp. Rge. B G 3 25N 12W	
Tbg. Size 1-1/4"	Wt. 2.3#	d	Set At 1185'				
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							80		180		7 days
1.											
2.											
3.	5/8" Pos Choke					60°	1		20		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2.							
3.	8.5417		12	1.000	.9837	1.000	100
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 192	P _c ² 36,864		
NO.	P _t ²	P _w	P _w ²
1			
2			
3	32	1024	35,840
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0285}{1.0241}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0285}{1.0241}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 102$$

Absolute Open Flow	102	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
Remarks:				
Approved By Commission:	Conducted By:	Calculated By:	Checked By:	
	Charles Hall	Charles Hall		