

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

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 2-2-80					
Company Dugan Production Corp.			Connection						
Pool Undesignated			Formation Pictured Cliffs		Unit				
Completion Date 1-15-80		Total Depth 2103	Plug Back TD 2054	Elevation 5907					
Csg. Size 2-7/8"	Wt. 6.5	d	Set At 2103	Perforations: From 1846 To 1994					
Tbg. Size None	Wt.	d	Set At	Perforations: From To					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas			Packer Set At none		Well No. 1				
Producing Thru CSG		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a New Mexico					
L	H	G _g 65	% 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
SI							485		
1.									
2.									
3.	1/2					54		19	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	5.4315		31	1.0058	0.9608	1.000		163	
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.				
5					Critical Temperature _____ R				
P _c	497	P _c ²	247009						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0039$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0033$		
1									
2			961	246,048					
3									
4									
5									
Absolute Open Flow				164	Mcf @ 15.025	Angle of Slope @		Slope, n	
Remarks: <u>flowing by heads</u>									
Approved By Commission:			Conducted By: Dugan		Calculated By: Dugan		Checked By:		

