

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 12-7-76	
Company Dugan Production Corp.				Connection	
Pool Undesignated - PC				Formation Pictured Cliffs	
Completion Date 11-16-76		Total Depth 2067'		Plug Back TD 2015'	
				Elevation 6797' GR	
Farm or Lease Name Mesa				Well No. 3	
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 2066'	Perforations: From 1893' To 1895.5'	
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 1924'	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F	
				Baro. Press. - P _a	
L		H	G _g .62 est	% CO ₂	% N ₂
				% H ₂ S	Prover
				Meter Run	Taps
FLOW DATA			TUBING DATA		CASING DATA
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.
1.					
2.	5/8" Pos Choke		8	60°	113
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 F _g
				Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.					
2.	8.5417		20	1.000	.9837
3.					1.000
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
$P_c = 553$ $P_c^2 = 305,809$					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0538$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n^{.85}} = 1.0456$
1.					
2.		125	15,625		
3.					
4.					
5.					
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 176$					
Absolute Open Flow 176 Mcfd @ 15.025 Angle of Slope θ Slope, n .85					
Remarks:					
Approved By Commission:		Conducted By: Jim L. Jacobs		Calculated By: Jim L. Jacobs	
				Checked By:	