

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-9-75			
Company Dugan Production Corp.				Connection					
Pool Undesignated				Formation Pictured Cliffs				Unit	
Completion Date 6-25-75		Total Depth 1240'		Plug Back TD 1172'		Elevation 6120' GR		Farm or Lease Name Old Hickory	
Csg. Size 2-7/8"	Wt. 6.4#	d 2.441	Set At 1193' GR	Perforations: From 1089' To 1093'			Well No. 1		
Tbg. Size None	Wt.	d	Set At	Perforations: From To			Unit F	Sec. Twp. Rge. 33 26N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County San Juan	
Producing Thru		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g .63 est	% 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
SI									231		7 days
1.											
2.	5/8" Pos Choke			24		63°					3 hrs
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		36	.9971	.9759	1.000	299
3.							
4.							
5.							

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 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 243 P _c ² 59,049				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0224$		(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0189$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1							
2		36	1296	57,753			
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 305$

Absolute Open Flow 305 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:
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