

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 10-24-72	
Company Dugan Production Corp.				Connection	
Pool Undesignated P.C.				Formation Pictured Cliffs	
Completion Date 10-11-72		Total Depth 591'		Elevation 5621 GR	
Csg. Size 2 7/8" O.D.		Wt. 5.9#		Perforations: From 544 To 591	
Tbg. Size None		Wt. None		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru		Reservoir Temp. °F @		Baro. Press. - P _a	
L		H		County San Juan	
Gg		% CO ₂		State New Mexico	
.62		% N ₂		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	
1.											
2.											
3.	5/8" Pos. Choke			41		60°					3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w F_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.							
2.							
3.	8.5417		53	1.000	.9837	1.000	445
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	
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 87	P _c ² 7569			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.		2809	4760	
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.5901}{1.5901 - 1.5901} = \frac{1.5901}{0} = \text{undefined}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{.85}{1.4831} = 0.573$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{657}{1.4831} = 443$$

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Absolute Open Flow 657	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n .85
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Remarks: Pt = Pw Friction Negligible			
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Approved By Commission:	Conducted By: Jim L. Jacobs	Calculated By: Jim L. Jacobs	Checked By:
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