

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 6-4-76			
Company Dugan Production Corp.				Connection			
Pool WAW				Formation Pictured Cliffs			
Completion Date 5-28-76		Total Depth 1864'		Plug Back TD 1400'		Elevation	
Csg. Size 2-7/8"		Wt. 6.4#		Set At 1844'		Perforations: From 1256' To 1306'	
Trg. Size 1-1/4"		Wt. 2.3#		Set At 1240'		Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		Well No. 1	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g		County San Juan	
				% CO ₂		State New Mexico	
				% N ₂			
				% H ₂ S		Prover	
						Meter Run	
						Days	

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.									235		7 days
2.											
3.	5/8" Pos Choke			10		68°			10		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.	8.5417		22	.9924	.9837	1.00	183
4.							
5.							

NO.	P _t	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.		22	484	60,525
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.01}{1.01 - 0.0004} = 1.01$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \left[\frac{1.01}{1.01 - 0.0004} \right]^{.85} = 1.0084$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 184$$

Absolute Open Flow	184	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
Remarks:				

Approved By Commission:	Conducted By: Thomas A. Dugan	Calculated By: Thomas A. Dugan	Checked By:
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