

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-23-83	
Company Dugan Production Corp.				Connection	
Pool Undesignated				Formation Pictured Cliffs	
Completion Date 4-23-83		Total Depth 2814'		Plug Back TD 2270	
		Elevation 6729		Farm or Lease Name Elwood P. Dowd	
Coq. Size 2-7/8"	Wt. 6.4	d 2.441	Set At 2814	Perforations: From 1740 To 1744	
Thq. Size 1 1/4"	Wt. 2.4	d 1.380	Set At 1750	Perforations: From open ended To	
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		State NM	
L	H	Gg 0.62 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							194		468		
1.											
2.											
3.			1/2				2		184	60	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	5.4315		14	1.000	.9837	1.000	75
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 480	P _c ² 230,400		
NO.	P _t ²	P _w	P _w ²
1			
2			
3	196	38,416	191,984
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2001$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 88$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1677$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope _____	Slope, n .85
Remarks: Very wet - slugging water		

Approved By Division	Conducted By: Dugan	Calculated By:	Checked By:
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