

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-29-83	
Company Dugan Production Corp.		Connection	
Pool Wildcat		Formation Pictured Cliffs	
Completion Date		Total Depth 1321'	Plug Back TD 1285'
		Elevation 5846'	Unit CON. DIV.
Ceq. Size 2-7/8"		Wt. 6.4#	Set At 1321'
Perforations: From 929' To 1187'		Well No. 3	
Thg. Size		Wt.	Set At
Perforations: From To		Unit A	Sec. 33
		Twp. 27N	Rge. 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing Thru Casing		County San Juan	
Reservoir Temp. °F		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	G _g .62	% 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									340		7 days
1.											
2.											
3.	1/2 Pos. Choke								1	78°	3 hrs.
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							
3	5.4312		13	.9741	.9837	1.000	68
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 352	P _c ² 123904	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0014$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{85}{1.0012}$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3		13	169	123735
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 68$

Absolute Open Flow 68	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks: _____

Approved By Division	Conducted By: C. Hall	Calculated By: C. Hall	Checked By:
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