

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-22-83	
Company DUGAN PRODUCTION CORP.		Connection	
Pool Fulcher Kutz		Formation Pictured Cliffs	
Completion Date 12-15-83		Total Depth 2020'	Plug Back TD 1976'
Elevation 5712' GL		Farm or Lease Name Hana	
Csq. Size 2-7/8"	Wt. 6.4#	d 2.441	Set At 2017'
Perforations: From 1858 To 1861		Well No. 1	
Tog. Size 1-1/4"	Wt. 2.4#	d 1.380	Set At 1848
Perforations: From Open end To		Unit B Sec. 18 Twp. 29N Rye. 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - gas/gas		Packer Set At 1848'	
Producing Thru tubing		County San Juan	
Reservoir Temp. °F		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	G _g .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							164		600		7 days
1.											
2.									600	60°	3 hrs
3.	1/2" pos. choke			22							
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	5.4315		34	1.000	.9837	1.000	182
4							
5							

NO.	P _t	Temp. °R	T _t	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 176	P _c ² 30,976	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0388$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0329$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3	1156		1156	29,820
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 188$

Absolute Open Flow 188 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: This is lower zone of dual completion - P_t² = P_w²
Friction negligible

Approved By Division	Conducted By:	Calculated By: Jacobs	Checked By:
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