

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-4-80			
Company Dugan Production Corp.				Connection					
Pool WAW Fruitland PC				Formation				Unit	
Completion Date 12-28-79		Total Depth 1300'		Plug Back TD 1245'		Elevation 6018'		Farm or Lease Name Irish	
Coq. Size 2-7/8"	Wt. 6.5#	d	Set At 1275'	Perforations: From 874 To 889'		Well No. 1J			
Thg. Size 1-1/4"	Wt. 2.4#	d	Set At 899'	Perforations: From Open To End		Unit Sec. Twp. Rge. D 12 26 13			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Gas						Packer Set At		County San Juan	
Producing Thru tbg		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .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							299		299		7 days
1.											
2.											
3.	1/2" Pos Choke						5	420	13		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	5.4315		17	1.018	.9837	1.000	92
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 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	P _w	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0065$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0055$
1						
2						
3		25	625	96096		
4						
5						

Absolute Open Flow 93 Mcfd @ 15.025 Angle of Slope 85
 Remarks: dry throughout test
 Approved by Division _____ Conducted by: _____ Calculated by: _____ Checked by: _____