

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-30-80			
Company Dugan Production Corp.				Connection					
Pool WAW PC				Formation PC				Unit	
Completion Date 6-5-80		Total Depth 1420'		Plug Back TD 1377'		Elevation 6108' GL		Farm or Lease Name Kingfish	
Coq. Size 2-7/8"	Wt. 6.5#	d	Set At 1416'	Perforations: From 1278 To 1288		Well No. #1			
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 1286'	Perforations: From Open To End		Unit Sec. Twp. Rge. G 3 26N 13W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru tbg		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tape	
.62									

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							189		189		7 days
1.											
2.											
3.	1/2" Pos Choke						7	62	17		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		19	.9981	.9837	1.000	101
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 _____ °F

NO.	P _i ²	P _w ²	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.0212$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.0178$
1.						
2.						
3.		29	841	39560		
4.						
5.						

Absolute Open Flow _____ 102 _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n .85	
Remarks: _____					
Approved By Division		Conducted By:		Calculated By:	

