

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-26-80	
Company Dugan Production Corp.				Connection			
Pool Undesignated				Formation Fruitland		Unit	
Completion Date 7-17-80		Total Depth 1100'		Plug Back TD 800'		Elevation 5628' GL	
Csg. Size 2-7/8"		Wt. 6.5#		Set At 1097'		Perforations: From 564 To 578	
Tbg. Size 1-1/4"		Wt. 2.4#		Set At 553'		Perforations: From Open To End	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At	
Producing thru tbg		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g .65		% 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.
1.							
2.							
3.	1/2" Pos choke			1.5		600	
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		13.5	1.000	.9608	1.000	70
4.							
5.							
NO.	P _t	Temp. °F	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.					Specific Gravity Separator Gas _____		
3.					Specific Gravity Flowing Fluid _____		
4.					Critical Pressure _____ P.S.I.A.		
5.					Critical Temperature _____ °F		
$P_c = 100$ $P_c^2 = 10,000$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0559$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0473$		
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 73$		
1.							
2.							
3.		23	529	9471			
4.							
5.							
Absolute Open Flow _____ 73 _____ Mcfd @ 15.025					Angle of Slope θ _____		Slope, n _____ 85
Remarks _____							
Approved By Division		Conducted By: Jacobs		Calculated By: Jacobs		Checked By:	