

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-16-76			
Company Dugan Production Corp.				Connection			
Pool Bedford Kutz <i>ex</i>				Formation Fruitland			
Completion Date 2-24-76		Total Depth 1580'		Plug Back TD 1560'		Elevation 5751' GR	
Csg. Size 7"		Wt. 26#		Set At 1560'		Perforations: From 1515' To 1521'	
Tbg. Size 2-7/8"		Wt. 6.5#		Set At 1473'		Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 1469'		Well No. 1	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a	
County San Juan		State New Mexico					
L		H		Gg		% CO ₂	
				.62			
				% 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							550		---	---	7 days
1.											
2.											
3.	3/4" Pos Choke						15	60°	---	---	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	12.365		27	1.000	.9837	1.000	328
4							
5							

NO.	P _f	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 _____ R _____ R	

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	562	315,844				1.0023	1.0019
2							
3		27		729	315,115		
4							
5							

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 328$

Absolute Open Flow 328 Mcfd @ 15.025		Angle of Slope Θ _____		Slope, n .85	
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Remarks: _____

Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By: Thomas A. Dugan
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