

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-15-77	
Company Dugan Production Corp.				Connection	
Pool Undesignated Fruitland				Formation Fruitland	
Completion Date 2-8-77		Total Depth 1325'		Plug Back TD 1300'	
				Elevation 6100' GR	
Farm or Lease Name Benjamin Franklin					
Csg. Size 2-7/8"	Wt. 6.5#	d 1.380	Set At 1325'	Perforations: From 1247' To 1251'	
Tbg. Size 1-1/4"	Wt. 2.3#	d 1.380	Set At 1249'	Perforations: From Open End To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @		Baro. Press. - P _a	
				State New Mexico	
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
1.							300		375		7 days
2.											
3.	5/8" Pos Choke			3		54°			47		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.	8.5417		15	1.0060	.9837	1.000	127
4.							
5.							

NO.	P _r	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 _t	P _w	P _w ²	P _c ² - P _w ²
1.	387				
2.					
3.		59	3481	146,288	
4.					
5.					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0238}{1.0238 - 1.0202} = 1.0238$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0238}{1.0238 - 1.0202} = 1.0202$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 129$$

Absolute Open Flow 129 Mcfd @ 15.025

Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By: Charles Hall	Calculated By: Jim Jacobs	Checked By:
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