

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 5-3-73	
Company Dugan Production Corp				Connection	
Pool South Gallegas-Fruitland				Formation Fruitland	
Completion Date 4-18-73		Total Depth 1290		Plug Back TD 1275	
Elevation 5989.66		Farm or Lease Name Bengal "A"			
Csg. Size 2 7/8"	Wt. 6.54	d 1287	Set At 1287	Perforations: From 1226 To 1236	
Thq. Size 1 1/4"	Wt. 2.44	d 1.380"	Set At 1244	Perforations: From Open End To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru		Reservoir Temp. °F @		Baro. Press. - P _a	
L		H		State New Mexico	
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.	
1.							257		272	
2.	5/8" Pos. Chole			44		64°			91	
3.										
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	8.5417		56	.9962	.9837	1.0000	469
3							
4							
5							

NO.	P _t	Temp. °R	T _t	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 _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2		10.3	10,609	70,047
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1515$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 529$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.15} = 1.1273$

Absolute Open Flow	529	Mcf @ 15.025	Angle of Slope @	Slope, n	85
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Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. P. G. B.	J. P. G. B.	

