

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 7-13-77				
Company Dugan Production Corp.				Connection					
Pool Potwin Pictured Cliffs				Formation Pictured Cliffs				Unit	
Completion Date 6-30-77		Total Depth 2130'		Plug Back TD 2039'		Elevation 6901' GR		Farm or Lease Name Mesa	
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 2112'	Perforations: From 2013' To 2023'				Well No. 2	
Tbg. Size 1-1/4"	Wt. 2.3#	d	Set At 2023'	Perforations: From Open End To				Unit Sec. Twp. Rge. C 16 24N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _g		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.							560		560		7 days
2.											
3.	5/8" Pos Choke			25		70°			250		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.	8.5417		37	.9837	.9905	1.000	308
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

P _c 572		P _c ² 327,184		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2655$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2216$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²			
1.							
2.							
3.		262	68,644	258,540	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 376$		
4.							
5.							

Absolute Open Flow 376		Mcf/d @ 15.025		Angle of Slope θ		Slope, n .85	
Remarks:							
Approved By Commission:		Conducted By: Charles Hall		Calculated By: Jim L. Jacobs		Checked By:	