

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 6-11-77			
Company Dugan Production Corp.				Connection					
Pool Ojo Pictured Cliffs				Formation Pictured Cliffs				Unit	
Completion Date 6-3-77		Total Depth 482'		Plug Back TD 482'		Elevation		Farm or Lease Name Pet Inc	
Csg. Size 3-1/2"	Wt. 7.7#	d	Set At 482'	Perforations: From 462' To 482'		Well No. 10			
Tbg. Size 1-1/4"	Wt. 2.3#	d	Set At 462'	Perforations: From Open End To		Unit Sec. Twp. Rge. C 26 28N 15W			
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 _a		State New Mexico	
L	H	Gg .60 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
SI							67		67		7 days
1.											
2.											
3.	1/2" Pos Choke			6.5		60°			16		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	5.4315		18.5	1.000	1.000	1.000	1000
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 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 79	P _c ² 6,241				
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1437$
1					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n=.85} = 1.1209$
2					
3		28	784	5,457	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 112$
4					
5					

Absolute Open Flow	112	Mcf/d @ 15.025	Angle of Slope	Slope, n .85
Remarks:				
Approved By Commission:				
Conducted By: Jim L. Jacobs		Calculated By: Jim L. Jacobs		Checked By: