

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-12-80			
Company Dugan Production Corp.				Connection					
Pool Gavilan PC				Formation Pictured Cliffs				Unit	
Completion Date 7-1-80		Total Depth 3675'		Plug Back TD 3583'		Elevation 7463' GL		Farm or Lease Name Eureka	
Coq. Size 2-7/8"	Wt. 6.4#	d	Set At 3652'	Perforations: From 3503 To 3528'		Well No. #1			
Tbg. Size 1-1/4"	Wt. 2.4#	d	Set At 3501' GL	Perforations: From Open To End		Unit Soc. Twp. Rge. K 6 24N 1W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County Rio Arriba	
Producing Thru tbg		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L	H	Gg .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	
SI							384		523		7 days
1.											
2.											
3.	1/2" Pos Choke			12		66			395		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		24	.9943	.9837	1.000	128
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	XXXXXX
3					Specific Gravity Flowing Fluid	XXXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	°R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1						
2						
3	535	407	165,649	120,576	2.3738	2.0851
4						
5						

Absolute Open Flow <u>267</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, n <u>.85</u>	
Remarks: _____					
Approved By Division _____ Conducted By: <u>Jacobs</u> Calculated By: <u>Jacobs</u> Checked By: _____					