

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-7-81	
Company Dugan Production Corp.		Connection	
Pool Undesignated Chacra		Formation Chacra	
Completion Date 1-30-81		Total Depth 1480'	Plug Back TD 1449'
		Elevation 6663' GR	Form or Lease Name Billie
Coq. Size 2-7/8"	Wt. 6.4#	Set At 1477'	Perforations: From 1143 To 1170
Tbg. Size 1 1/4"	Wt. 2.4#	Set At 1148' GL	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At	County San Juan
Producing Thru Tbg.	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a NM
L	H	G _q	% 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							155		155		7 days
1.											
2.											
3.	1/2" pos choke			3.5		440			65		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	Rate of Flow Mcf/dbl.
1.						
2.						
3.	5.4315		15.5	1.016	1.000	1.000
4.						
5.						

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/dbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons <td>Deq. </td>	Deq.
2.					Specific Gravity Separator Gas <td>XXXXXXXXXX</td>	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid <td>XXXXXX</td>	XXXXXX
4.					Critical Pressure P.S.I.A. <td>P.S.I.A. </td>	P.S.I.A.
5.					Critical Temperature <td>R H</td>	R H

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} =$
1.	167	27,889				1.2700	1.2253
2.							
3.			77	5929	21,960	105	
4.							
5.							

Absolute Open Flow	105	Mcf/d @ 15.025	Angle of Slope	Slope, n	.85
Remarks:					
Approved by Division	Conducted By	Donovan	Calculated By	Jacobs	Checked By
Jacobs					