

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-4-80			
Company Dugan Production Corp.				Connection			
Pool WAW FR PC				Formation Pictured Cliffs		Unit	
Completion Date 7-25-80		Total Depth 1520'		Plug Back TD 1449'		Elevation 5942' GL	
Casing Size 2-7/8"		Wt. 6.5#		Set At 1507' GL		Perforations From 1362 To 1383	
Tub. Size 1-1/4"		Wt. 2.3#		Set At 1389.93'		Perforations From Open To End	
Type Well - Single - Drillinghead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan	
Producing Thru tbg		Reservoir Temp. °F e		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico							
L		H		G _g .62		% 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							287		287		7 days
1.											
2.											
3.	5/8" Pos Choke						11	65	47		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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	8.5417		23	.9952	.9837		
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
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.
5					Critical Temperature	R

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0405$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0343$
1							
2							
3		59	3481	85920			
4							
5							

Absolute Open Flow				Mcf/d @ 15.025		Angle of Slope		Slope, n	
198									

Approved by Division				Conducted by: Hall		Calculated by: Hall		Checked by: Jacobs	
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