

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 3-8-76	
Company Dugan Production Corp.			Connection		
Pool WAW			Formation Pictured Cliffs		Unit
Completion Date 12-6-75		Total Depth 1410'	Plug Back TD 1370'	Elevation 6116' GR	Farm or Lease Name FAF
Csg. Size 2-7/8"	Wt. 6.5#	d 1407'	Set At	Perforations: From 1316' To 1337'	Well No. 2
Tbg. Size	Wt.	d	Set At	Perforations: From To	Unit Sec. Twp. Rge. A 30 27N 13W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	County San Juan
Producing Thru Csg		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico
L	H	Gg .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									205		7 days
1.											
2.											
3.	5/8" Pos Choke			7		58°			7	58°	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		19	1.002	.9837	1.000	159
4							
5							

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DIST. 3

NO.	P _t	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 217	P _c ² 47,089	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.007$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0000$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3		19	361	46,728
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 159$

Absolute Open Flow	159	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				
Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By: *	