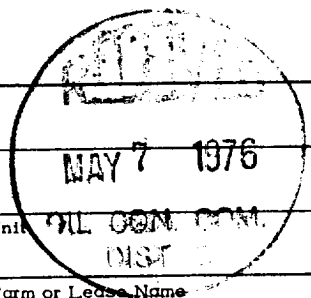


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-3-76			
Company Dugan Production Corp.				Connection				
Pool Wildcat				Formation Pictured Cliffs				
Completion Date 4-19-76		Total Depth 850'		Plug Back TD 804'		Elevation 5325' GR		
Csg. Size 2-7/8"		Wt. 6.5#		Set At 843'		Perforations: From 693' To 702'		Well No. 1Y
Tbg. Size 1-1/4"		Wt. 2.3#		Set At 695'		Perforations: From To		Unit Sec. Twp. Rge. H 8 29N 14W
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		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							218		218		7 days
1.											
2.											
3.	5/8" Pos Choke					74°	8		173		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		20	.9868	.9837	1.000	165
4							
5							

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

NO.	P _t	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1					
2					
3		185	34,225	18,675	
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8326$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 399$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4228$

Absolute Open Flow	399	Mcfd @ 15.025	Angle of Slope θ	Slope, n .85
--------------------	-----	---------------	-------------------------	--------------

Remarks: Heavy spray water throughout test.

Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By:
-------------------------	-------------------------------	--------------------------------	-------------