

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

C-122
Rev. 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-24-72		RECEIVED NOV 1972 OIL CON. COM. DIST. 3	
Company Dugan Production Corp.				Connection				
Pool Undesignated P.C.				Formation Pictured Cliffs			Unit	
Completion Date 10-14-72		Total Depth 667		Plug Back TD 667		Elevation 5658 GR		Farm or Lease Name Pet. Inc.
Csg. Size 2 7/8" O.D.	Wt. 5.9#	d	Set At 667	Perforations: From 616 To 667			Well No. 6	
Thg. Size	Wt.	d	Set At	Perforations: From To			Unit Sec. Twp. Rge. B 36 28N 15W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan	
Producing Thru		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							75				<i>7 Days</i>
1.											
2.											
3.	5/8" Pos. Choke			39		60°					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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	8.5417		51	1.000	.9837	1.000	429
4							
5							

NO.	P _t	Temp. °R	T _f	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 **87** P_c² **7569**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3			2601	4968
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.5236}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = \underline{1.4303}$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{614}$

Absolute Open Flow 614 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
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Remarks: **P_t = P_w Friction Negligible**

Approved By Commission:	Conducted By: Jim L. Jacobs	Calculated By: Jim L. Jacobs	Checked By:
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