

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 6-8-78			
Company Dugan Production Corp.				Connection					
Pool WAW				Formation Pictured Cliffs				Unit	
Completion Date 6-1-78		Total Depth 1474'		Plug Back TD 1413'		Elevation 6151' GR		Farm or Lease Name Faf	
Csg. Size 2-7/8	Wt. 6.4	d	Set At 1450'	Perforations: From 1341 To 1358		Well No. #3			
Tbg. Size 1-1/4	Wt. 2.4	d	Set At 1366'	Perforations: From Open To End		Unit C	Soc. 30	Twp. 27	Rge. 13
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru Tbg		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							143		248		7 days
1.											
2.											
3.	1/2 Pos. Choke						1	68°	33		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.	5.4315		13	.9924	.9837	1.000	68
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 260	P _c ² 67600		
NO.	P _t ²	P _w	P _w ²
1			
2			
3		45	2025
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0308$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 69$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n \cdot .85} = 1.0260$$

Absolute Open Flow	69	Mcf/d @ 15.025	Angle of Slope θ	Slope, α .85
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Remarks: Light mist thru out test.

Approved By Commission:	Conducted By: C. Hall	Calculated By: C. Hall	Checked By:
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