

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

Form O-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-4-78			
Company Dugan Production Corp.				Connection					
Pool NIPP				Formation Pictured Cliff				Unit	
Completion Date 3-24-78		Total Depth 1373'		Plug Back TD 1304'		Elevation 6233'		Farm or Lease Name Designated Hitter	
Csg. Size 2-7/8"	Wt. 6.4#	d	Set At 1357'	Perforations: From 1235' To 1245'		Well No. #3			
Tbg. Size 1-1/4"	Wt. 2.3#	d	Set At 1234'	Perforations: From Open To End		Unit M	Sec. 26	Twp. 26N	Rge. 12W
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 NM	
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							210		210		7 days
1.											
2.											
3.	1/2" Pos. Choke						20	52°	47		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	5.4315		32	1.008	.9837	1.000	172
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1					Specific Gravity Separator Gas _____	X X X X X X X X
2					Specific Gravity Flowing Fluid _____	X X X X X
3					Critical Pressure _____ P.S.I.A.	P.S.I.A.
4					Critical Temperature _____ R	R
5						

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0759$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0641$
1						
2						
3		59	3481	45803		
4						
5						

AOE = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 183$

Absolute Open Flow <u>183</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.85</u>
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Remarks: Very light spray of wtr at end of test

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