

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

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-9-77			
Company Dugan Production Corp.				Connection					
Pool Nipp PC Extension				Formation Pictured Cliffs				Unit	
Completion Date 2-2-77		Total Depth 1355'		Plug Back TD 1305'		Elevation 6237' GR		Farm or Lease Name George Washington	
Csg. Size 2-7/8"	Wt. 6.5#	d	Set At 1336'	Perforations: From 1238' To 1246'			Well No. 4		
Thq. Size 1-1/4"	Wt. 2.4#	d	Set At 1257'	Perforations: From Open End To			Unit A	Sec. 35	Twp. 26N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan			
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g .62 est	% 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							120		192		7 days
1.											
2.											
3.	1/2" Pos Choke			1		44 ⁰			69		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	1.016	.9837	1.000	71
4.							
5.							

NO.	P _r	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 204	P _c ² 41,616		
NO.	P _t ²	P _w	P _w ²
1			
2			
3	81	6561	35,055
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1872$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1570$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 82$$

Absolute Open Flow	82	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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OIL FIELD
 15.025
 15.025

Remarks:	
Approved By Commission:	Conducted By: Charles Hall
Calculated By: Jim L. Jacobs	Checked By: