

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 3-16-76			
Company Dugan Production Corp.				Connection					
Pool West Kutz				Formation Pictured Cliffs				Unit	
Completion Date 2-24-76		Total Depth 1554'		Plug Back TD 1503'		Elevation 5608' GR		Farm or Lease Name Gallegos	
Csg. Size 2-7/8"	Wt. 6.5#	d 	Set At 1544'	Perforations: From 1384' To 1402'		Well No. 3			
Tbg. Size 1-1/4"	Wt. 2.4#	d 	Set At 1408'	Perforations: From Open To Ended		Unit Sec. Twp. Rye. I 21 28N 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 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							165		190		7 days
1.											
2.											
3.	5/8" Pos Choke						13	60°	150		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		25	1.000	.9837	1.000	210
4							
5							

NO.	P _t	Temp. °R	O.T.	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 202	P _c ² 40,804	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8025$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4011$
NO.	P _t ²	P _w	P _w ²
1			
2			
3		162	26,244
4			14,560
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 504$

Absolute Open Flow 504 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
Remarks: _____		

Approved By Commission:	Conducted By: Charles Hall	Calculated By: Charles Hall	Checked By: Thomas A. Dugan
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