

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-12-84			
Company Dugan Production Corp.				Connection					
Pool Basin - Dakota				Formation Dakota				Unit	
Completion Date 3-18-84		Total Depth 5680'		Plug Back TD 5639'		Elevation 5377' GL		Farm or Lease Name Monte Carlo	
Csg. Size 4 1/2" OD	Wt. 10.5#	d 4.052	Set At 5680' RKB	Perforations: From 5459' To 5512'		Well No. 1			
Tng. Size 2-1/16"	Wt. 3.25#	d 1.75"	Set At 5492' RKB	Perforations: From Open End To		Unit Sec. Twp. Rge. K 7 30N 14W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State NM	
L	H	G _g .68 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							1700		1725		
1.											
2.											
3.	9/16" Pos. Choke			78		68°			500		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	6.8294		90	.9924	.9393	1.0010	574
4							
5							

NO.	P _t	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

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1						
2						
3		512	262,144	2,755,025	1.0951	1.0705
4						
5						

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

Absolute Open Flow 614 Mcfd @ 15.025 Angle of Slope 0

Remarks: Trace of oil & water

APR 16 1984

RECEIVED
OIL CON. DIV.
DIST. 3

Approved By Division	Conducted By: M. Brown	Calculated By: Jacobs	Checked By:
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