

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
 MAR 26 1985

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-18-85	
Company Dugan Production Corp.				Connection	
Pool Basin Dakota				Formation Dakota	
Completion Date 3-11-85		Total Depth 5600'		Plug Back TD 5545'	
Elevation		Farm or Lease Name Monte Carlo		Well No. 2	
Csq. Size 4 1/2"	Wt. 10.5#	d 5598'	Set At	Perforations: From 5426 To 5436'	
Tbg. Size 1 1/2"	Wt. 2.76	d	Set At	Perforations: From Open End To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru tubing		Reservoir Temp. °F		Baro. Press. - P _a	
Mean Annual Temp. °F		State New Mexico		County San Juan	
L	H	Gg .65	% 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							1380		1380		7 days
1.											
2.											
3.	1/2"	pos.	choke	40		60°			900		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	5.4315		52	1.000	.9608	1.000	271
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 1392	P _c 1,937,664				
NO.	P _r ²	P _v	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.7521$
1					(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.5229$
2					
3		912	831,744	1,105,920	AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 413$
4					
5					

Absolute Open Flow 413 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .75	
Remarks: Well making heavy mist oil & frac water					
Approved By Division		Conducted By: Brown		Calculated By: Jacobs	
				Checked By:	