

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/31/83		RECEIVED SEP 6 - 1983 OIL CON. DIV.		
Company Robert L. Bayless				Connection Northwest Pipeline Corp.					
Pool Basin Dakota				Formation Dakota			Unit Morton		
Completion Date 8/20/83		Total Depth 6250 ft.		Plug Back TD 6182 ft.		Elevation 5717 RKB		Farm or Lease Morton	
Csq. Size 4.500	Wt. 11.6	d 4.052	Set At 6241	Perforations: From 5984 To 6125				Well No. 2	
Thq. Size 1.900	Wt. 2.9	d 1.610	Set At 5984	Perforations: From To				Unit Sec. Twp. Rge. I 23 30N 14W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - single					Packer Set At none			County San Juan	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 est.		State New Mexico	
L	H	Gg est. .70	% 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.	
SI	11 days						1829		1874	
1.	2 inch		.750				327	75	655	
2.										
3.										
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	12.365		339	.9859	.9258	1.037	3968
2.							
3.							
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

P _c 1886 P _c ² 3,556,996			
NO.	P _t ²	P _w	P _w ²
1		667	444,889
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1430$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1054$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4386$

Absolute Open Flow 4386 Mcfd @ 15.025		Angle of Slope @ _____ Slope, n .75	
Remarks: _____			

Approved By Division	Conducted By: K. H. McCord	Calculated By: K. H. McCord	Checked By: Robert L. Bayless
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