

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/4/83	
Company Robert L. Bayless				Connection Northwest Pipeline	
Pool Basin Dakota				Unit Dakota	
Completion Date 4/22/83		Total Depth 6385'		Plug Back TD 6367'	
				Elevation 5838' RKB	
Farm or Lease Name Morton					
Csq. Size 4.500	Wt. 11.6	d 4.052	Set At 6384'	Perforations: From 6134' To 6356'	
Thg. Size 1.900	Wt. 2.90	d 1.610	Set At 6158	Perforations: From 4340' To 4340'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Single				Packer Set At None	
Producing Thru tubing		Reservoir Temp. °F #		Baro. Press. - P _a 12.0	
				State New Mexico	
L	H	G _g est. .60	% CO ₂	% N ₂	% H ₂ S
				Prover 3/4" choke	
				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	12 days						1779		1779	
1.	2" X .375"			359		78°	359	78°	686	
2.										
3.										
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	2.388		371	.983	1.291	1.030	1158
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	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

P _c 1791 P _c ² 3207681					(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.791$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.1315$	
NO.	P _t ²	P _w	P _w ²	P _c ² - R _w ²		
1		698	487204	2720477	AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1310$	
2						
3						
4						

Absolute Open Flow 1310 Mcfd @ 15.025		Angle of Slope θ	Slope, n .75
Remarks:			

Approved By Division	Conducted By: Fred S. Hamrick	Calculated By: M.J. Turnbaugh	Checked By: K.H. McCord
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