

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-1-81			
Company Pioneer Production Corp.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 4-23-81		Total Depth 6230		Plug Back TD 6166'		Elevation 5423 GL		Farm or Lease Name Nye Com	
Coq. Size 4 1/2"	Wt. 11.6"	d 4.000"	Set At 6233' RKB	Perforations: From 5952 To 6091		Well No. #1E			
Tq. Size 1 1/2"	Wt. 2.3#	d 1.380"	Set At 5864' RKB	Perforations: From open end To		Unit Sec. Twp. Rye. E 32 29N 11W			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple dual G - G				Packer Set At 2710 RKB		County San Juan			
Producing Thru tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State NM	
L	H	G _g	% 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.	
S1	SEE ATTACHED SHEET FOR DETAILS OF BACK PRESSURE TEST ON DAKOTA FORMATION.									
1.										
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	Rate of Flow Q, Mcfd
1.							
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P ₁ ²	P _w ²	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1.						
2.						
3.						
4.						
5.						

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

Absolute Open Flow _____ Mcfd @ 15.025

Angle of Slope ϕ _____

Slope, n _____

Remarks: _____

Approved By Division	Conducted By Blair	Calculated By Jacobs	Checked By
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PIONEER PRODUCTION CORPORATION

Nye Com #1E

BACK PRESSURE TEST

Dakota Formation

2" Critical Flow Prover

3/4" Plate

<u>5-1-81</u>	<u>Dakota Tbg.</u>	<u>Chacra Csg.</u>	<u>Chacra Tbg.</u>	<u>Prover Pressure</u>
Shut In				
8:30 a.m.	1013 psi	918 psi	910 psi	
9:30 a.m.	230 psi	918 psi	910 psi	60 psi
10:30 a.m.	165 psi	918 psi	910 psi	55 psi
11:30 a.m.	125 psi	918 psi	910 psi	45 psi
12:30 p.m.	122 psi	918 psi	910 psi	45 psi
1:30 p.m.	105 psi	918 psi	910 psi	35 psi
2:30 p.m.	112 psi	918 psi	910 psi	40 psi
3:30 p.m.	125 psi	918 psi	910 psi	45 psi
4:30 p.m.	125 psi	918 psi	910 psi	45 psi

Q= 695 MCFGPD

CAOF = 695 MCFGPD

Well made 28 bbls oil in 8 hrs. plus estimated 15 bbls frac fluid.
Caught gas sample after flowing 5½ hrs.

