

3 NMOCD

2 Pioneer

1 File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-172
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-26-82				
Company Pioneer Production Corp.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 2-18-82		Total Depth 5910' RKB		Plug Back TD 5885'		Elevation 5321' GL		Farm or Lease Name Farmington Com B	
Csg. Size 4 1/2"	Wt. 11.6#	d 4.000	Set At 5910' RKB	Perforations: From 5721 To 5883		Well No. 1E			
Tbg. Size 1 1/4"	Wt. 2.3	d 1.380	Set At 5608' RKB	Perforations: From open ended To		Unit Sec. Twp. Rye. 0 15 29N 13W			
Type Well - Single - Drdhead - G.G. or G.O. Multiple single - gas					Packer Set At ---		County San Juan		
Producing Thru tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State NM	
L	H	Gg	% 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	SEE REVERSE 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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.							
4.							
5.							

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

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$ _____	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$ _____
1.						
2.						
3.						
4.						
5.						

NO.	P _t	P _w	P _c	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$ _____
1.					
2.					
3.					
4.					
5.					

Absolute Open Flow <u>1699 MCFGPD</u>		Mcf @ 15.025		Angle of Slope Φ _____		Slope, n _____	
Remarks: _____							
Approved by Division _____							
Conducted by: <u>Rlain</u>		Calculated by: <u>Jacobs</u>		Checked by: _____			

PIONEER PRODUCTION CORP.

Farmington Com B #1E
Dakota Formation
Back Pressure Test

Tested through 2" Critical Flow Prover

<u>2-26-82</u>	<u>Tubing Pressure</u>	<u>Casing Pressure</u>	<u>1½" Orifice Plate</u>	<u>Back Pressure on Seperator</u>
9:00 a.m.	1811 psi	1958 psi	---	ON
9:30	675	1925	6 psi	300 psi
10:00	610	1890	6	300
10:30	610	1845	8	300
11:00	600	1770	8	300
12:00 p.m.	520	1690	7	300
1:00	492	1605	7	300
2:00	480	1512	7	300
3:00	417	1460	7	300
4:00	394	1408	7	300
5:00	388	1360	7	300

Made 30 bbls. oil and 150 bbls. of frac water & foam in 8 hrs.

Took gas sample at 2:15 p.m.

Q = 1033 MCFGPD

CAOF = 1699 MCFGPD