

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-16-82	
Company Pioneer Production Corp.		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 2-6-82		Total Depth 6140'	Plug Back TD 6082' RKB
		Elevation 5411' GL	Farm or Lease Name Scott
Ceq. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 6142' RKB
		Perforations: From 5894 To 6061	Well No. 1E
Tbg. Size 1 1/4"	Wt. 2.3	d 1.380	Set At 5703' RKB
		Perforations: From open ended to	Unit P
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single - gas		Packer Set At	County San Juan County
Producing Thru tbg.	Reservoir Temp. °F P	Mean Annual Temp. °F	Baro. Press. - P _a
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.
SI	SEE REVERSE FOR DETAILS OF BACK PRESSURE TEST ON THE 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.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

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

Absolute Open Flow _____ 2257 MCFGPD				Mold # 15.025	Angle of Slope θ _____	Slope, n _____
Remarks: _____						
Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____						

PIONEER PRODUCTION CORPORATION

Scott #1E

BACK PRESSURE TEST

Dakota Formation

4" Meter Run	1.250 Orifice Plate	400# Static Spring	50" Range	
<u>2-16-82</u>	<u>Tubing</u>	<u>Casing</u>	<u>Static</u>	<u>Diff.</u>
Shut In	1930 psi	1950 psi		
9:45 a.m.	ON			
10:45	1500	1830	7.3	9.0
11:45	1460	1770	7.35	9.7
12:45 p.m.	1480	1750	7.4	9.8
1:45	1410	1720	7.4	9.8
2:45	1410	1720	7.4	9.8
3:45	1360	1680	7.4	9.8
4:45	1300	1630	7.4	9.8
5:45	1350	1590	7.4	9.8

Well produced 13½ bbls. oil and est. 15-20 bbls. frac water during the 8 hr. test.

Q = 990 MCFGPD

CAOF = 2257 MCFGPD