3 NMOCD 1 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-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 1-12-82	
Company: Pioneer Production Corp.	Connection:			
Pool: Basin Dakota	Formation: Dakota			Unit:
Completion Date: 1-1-82	Total Depth: 6315'	Plug Back TD: 6238'	Elevation: 5465'	Farm or Lease Name: Shepherd & Kelsey #
Csg. Size: 4½" / Wt.: 11.6# / d: 4.000 / Set At: 6317'		Perforations: From 5943 To 6091		Well No.: 1E
Tbg. Size: 1¼" / Wt.: 2.3# / d: 1.380 / Set At: 5867'		Perforations: From open ended To		Unit: D / Sec.: 29 / Twp.: 29N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas/Gas		Packer Set At: 2875' RKB		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_2S	Prover	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	SEE REVERSE FOR DETAILS OF 8 HOUR BACK PRESSURE TEST ON THE									
1.	DAKOTA FORMATION.									
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

P_c P_c^2

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

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

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

RECEIVED
FEB 17 1982
OIL CON. COM.
DIST. 3

Absolute Open Flow 425 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Division	Conducted By: Blain	Calculated By:	Checked By:

PIONEER PRODUCTION CORPORATION

Shepherd and Kelsey #1E

BACK PRESSURE TEST

Dakota Formation

2" Critical Flow Prover ½" Orifice

	DAKOTA		CHACRA	
1-12-82	Tbg. Press.	Prover Press.	Tbg. Press.	Csg. Press.
Shut In	1042 psi		998 psi	998 psi
9:15 a.m.	Opened Dakota thru seperator and ½" orifice, 2" critical flow prover Began dumping fluid after 40 mins.			
9:45 a.m.	528 psi	175 psi	998 psi	990 psi
10:15 a.m.	88 psi	33 psi	998 psi	990 psi
10:45 a.m.	265 psi	117 psi	998 psi	990 psi
11:15 a.m.	110 psi	43 psi	998 psi	990 psi
12:15 a.m.	290 psi	121 psi	998 psi	990 psi
1:15 p.m.	195 psi	83 psi	998 psi	990 psi
2:15 p.m.	75 psi	24 psi	998 psi	990 psi
3:15 p.m.	87 psi	31 psi	998 psi	990 psi
4:15 p.m.	201 psi	79 psi	998 psi	990 psi
5:15 p.m.	161 psi	65 psi	1000 psi	998 psi

Well was loading up and then unloading water, causing fluctuations in pressure readings. Well produced estimated 60 bbls. of water and 1½ bbls. of oil during 8 hr. test.

Q = 425 MCFGPD CAOF = 425 MCFGPD