3 NMOCD 1 Pioneer OIL CONSERVATION DIVISION 1 EPNG 1 File

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 WELLS

RECEIVED
JUN 05 1984
OIL CON. DIV.
DIST. 3

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 5-16-84	
Company: Pioneer Production Corp.		Connection: None			
Pool: Otero Chacra		Formation: Chacra		Unit	
Completion Date: 5-16-84	Total Depth: 3248'	Plug Back TD: 3104'	Elevation: 5616' GL	Farm or Lease Name: Reid "C"	
Csg. Size: 4-1/2" / Wt.: 9.5# / d: 4.090" / Set At: 3238'		Perforations: From 2680 To 2792		Well No.: 1	
Tbg. Size: 1-1/2" / Wt.: 2.76# / d: 1.610" / Set At: 2680'		Perforations: From open ended To		Unit: N / Sec.: 13 / Twp.: 29N / Rge.: 12W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: San Juan	
Producing Thru: tubing	Reservoir Temp. °F: 110 @ 2670'	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: NM	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2680	2680	0.62 est.	--	--	--	2"	--	--

	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						995		994		7 days
1.	2"	3/8	219					348	65	3 hrs
2.										
3.	2"	3/8	188					308	70	6 hrs
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	2.378		231.2	0.9952	1.2700	1.0206	709
2.	2.378		201.2	0.9952	1.2700	1.0161	614
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.34	525	1.44	0.960
2.	0.29	530	1.45	0.969
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 365 R ____ R

P_c 1007.2 P_c^2 1014.5M

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		360.2	129.7	884.7
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.147$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.108$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 786$

Absolute Open Flow: 786 Mcfd @ 15.025 Angle of Slope θ: ____ Slope, n: 0.75

Remarks: 7 day SIP measured 5/24/84. Flowed dry gas throughout test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	K. Fagrelius	J. Roe	J.L. Jacobs