3 - NMOCD 2 - Pioneer 1 - File

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

1 - EPNG, Clark

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5-8-81				
Company: Pioneer Production Corp.			Connection:					
Pool: Undesignated			Formation: Chacra				Unit:	
Completion Date: 4-23-81	Total Depth: 6230		Plug Back TD: 6166		Elevation: 5423 GL		Farm or Lease Name: Nye Com	
Csg. Size: 4½"	Wt.: 11.6#	d: 4.000"	Set At: 6233 RKB	Perforations: From 2479	To 2595		Well No.: #1E	
Tbg. Size: 1½"	Wt.: 2.3#	d: 1.380"	Set At: 2373	Perforations: From open end	To		Unit: E Sec.: 32 Twp.: 29N Rge.: LLW	
Type Well – Single – Bradenhead – G.G. 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	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 ATTACHED SHEET FOR DETAILS OF BACK PRESSURE TEST ON CHACRA 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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3							
4							
5							

NO.	P_t	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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

JUN 8 1981
OIL CON. COM.
DIST. 3

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

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

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Blair	Jacobs	

PIONEER PRODUCTION CORPORATION

Nye Com #1E

BACK PRESSURE TEST

Chacra Formation

2" Critical Flow Prover 1" Plate

5-8-81	Dakota Tbg.	Chacra Csg.	Chacra Tbg.	Prover Pressure	
Shut In					
8:30 a.m.	1005 psi	931 psi	931 psi	58 psi	
9:30 a.m.	1005 psi	842 psi	815 psi	60 psi	Plate changed from 3/4" to 1" at 9:30 a.m.
10:30 a.m.	1005 psi	648 psi	507 psi	60 psi	
11:30 a.m.	1005 psi	509 psi	312 psi	60 psi	
12:00 noon	Well started lifting water, approx. 2 bbl/hr				
12:30 p.m.	1005 psi Lifting 2-3 bbl of water/hr.	495 psi	123 psi	45 psi	
1:30 p.m.	1005 psi Lifting approx. 3 bbl of water/hr - no oil	527 psi	114 psi	35 psi	
2:30 p.m.	1005 psi Lifting 4-5 bbl of water/hr - no oil	538 psi	112 psi	32 psi	
3:15 p.m.	Took gas sample				
3:30 p.m.	1005 psi Lifting 5-6 bbl of water/hr - no oil	543 psi	112 psi	32 psi	
4:30 p.m.	1005 psi Lifting 5-6 bbl of water/hr - no oil	543 psi	112 psi	32 psi	

SHUT IN

Q = 738 MCFPD CAOF = 1060 MCFPD