3 NMOCD 1 Pioneer 2 EPNG 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

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 5-19-84	
Company: Pioneer Production Corp.	Connection: None			Unit:
Pool: Otero Chacra	Formation: Chacra			
Completion Date: 5-19-84	Total Depth: 3065'	Plug Back TD: 2975'	Elevation: 5406' GL	Farm or Lease Name: Shepherd & Kelsey C
Csg. Size: 4-1/2" / Wt.: 9.5# / d: 4.090" / Set At: 3065'		Perforations: From 2470' To 2587'		Well No.: 1
Tbg. Size: 1-1/2" / Wt.: 2.76# / d: 1.610" / Set At: 2466'		Perforations: From open ended To		Unit: M / Sec.: 29 / Twp.: 29N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: San Juan
Producing Thru: tubing	Reservoir Temp. °F: 106 @ 2466'	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: NM
L: 2466 / H: 2466 / Gg: 0.62 est. / % CO_2: -- / % N_2: -- / % H_2S: -- / Prover: 2" / Meter Run: -- / Taps: --				

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						948		948		7 days
1.	2"	5/16	722					772	65	3 hrs
2.		1/2	377					524	68	3 hrs
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	1.672		734.2	0.9952	1.2700	1.069	1659
2	4.279		389.2	0.9924	1.2700	1.032	2166
3							
4							
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.09	525	1.44	0.879
2	0.68	528	1.45	0.939
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: dry 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 960.2 P_c^2 922.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		785.2	616.5	305.4
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.018$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.290$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3799$

Absolute Open Flow: 3799 Mcfd @ 15.025 Angle of Slope θ: Slope, n: 0.75

Remarks: 7 day SIWHP measured w/ dead weight tester 5-27-84. Flowed dry natural gas throughout test.

Approved By Division | Conducted By: | Calculated By: | Checked By: