3-NMOCD 1-El Paso 1-Ingle 1-Pendergrass 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: [x] Initial [ ] Annual [ ] Special | | | Test Date: 3-20-80 | |
| Company: Pioneer Production Corp. | | Connection: | | |
| Pool: Basin Dakota | | Formation: Dakota | | Unit: |
| Completion Date: 2-26-80 | Total Depth: 6240' | Plug Back TD: 6198' | Elevation: 5517' GL | Farm or Lease Name: Phillips |
| Csg. Size: 4-1/2" / Wt.: 11.6# / d: / Set At: 6247'RKB | | Perforations: From 6021 To 6174' | | Well No.: #1E |
| Tbg. Size: 1-1/4" / Wt.: 2.4# / d: / Set At: 6136'RKB | | Perforations: From Open To End | | Unit: B / Sec.: 16 / Twp.: 28 / Rge.: 11 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas | | Packer Set At: | | County: San Juan |
| Producing Thru: tbg | Reservoir Temp. °F: | Mean Annual Temp. °F: | Baro. Press. – $P_a$: | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | .65 | | | | | | |

## FLOW DATA

| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | TUBING DATA Press. p.s.i.g. | TUBING DATA Temp. °F | CASING DATA Press. p.s.i.g. | CASING DATA Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | | | | | | | 1180 | | 1190 | | 7 days |
| 1. | | | | | | | | | | | |
| 2. | | | | | | | | | | | |
| 3. | 2" | x | 1/2" | 115 | | 60° | 474 | | 825 | | 8 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. | | | | | | | |
| 3. | 5.5242 | | 127 | 1.000 | .9608 | 1.012 | 682 |
| 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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____

$P_c$ 1202 $P_c^2$ 1,444,804

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | 837 | 700,569 | 744,235 |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9413$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6447$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1122$

RECEIVED
APR 14 1980
OIL CON. COM.
DIST. 3

Absolute Open Flow 1122 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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