NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WE

Form C-122
Revised 9-1-65

RECEIVED
DEC 1 1982
OIL CON. COM.
DIST. 3

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 11-30-82 | |
| Company: El Paso Natural Gas Company | | | Connection: Northwest Pipeline Corp. | | |
| Pool: Basin | | | Formation: Dakota | | Unit: |
| Completion Date: 11-23-82 | Total Depth: 7920 | | Plug Back TD: 7911 | Elevation: 6630 GR | Farm or Lease Name: San Juan 27-5 Unit |
| Csg. Size: 9.625 / Wt.: 40 / d: 8.835 / Set At: 3747 | | | Perforations: From *7684 To 7886 | | Well No.: #113E |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7850 | | | Perforations: From To | | Unit: C / Sec.: 10 / Twp.: 27 / Rge.: 5 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Dual | | | Packer Set At: 6109 | | County: Rio Arriba |
| Producing Thru: Tbg. | Reservoir Temp. °F: @ | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12 | | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | .695 | | | | | | |

| | 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 | | | | | 1802 | | | | 7 Days |
| 1. | .750 | 110 | | 61 | 110 | | | | 3 Hours |
| 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 | 12.365 | | 122 | .9990 | .9292 | 1.014 | 1420 |
| 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 _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

$P_c$ 1814 $P_c^2$ 3290596

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 14884 | 272 | 73984 | 3216612 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3290596}{3216612}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0172$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1444$

Absolute Open Flow 1444 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: * 7.000" Liner 3582' - 6240'
* 4.500" Liner 6146' - 7919'
Gas Vented During Test - 248 MCF

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Gary Gonzales | Ed Mabe | |