STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Revised 10-1-78

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 5-11-82 | |
| Company: Union Texas Petroleum Corp. | | Connection: El Paso Natural Gas Co. | | | |
| Pool: Bloomfield | | Formation: Chacra | | Unit | |
| Completion Date: 4-17-82 | Total Depth: 6630 | Plug Back TD: 6578 | Elevation: 5645 G.L. | Farm or Lease Name: New Mexico "B" Com | |
| Csg. Size: 5.500 / Wt.: 15.5 / d: 4.950 / Set At: 6630 | | Perforations: From 2969 To 2992 | | Well No.: 1E | |
| Tbg. Size: 2.063 / Wt.: 3.25 / d: 1.751 / Set At: 2963 | | Perforations: From To | | Unit: D / Sec.: 16 / Twp.: 29 / Rge.: 11 | |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas/Gas Dual | | Packer Set At: 3110' | | County: San Juan | |
| Producing Thru: Tubing | Reservoir Temp. °F: | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12 psia est. | State: New Mexico | |
| L | H | Gg: .650 | % $CO_2$ | % $N_2$ | % $H_2S$ / Prover / Meter Run / Taps |

| 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 | 24 days | | | | 731 | | 728 | | |
| 1. | 2 inch .750 | 63 | | | 63 | 60° | 276 | | 3 hrs. |
| 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 | 12.3650 | | 75 | 1.000 | .9608 | 1.010 | 900 |
| 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 _____ XXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure _____ P.S.I.A. 673
Critical Temperature _____ R 673 R

RECEIVED
MAY 13 1982
OIL CON. COM.
DIST. 3

$P_c$ 743 $P_c^2$ 552049

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 288 | 82944 | 469105 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1768$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.12987$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1017$

Absolute Open Flow 1017 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Mist of water last 2 hours of test.

| Approved By Division | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Joe Elledge | Joe Elledge | Don Wells |