NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 31 1984
OIL CON. DIV.
DIST. 3

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 1/22/84 | |
| Company: BASIN MINERALS, INC. | | | Connection: | | |
| Pool: Blanco Mesa Verde | | | Formation: Mesa Verde | | Unit: |
| Completion Date: 1/5/84 | Total Depth: 5196' | | Plug Back TD: 4920' | Elevation: 5835'GR | Farm or Lease Name: Federal |
| Csg. Size: 4-1/2 / Wt.: 10.50 / d: 4.052 / Set At: 5151' | | | Perforations: From 4062' To 4974' | | Well No.: 100 |
| Tbg. Size: 2-3/8 / Wt.: 4.70 / d: 1.995 / Set At: 4707' | | | Perforations: From Open Ended | | Unit: D / Sec.: 27 / Twp.: 31N / 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: 133@ 5188' | Mean Annual Temp. °F: 60 | Baro. Press. – $P_a$: 12.0 | | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| .4707 | 4707 | 0.600 | | | | | | |

| | 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 | | | | | 1050 | | 1050 | | 8 days |
| 1. | 3/4" THC | | | | 280 | | 870 | | 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 | | 292 | 1.0000 | 1.0000 | 1.0000 | 3611 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_t$ | 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

$P_c$ 1062 $P_c^2$ 1,127,844

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 882 | 777,924 | 349,920 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.2231$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4055$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8686$

Absolute Open Flow 8686 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Bill Matthews | Ewell N. Walsh | |