NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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DIST. 3

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | | Test Date: 11-2-68 | |
| Company: Marathon Oil Co. | | Connection | | | Unit |
| Pool: South Blanco Pictured Cliffs | | Formation: Pictured Cliffs | | | |
| Completion Date | Total Depth: 7345 | | Plug Back TD: 7305 | Elevation: 6554 KB, 6541 GRD. | Farm or Lease Name: Jicarilla Apache |
| Csg. Size: 5½ / Wt.: 15.5 & 17 / d / Set At: 7340 | | | Perforations: From 2865 To 2919 | | Well No.: 14 |
| Tbg. Size: 1.660 / Wt.: 2.4 HYDRIL CS / d / Set At: 2848 | | | Perforations: From 2842 To 2847 | | Unit: M / Sec.: 34 / Twp.: 26 / Rge.: 5 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual Gas | | | Packer Set At: 7003 | | County: Rio Arriba |
| Producing Thru: Tbg | Reservoir Temp. °F | Mean Annual Temp. °F | Baro. Press. – $P_a$: 12.0 | | State: New Mexico |
| L | H | Gg: .650 | % $CO_2$ | % $N_2$ | % $H_2S$ / Prover / Meter Run / Taps |

## 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 | | | | | | | 595 | | 597 | | |
| 1. | 2 | x | 3/4 | | | | 149 | 60 | 156 | | 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 | | 161 | 1.000 | .9608 | 1.015 | 1941 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_r$ | 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

$P_c$ 609 $P_c^2$ 370881

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 168 | 28224 | 342657 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0824$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = \frac{1.0696}{1.0807}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = \frac{2076}{2098}$

Absolute Open Flow ~~2098~~ 2076 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | TEFTELLER, INC. | Neil Tefteller | R. F. Patterson |

MARATHON OIL CO.