NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | |
|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | Test Date: 3-14-77 | |
| Company: Mobil Oil Corporation | Connection: | | | Unit: Jicarilla Contract #96 |
| Pool: Blanco Mesa Verde | Formation: Mesa Verde | | | Unit |
| Completion Date | Total Depth: 8375 | Plug Back TD: 6000 | Elevation | Farm or Lease Name: Jicarilla "H" |
| Csg. Size / Wt. / d / Set At: 8373 | Perforations: From 5429 To 5934 | | | Well No.: 8-A |
| Tbg. Size / Wt. / d / Set At | Perforations: From To | | | Unit: D Sec.: 12 Twp.: 26N Rge.: 3W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | Packer Set At: - | | | County: Rio Arriba |
| Producing Thru: Tbg | Reservoir Temp. °F: e | Mean Annual Temp. °F: 50 | Baro. Press. – $P_a$: 12.2 | State: New Mexico |

| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| | | 0.68 | - | - | - | 0.75 | 2 | - |

| | 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 | | | | | | 1269 | | 1263 | | 7 day |
| 1. | 2 | x 0.75 | | | | 476 | | 802 | | 3 hr. |
| 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 | - | 382.2 | 0.9962 | 0.9393 | 1.044 | 4617 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | 0.57 | 524 | 1.36 | 0.918 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature 669 R _____ R
385

$P_c$ 1281 $P_c^2$ 1641

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 814 | 663 | 978 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.68$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.47$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6807$

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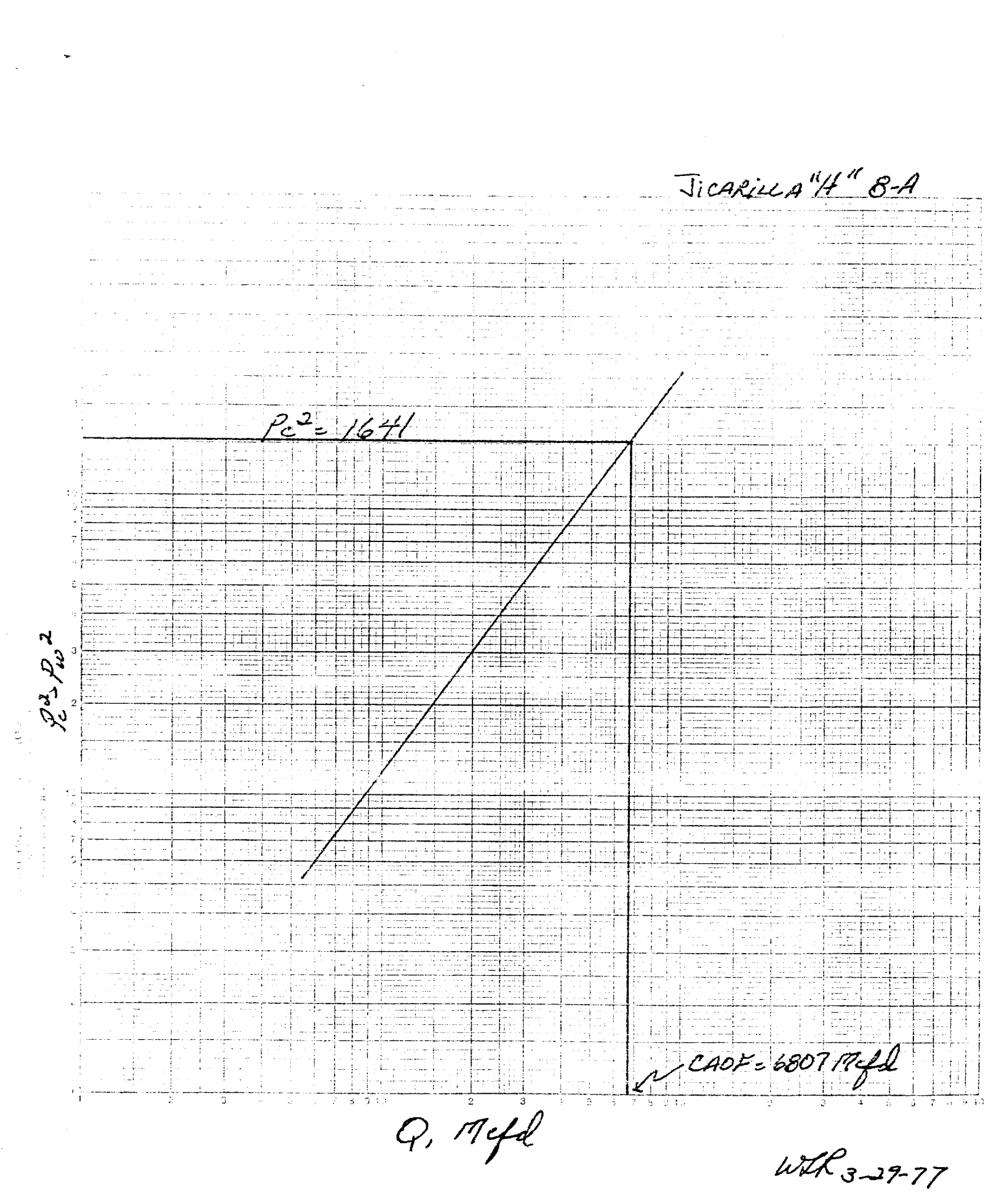
DIST. 3

Absolute Open Flow 6807 Mcfd @ 15.025 Angle of Slope θ 53° 1' Slope, n 0.75

Remarks: Produced 4 BO + 4 BW/3hrs.

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | W.L. Riley, Jr. | W. L. Riley, Jr. | M. W. Brinkmeyer |


JICARILLA "A" 8-A
$P_c^2 = 1641$
$P_c^2 - P_w^2$
CAOF = 6807 Mcfd
Q, Mcfd
WLR 3-29-77