

3-000

SNP-106

1-EPNG Parrish

1-MW Prod. 1-P.A.

NEW MEXICO OIL CONSERVATION COMMISSION

3-Tidewater (2-Midland, 1-Durango)

1-Lion, 1-P.A., 1-Texas Nat'l.

1-Tejaco, 1-Thos. Connolly

1-D, 2-F

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Pool Basin Baketa Formation Dakota County San JuanInitial X Annual _____ Special _____ Date of Test 5/15/62Company Southwest Production Company Lease Ruby Corsecot Well No. 1Unit C Sec. 25 Twp. 30 N Rge. 12 W Purchaser El Paso Natural Gas CompanyCasing 4 1/2 Wt. 10.50 I.D. 4.052 Set at 6595 Perf. 6286 To 6387Tubing 1 1/2 Wt. 2.75 I.D. 1.610 Set at 6404 Perf. _____ To 6404Gas Pay: From 6286 To 6387 L 6404 xG .67 -GL 4290 Bar.Press. 12.0Producing Thru: Casing _____ Tubing X Type Well Single Gas

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 5/3/62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Baketa) (Choke) (Baketa) Type Taps _____

| Flow Data | | | | | | Tubing Data | | Casing Data | | Duration of Flow Hr. |
|-----------|----------------------------|------------------------------|----------------|-------------------------|--------------|----------------|--------------|----------------|--------------|----------------------------|
| No. | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig | Diff. h _w | Temp. °F. | Press. psig | Temp. °F. | Press. psig | Temp. °F. | |
| SI | | | | | | 1900 | | 2087 | | 8 day |
| 1. | | 3/4" | 185 | | 78 | 185 | 78 | 817 | | 3 hr. |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

FLOW CALCULATIONS

| No. | Coefficient (24-Hour) | $\sqrt{h_{wpf}}$ | Pressure psia | Flow Temp. Factor F _t | Gravity Factor F _g | Compress. Factor F _{pv} | Rate of Flow Q-MCFPD @ 15.025 psia |
|-----|--------------------------|------------------|------------------|--|-------------------------------------|--|--|
| 1. | 12.3650 | | 197 | .9831 | .9463 | 1.019 | 2,309 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____

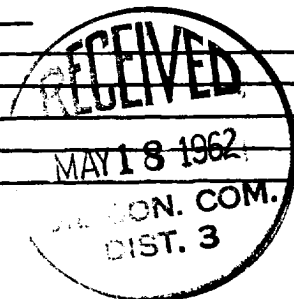
Specific Gravity Flowing Fluid _____

P_c 2099 P_c² 4405.8P_w 829 P_w² 687.2

| No. | P _w P _t (psia) | P _t ² | F _c Q | (F _c Q) ² | (F _c Q) ² (1-e ^{-s}) | P _w ² | P _c ² -P _w ² | Cal. P _w | P _w P _c |
|-----|---|-----------------------------|------------------|---------------------------------|---|-----------------------------|--|------------------------|----------------------------------|
| 1. | | | | | | 687.2 | 3718.6 | | .394 |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |

Absolute Potential: 2,620 MCFPD; n .75COMPANY Southwest Production CompanyADDRESS 207 Petr. Club Plaza, Farmington, New MexicoAGENT and TITLE George L. Hoffman, Production EngineerWITNESSED G. R. WagnerCOMPANY El Paso Natural Gas Company

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .