

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Astos-Pictured Cliffs Formation Pictured Cliffs County San Juan

Initial X Annual _____ Special _____ Date of Test 9-7-57

Company Pac American Petroleum Corp. Lease Prospect Gas Unit Well No. 1

Unit 0 Sec. 22 Twp. 37N Rge. 10W Purchaser El Paso Natural Gas Company

Casing 21 1/2" Wt. 14.5 I.D. 19.05" Set at 1905' Perf. 1915' To 1967'

Tubing 1 1/2" Wt. 2.37 I.D. 1.31" Set at 1913 Perf. 1933 To 1923

Gas Pay: From 1913 To 1967 L _____ xG _____ -GL _____ Bar.Press. 12

Producing Thru: Casing _____ Tubing _____ Type Well Gas - Single

Date of Completion: 8-23-57 Packer No Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) _____ Type Taps _____

| No. | Flow Data | | | | | Tubing Data | | Casing Data | | Duration of Flow Hr. |
|-----|----------------------|------------------------|-------------|----------------------|-----------|-------------|-----------|-------------|-----------|----------------------|
| | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig | Diff. h _w | Temp. °F. | Press. psig | Temp. °F. | Press. psig | Temp. °F. | |
| SI | | | | | | 672 | | 672 | | Shut-in 15 days |
| 1. | | | | | | | | | | |
| 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. | | | | | | | |
| 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 _____ P_c² _____

| 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. | | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |

Absolute Potential: _____ MCFPD; n _____

COMPANY PAC AMERICAN PETROLEUM CORPORATION

ADDRESS Box 487, Farmington, New Mexico

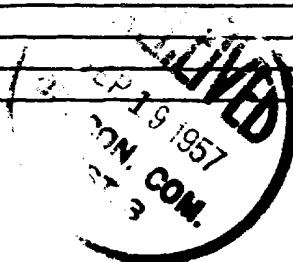
AGENT and TITLE E. H. Bauer, Jr., Field Engineer

WITNESSED _____

COMPANY _____

REMARKS

*Not tested due to close proximity of well to occupied dwellings.



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} - Supercompressability 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 .

| | | |
|-----------------------------|---|---|
| OIL CONSERVATION COMMISSION | | |
| AZTEC DISTRICT OFFICE | | |
| No. Copies Received | | 3 |
| DATE RECEIVED | | |
| MONTH | | |
| DAY | | |
| YEAR | | |
| APPROVED | | |
| SPECIAL AGENT | 1 | |
| INVESTIGATOR | | |
| REPORTING OFFICER | | |
| DATE OF REPORT | 1 | |
| REPORT MADE AT | | |
| TRANSPORT | | |
| FILE | 1 | ✓ |