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Form C-122

One
MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55Pool So. Blanco-Pictured Cliffs Formation Pictured Cliffs County Rio ArribaInitial x Annual _____ Special _____ Date of Test 12-11-57Company Humble Oil & Refining Company Lease Jicarilla Apache Tribe M Well No. 3Unit A Sec. 13 Twp. 25N Rge. 4W Purchaser To be Southern Union Gas CompanyCasing 4 1/2" OD Wt. 9.5 I.D. 4.090 Set at 3780.50 Perf. 3690 To 3709Tubing 2" EUE Wt. 4.7 I.D. 1.995 Set at 3687.47 Perf. None To None (Pin Collar)Gas Pay: From 3690 To 3709 L 3687 xG 0.7 (est) GL 2581 Bar.Press. 12 psiaProducing Thru: Casing _____ Tubing x Type Well Single - gasDate of Completion: 12-11-57 Packer (None) Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 110° F (Estimate)

OBSERVED DATA

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

| Flow Data | | | | | | Tubing Data | | Casing Data | | Duration of Flow Hr. |
|-----------|----------------------------|---|----------------|-------------------------|--------------|----------------|--------------|----------------|--------------|----------------------------|
| No. | (Prover) (Line) Size | (Choke) (Choke) Size | Press. psig | Diff. h _w | Temp. °F. | Press. psig | Temp. °F. | Press. psig | Temp. °F. | |
| SI | | | | | | 1016 | | 1018 | | |
| 1. | | 3/4" | 138 | | 40 | 138 | 40 | 395 | | 3 hours |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

FLOW CALCULATIONS

| No. | Coefficient (24-Hour) | $\sqrt{h_w p_f}$ | 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 | | 150 | 1.0198 | 0.9258 | 1.021 | 1783 |
| 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 1028 P_c 1056.8

| No. | P _w P _w (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 (psia) P _c (psia) |
|-----|---|-----------------------------|------------------|---------------------------------|---|-----------------------------|--|------------------------|--|
| 1. | 407 | | | | | 165.6 | 891.2 | | 0.396 |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |

Absolute Potential: 2061 MCFPD; n 0.85COMPANY Humble Oil & Refining CompanyADDRESS Box 1268, Farmington, New MexicoAGENT and TITLE Russell M. Lilly Russell M. Lilly, Dist. Supt.WITNESSED - (Tested by E. G. Hays, Humble Oil & Refining Company)COMPANY -

REMARKS

Three-hour test with 3/4-inch choke, after at least a 7-day shut-in period, was made in accordance with New Mexico Oil Conservation Commission Memorandum 1-56, relating to Initial Potential Tests, San Juan Basin. (Well actually was shut in 9 days prior to test.)

Orig. & 2 cc: NMOCC, Aztec, N. M.
cc: Humble, Midland, Texascc: Southern Union Gas Co., Dallas, Texas
cc: Well Record File.

OIL CONSERVATION COMMISSION

42110 E. STREET OFFICE

APPROVED BY 3

DATE 11/11/1918

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