

15-097-20178-0000

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 7-1-93

Company: Anadarko Petro. Corp. Lease: Crowe Unit Well No. #1

County: Kiowa Location: SW NE Section: 31 Township: 30S Range: 18W Acres: [blank]

Field: Mule Creek Reservoir: MARMATON Pipeline Connection: KANSAS GAS SUPPLY

Completion Date: 10-24-73 Type Completion(Describe): OIL & WATER Plug Back T.D.: 5020 Packer Set At: [blank]

Production Method: Pumping Type Fluid Production: OIL API Gravity of Liquid/Oil: 34.4

| Flowing Casing Size | Weight | I.D.  | Set At | Perforations | To   |
|---------------------|--------|-------|--------|--------------|------|
| 4.500               | 10.5   | 4.052 | 5195   | 4899         | 4905 |
| Flowing Tubing Size | Weight | I.D.  | Set At | Perforations | To   |
| 2.375               | 4.70   | 1.995 | 4879   |              |      |

Pretest: Starting Date 6-29-93 Time 10:15A Ending Date 6-30-93 Time 10:20A Duration Hrs. 24

Test: Starting Date 6-30-93 Time 10:35A Ending Date 7-1-93 Time 10:30A Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

| Producing Wellhead Pressure |             |                     | Separator Pressure  |       |      | Choke Size      |  |
|-----------------------------|-------------|---------------------|---------------------|-------|------|-----------------|--|
| Casing: 23.5                |             |                     | Tubing: ON PUMP     |       |      |                 |  |
| Bbls./In.                   | Tank        | Starting Gauge      | Ending Gauge        |       |      | Net Prod. Bbls. |  |
|                             | Size Number | Feet Inches Barrels | Feet Inches Barrels | Water | Oil  |                 |  |
| Pretest:                    | 300 19171   | 10 10 1/2 218.10    | 11' 3 225.45        | 2.62  | 7.35 |                 |  |
| Test:                       | 300 19171   | 11 3 225.50         | 11 8 1/4 234.27     | 2.91  | 8.77 |                 |  |
| Test:                       |             |                     |                     |       |      |                 |  |

GAS PRODUCTION OBSERVED DATA

| Orifice Meter Connections |                        |               | Orifice Meter Range    |                           |  |                  |                   |
|---------------------------|------------------------|---------------|------------------------|---------------------------|--|------------------|-------------------|
| Pipe Taps:                | Flange Taps:           | Differential: | Static Pressure:       |                           |  |                  |                   |
| Measuring Device          | Run-Prover-Tester Size | Orifice Size  | Meter-Prover In. Water | Tester Pressure In. Merc. | Diff. Press. (hw) or (hd)              | Gravity Gas (Gg) | Flowing Temp. (t) |
| Orifice Meter             |                        |               |                        |                           | RECEIVED KANSAS CORPORATION COMMISSION |                  |                   |
| Critical Flow Prover      | 2"                     | 0.250         | 30"                    | 7-26-93                   |  | 1.000            | 60°               |
| Orifice Well Tester       |                        |               |                        |                           | JUL 26 1993                            |                  |                   |

GAS FLOW RATE CALCULATIONS (CONSERVATION DIVISION)

| Coeff. (Fb)(Fp)(OWTC) | Meter-Prover Press. (Psia) | Extension (Pm) | Gravity Factor (Fg) | Flowing Temp. Factor (Ft) | Deviation Factor (Fpv) | Chart Factor (Fd) |
|-----------------------|----------------------------|----------------|---------------------|---------------------------|------------------------|-------------------|
| 38.7                  |                            | 0.9258         | 1.000               | 1.000                     | —                      | —                 |

Gas Prod. MCFD: 35.8 Oil Prod. Bbls./Day: 8.77 Gas/Oil Ratio (GOR) = 4082 Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 1 day of July 1993

For Offset Operator: [blank] For State: [blank] For Company: Guy R. Sutherland

STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST  
BARREL TEST

OPERATOR \_\_\_\_\_ LOCATION OF WELL \_\_\_\_\_

LEASE \_\_\_\_\_ OF SEC. T \_\_\_\_\_ R \_\_\_\_\_

WELL NO. \_\_\_\_\_ COUNTY \_\_\_\_\_

FIELD \_\_\_\_\_ PRODUCING FORMATION \_\_\_\_\_

Date Taken \_\_\_\_\_ Date Effective \_\_\_\_\_

Well Depth \_\_\_\_\_ Top Prod. Form \_\_\_\_\_ Perfs \_\_\_\_\_

Casing: Size \_\_\_\_\_ Wt. \_\_\_\_\_ Depth \_\_\_\_\_ Acid \_\_\_\_\_

Tubing: Size \_\_\_\_\_ Depth of Perfs \_\_\_\_\_ Gravity \_\_\_\_\_

Pump: Type \_\_\_\_\_ Bore \_\_\_\_\_ Purchaser \_\_\_\_\_

Well Status \_\_\_\_\_  
Pumping, flowing, etc.

TEST DATA

Permanent \_\_\_\_\_ Field \_\_\_\_\_ Special \_\_\_\_\_

Flowing \_\_\_\_\_ Swabbing \_\_\_\_\_ Pumping \_\_\_\_\_

STATUS BEFORE TEST:

PRODUCED \_\_\_\_\_ HOURS

SHUT IN \_\_\_\_\_ HOURS

DURATION OF TEST \_\_\_\_\_ HOURS \_\_\_\_\_ MINUTES \_\_\_\_\_ SECONDS

GAUGES: WATER \_\_\_\_\_ INCHES \_\_\_\_\_ PERCENTAGE

OIL \_\_\_\_\_ INCHES \_\_\_\_\_ PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) \_\_\_\_\_

WATER PRODUCTION RATE (BARRELS PER DAY) \_\_\_\_\_

OIL PRODUCTION RATE (BARRELS PER DAY) \_\_\_\_\_ PRODUCTIVITY

STROKES PER MINUTE \_\_\_\_\_

LENGTH OF STROKE \_\_\_\_\_ INCHES

REGULAR PRODUCING SCHEDULE \_\_\_\_\_ HOURS PER DAY.

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WITNESSES:

FOR STATE

FOR OPERATOR

FOR OFFSET