

STATE OF KANSAS - CORPORATION COMMISSION  
PRODUCTION TEST & GOR REPORT

15-015-22972-00-00

JUN 1 1987

Conservation Division

Form C-5 Revised

TYPE TEST: Initial  Annual  Workover  Reclassification  TEST DATE: 5-29-87

Company Rangel Oil Co. Inc. # 5120 Lease Satter 5-28-87 Well No. 5  
5-29-87

County Butler Location SWSEW Section 33 Township 26 Range 62-E Ave. cc Acres 160

Field Reynolds-Shaffer Reservoir Mississippi Pipeline Connection Total Petroleum

Completion Date 5-11-87 Type Completion (Describe) Plug Back T.D. Packer Set At         

Production Method: Flowing Pumping  Gas Lift  Type Fluid Production Oil API Gravity of Liquid 36.2 Oil

Casing Size 4 1/2" Weight          I.D.          Set At 2815' Perforations 2766' To 2772'

Tubing Size 2 3/8" Weight          I.D.          Set At          Perforations          To         

Pretest: Starting Date 5-28-87 Time 10:00 Ending Date 5-28-87 Time 16:00 Duration Hrs. 6 hrs.

Test: Starting Date 5-29-87 Time 10:00 Ending Date 5-29-87 Time 16:00 Duration Hrs. 6 hrs.

OIL PRODUCTION OBSERVED DATA

| Producing Wellhead Pressure |         | Separator Pressure |      |        |              | Choke Size |        |                 |       |       |
|-----------------------------|---------|--------------------|------|--------|--------------|------------|--------|-----------------|-------|-------|
| Casing:                     | Tubing: |                    |      |        |              |            |        |                 |       |       |
| Bbls./In.                   | Tank    | Starting Gauge     |      |        | Ending Gauge |            |        | Net Prod. Bbls. |       |       |
|                             | Size    | Number             | Feet | Inches | Barrels      | Feet       | Inches | Barrels         | Water | Oil   |
| #1 #2 #3                    |         |                    |      |        |              |            |        |                 |       |       |
| Pretest:                    | 200661  | 91465              | 5    | 1      | 101.67       | 6          | 5      | 128.34          | 11    | 26.67 |
| Test:                       | 200661  | 91465              | 6    | 5      | 128.34       | 8          | 7      | 171.67          | 11    | 43.   |
| 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-Tester Pressure In. Water | Tester Pressure In. Merc. | Psig or (Pd) | Diff. Press. (hw) or (hd) | Gravity Gas (Gg) | Flowing Temp. (t) |
| Orifice Meter             |                        |               |  |                           |              |                           |                  |                   |
| Critical Flow Prover      |                        |               |  |                           |              |                           |                  |                   |
| Orifice Well Tester       |                        |               |  |                           |              |                           |                  |                   |

GAS FLOW RATE CALCULATIONS (R)

| Coeff. MCFD (Fb)(Fp)(OWTC) | Meter-Prover Press. (Psia)(Pm) | Extension $\sqrt{hw \times Pm}$ | Gravity Factor (Fg) | Flowing Temp. Factor (Ft) | Deviation Factor (Fpv) | Chart Factor (Fd) |
|----------------------------|--------------------------------|---------------------------------|---------------------|---------------------------|------------------------|-------------------|
|                            |                                |                                 |                     |                           |                        |                   |

Gas Prod. MCFD          Oil Prod. Bbls./Day: 43 Gas/Oil Ratio (GOR) =          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 29 day of May 1987

Dan Thompson  
For State

Dandy Drake  
For Company

For Offset Operator

JUN 9 1987

CONSERVATION DIVISION  
Wichita, Kansas

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