

Conservation Division

TYPE TEST: ~~Initial~~ Annual Workover Reclassification TEST DATE: 4/26/99

Company: **COMANCHE RESOURCES** Lease: **BIRD** Well No.: **3-10**

County: **COMANCHE** Location: **SW SW** Section: **10** Township: **32S** Range: **19W** Acres:

Field: **W. COLDWATER** Reservoir: **MISSISSIPPI** Pipeline Connection: **KANSAS GAS SUPPLY**

Completion Date: **3/24/99** Type Completion(Describe): **SINGLE** Plug Back T.D.: **5190** Packer Set At: **NONE**

Production Method: **Flowing** Pumping **X** Gas Lift Type Fluid Production: **WATER/CONDENSATE** API Gravity of Liquid/Oil: **1.05/50.0 DEG.**

Casing Size: **4.500** Weight: **11.60** I.D.: **4.000** Set At: **5228** Perforations: **4975 - 5188**

Tubing Size: **2.375** Weight: **4.70** I.D.: **1.995** Set At: **4917** Perforations:

Pretest: **SI** Starting Date: **4/23/99** Time: **13:00** Ending Date: **4/26/99** Time: **13:00** Duration Hrs.: **72:00**

Test: Starting Date: **4/26/99** Time: **13:00** Ending Date: **4/27/99** Time: **13:00** Duration Hrs.: **24:00**

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure: **798** Separator Pressure: **792** Choke Size: **9 1/2 / 64**

| Bbls./In. | Tank | | Starting Gauge | | | Ending Gauge | | | Net Prod. Bbls. | |
|-----------|------|--------|----------------|--------|---------|--------------|--------|---------|-----------------|-----|
| | Size | Number | Feet | Inches | Barrels | Feet | Inches | Barrels | Water | Oil |
| Pretest: | 200 | WATER | 2' | 8 1/4" | 53.86 | 2' | 9 1/2" | 55.95 | 2.09 | - |
| Test: | 200 | #1 | 5' | 1 1/2" | 102.71 | 5' | 2" | 103.54 | - | .83 |
| Test: | | | | | | | | | | |

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections: **PIPE TAPS** Orifice Meter Range: **100** Static Pressure: **500**

| Measuring Device | Run-Prover-Tester Size | Orifice Size | Meter-Prover-Tester Pressure | | | Diff. Press. (hw) or (hd) | Gravity Gas (Gg) | Flowing Temp. (t) |
|----------------------|------------------------|--------------|------------------------------|-----------|--------------|---------------------------|------------------|-------------------|
| | | | In. Water | In. Merc. | Psig or (Pd) | | | |
| Orifice Meter | 2.07 | .7500 | - | - | 112 | 76 | .685 | 75 |
| Critical Flow Prover | | | | | | | | |
| Orifice Well Tester | | | | | | | | |

GAS FLOW RATE CALCULATIONS (R)

| Coeff. (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) |
|-----------------------|--------------------------------|---------------------------------|---------------------|---------------------------|------------------------|-------------------|
| 2.779 | 126.7 | 98.109 | 1.2082 | .9859 | 1.0120 | NOT L-10 |

Gas Prod. MCFD: **328** Oil Prod. Bbls./Day: **.83** Gas/Oil Ratio (GOR) = **395.18** 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 28th day of APRIL 19 99

For Offset Operator

For State

For Company

RECEIVED STATE COMMISSION

5-4-99
 MAY 04 1999

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 _____