KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

TYPE TEST: Open Flow Deliverability 9/4/2013 15-057-20-20 7/5-0000 TEST DATE: API No. Company Lease Ritchie Exploration Brown 3AB County Location Section RNG (E/W) Acres Attributed Ford NW NW 28s 640 Field Reservoir Gas Gathering Connection Mississippian Superior Pipeline Completion Date Plug Back Total Depth Packer Set at 3-1-11 5114 none Casing Size Weight Internal Diameter Set at Perforations 4.500 10.500 4.052 5144 4982 5005 Tubing Size Weight Internal Diameter Set at Perforations 2.875 8.700 2.500 5005 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? saltwater Producing Thru (Annulus/Tubing) % Carbon Dioxide % Nitrogen Gas Gravity- Gg tubing 0.074 15.878 0.692 Vertical Depth (H) Pressure Taps Meter Run Size 5151 flange 3.068 Pressure Buildup: Shut in 8/31/2013@1115 TAKEN 9/3/2013@1330 Well on Line: Started 9/3/2013@1330 TAKEN 9/4/2013@1330 **OBSERVED SURFACE DATA** Casing WellHead Press. Static/ Tubing WellHead Press. Orifice Meter Pressure Flowing WellHead Liquid (Pw) (Pt) (Pc) $(P_w)(P_t)(F_c)$ Dynamic Size Pressure Diff. Temp. Temp. Duration Prod. In. H 20 Property psig (Hours) Barrels psig Shut-in 269 283 269 283 74.2 Flow 1.375 29.4 18.20 85 157 171 140 154 24.0 FLOW STREAM ATTRIBUTES COEFFICIENT (METER) EXTENSION GRAVITY FLOWING TEMP RATE OF FLOW DEVIATION (F_b) PRESSURE FACTOR FACTOR FACTOR $^{\rm G}$ m GOR Pm x Hw Mcfd psia Fa Ft Mofd Fpv 9.486 43.8 28.23 1.2021 0.9768 1.0026 315 0.692 (OPEN FLOW)(DELIVERABILITY) CALCULATIONS $(Pa)^2 = 0.207$ 80.3 (Pd)² (Pc - 14.4) + 14.4 =Backpressure Open Flow Curve Slope"n' Deliverability -- or -= R x Antilog Assigned n x LOG Antilog Mcfd Standard Slope 80.11 50.94 1.573 0.1966 1.000 0.19661.573 495 OPEN FLOW 495 Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia The undersigned authority, on behaf of the Company, states that he is duly authorized to make the abo stated herein and that said report is true and correct. Executed this the KCC WICHITA For Company SEP 2 3 2013 Checked by

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