## KANSAS CORPORATION COMMISSION

FORM G-2 (Rev.8/98)

ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST TYPE TEST: Open Flow ☐ Deliverability 6-24-14 15-057-20576-00-01 TEST DATE: API No. Well Number Company Lease Ritchie Exploration #1 Bonnie Carson County Location Section RNG (E/W) Acres Attributed Ford W2-NW-SE 17-27S-23W Field Reservoir Gas Gathering Connection Morrow Sand, Mi Superior Pipeline Completion Date Plug Back Total Depth Packer Set at 3/18/14 5042 Casing Size Internal Diameter Weight Set at Perforations Tο 5.500 15.500 5.000 5072 4932 4898 Tubing Size Weight Internal Diameter Set at Perforations Τo 2.875 6.400 2.594 4917 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Work Over Gas Water Producing Thru (Annulus/Tubing) % Carbon Dioxide % Nitrogen Gas Gravity- Gg Tubing 19.821 .104 .702 Vertical Depth (H) Pressure Taps Meter Run Size 4915 3.068 Flange 6-24-14 @1:00 P.M. Pressure Buildup: Shut in 6-22-14 @1:00 P.M. TAKEN 6-25-14 @1:00 P.M. Well on Line: Started TAKEN 6-26-14 @1:00 P.M. **OBSERVED SURFACE DATA** Tubing WellHead Press. Casing WellHead Press. Static/ Orifice Meter Pressure Flowing WellHead Liquid  $(P_w)(P_t)(P_c)$ (P<sub>w</sub>) (P<sub>t</sub>) (F<sub>c</sub>) Size Diff. Dynamic Pressure Temp. Temp. Duration Prod. Property in. psig In. H ,0 (Hours) Barrels psig ŧ. ŧ. psia psia psig Shut-in 1121 1135 1121 1135 72.0 1.500 9.00 84.5 884 898 Flow 984 998 24.0 1.0 FLOW STREAM ATTRIBUTES COEFFICIENT (METER) EXTENSION FLOWING TEMP GRAVITY DEVIATION RATE OF FLOW (F<sub>b</sub>) PRESSURE G m FACTOR FACTOR FACTOR COR Pm×Hw Mcfd Mcfd DSIA FŁ Fσ Fpv 11,410 98.9 29.83 1.0632 1.1935 1.0111 436780 436 .711 (OPEN FLOW)(DELIVERABILITY) CALCULATIONS  $(Pa)^2 = 0.207$ (Pd)<sup>2</sup>  $(Pc)^2 = 1289.1$ 997.0 (Pc - 14.4) + 14.4 =**Pd** =  $(P_0)^2 - (P_0)^2$ Backpressure Open Flow Deliverability Curve Slope"n" Assigned = R x Antilog LOG n x LOG Antilog Mcfd Standard Slope 3.787 1288.93 292.13 4.412 .6447 .5783 .897 1653 1653 OPEN FLOW 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 above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 26th day of June

> KCC WICHITA 1111 1 4 2014 RECEIVED

Witness (if any)

For Commission

<u>Ritchie Exploration</u> Hosco Testing & Measurement