KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

(Rev 8/98) TYPE TEST: Open Flow Deliverability TEST DATE: 12/13/10 15-033-21,051 Lease Thoroughbred Associates KACI County Location Section тыр RNG (R/W) Acres Attributed COMANCHE 32 160 Field Reservoir Gas Gathering Connection MISSISSIPPI Completion Date Plug Back Total Depth Packer Set at 5330 Casing Size Weight Internal Diameter Set at Perforations To 5.500 15.500 4.950 5330 5230 5236 Tubing Size Weight Internal Diameter Set at Perforations 2.375 4.700 1.950 5100 Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Producing Thru (Annulus/Tubing) % Carbon Dioxide % Nitrogen Gas Gravity- Gg TUBING .253 1.220 .624 Vertical Depth (H) Pressure Taps Meter Run Size 5230 **FLANGE** Pressure Buildup: Shut in 12/10/10 9:04 AM TAKEN Well on Line: Started 12/13/10 10:40 AM TAKEN OBSERVED SURFACE DATA Casing WellHead Press. Tubing WellHead Press. Static/ Orifice Meter Pressure Flowing WellHead Liquid $(P_{\mathbf{w}})$ $(P_{\mathbf{t}})$ $(P_{\mathbf{c}})$ (P_{α}) (P_{β}) (P_{α}) Dynamic Size Pressure Diff. Temp. Temp. Duration Prod. Property in. psig In. H ₂0 (Hours) Barrels t. t. psig psia psig psia Shut-in 168 182 73.5 Plow .500 45.0 42.00 60 60 50 64 24.0 FLOW STREAM ATTRIBUTES CORFFICIENT (METER) EXTENSION GRAVITY PLOWING TEMP DEVIATION RATE OF FLOW (F_b) PRESSURE FACTOR PACTOR FACTOR G m GOR Pm x H Mcfd psia Ft Fg Mofd Fpv 1.214 59.4 49.95 1.2659 1.0000 1.0050 77 .624 (OPEN FLOW)(DELIVERABILITY) CALCULATIONS $(Pa)^2 = 0.207$ Pd = 27.4 (Pc - 14.4) + 14.4 =2.50 Backpressure Open Flow Curve Slope"n' Deliverability = R x Antilog n x LOG Assigned Antilog Mcfd Standard Slope 33.06 29.12 1.135 0551 .850 .0468 1.114 85 30.77 29.12 1.057 .0239 .850 .0203 1.048 80 OPEN FLOR 85 Mcfd 0 14.65 psia DELIVERABILITY 80 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 ledge of the facts Lucary RECEIVED Witness (if any)

KCC WICHITA

JAN 03 2011

Checked by

For Commission