KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

TYPE TEST: Open Flow □ Deliverability 12/13/10 15-033-20949 ~ API No. TEST DATE: Lease Company Associates Bird Th orough bred County Section RNG (E/W) Acres Attributed Comanche C-SE-SW Sec. 16-T32S-R19W 160 Field Reservoir Gas Gathering Connection Mississippi One Oak Completion Date Plug Back Total Depth Packer Set at 1/21/98 5320 None Casing Size Weight Internal Diameter Set at Perforations To 5.500 15.500 4.950 5403 5056 5119 Tubing Size Weight Internal Diameter Set at Perforations 2.000 4.700 1.995 5128 Pump Unit or Traveling Plunger? Type Completion (Describe) Type Fluid Production Casing Salt Water Pumping Producing Thru(Annulus/Tubing) % Carbon Dioxide % Nitrogen Gas Gravity- Gg .180 1.090 Casing 609 Vertical Depth (H) Pressure Taps Meter Run Size 5056 Flange 12/10/10 Pressure Buildup: Shut in TAKEN 3:45 Well on Line: 12/13/10 3:50 Started TAKEN **OBSERVED SURFACE DATA** Casing WellHead Press. Tubing WellHead Press. Static/ Orifice WellRead Meter Pressure Flowing Liquid (P_w) (P_t) (P_c) $(P_{\underline{u}})$ $(P_{\underline{t}})$ $(F_{\underline{c}})$ Diff. Dynamic Size Dressure Temp. Temp. Duration Prod. Property in. psig In. H₂0 (Hours) Barrels psig psia t. t. psia psiq Shut-in 240 254 72.0 1.250 30.0 24.00 60 85 Flow 60 99 24.0 FLOW STREAM ATTRIBUTES CORFFICIENT (METER) EXTENSION GRAVITY PLOWING TEMP DEVIATION RATE OF FLOW (F_b) PRESSURE PACTOR FACTOR PACTOR GOR Pm x H Mcfd psia Mcfd Fg έpv 7.771 44.4 32.64 1.2814 1.0000 1.0036 326 609 (OPEN FLOW)(DELIVERABILITY) CALCULATIONS $(Pa)^2 = 0.207$ $(Pw)^2 =$ $(Pd)^2 = 2.50$ 64.7 9.9 19.7 Pd = (Pc - 14.4) + 14.4 =Backpressure Open Flow Curve Slope"n' Deliverability Assigned = R x Antilog n x LOG Antilog Mofd Standard Slope 64.51 54.77 1.178 .0711 .609 .0433 1,105 360 62.22 54.77 1.136 0554 .609 0337 1.081 352 OPEN FLOW 360 Mcfd 6 14.65 psia DELIVERABILITY 352 Mcfd 8 14.65 psia The undersigned authority, on behaf of the Company, states that he is duly authorized to make the a knowledge of the facts ove report and that he stated herein and that said report is true and correct. Executed this the RECEIVED Witness (if any) JAN 03 2011

KCC WICHITA

Checked by

For Commission