KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

See Instructions on Reverse Side)

FORM G-2 (Rev. 8/98)

ype Test: Open Flow 15-175-21874 Deliverability TEST DATE: 8-26-02 API No. 15- 175-2 LEASE Well Number COMPANY C.S. High Helmerich & Payne, Inc. 1-2 TWN COUNTY LOCATION SECTION RNG **ACRES** 640 Seward 4030 FSL & 4030 FEL 33 **31S** 32W RESERVOIR PIPELINE CONNECTION FIELD Hugoton Chase Oneok COMPLETION DATE PLUG BACK PACKER SET AT 7/18/02 TOTAL DEPTH 2790 WT. PERF CASING SIZE LD. **SET AT** TO 5 1/2 14 2782 2654 2692 **TUBING SIZE** WT. I.D. **SET AT PERF** TO 2 3/8 2699 TYPE COMPLETION (Describe) TYPE FLUID PRODUTION PUMP UNIT OR TRAVELING PLUNGER? YES/NO Single PRODUCING THRU RESERVOIR TEMPERATURE F BAR.PRESS Pa Tbg/Csg 14.4 Psia GAS GRAVITY - Gg **%CARBON DIOXIDE %NITROGEN** API GRAVITY OF LIQUID VERTICAL DEPTH (H) TYPE METER CONN. (METER RUN)(PROVER)SIZE 2835 Flange 2 x 1.125 _02_ at_ SHUT-IN PRESSURE: SHUT IN: 8/23 20 (AM) (PM) 8/26 TAKEN 20 _02__ at (AM) (PM) FLOW TEST: STARTED 8/19 20 _02__ at _ (AM) (PM) **TAKEN** 8/22 20 02 (AM) (PM) at **OBSERVED DATA DURATION OF SHUT-IN** CASING WELLHEAD **TUBING WELLHEAD** SHUT-IN **ORIFICE** (METER) DIFF. **FLOWING** WELL-DURATION **PRESS PRESS** LIQUID OR SIZE (PROVER) TEMP. HEAD **HOURS** PROD. TEMP **FLOW** PRESSURÉ (Hw)(Hd) in. BbLS. (Pw)(Pt)(Pc) (Pw)(Pt)(Pc) psig psig Psig Т psig psig SHUT-IN 120.2 120.2 134.6 FLOW 1.125 41.5 1.1 89.5 103.9 RATE OF FLOW CALCULATIONS COEFFICIENT **EXTENSION** (METER) Gravity Flowing Temp Deviation Rate of Flow (PROVER) (Fb)(Fp) Factor Factor Factor **GOR** Gm **Pmxhw** Mcfd **PRESSURE** Fg. Mcfd Fpv Psig 7.84 7762.5 55.9 60.86 (OPEN FLOW) (DELIVERABILITY) CALCATIONS (Pa)2=0.207 $(Pc)2 = __18117.16_(Pw)2 = __10795.21$ Pd= (Pc-14.4) + 14.4 =_259.01 $(Pd)2=_{}$ **OPEN FLOW** (Pc)2-(PA)2 Pc2-Pr2 DELIVERABILITY OR (Pc)2 - (Pw)2 Pc2-Pd2 LOG "n" **ANTILOG EQUALS** (Pc)2-(Pd)2 Pc2-Pw2 R X ANTILOG MCFD 7321.95 17857.95 2.45 .38 .85 .33 2.13 129.85 **OPEN FLOW** Mcfd @ 14.65 psia DELIVERABILITY Mcfd @ 14.65 psia The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledgge of the facts stated therein, and that said report is true and correct. Executed this the Helmerich & Payne, Inc Witness (if any)