KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rov.8/98)

TYPE TEST:

28.49

26.20

24.55

24.55

1.160

1.067

| \boxtimes | Open | Flow |
|------------------|-----------|----------|
| $\nu \mathbf{v}$ | L JENHOLI | T IC YOU |

| ⊠ Deli | iverabili | ty | TES: | T DATE: | | 8/14/11 | | | API No. 16 | 5-033-20 | 0,981` | ල ව - | 00 | |
|--|-----------------------------------|-----------------------|--|---------------------|---------|------------------------|----------------------------|-------------------------|--------------------------|------------|-----------------|------------------|---------------------------|--|
| Company | | | | | | | Lease | | | | Well Ro | mber | | |
| Thorou | ghbred , | Associ | ates | | | LC | ONG | "X" TWIN | | | 1 | | | |
| County | | | Loca | ation | | | Sectio | n TWP | RNG (R/W) | | Acres I | ttribu | ted | |
| COMAI | NCHE | | | W | | | SEC | 9-T32S-R | 19W | | 64 | 10 | | |
| Field | | | Res | ervoir | | | | | Gas Gathering Connection | | | | | |
| | | | M | ARMAT | NC | | | | | | | | | |
| Completion | Date | | Plug | Back Tota | al Dept | :b | | | Packer Set at | t. | | | | |
| | | | | | 4980 | <u> </u> | | | | | | | | |
| Casing Size | 8 | Weigh | | ernal Diam | | | Set at | | Perforations | To | | | | |
| 4.500 10.500 | | | | 3.950 | | | 5050 | | 4962 4965 | | | | | |
| Tubing Size | • | Weigh | | Internal Diameter | | | Set at Pe | | | To | | | | |
| 2.375 | | 4.70 | | | .950 | | 495 | <u>o</u> | | | | | | |
| Type Comple TUBING | - | scribe) | Тур | Pluid Pro | oductio | n | | | Pump Unit or | Traveling | y Plunge | r? | | |
| Producing T | Thru (Annul | us/Tubi | ng) % Ca | % Carbon Dioxide | | | % Nitrogen | | | | Gas Gravity- Gg | | | |
| TUBING | 3 | | | .015 | | | | | 1.706 | | .608 | | | |
| Vertical De | epth (H) | - | Pres | Pressure Taps | | | - | ··· | - | | Meter R | un Size | • | |
| 4962 | · | | | FL | ANGE | <u> </u> | | | | | | 3 | | |
| Pressure Bu | ildup: Sh | ot in | 8/11/11 | | | | | TAKEN | 10:00 | AM | | •• | | |
| Well on Lin | se: St | arted | 8/14/11 | | | | | TAKEN | 2:00 N | 1 | | | | |
| | | | | ОВ | SER | /ED SUI | RFAC | CE DATA | | | | | | |
| Dynamic | Orifice Size | Meter Pressu | re Diff. | 1 | | Casing WellHead Press. | | . Tubing WellRead Press | | ŀ | Duration | Liquid Prod. | | |
| Property | in. psig | | In. H ₂ 0 | t. 1 | | pa | psig psia | | psig | psia | ─ , | Hours) | Barrels | |
| Shut-in | | | | | | 1 | 55 | 169 | | | | 76.0 | | |
| Flow | .500 | 45.0 | 0 1.00 | 60 | 60 | | 50 | 64 | | | | 24.0 | | |
| | | | | FL | OW: | STREAM | Λ AT | TRIBUTES | 3 | | | | | |
| CORPFICIEN | T (ME | TER) | EXTENSION | GRAVIT | Y | FLOWING T | EMP | DEVIATION | RATE OF | FIOR | | 7 | | |
| (F _b) | PRES | PRESSURE | | FACTOR | | FACTOR | | FACTOR | R | | GOR | | а | |
| Mcfd | ps | ia | VPm x Hv | Fg | | . Pt | 1 | Fpv | Mcfd | | S-JA | | G m | |
| 1.214 | 59. | .4 | 7.71 | 1.282 | 5 | 1.0000 | | 1.0047 | 12 | | | .608 | | |
| | | | (OF | PENFIC | | DELIVES | | | CULATION | <u>-</u> - | | | 003 | |
| (Pc) ² = 2 | 28.7 | (1 | Pw) ² = 4.1 | | Pd = | | | | 4.4) + 14.4 = | | 2 | = 0.20 | 7 50 | |
| (P _C) ² - (P _C) or (P _C) ² - (P _C) | a) ² (P _C) | 2 - (P _w) | $\begin{bmatrix} (P_c)^2 - (P_c)^2 \\ (P_c)^2 - (P_c)^2 \end{bmatrix}$ | a ^{j2} Log | | Curv | kpress e Slop - or - | ure e"n" | | Antilog | | Open 1 | Plow ability atilog | |

OPEN FLOW 13 Mcfd @ 14.65 psia 12 Mcfd 8 14.65 psia The undersigned authority, on behaf of the Company, states that he is duly authorized berein and that said report is true and correct. Executed this the .20 12 RECEIVED Witness (if any) APR 0.5 2012 For Commission

.0646

.0282

Standard Slope

.850

.850

KCC WICHITA

.0549

.0240

Antilog

1.135

1.057

Mcfd

13

Checked by