STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

Test: Thunderbird Drilling Co.
Location: Horinek
County: Kawiliation
Field: Horinek Reservoir
Lease: Clear Creek
Completion Date: 6-9-88
Type Completion (Describe): Plug Back T.D.
Pipe Connection: Packer Set At
Production Method: 5X57
Type Fluid Production: 4214 - 4240
Flowing: Pumping Gas Lift
Casing Size: 51/2
Casing Weight: I.D. 4239
Tubing Size: 2
Tubing Weight: I.D. 4210

Pretest:
Test:

Duration Hrs.

Starting Date: Time
Ending Date: Time
Duration Hrs.

Producing Wellhead Pressure: Separator Pressure: Choke Size

Casing: Tubing:

Bbls./In.
Tank
Starting Gauge
Ending Gauge
Net Prod. Bbls.

Size Number Feet Inches Barrels Feet Inches Barrels Water Oil

Pretest:
Test:

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections
Orifice Meter Range

Pipe Taps: Flange Taps:

Run-Prover orifice
Prover-Tester Size
Measuring Device

Meter-Prover-Tester Pressure
Differential

Gravity

Flowing Temp.

Reading

State Corporation Commission

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Pb)/(Pm)(OWTC)
Meter-Prover Press. (Psia)/(Pm)
Extension \sqrt{hw x Pm}
Gravity Factor (Fg)

Flowing Temp. Factor (Ft)

Deviation Factor (Fpv)

Chart Factor (Fd)

Gas Prod. MCFD
Oil Prod.

Cubic Ft.

Flow Rate (R): Bbls./Day: (GOR) = Gas/Oil Ratio per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the day of

For Offset Operator

For State

For Company

Form C-5 (5/88)
STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST
BARREL TEST

OPERATOR __________________________________________
LOCATION OF WELL ____________________________________
LEASE ____________________________________________
OF SEC. T R ______________________________
WELL NO. ________________________________________
COUNTY __________________________________________
FIELD ____________________________________________
PRODUCING FORMATION _____________________________
Date Taken _____________________________________
Date Effective ___________________________________
Well Depth ____________________ Top Prod. Form ______ Perfs
Casing: Size __________ Wt. __________ Depth __________ Acid
Tubing: Size __________ Depth of Perfs __________ Gravity
Pump: Type __________ Bore __________ Purchaser __________
Well Status _______________________________________
Pumping, flowing, etc.

TEST DATA
Permanent ______ Field ______ Special ______
Flowing _______ Swabbing _______ Pumping _______

STATUS BEFORE TEST:
PRODUCED _______ HOURS
SHUT IN _______ HOURS
DURATION OF TEST _______ HOURS _______ MINUTES _______ SECONDS
GAUGES: WATER ______ INCHES ______ PERCENTAGE
 OIL ______ INCHES ______ PERCENTAGE
GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) __________
WATER PRODUCTION RATE (BARRELS PER DAY) __________
OIL PRODUCTION RATE (BARRELS PER DAY) __________ PRODUCTIVITY
STROKES PER MINUTE __________
LENGTH OF STROKE _______ INCHES
REGULAR PRODUCING SCHEDULE _______ HOURS PER DAY.
COMMENTS ____________________________________________
_____________________________________________________
_____________________________________________________

WITNESSES:

FOR STATE ____________________________
FOR OPERATOR _______________________
FOR OFFSET ________________________