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# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name DOLL FAMILY Test No. 1 Date 9/18/92

Company ENSIGN OPERATING Zone CHEROKEE

Address 621 17th ST #1800 DENVER CO 80293 Elevation 2684 G.L.

Co. Rep./Geo. DUANE MOREDOCK Cont. MURFIN RIG #3 Est. Ft. of Pay

Location: Sec. 9 Twp. 16S Rge. 30W Co. LANE State KS

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Interval Tested 4321-4392 Drill Pipe Size 4.5" XH

Anchor Length 71 Wt. Pipe I.D. - 2.7 Ft. Run 500

Top Packer Depth 4316-4321 Drill Collar – 2.25 Ft. Run 290

Bottom Packer Depth 4392 Mud Wt. 9.1 lb/Gal.

Total Depth 4448 Viscosity 40 Filtrate 11.2

Tool Open @ 8:15 Initial Blow WEAK BLOW DEAD IN 2 MINUTES

Final Blow WEAK SURGE AND THEN DEAD

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

OCT 12 CONFIDENTIAL

RELEASED NOV 18 1993 FROM CONFIDENTIAL

BHT 130 °F Gravity °API @ °F Corrected Gravity °API

RW 3.5 @ 70 °F Chlorides 1600 ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2140.6 PSI AK1 Recorder No. 13849 Range 4375

(B) First Initial Flow Pressure 91.2 PSI @ (depth) 4309 w / Clock No. 28528

(C) First Final Flow Pressure 96.7 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 1060.4 PSI @ (depth) 4313 w / Clock No. 8376

(E) Second Initial Flow Pressure 92.3 PSI AK1 Recorder No. 7437 Range 4200

(F) Second Final Flow Pressure 92.3 PSI @ (depth) 4493 w / Clock No. 27567

(G) Final Shut-in Pressure 1040.2 PSI Initial Opening 30 Final Flow 15

(H) Final Hydrostatic Mud 2115.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative JOHN RIEDL

RECEIVED STATE CORPORATION COMMISSION OCT 18 1993 CONSERVATION DIVISION Wichita