

15-175-21216

COPY

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

KCC 6-35s-33w

FEB 03

CONFIDENTIAL

Drill-Stem Test Data

Well Name LIBERAL #2-6 Test No. 1 Date 12/1/91
 Company ENSGN OPERATING COMPANY Zone Tested MORROW/CHESTE
 Address 621 17TH STREET #1800 DENVER COLO Elevation 2866 K.B.
 Co. Rep./Geo. R WACKER/J PRUIT Cont. GABBERT-JONES RIG #3 Est. Ft. of Pay _____
 Location: Sec. 6 Twp. 35S Rge. 33W Co. SEWARD State KS

Interval Tested 6158-6279 Drill Pipe Size 4.5 XH
 Anchor Length 121 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 6153 Drill Collar - 2.25 Ft. Run 576
 Bottom Packer Depth 6158
 Total Depth 6279

Mud Wt. 9 lb / gal. Viscosity 42 Filtrate 9.1

Tool Open @ 7:15 PM Initial Blow PACKER FAILURE-TRIED TO RESET-NO HELP
TOH W/ TOOL

Final Blow _____

Recovery - Total Feet 530 Flush Tool? NO

Rec. 530 Feet of DRILLING MUD

Rec. _____ Feet of _____

RELEASED

Rec. _____ Feet of _____

MAR 11 1994

Rec. _____ Feet of _____

FROM CONFIDENTIAL

Rec. _____ Feet of _____
 BHT 142 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2966.3 PSI Ak1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure _____ PSI @ (depth) 6160 w/Clock No. 19960

(C) First Final Flow Pressure _____ PSI Ak1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure _____ PSI @ (depth) 6274 w/Clock No. 27566

(E) Second Initial Flow Pressure _____ PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud 2922.4 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative ROD STEINBRINK

TOTAL PRICE \$ 1050

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Drill-Stem Test Data

Well Name LIBERAL #2-6 Test No. 2 Date 12/2/91
Company ENSIGN OPERATING COMPANY Zone Tested LWR MORR/CHES
Address 621 17TH STREET #1800 DENVER COLO Elevation 2866 K.B.
Co. Rep./Geo. R WACKER/J PRUIT cont. GABBERT-JONES RIG #3 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 35S Rge. 33W Co. SEWARD State KS

Interval Tested 6164-6279 Drill Pipe Size 4.5 XH
Anchor Length 115 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6159 Drill Collar - 2.25 Ft. Run 576
Bottom Packer Depth 6164
Total Depth 6279

Mud Wt. 9 lb / gal. Viscosity 42 Filtrate 9.1

Tool Open @ 12:58 AM Initial Blow STRONG BLOW OFF BOTTOM IN 1 MINUTE - WENT TO 2"
ISI: BLED OFF BOW - NO RETURN

Final Blow STRONG RETURN OFF BOTTOM IMMEDIATELY - GAS TO
SURFACE IN 5 MINUTES

Recovery - Total Feet 100 Flush Tool? NO

Rec. 100 Feet of DRILLING MUD

RELEASED

Rec. _____ Feet of _____

MAY 11 1994

Rec. _____ Feet of _____

FROM CONFIDENTIAL

Rec. _____ Feet of _____

BHT 139 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2920.8 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 136 PSI @ (depth) 6168 w/Clock No. 19960

(C) First Final Flow Pressure 136 PSI AK1 Recorder No. 13615 Range 4925

(D) Initial Shut-in Pressure 1797.7 PSI @ (depth) 6274 w/Clock No. 27566

(E) Second Initial Flow Pressure 161 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 141.9 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1855.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2815.4 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK TOTAL PRICE \$ 1200

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FEB 03

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Drill-Stem Test Data

Well Name LIBERAL #2-6 Test No. 3 Date 12/4/91
Company ENSIGN OPERATING COMPANY Zone Tested CHEST/ST LOUI
Address 621 17TH STREET #1800 DENVER COLO Elevation 2866 K.B.
Co. Rep./Geo. R WACKER/J PRUIT Cont. GABBERT-JONES RIG #3 Est. Ft. of Pay 20
Location: Sec. 6 Twp. 35S Rge. 33W Co. SEWARD State KS

Interval Tested 6480-6622 Drill Pipe Size 4.5 XH
Anchor Length 142 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6475 Drill Collar - 2.25 Ft. Run 546
Bottom Packer Depth 6480
Total Depth 6622

Mud Wt. 8.8 lb / gal. Viscosity 50 Filtrate 8.6

Tool Open @ 12:23 AM Initial Blow STRONG BLOW OFF BOTTOM IN 30 SECONDS/GAS TO
SURFACE IN 16 MIN/ ISI:2" NEVER COMPLETELY DIED OFF
Final Blow STRONG RETURN GAUGING GAS 3.4 LBS. ON 2"
PITOT TUBE=1448.6 MCF/DAY

Recovery - Total Feet 970 Flush Tool? NO **RELEASED**

Rec. 360 Feet of GSY WATERY MUD-7%GAS/13%WTR/80%MUD

Rec. 610 Feet of GSY MUDDY WATER-15%GAS/70%WTR/15%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 145 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.39 @ 70 °F Chlorides 18000 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud 3201.8 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 847.2 PSI @ (depth) 6484 w/Clock No. 19960

(C) First Final Flow Pressure 962.9 PSI AK1 Recorder No. 13309 Range 4025

(D) Initial Shut-in Pressure 2539.8 PSI @ (depth) 6617 w/Clock No. 27566

(E) Second Initial Flow Pressure 899.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 1116.4 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 2341 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 3050.4 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROD STEINBRINK TOTAL PRICE \$ 1250