

15-025-21071

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

DEC 1 2

CONFIDENTIAL

Drill-Stem Test Data

Well Name BARE #1-12 Test No. 1 Date 11/24/91
 Company ENSIGN OPERATING COMPANY Zone Tested MORROW
 Address 621 17TH STREET #1800 DENVER COLO Elevation 1834 K.B.
 Co. Rep./Geo. JOHN PRUIT Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
 Location: Sec. 12 Twp. 33S Rge. 21W Co. CLARK State KS

Interval Tested 5184-5225 Drill Pipe Size 4.5 XH
 Anchor Length 41 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5179 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 5184
 Total Depth 5225

Mud Wt. 8.8 lb / gal. Viscosity 45 Filtrate 9.2

Tool Open @ N/A Initial Blow MISRUN-HIT BRIDGE-TOOL WOULD NOT GO TO BOTTOM
 @ 1200'

Final Blow _____

Recovery — Total Feet _____ Flush Tool? NO

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11400 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5189 w/Clock No. 25828

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-In Pressure _____ PSI @ (depth) 5222 w/Clock No. 27594

(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 251993 Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-In 251993 Final Shut-In _____

FROM CONFIDENTIAL

Our Representative TOM HORACEKTOTAL PRICE \$ 750

TRILOBITE TESTING COMPANY
P.O. Box 362 • Hays, Kansas 67601

DEC 12

CONFIDENTIAL

Drill-Stem Test Data

Well Name BARE #1-12 Test No. 2 Date 11/25/91
Company ENSIGN OPERATING COMPANY Zone Tested MORROW
Address 621 17TH STREET #1800 DENVER COLO Elevation 1834 K.B.
Co. Rep./Geo. JOHN FRUIT Cont. ALLEN DR LG #5 Est. Ft. of Pay 20
Location: Sec. 12 Twp. 33S Rge. 21W Co. CLARK State KS

Interval Tested 5184-5225
Anchor Length 41
Top Packer Depth 5179
Bottom Packer Depth 5184
Total Depth 5225

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 583
Drill Collar - 2.25 Ft. Run 583

Mud Wt. 9.1 lb / gal. Viscosity 65 Filtrate 9.2

Tool Open @ 9:55 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 1 MIN
ISI: BLED OFF BLOW-STRONG BLOW-BUILT TO BOTTOM IN 1 MIN-GTS IN 30 MIN
Final Blow STRONG BLOW -BOTTOM OF BUCKET SOON AS TOOL OPENED
FSI: BLED OFF BLOW-STRONG BLOW-BUILT TO BOTTOM IN 1 MINUTE

Recovery — Total Feet 3500 Flush Tool? NO

Rec. 1080 Feet of GASSY DRILLING MUD

Rec. 2420 Feet of SALT WATER

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.15 @ 69 °F Chlorides 49000 ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 2644.7 PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 592.3 PSI @ (depth) 5189 w/Clock No. 25828

(C) First Final Flow Pressure 978.4 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1683.2 PSI @ (depth) 5222 w/Clock No. 27594

(E) Second Initial Flow Pressure 1020.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 1497.5 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 2052.5 1993 41683.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2610.4 PSI Initial Shut-In 60 Final Shut-In 120

Our Representative TOM HORACEK

TOTAL PRICE \$ 1100