

Computer Invented

JUL 6

CONFIDENTIAL

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

6-16-24W

Well Name 1-6 McNinch Test No. 1 Date 6/15/93
Company ENSIGN OPERATING COMPANY Zone MISSISSIPPI
Address 621 17th ST #1800 DENVER CO 80293 Elevation 2489
Co. Rep./Geo. DUANE MOREDOCK Cont. DUKE #4 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 16S Rge. 24W Co. NESS State KS

Interval Tested 4436-4486
Anchor Length 50
Top Packer Depth 4431
Bottom Packer Depth 4436
Total Depth 4486

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 161
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.4 lb/Gal.
Viscosity 49 Filtrate 12

Tool Open @ 9:49 PM Initial Blow PACKER FAILURE -- TRIED TO SET AGAIN -- NO HELP

Final Blow _____

Recovery - Total Feet 520

Flush Tool? NO RECEIVED
STATE CORPORATION COMMISSION

Rec. 520 Feet of MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

RELEASED

JUL 12 1993

SEP 6 1994

CONSERVATION DIVISION
Wichita, Kansas

FROM CONFIDENTIAL

BHT _____ °F Gravity _____ °API _____ °F Corrected Gravity _____ °API
RW _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure _____ PSI (depth) 4440 w / Clock No. 31154

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure _____ PSI (depth) 4482 w / Clock No. 25814

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

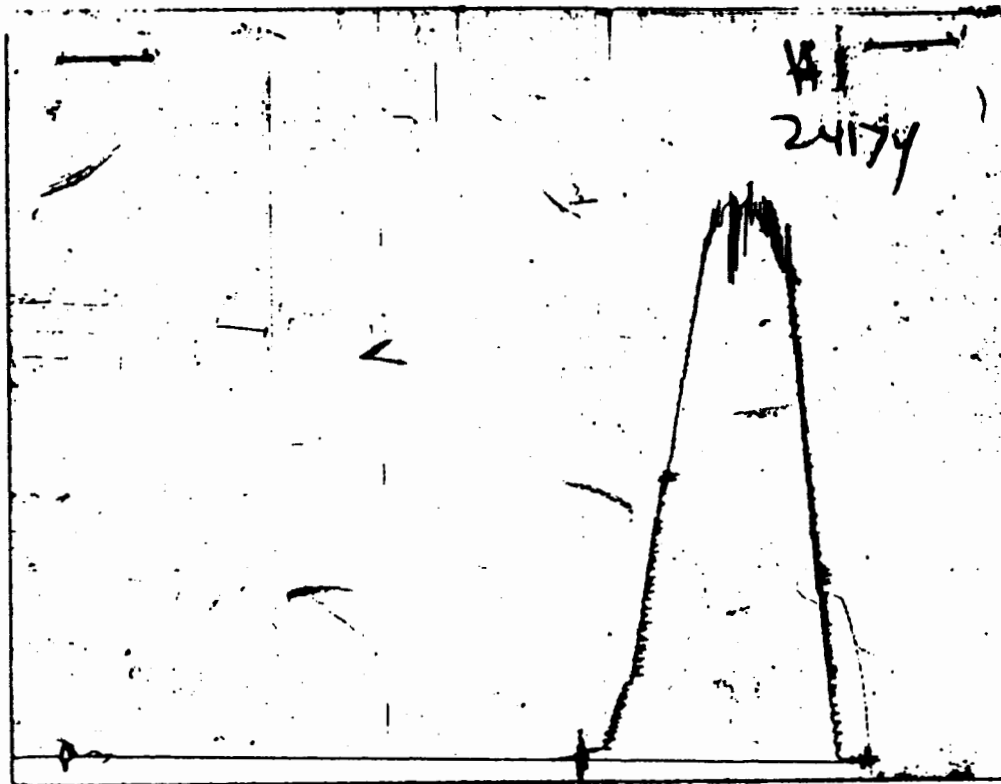
(F) Second Final Flow Pressure _____ PSI (depth) _____ w / Clock No. _____

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

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

PAUL SIMPSON

Our Representative _____



KCC
JUL 6
CONFIDENTIAL

This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

RECEIVED
STATE CORPORATION COMMISSION

JUL 12 1993

CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name 1-6 McNinch Test No. 2 Date 6/16/93
 Company ENSIGN OPERATING COMPANY Zone MISSISSIPPI
 Address 621 17th ST #1800 DENVER CO 80293 Elevation 2489
 Co. Rep./Geo. DUANE MOREDOCK Cont. DUKE #4 Est. Ft. of Pay _____
 Location: Sec. 6 Twp. 16S Rge. 24W Co. NESS State KS

Interval Tested 4468-4486 Drill Pipe Size 4.5" XH
 Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run 161
 Top Packer Depth 4463 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4468 Mud Wt. 9.4 lb/Gal.
 Total Depth 4486 Viscosity 49 Filtrate 12

Tool Open 1:10 AM Initial Blow WEAK 1/2" BLOW BUILDING TO 1 1/4"

Final Blow NO BLOW

Recovery - Total Feet 63 Flush Tool? NO

Rec. 1 Feet of OIL
 Rec. 62 Feet of THIN WATERY MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 120 °F Gravity 39 °API 80 °F Corrected Gravity 37 °API
 RW 0.35 Chlorides 68 ppm Recovery Chlorides 7600 ppm System

(A) Initial Hydrostatic Mud 2269.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 16.5 PSI (depth) 4471 w / Clock No. 31154

(C) First Final Flow Pressure 36.4 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1098.4 PSI (depth) 4482 w / Clock No. 25814

(E) Second Initial Flow Pressure 45.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 59.4 PSI (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 936.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2255.6 PSI Initial Shut-in 60 Final Shut-in 60

PAUL SIMPSON

Our Representative _____

COPY

RECEIVED

STATE COMMISSION

JUL 12 1993

CONSERVATION DIVISION

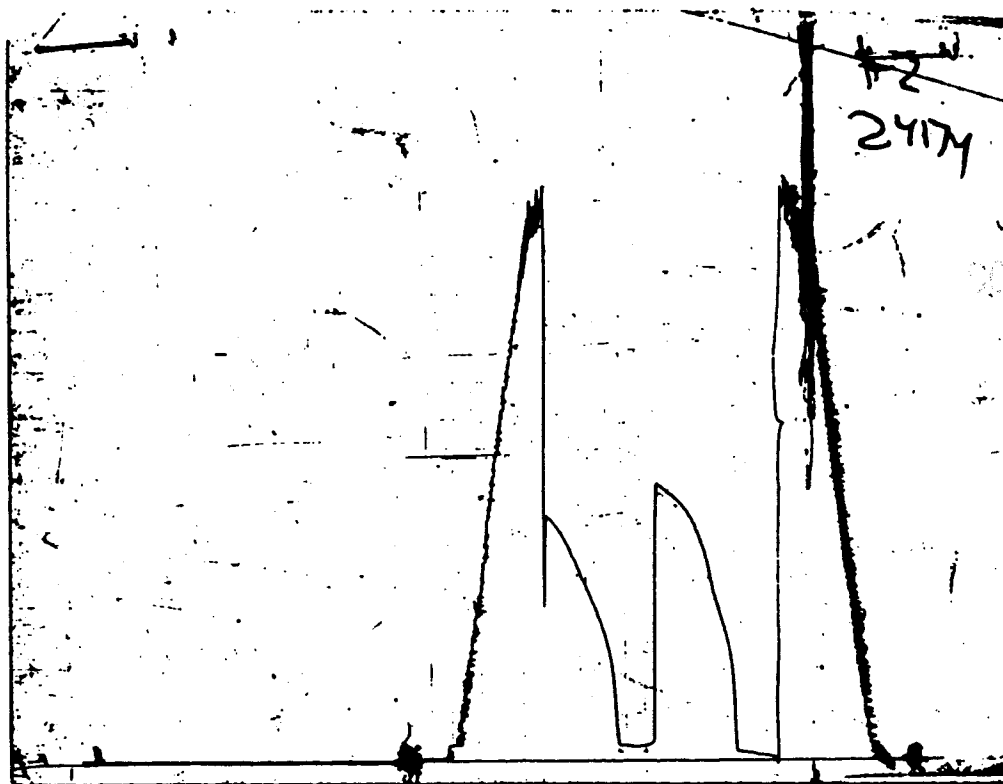
RELEASED

SEP 6 1994

FROM CONFIDENTIAL

CHART PAGE

COPY



KCC

JUL 6

CONFIDENTIAL

This is an actual photograph of recorder chart

RECEIVED
STATE CORPORATION COMMISSION

JUL 12 1993

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2261	2269.5
(B) FIRST INITIAL FLOW PRESSURE	7	16.5
(C) FIRST FINAL FLOW PRESSURE	30	36.4
(D) INITIAL CLOSED-IN PRESSURE	1085	1098.4
(E) SECOND INITIAL FLOW PRESSURE	37	45.9
(F) SECOND FINAL FLOW PRESSURE	44	59.4
(G) FINAL CLOSED-IN PRESSURE	949	936.2
(H) FINAL HYDROSTATIC MUD	2245	2255.6

FLUID SAMPLER DATA

COPY

Ticket No.: 6009 Date: 6/16/93
 Company: ENSIGN OPERATING COMPANY
 Lease: 1-6 McNinch Test No.: 2
 County: NESS Sec.: 6 Twp.: 16S Rng.: 24W

SAMPLER RECOVERY

Gas
 Oil 50
 Mud 2300
 Water 1650
 Other
 Pressure 50
 TOTAL 4000

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity 0.35 ohms@ 68 F
 Chlorides 20000 ppm.
 Gravity 37 corrected @60F

PIT MUD ANALYSIS

Chlorides 7600
 Resistivity 0.7 ohms@ 80 F
 Viscosity 49
 Mud Wt. 9.4
 Filtrate 12
 Other

RECEIVED
 STATE CORPORATION COMMISSION

JUL 12 1993

CONSERVATION DIVISION
 Wichita, Kansas

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm