TRILOBITE TESTING COMPANY

29-21-14W

P.O. Box 362 • Hays, Kansas 67601

Computer Inventoried

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 1 Date 12-13-87

Company Masters Operating Company Zone Tested LKC 'I'

Address P.O. Box 3356 Wichita, Ks. 67202 Elevation 1947

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks.

Interval Tested 3560 - 3577 Drill Pipe Size 4½" FH

Anchor Length 17 Top Choke — 1"

Top Packer Depth 3555 Bottom Choke — ¾"

Bottom Packer Depth 3560 Hole Size — 7⅞"

Total Depth 3577 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 941

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.8 lb./gal. Viscosity 45 Filtrate 12

Tool Open @ 1"51 p.m. Initial Blow 1½" blow building to bottom of bucket in 4 minut

2" blowback on shutin

Final Blow 2" blow building to bottom of bucket in 2 minutes

RECEIVED
STATE CORPORATION COMMISSION
DEC 29 1988
CONSERVATION DIVISION
Wichita, Kansas

Recovery — Total Feet 370 Flush Tool?

Rec. 1230 Feet of gas in pipe

Rec. 250 Feet of gassy oil 25% gas, 75% oil

Rec. 120 Feet of oil cut watery mud 5% oil, 35% water, 60% mud

Rec. Feet of

Rec. Feet of

BHT 116 °F Gravity °API @ °F Corrected Gravity 18est °API

RW .125 @ 60 °F Chlorides 80,000 ppm Recovery Clorides 54,000 ppm System

(A) Initial Hydrostatic Mud 1922.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 76.9 PSI @ (depth) 3576 w/Clock No. 27585

(C) First Final Flow Pressure 68.6 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-in Pressure 735.4 PSI @ (depth) 3571 w/Clock No. 25810

(E) Second Initial Flow Pressure 123.7 PSI Initial Opening 15

(F) Second Final Flow Pressure 197.5 PSI Initial Shut-in 30

(G) Final Shut-in Pressure 768.5 PSI Final Flow 120

(H) Final Hydrostatic Mud 1870.7 PSI Final Shut-in 120

Our Representative Paul Simpson TOTAL PRICE ..... $ 400.00

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 2 Date 12-14-87

Company Masters Operating Co. Zone Tested LKC 'K'

Address P.O. Box 3356 Wichita, Ks. 67202 Elevation 1947 KB

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks.

Interval Tested 3600 - 3627 Drill Pipe Size 4½" FH

Anchor Length 27 Top Choke — 1"

Top Packer Depth 3595 Bottom Choke — ¾"

Bottom Packer Depth 3600 Hole Size — 7⅞"

Total Depth 3627 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 941

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.6 lb./gal. Viscosity 47 Filtrate 12.4

Tool Open @ 6"50 a.m. Initial Blow 1" blow building to bottom of bucket in 6 minutes

Final Blow very weak surface blow building to bottom of bucket in 11 minutes

Recovery — Total Feet 1020 Flush Tool?

Rec. 120 Feet of oil cut mud 50% oil, 50% mud

Rec. 180 Feet of gassy oil cut watery muc 10% gas, 35% oil, 10% water, 4

Rec. 240 Feet of gassy oil cut water 10% gas, 10% oil 80% water

Rec. 480 Feet of gassy oil specked water

Rec. Feet of

B 118 °F Gravity °API @ °F Corrected Gravity °API

RW .164 @ 66.3 °F Chlorides 50,000 ppm Recovery Clorides 51,000 ppm System

(A) Initial Hydrostatic Mud 1933.8 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 74.8 PSI @ (depth) 3626 w/Clock No. 27585

(C) First Final Flow Pressure 186.1 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-in Pressure 885.7 PSI @ (depth) 3621 w/Clock No. 25810

(E) Second Initial Flow Pressure 255.7 PSI Initial Opening 30

(F) Second Final Flow Pressure 476.1 PSI Initial Shut-in 60

(G) Final Shut-in Pressure 863.7 PSI Final Flow 60

(H) Final Hydrostatic Mud 1832.6 PSI Final Shut-in 120

Our Representative Paul Simpson TOTAL PRICE ..... $ 400.00

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 3 Date 12/15/87

Company Masters Operating Company Zone Tested Simpson Sand

Address P.O. Box 3356 Wichita, KS 67202 Elevation 1947 K.B.

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State KS

Interval Tested 3755-3777 Drill Pipe Size 4½" F.H.

Anchor Length 22 Top Choke — 1"

Top Packer Depth 3750 Bottom Choke — ¾"

Bottom Packer Depth 3755 Hole Size — 7⅞"

Total Depth 3777 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 941

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.7 lb./gal. Viscosity 43 Filtrate 10.8

Tool Open @ 8:46 A.M Initial Blow 1" blow building to 5"

Final Blow no blow- flush tool- no blow after surge flushed again- surged tool & lost 20 of mud 2" blow decreasing & died.

Recovery — Total Feet 130 Flush Tool? 2nd open

Rec. 130 Feet of slightly oil cut mud less than 5% oil 95% mud.

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

°F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Clorides ppm System

(A) Initial Hydrostatic Mud	2050.4 PSI	AK1 Recorder No.	13337	Range	3975
(B) First Initial Flow Pressure	32.2 PSI	@ (depth)	3776	w/Clock No.	27585
(C) First Final Flow Pressure	54.4 PSI	AK1 Recorder No.	13339	Range	4000
(D) Initial Shut-in Pressure	54.4 PSI	@ (depth)	3771	w/Clock No.	25810
(E) Second Initial Flow Pressure	70 PSI	Initial Opening	30		
(F) Second Final Flow Pressure	70 PSI	Initial Shut-in	60		
(G) Final Shut-in Pressure	70 PSI	Final Flow	60		
(H) Final Hydrostatic Mud	2023.4 PSI	Final Shut-in	60		

Our Representative Paul Simpson TOTAL PRICE ..... $ 400

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 4 Date 12-15-87

Company Masters Operating Company Zone Tested Arbuckle

Address P.O. Box 3356 Wichita, Ks. 67202 Elevation 1947 KB

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks.

Interval Tested 3773 - 3810 Drill Pipe Size 4½" FH

Anchor Length 37 Top Choke — 1"

Top Packer Depth 3768 Bottom Choke — ¾"

Bottom Packer Depth 3773 Hole Size — 7⅞"

Total Depth 3810 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 941

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.6 lb./gal. Viscosity 42 Filtrate 11

Tool Open @ 10:54 p.m. Initial Blow Sled tool 5' when opening 3" blow building to 6½"

Final Blow surface blow building to 5½"

Recovery — Total Feet 320 Flush Tool?

Rec. 20 Feet of Heavily oil cut watery mud 45% oil, 5% water, 50% mud

Rec. 180 Feet of Slightly oil cut watery mud 5% oil, 30% water, 65% mud

Rec. 120 Feet of oil specked muddy water 80% water, 20% mud

Rec. Feet of

Rec. Feet of

BHT 122 °F Gravity °API @ °F Corrected Gravity °API

RW .219 @ 46 °F Chlorides 55,000 ppm Recovery Clorides 54,000 ppm System

(A) Initial Hydrostatic Mud	1999.4 PSI	AK1 Recorder No.	13337	Range	3975
(B) First Initial Flow Pressure	70 PSI	@ (depth)	3809	w/Clock No.	27585
(C) First Final Flow Pressure	82.3 PSI	AK1 Recorder No.	13339	Range	4000
(D) Initial Shut-in Pressure	1223.6 PSI	@ (depth)	3804	w/Clock No.	25810
(E) Second Initial Flow Pressure	108 PSI	Initial Opening	30		
(F) Second Final Flow Pressure	180.5 PSI	Initial Shut-in	60		
(G) Final Shut-in Pressure	1256.7 PSI	Final Flow	90		
(H) Final Hydrostatic Mud	1980 PSI	Final Shut-in	90		

Our Representative Paul Simpson TOTAL PRICE ..... $ 400.00

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P. O. Box 362 • Hays, Kansas 67601

№ 984

TEST TICKET

Well Name & No. D-R-Lincoln #1 Test No. 4 Date 12/15/87

Company Masters Operating Company Zone Tested Arbuckle

Address PO Box 3356 Wichita Ks 67207 Elevation 1947 KB

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks

Interval Tested 3773-3810 Drill Pipe Size 4½ FH

Anchor Length 37 Top Choke — 1"

Top Packer Depth 3768 Bottom Choke — ¾"

Bottom Packer Depth 3773 Hole Size — 7⅞"

Total Depth 3810 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 941

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.6 lb./gal. Viscosity 42 Filtrate 11

Tool Open @ 10:54 P.M Initial Blow weak tool 5' when opening 3" blow building to 6½"

Final Blow surface blow building to 5½"

Recovery — Total Feet 320 Flush Tool?

Rec. 20 Feet of HOCWM 45 oil 5 H2O 50 mud

Rec. 180 Feet of SOCWM 5% oil 30 H2O 65% mud

Rec. 120 Feet of oil specked muddy H2O 80% H2O 20% mud

Rec. Feet of

Rec. Feet of

BHT 122 °F Gravity °API @ °F Corrected Gravity °API

RW .219 @ 46 °F Chlorides 55,000 ppm Recovery Chlorides 54,000 ppm System

(A) Initial Hydrostatic Mud 1993 PSI AK1 Recorder No. 13337 Range 3775

(B) First Initial Flow Pressure 73 PSI @ (depth) 3809 w/Clock No. 27585

(C) First Final Flow Pressure 83 PSI AK1 Recorder No. 13339 Range 4000

(D) Initial Shut-In Pressure 1221 PSI @ (depth) 3804 w/Clock No. 25810

(E) Second Initial Flow Pressure 104 PSI Initial Opening 30

(F) Second Final Flow Pressure 177 PSI Initial Shut-In 60

(G) Final Shut-In Pressure 1251 PSI Final Flow 90

(H) Final Hydrostatic Mud 1983 PSI Final Shut-In 90

Approved by Robert Stolzle

Our Representative Paul Simpson

Test ..... $ 400

Extra Equip .....

Extra Equip .....

TOTAL PRICE ..... $ 400

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 5 Date 11/17/87

Company Masters Operating Company Zone Tested LKC "H,I,J,K

Address P.O. Box 3356 Wichita, KS 67202 Elevation 1947

Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State KS

Interval Tested 3534-3630 (Straddle) Drill Pipe Size 4½" F.H.

Anchor Length 96 Top Choke — 1"

Top Packer Depth 3529-3534 Bottom Choke — ¾"

Bottom Packer Depth 3630 Hole Size — 7⅞"

Total Depth 3840 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 680

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.8 lb./gal. Viscosity 45 Filtrate 8.0

Tool Open @ 3:12 A.M. Initial Blow Strong blow built to 18" in 2 minutes

ISI: bled off blow no return

Final Blow Fair to strong built to 18" in 7 minutes

Recovery — Total Feet 1640 Flush Tool?

Rec. 400 Feet of Gassy oily water cut mud (32% gas 8% oil 10% water

Rec. 560 Feet of Gassy mud & oil cut water (20% gas 2% oil 58% water 20%

Rec. 680 Feet of Salt water

Rec. Feet of

Rec. Feet of

BHT 115 °F Gravity °API @ °F Corrected Gravity °API

RW .14 @ 70 °F Chlorides 54,000 ppm Recovery Clorides 50,000 ppm System

(A) Initial Hydrostatic Mud 1910.7 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 224.6 PSI @ (depth) 3621 w/Clock No. 3942

(C) First Final Flow Pressure 550 PSI AK1 Recorder No. 11074 Range 6650

(D) Initial Shut-In Pressure 879.4 PSI @ (depth) 3626 w/Clock No. 20272

(E) Second Initial Flow Pressure 610.5 PSI Initial Opening 30

(F) Second Final Flow Pressure 820 PSI Initial Shut-In 60

(G) Final Shut-In Pressure 879.4 PSI Final Flow 180

(H) Final Hydrostatic Mud 1897.5 PSI Final Shut-In 60

Our Representative Rod Steinbrink TOTAL PRICE ..... $ 650

Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P. O. Box 362 • Hays, Kansas 67601

№ 860

TEST TICKET

Well Name & No. 7-8 Lincoln #1 Test No. 5 Date 11-17-87

Company Masters Operating Company Zone Tested (L-KC) H, I, J, & K

Address P.O. Box 3356 Wichita, KS. 67202. Elevation 1947 KB.

Co. Rep./Geo. Rob Stolzle Cont. Duke Drlg #1 Est. Ft. of Pay

Location: Sec. 29 Twp. 21 S Rge. 14 W Co. Stafford State KS.

Interval Tested 3534-3630 Drill Pipe Size 4½" FH.

Anchor Length 96' Top Choke — 1"

Top Packer Depth 3529 - 3534 Bottom Choke — ¾"

Bottom Packer Depth 3630 Hole Size — 7⅞"

Total Depth 3840 Rubber Size — 6¾"

Wt. Pipe I.D. — 2.7 Ft. Run 680'

Drill Collar — 2.25 Ft. Run

Mud Wt. 9.8 lb./gal. Viscosity 45 Filtrate 8.0

Tool Open @ 3:12 AM. Initial Blow Strong blow to 18" in 2 mins.

ISI: Bled off blow - no return.

Final Blow Fair to strong blow built to 18" in 7 mins.

Recovery — Total Feet 1640' Flush Tool? no.

Rec. 400' Feet of GOWCM (32% gas 8% oil 10% water 50% mud)

Rec. 560' Feet of G MOCW (20% gas 2% oil 58% water 20% mud)

Rec. 680' Feet of Salt Water

Rec. Feet of

Rec. Feet of

BHT 115° °F Gravity °API @ °F Corrected Gravity °API

RW .14 @ 70° °F Chlorides 54,000 ppm Recovery Chlorides 50,000 ppm System

(A) Initial Hydrostatic Mud 1900 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 227 PSI @(depth) 3621 w/Clock No. 3942

(C) First Final Flow Pressure 565 PSI AK1 Recorder No. 11074 Range 6650

(D) Initial Shut-In Pressure 876 PSI @(depth) 3626 w/Clock No. 20272

(E) Second Initial Flow Pressure 600 PSI Initial Opening 60 AK-1 13850 R 4325

(F) Second Final Flow Pressure 819 PSI Initial Shut-In 60 @depth 3835 Clock 27566

(G) Final Shut-In Pressure 876 PSI Final Flow 180

(H) Final Hydrostatic Mud 1865 PSI Final Shut-In 60

Approved by Rob Stolzle

Our Representative Rod Steinbrink

Test ..... $ 400.00

Extra Equip .....

Straddle Extra Equip 250.00

TOTAL PRICE ..... $ 650.00

Printcraft Printers - Hays, KS