TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIS #1 Test No. 1 Date 9/7/92

Company JOHN O FARMER INC Zone OREAD

Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3120

Co. Rep./Geo. JOHN FARMER IV Cont. ABERCROMBIE RIG #5 Est. Ft. of Pay

Location: Sec. 1 Twp. 1S Rge. 35W Co. RAWLINS State KS

Interval Tested 3885-3927 Drill Pipe Size 4.5 XH

Anchor Length 42 Wt. Pipe I.D. - 2.7 Ft. Run 440

Top Packer Depth 3880 Drill Collar — 2.25 Ft. Run

Bottom Packer Depth 3885 Mud Wt. 8.9 lb/Gal.

Total Depth 3927 Viscosity 42 Filtrate 11.2

Tool Open @ 3:10 PM Initial Blow FAIR BLOW OFF BOTTOM IN 9 MINUTES

ISI:BLED OFF BLOW-NO RETURN

Final Blow WEAK TO FAIR RETURN OFF BOTTOM IN 10 MINUTES

Recovery - Total Feet 735 Flush Tool? NO

Rec. 60 Feet of DRILLING MUD

Rec. 675 Feet of SALTY WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 125 °F Gravity °API @ °F Corrected Gravity °API

RW 0.23 @ 70 °F Chlorides 32000 ppm Recovery Chlorides 300 ppm System

(A) Initial Hydrostatic Mud 1875.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 44.2 PSI @ (depth) 3917 w / Clock No. 25810

(C) First Final Flow Pressure 185.9 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1141.3 PSI @ (depth) 3922 w / Clock No. 27566

(E) Second Initial Flow Pressure 260.9 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 321.7 PSI @ (depth) w / Clock No.

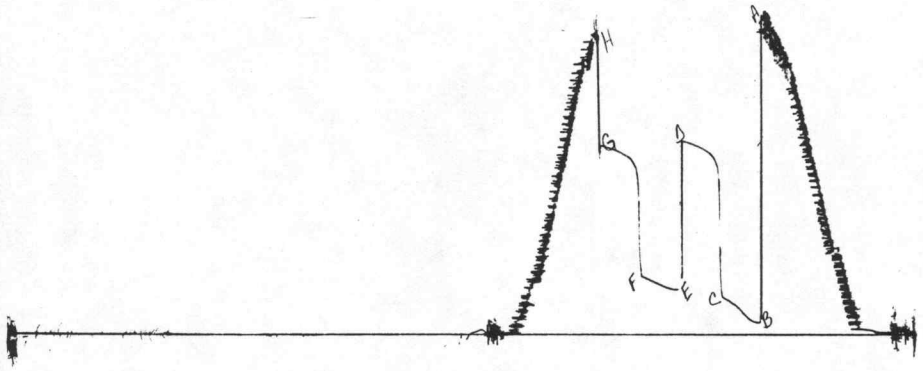
(G) Final Shut-in Pressure 1121.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1840.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative ROD STEINBRINK

CHART PAGE

DST #1
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1882	1875.9
(B) FIRST INITIAL FLOW PRESSURE	41	44.2
(C) FIRST FINAL FLOW PRESSURE	187	185.9
(D) INITIAL CLOSED-IN PRESSURE	1140	1141.3
(E) SECOND INITIAL FLOW PRESSURE	259	260.9
(F) SECOND FINAL FLOW PRESSURE	322	321.7
(G) FINAL CLOSED-IN PRESSURE	1120	1121.6
(H) FINAL HYDROSTATIC MUD	1842	1840.7

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIS #1 Test No. 2 Date 9/8/92

Company JOHN O FARMER INC Zone LANSING

Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3120

Co. Rep./Geo. JOHN FARMER IV Cont. ABERCROMBIE RIG #5 Est. Ft. of Pay 8

Location: Sec. 1 Twp. 1S Rge. 35W Co. RAWLINS State KS

Interval Tested 4007-4054 Drill Pipe Size 4.5 XH

Anchor Length 47 Wt. Pipe I.D. - 2.7 Ft. Run 440

Top Packer Depth 4002 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 4007 Mud Wt. 9 lb/Gal.

Total Depth 4054 Viscosity 44 Filtrate 12

Tool Open @ 8:30 AM Initial Blow SURFACE BLOW GRADUALLY BUILT TO 6"

ISI:BLED OFF BLOW-NO RETURN

Final Blow WEAK SURFACE RETURN BUILT TO 1" THROUGHOUT

Recovery - Total Feet 240 Flush Tool? NO

Rec. 60 Feet of MUDDY WATER-85%WTR/15%MUD

Rec. 180 Feet of SALTY WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT N/A °F Gravity °API @ °F Corrected Gravity °API

RW 0.35 @ 67 °F Chlorides 20000 ppm Recovery Chlorides 700 ppm System

(A) Initial Hydrostatic Mud 1950.6 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 44.2 PSI @ (depth) 4044 w / Clock No. 25810

(C) First Final Flow Pressure 66.7 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1075.8 PSI @ (depth) 4049 w / Clock No. 27566

(E) Second Initial Flow Pressure 110.2 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 123.9 PSI @ (depth) w / Clock No.

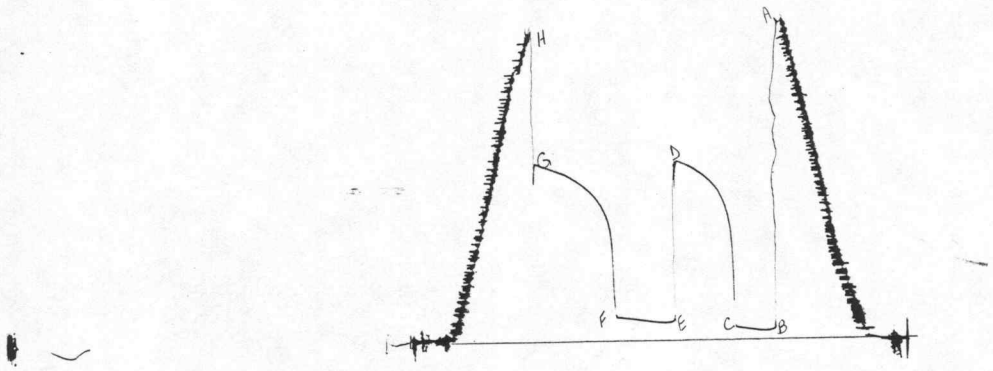
(G) Final Shut-in Pressure 1049.8 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1890.6 PSI Initial Shut-in 45 Final Shut-in 60

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CHART PAGE

DST #2
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1942	1950.6
(B) FIRST INITIAL FLOW PRESSURE	41	44.2
(C) FIRST FINAL FLOW PRESSURE	62	66.7
(D) INITIAL CLOSED-IN PRESSURE	1070	1075.8
(E) SECOND INITIAL FLOW PRESSURE	104	110.2
(F) SECOND FINAL FLOW PRESSURE	124	123.9
(G) FINAL CLOSED-IN PRESSURE	12050	1049.8
(H) FINAL HYDROSTATIC MUD	1892	1890.6

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIS #1 Test No. 3 Date 9/9/92

Company JOHN O FARMER INC Zone LANSING "B&C

Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3120

Co. Rep./Geo. JOHN FARMER IV Cont. ABERCROMBIE RIG #5 Est. Ft. of Pay

Location: Sec. 1 Twp. 1S Rge. 35W Co. RAWLINS State KS

Interval Tested 4061-4170

Anchor Length 109

Top Packer Depth 4055

Bottom Packer Depth 4061

Total Depth 4170

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run 345

Drill Collar – 2.25 Ft. Run

Mud Wt. 9 lb/Gal.

Viscosity 45 Filtrate 12

Tool Open @ 2:55 AM Initial Blow 1" BLOW @ OPEN DECREASED TO 1/2" @ 30 MINUTES

ISI:NO BLOW

Final Blow SURGE @ OPEN SURFACE BLOW DIED IN 8 MINUTES

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of SLTLY OIL SPOTTED DRILLING MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 112 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 2048.9 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 55.6 PSI @ (depth) 4066 w / Clock No. 25810

(C) First Final Flow Pressure 55.6 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 304.7 PSI @ (depth) 4165 w / Clock No. 27566

(E) Second Initial Flow Pressure 55.6 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 55.6 PSI @ (depth) w / Clock No.

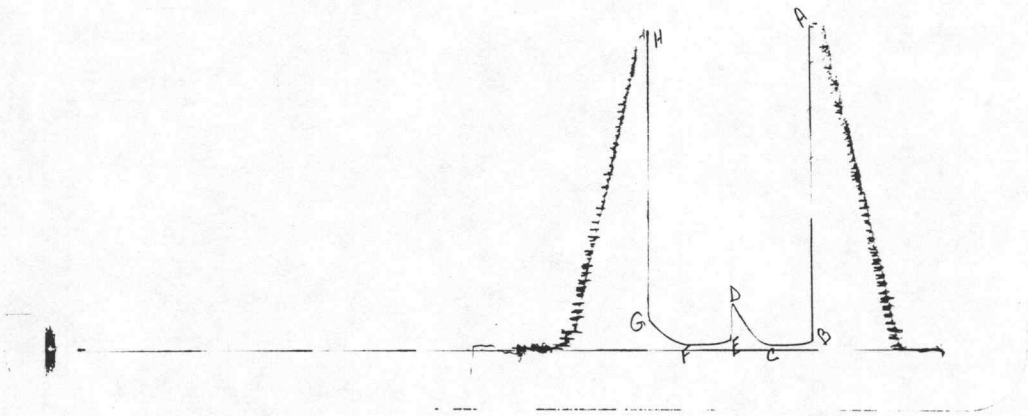
(G) Final Shut-in Pressure 201.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1980.6 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE

DST#3
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2043	2048.9
(B) FIRST INITIAL FLOW PRESSURE	52	55.6
(C) FIRST FINAL FLOW PRESSURE	52	55.6
(D) INITIAL CLOSED-IN PRESSURE	301	304.7
(E) SECOND INITIAL FLOW PRESSURE	52	55.6
(F) SECOND FINAL FLOW PRESSURE	52	55.6
(G) FINAL CLOSED-IN PRESSURE	197	201.4
(H) FINAL HYDROSTATIC MUD	1982	1980.6

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIS #1 Test No. 4 Date 9/9/92

Company JOHN O FARMER INC Zone LKC-"D&E"

Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3120

Co. Rep./Geo. JOHN FARMER IV Cont. ABERCROMBIE RIG #5 Est. Ft. of Pay

Location: Sec. 1 Twp. 1S Rge. 35W Co. RAWLINS State KS

Interval Tested 4169-4265 Drill Pipe Size 4.5 XH

Anchor Length 96 Wt. Pipe I.D. - 2.7 Ft. Run 376

Top Packer Depth 4164 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 4169 Mud Wt. 9 lb/Gal.

Total Depth 4265 Viscosity 45 Filtrate 12.8

Tool Open @ 7:50 PM Initial Blow WEAK 1/4" BLOW STEADY THROUGHOUT

ISI:NO BLOW

Final Blow VERY WEAK RETURN DIED IN 8 MINUTES

Recovery - Total Feet 15 Flush Tool? NO

Rec. 15 Feet of DRILLING MUD WITH OIL SPOTS

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 118 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2131.2 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 55.6 PSI @ (depth) 4255 w / Clock No. 25810

(C) First Final Flow Pressure 55.6 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 325.6 PSI @ (depth) 4260 w / Clock No. 27566

(E) Second Initial Flow Pressure 55.6 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 55.6 PSI @ (depth) w / Clock No.

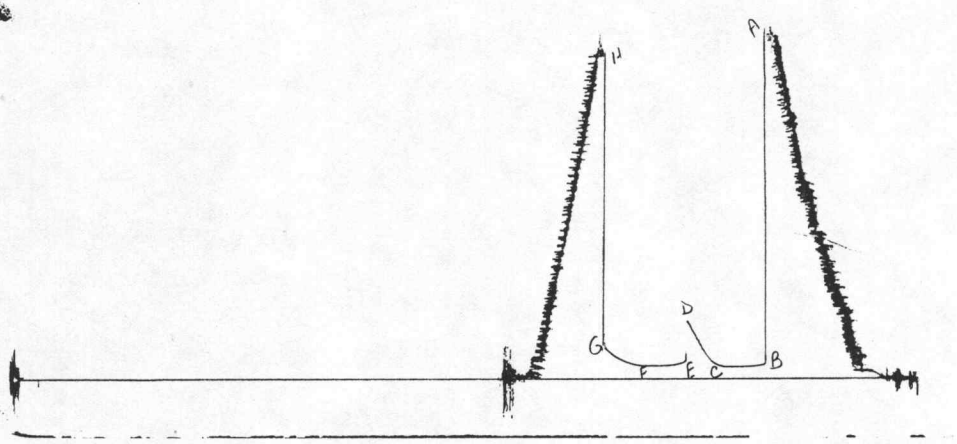
(G) Final Shut-in Pressure 136.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2060.9 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE

DST #4
13309



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2123	2131.2
(B) FIRST INITIAL FLOW PRESSURE	52	55.6
(C) FIRST FINAL FLOW PRESSURE	52	55.6
(D) INITIAL CLOSED-IN PRESSURE	322	325.6
(E) SECOND INITIAL FLOW PRESSURE	52	55.6
(F) SECOND FINAL FLOW PRESSURE	52	55.6
(G) FINAL CLOSED-IN PRESSURE	135	136.9
(H) FINAL HYDROSTATIC MUD	2053	2060.9