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TRILOBITE TESTING, L.L.C.

COPY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

11-25-90

Well Name BIGGERSTAFF #1-11 Test No. 1 Date 1/18/93

Company GRIGGS OIL, INC. Zone MISS

Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1676

Co. Rep./Geo. KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay

Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3802-3856 Drill Pipe Size 4.5" XH

Anchor Length 54 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3797 Drill Collar – 2.25 Ft. Run 475

Bottom Packer Depth 3802 Mud Wt. 8.8 lb/Gal.

Total Depth 3856 Viscosity 47 Filtrate 8

Tool Open @ Initial Blow

Final Blow HIT FILL-UP 25 ft OFF BOTTOM-CAME BACK OUT OF HOLE

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 3500 ppm System

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

(B) First Initial Flow Pressure PSI @ (depth) 3805 w / Clock No. 27573

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

(D) Initial Shut-in Pressure PSI @ (depth) 3853 w / Clock No. 26199

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

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

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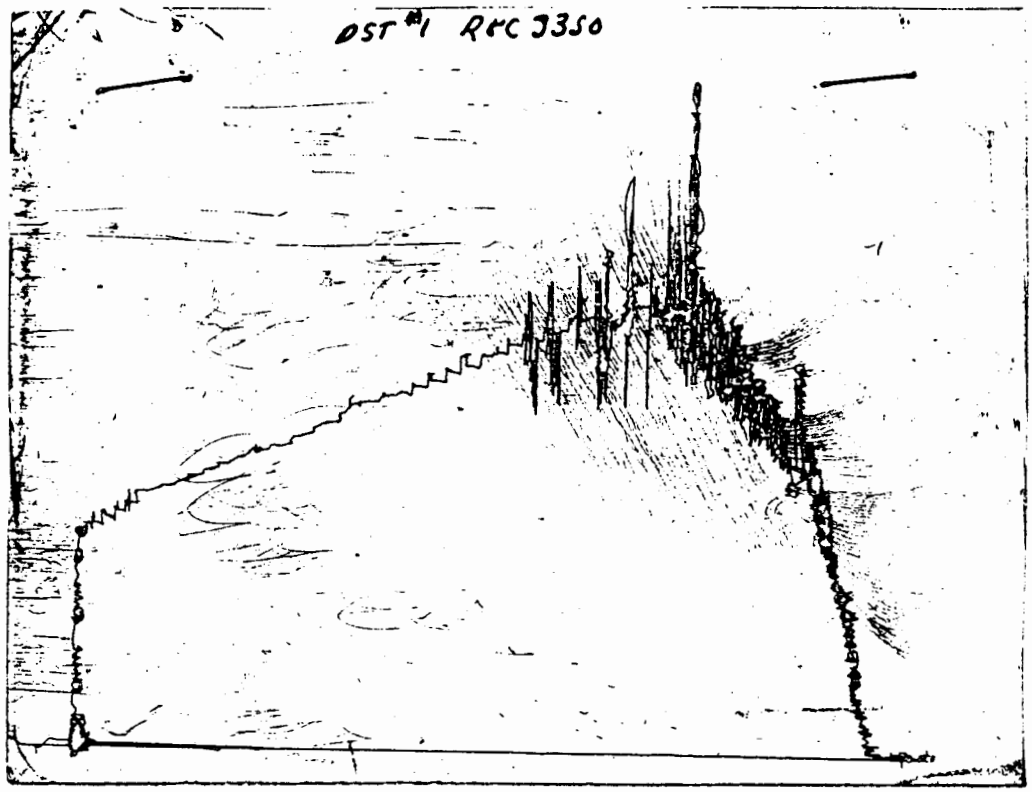
(G) Final Shut-in Pressure PSI Initial Opening Final Flow

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

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(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		

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Drill-Stem Test Data

Well Name BIGGERSTAFF #1-11 Test No. 2 Date 1/18/93

Company GRIGGS OIL INC Zone MISS

Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1676

Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #4 Est. Ft. of Pay

Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3802-3856 Drill Pipe Size 4.5" XH

Anchor Length 54 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3797 Drill Collar – 2.25 Ft. Run 475

Bottom Packer Depth 3802 Mud Wt. 8.8 lb/Gal.

Total Depth 3856 Viscosity 54 Filtrate 7.6

Tool Open @ 7:20 PM Initial Blow STRONG BLOW - GAS TO SURFACE IN 8 MINUTES

0

Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME REPORT

Recovery - Total Feet 780 Flush Tool? NO

Rec. 600 Feet of GASSY MUD-15%GAS/85%MUD

Rec. 180 Feet of WATER & GAS CUT MUD-10%GAS/20%WTR/70%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

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

RW 1.8 @ 38 °F Chlorides 5600 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 1760.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 272.5 PSI @ (depth) 3805 w / Clock No. 27573

(C) First Final Flow Pressure 283.1 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1188.7 PSI @ (depth) 3853 w / Clock No. 26199

(E) Second Initial Flow Pressure 327.3 PSI AK1 Recorder No. Range

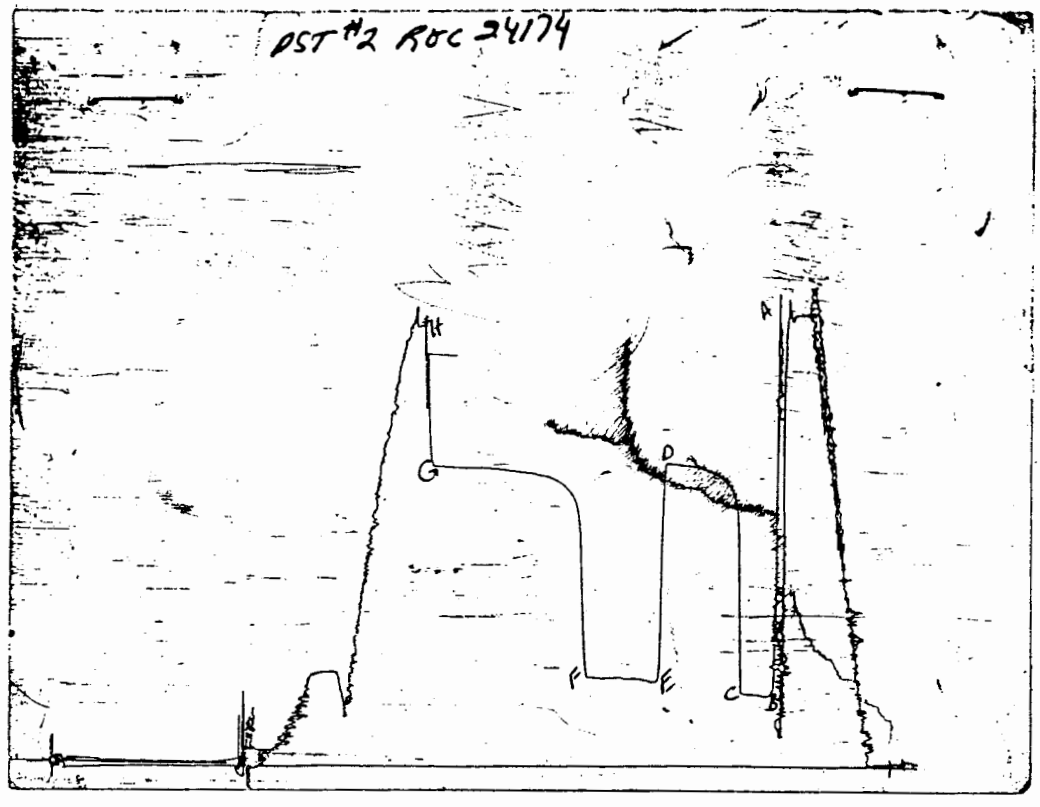
(F) Second Final Flow Pressure 347.1 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1181.9 PSI Initial Opening 30 Final Flow

(H) Final Hydrostatic Mud 1722.3 PSI Initial Shut-in 60 Final Shut-in 120

JOHN RIEDL

CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1757	1760.1
(B) FIRST INITIAL FLOW PRESSURE	255	272.5
(C) FIRST FINAL FLOW PRESSURE	272	283.1
(D) INITIAL CLOSED-IN PRESSURE	1181	1188.7
(E) SECOND INITIAL FLOW PRESSURE	305	327.3
(F) SECOND FINAL FLOW PRESSURE	341	347.1
(G) FINAL CLOSED-IN PRESSURE	1181	1181.9
(H) FINAL HYDROSTATIC MUD	1725	1722.3

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Drill-Stem Test Data

Well Name BIGGERSTAFF #1-11 Test No. 3 Date 1/19/93

Company GRIGGS OIL, INC. Zone MISSISSIPPIA

Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1676

Co. Rep./Geo. KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay 10

Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3856-3866 Drill Pipe Size 4.5" XH

Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3856 Drill Collar – 2.25 Ft. Run 475

Bottom Packer Depth Mud Wt. 8.7 lb/Gal.

Total Depth 3866 Viscosity 66 Filtrate 7.2

Tool Open @ 12:30 PM Initial Blow STRONG BLOW -GAS TO SURFACE IN 9 MINUTES

Final Blow GAS TO SURFACE THROUGHOUT - SEE GAS VOLUME REPORT

Recovery - Total Feet 1200 Flush Tool? NO

Rec. 180 Feet of MUD & GAS CUT OIL-20%GAS/50%OIL/30%MUD

Rec. 360 Feet of MUD CUT GASSY OIL-30%GAS/60%OIL/10%MUD

Rec. 60 Feet of OIL & GAS CUT WATER-10%GAS/20%OIL/70%WTR

Rec. 600 Feet of GASSY WATER- 10% GAS / 90% WATER

Rec. Feet of

BHT 126 °F Gravity 31 °API @ 40 °F Corrected Gravity 33 °API

RW 0.256 @ 33 °F Chlorides 81000 ppm Recovery Chlorides 5200 ppm System

(A) Initial Hydrostatic Mud 1751.5 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 119.8 PSI @ (depth) 3859 w / Clock No. 27573

(C) First Final Flow Pressure 204.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1197.8 PSI @ (depth) 3863 w / Clock No. 26199

(E) Second Initial Flow Pressure 289.2 PSI AK1 Recorder No. Range

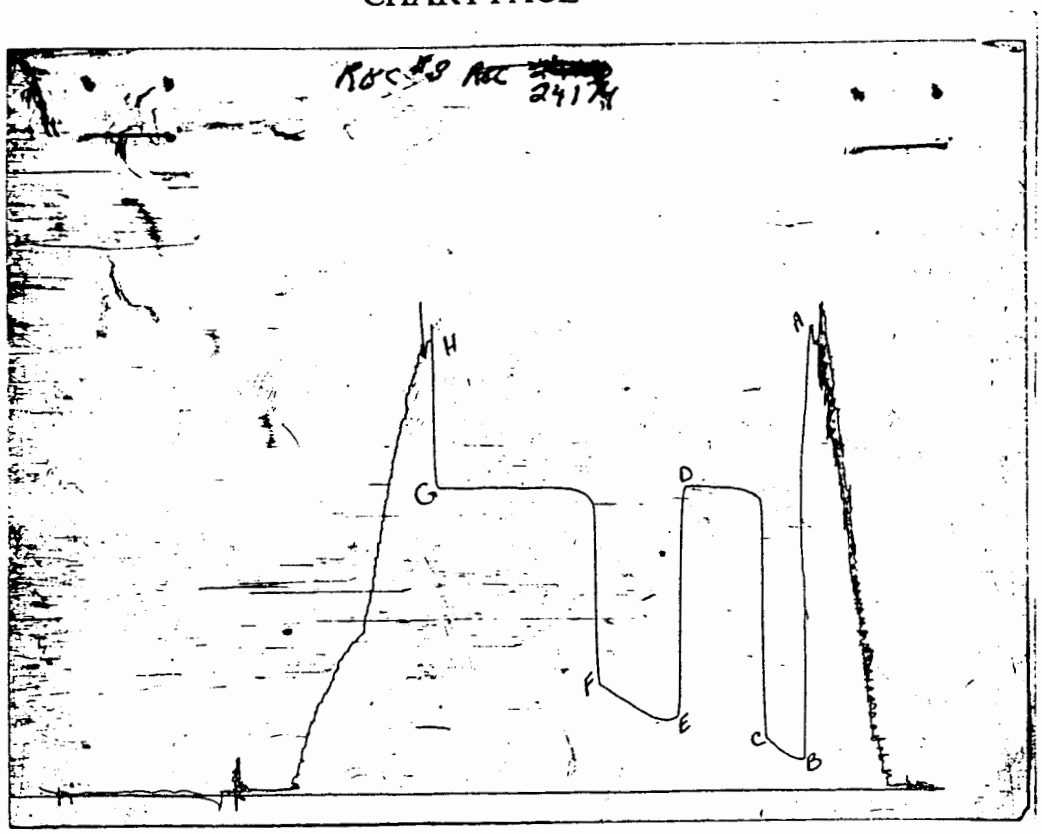
(F) Second Final Flow Pressure 420.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1203.0 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1749.2 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative JOHN RIEDL

CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1742	1751.5
(B) FIRST INITIAL FLOW PRESSURE	104	119.8
(C) FIRST FINAL FLOW PRESSURE	200	204.2
(D) INITIAL CLOSED-IN PRESSURE	1187	1197.8
(E) SECOND INITIAL FLOW PRESSURE	262	289.2
(F) SECOND FINAL FLOW PRESSURE	409	420.4
(G) FINAL CLOSED-IN PRESSURE	1193	1203
(H) FINAL HYDROSTATIC MUD	1727	1749.2

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Drill-Stem Test Data

Well Name BIGGERSTAFF #1-11 Test No. 4 Date 1/20/93

Company GRIGGS OIL, INC. Zone MISS/OSAGE

Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1676

Co. Rep./Geo. KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay 55

Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3867-3922 Drill Pipe Size 4.5" XH

Anchor Length 55 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3862 Drill Collar – 2.25 Ft. Run 475

Bottom Packer Depth 3867 Mud Wt. 8.9 lb/Gal.

Total Depth 3922 Viscosity 76 Filtrate 8.2

Tool Open @ 7:00 AM Initial Blow STRONG BLOW /BOTTOM OF BUCKET IN 1 MINUTE-
GAS TO SURFACE IN 18 MINUTES

Final Blow GAS TO SURFACE THROUGHOUT-SEE GAS VOLUME REPORT

Recovery - Total Feet 1260 Flush Tool? NO

Rec. 120 Feet of HVY OIL & GAS CUT MUD-20%GAS/30%OIL/50%MUD

Rec. 390 Feet of SLTLY MUD CUT GASSY OIL-30%GAS/65%OIL/5%MUD

Rec. 750 Feet of GASSY WATER-5%GAS/95%WTR

Rec. Feet of

Rec. Feet of

BHT 130 °F Gravity 34 °API @ 60 °F Corrected Gravity 34 °API

RW 0.173 @ 54 °F Chlorides 67000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1805.4 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 171.7 PSI @ (depth) 3870 w / Clock No. 27573

(C) First Final Flow Pressure 258.0 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1223.4 PSI @ (depth) 3919 w / Clock No. 26199

(E) Second Initial Flow Pressure 372.3 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 548.0 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1221.9 PSI Initial Opening 30 Final Flow

(H) Final Hydrostatic Mud 1790.4 PSI Initial Shut-in 60 Final Shut-in 120

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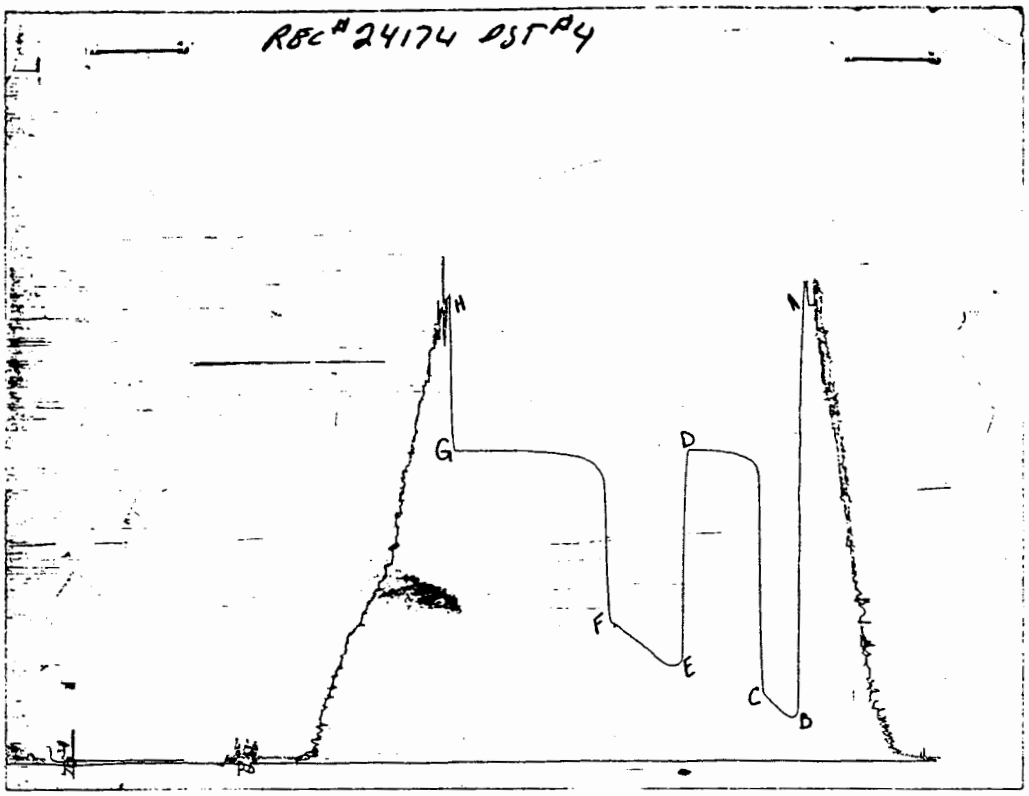

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1792	1805.4
(B) FIRST INITIAL FLOW PRESSURE	150	171.7
(C) FIRST FINAL FLOW PRESSURE	248	258
(D) INITIAL CLOSED-IN PRESSURE	1223	1223.4
(E) SECOND INITIAL FLOW PRESSURE	354	372.3
(F) SECOND FINAL FLOW PRESSURE	540	548
(G) FINAL CLOSED-IN PRESSURE	1219	1221.9
(H) FINAL HYDROSTATIC MUD	1771	1790.4