

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 1 Date 11/24/94  
Company RITCHIE EXPLORATION INC Zone LANS 35  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3514-3542 Drill Pipe Size 4.5" XH  
Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3509 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3514 Mud Wt. 9.0 lb/Gal.  
Total Depth 3542 Viscosity 45 Filtrate 10.4

Tool Open @ 12:21AM Initial Blow WEAK BLOW. (1-3")

Final Blow WEAK BLOW (1 TO 3-1/2")

Recovery - Total Feet 63 Flush Tool? NO

Rec. 57 Feet of GAS IN PIPE  
Rec. 63 Feet of GASSY OIL CUT MUD. CLEAN OIL AT TOP OF PIPE RECOVERY  
Rec. \_\_\_\_\_ Feet of AND TOP OF TOOL. 5% GAS; 35% OIL; 60% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 106 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity 37 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 2000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1690.0 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 48.1 PSI @ (depth) 3439 w / Clock No. 30401

(C) First Final Flow Pressure 43.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 692.9 PSI @ (depth) 3533 w / Clock No. 23858

(E) Second Initial Flow Pressure 57.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

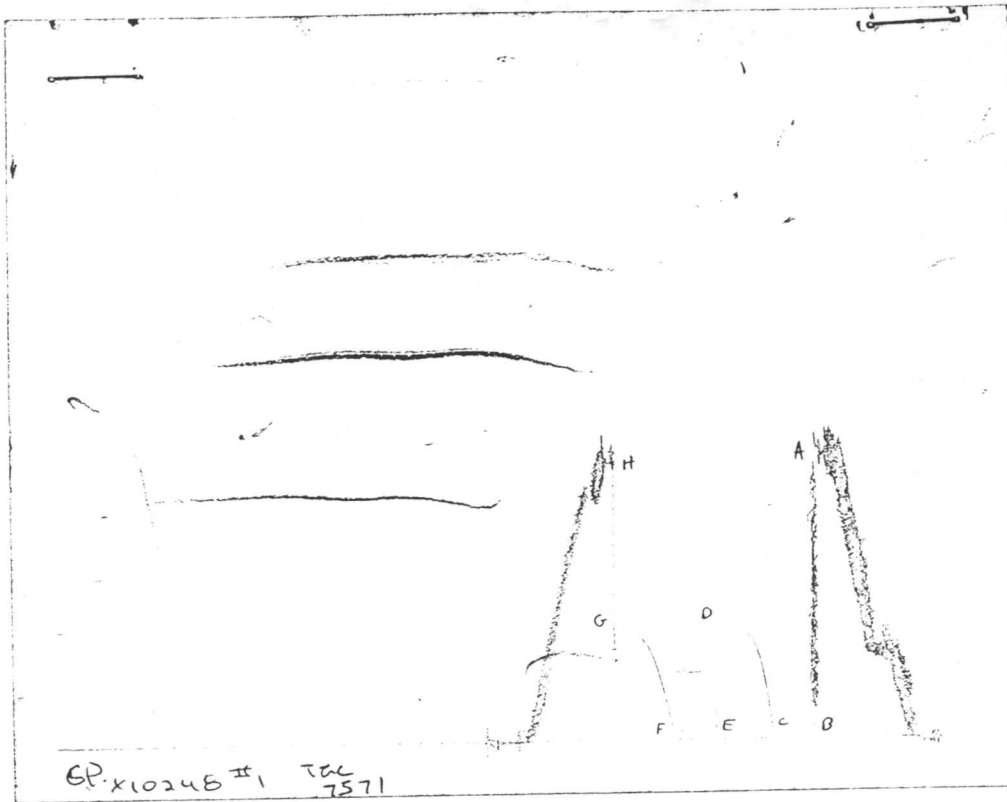
(F) Second Final Flow Pressure 60.7 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 667.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1638.6 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1690	1690
(B) FIRST INITIAL FLOW PRESSURE	28	48.1
(C) FIRST FINAL FLOW PRESSURE	30	43.6
(D) INITIAL CLOSED-IN PRESSURE	672	692.9
(E) SECOND INITIAL FLOW PRESSURE	34	57.3
(F) SECOND FINAL FLOW PRESSURE	37	60.7
(G) FINAL CLOSED-IN PRESSURE	650	667.6
(H) FINAL HYDROSTATIC MUD	1657	1639

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## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 2 Date 11/25/94  
Company RITCHIE EXPLORATION INC Zone LANS  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp. 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3540-3574 Drill Pipe Size 4.5" XH  
Anchor Length 34 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3535 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3540 Mud Wt. 8.9 lb/Gal.  
Total Depth 3574 Viscosity 45 Filtrate 10.4

Tool Open @ 1:07AM Initial Blow FAIR TO STRONG BLOW. BOTTOM OF BUCKET IN 14 MINUTES.

Final Blow FAIR TO STRONG BLOW. BOTTOM OF BUCKET IN 15 MINUTES.

Recovery - Total Feet 215 Flush Tool? NO

Rec. 715 Feet of GAS IN PIPE  
Rec. 125 Feet of CLEAN GASSY OIL.  
Rec. 90 Feet of GASSY OIL CUT MUD. 15% GAS; 35% OIL; 50% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 106 °F Gravity 35 °API @ 55 °F Corrected Gravity 36 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 3500 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 1728.3 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 34.5 PSI @ (depth) 3571 w / Clock No. 22992

(C) First Final Flow Pressure 68.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 601.4 PSI @ (depth) 3566 w / Clock No. 23858

(E) Second Initial Flow Pressure 78.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

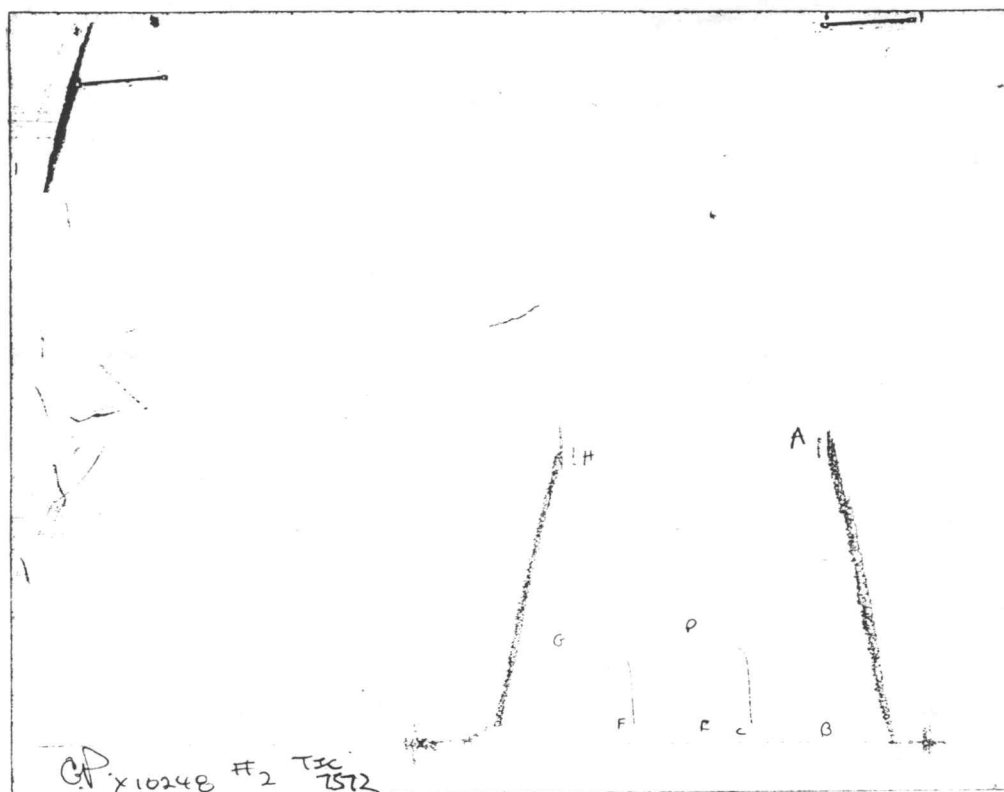
(F) Second Final Flow Pressure 107.2 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 572.6 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1704.2 PSI Initial Shut-in 45 Final Shut-in 45

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1698	1728
(B) FIRST INITIAL FLOW PRESSURE	28	34.5
(C) FIRST FINAL FLOW PRESSURE	53	68.7
(D) INITIAL CLOSED-IN PRESSURE	588	601.4
(E) SECOND INITIAL FLOW PRESSURE	62	78.8
(F) SECOND FINAL FLOW PRESSURE	89	107.2
(G) FINAL CLOSED-IN PRESSURE	575	572.6
(H) FINAL HYDROSTATIC MUD	1690	1704

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## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 3 Date 11/25/94  
Company RITCHIE EXPLORATION INC Zone LANS 160-180  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp. 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3636-3680 Drill Pipe Size 4.5" XH  
Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3631 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3636 Mud Wt. 9.0 lb/Gal.  
Total Depth 3680 Viscosity 50 Filtrate 9.6

Tool Open @ 9:02PM Initial Blow WEAK BLOW 1/4".

Final Blow WEAK BLOW 1/2".

Recovery - Total Feet 35 Flush Tool? NO

Rec. 25 Feet of GAS IN PIPE  
Rec. 5 Feet of CLEAN OIL. 5% GAS; 15% OIL, 80% MUD.  
Rec. 30 Feet of GASSY OIL CUT MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 108 °F Gravity 36 °API @ 64 °F Corrected Gravity 36 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 4300 ppm Recovery Chlorides 4300 ppm System

(A) Initial Hydrostatic Mud 1791.8 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 40.2 PSI @ (depth) 3677 w / Clock No. 22992

(C) First Final Flow Pressure 42.4 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 480.7 PSI @ (depth) 3672 w / Clock No. 23858

(E) Second Initial Flow Pressure 44.7 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

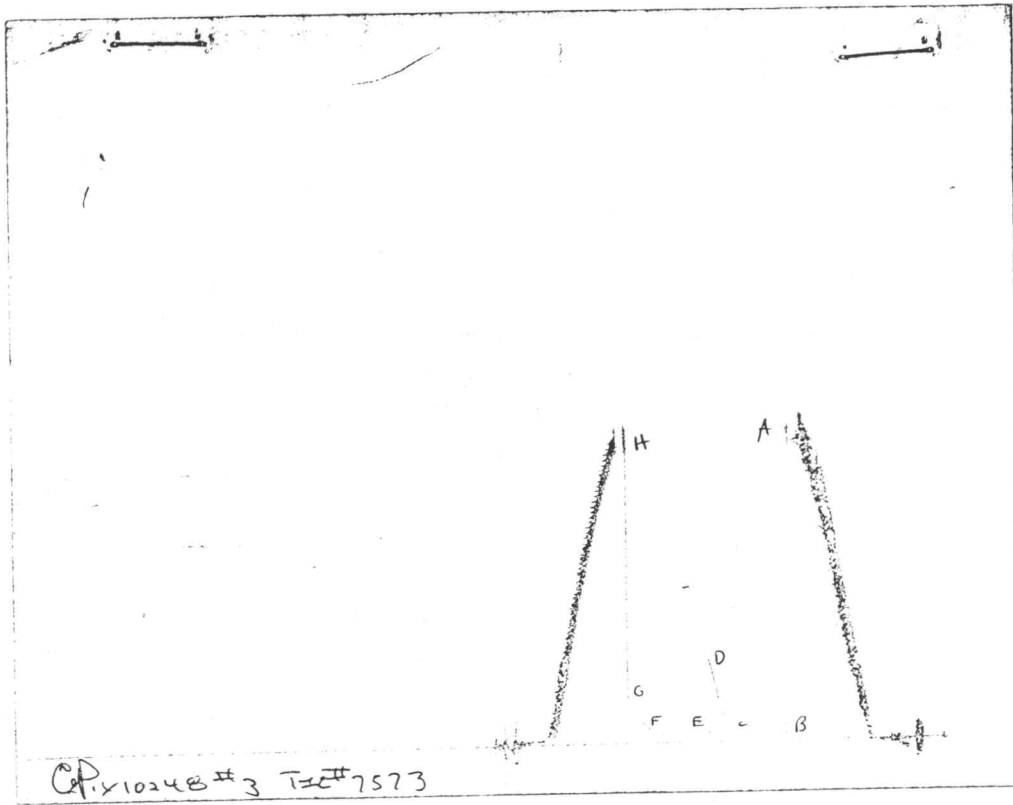
(F) Second Final Flow Pressure 47.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 272.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1776.5 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1766	1792
(B) FIRST INITIAL FLOW PRESSURE	27	40.2
(C) FIRST FINAL FLOW PRESSURE	29	42.4
(D) INITIAL CLOSED-IN PRESSURE	479	480.7
(E) SECOND INITIAL FLOW PRESSURE	30	44.7
(F) SECOND FINAL FLOW PRESSURE	31	47
(G) FINAL CLOSED-IN PRESSURE	271	272.1
(H) FINAL HYDROSTATIC MUD	1733	1777

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## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 4 Date 11/26/94  
Company RITCHIE EXPLORATION INC Zone KC  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp. 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3676-3714 Drill Pipe Size 4.5" XH  
Anchor Length 38 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3671 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3676 Mud Wt. 9.0 lb/Gal.  
Total Depth 3714 Viscosity 50 Filtrate 9.6

Tool Open @ 9:25AM Initial Blow WEAK-STEADY SURFACE BLOW.

Final Blow WEAK-STEADY SURFACE BLOW.

Recovery - Total Feet 30 Flush Tool? NO

Rec. 20 Feet of CLEAN OIL.

Rec. 10 Feet of OIL CUT MUD. 20% OIL; 80% MUD.

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity 35 °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4300 ppm System

(A) Initial Hydrostatic Mud 1850.2 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 37.2 PSI @ (depth) 3705 w / Clock No. 22992

(C) First Final Flow Pressure 37.2 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 75.6 PSI @ (depth) 3710 w / Clock No. 23858

(E) Second Initial Flow Pressure 43.0 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

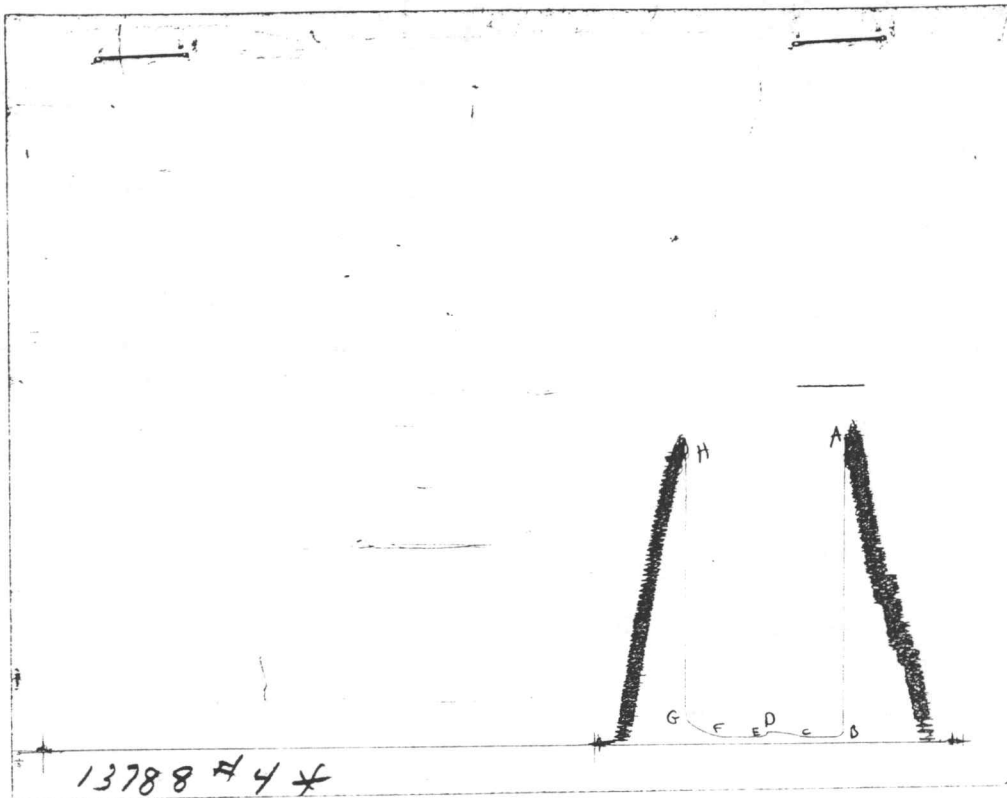
(F) Second Final Flow Pressure 43.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 152.3 PSI Initial Opening 20 Final Flow 30

(H) Final Hydrostatic Mud 1837.6 PSI Initial Shut-in 30 Final Shut-in 30

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1937	1850
(B) FIRST INITIAL FLOW PRESSURE	46	37.2
(C) FIRST FINAL FLOW PRESSURE	46	37.2
(D) INITIAL CLOSED-IN PRESSURE	81	75.6
(E) SECOND INITIAL FLOW PRESSURE	46	43
(F) SECOND FINAL FLOW PRESSURE	46	43
(G) FINAL CLOSED-IN PRESSURE	139	152.3
(H) FINAL HYDROSTATIC MUD	1857	1838

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## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 5 Date 11/26/94  
Company RITCHIE EXPLORATION INC Zone MARMATON  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp. 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3779-3792 Drill Pipe Size 4.5" XH  
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3774 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3779 Mud Wt. 9.1 lb/Gal.  
Total Depth 3792 Viscosity 48 Filtrate 9.6

Tool Open @ 10:00PM <sup>Initial</sup> Blow WEAK, BUILDING TO 4"

Final Blow WEAK, BUILDING TO 2"

Recovery - Total Feet 75 Flush Tool? NO

Rec. 180 Feet of GAS IN PIPE.  
Rec. 65 Feet of CLEAN OIL. 100% OIL.  
Rec. 10 Feet of OIL CUT MUD. 30% OIL; 70% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 114 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity 32 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 5100 ppm System

(A) Initial Hydrostatic Mud 1896.3 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 37.2 PSI @ (depth) 3783 w / Clock No. 22992

(C) First Final Flow Pressure 38.4 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1072.3 PSI @ (depth) 3788 w / Clock No. 23858

(E) Second Initial Flow Pressure 45.3 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

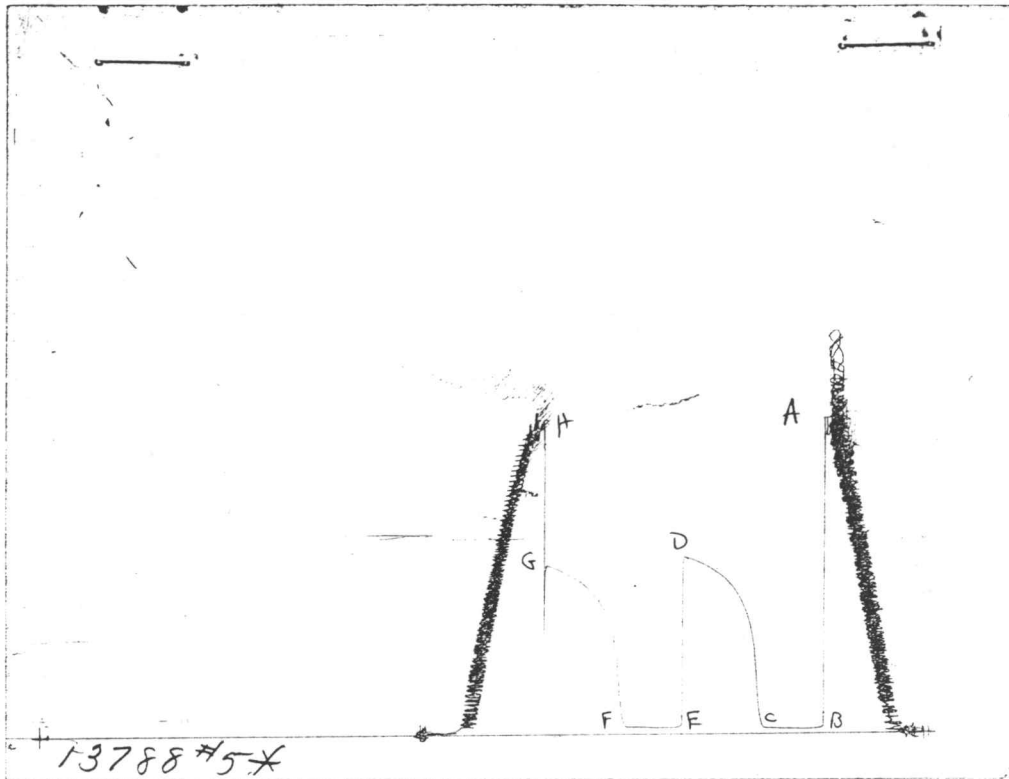
(F) Second Final Flow Pressure 45.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1020.6 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1880.2 PSI Initial Shut-in 60 Final Shut-in 60

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# CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1891	1896
(B) FIRST INITIAL FLOW PRESSURE	34	37.2
(C) FIRST FINAL FLOW PRESSURE	34	38.4
(D) INITIAL CLOSED-IN PRESSURE	1075	1072
(E) SECOND INITIAL FLOW PRESSURE	46	45.3
(F) SECOND FINAL FLOW PRESSURE	46	45.3
(G) FINAL CLOSED-IN PRESSURE	1018	1021
(H) FINAL HYDROSTATIC MUD	1868	1880

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## Drill-Stem Test Data

Well Name GRECIAN TRUST #1 Test No. 6 Date 11/27/94  
Company RITCHIE EXPLORATION INC Zone ARBUCKLE  
Address 125 N. MARKET, SUITE 1000, WICHITA, KS 67202 Elevation 2234  
Co. Rep./Geo. JEFF CHRISTIAN Cont. DUKE DRILLING #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 17 Twp. 10S Rge. 21W Co. GRAHAM State KS

Interval Tested 3790-3834 Drill Pipe Size 4.5" XH  
Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3785 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3790 Mud Wt. 9.2 lb/Gal.  
Total Depth 3834 Viscosity 46 Filtrate 9.6

Tool Open @ 12:30 PM <sup>Initial</sup> WEAK, BUILDING TO STRONG BOTTOM OF BUCKET BLOW IN  
<sub>Low</sub> 38 MINUTES.

Final Blow WEAK, BUILDING TO 2".

Recovery - Total Feet 320 Flush Tool? NO

Rec. 10 Feet of MUD WITH OIL SPOTS.  
Rec. 124 Feet of DRILLING MUD. 100% MUD.  
Rec. 186 Feet of MUDDY WATER.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 118 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.13 @ 82 °F Chlorides 43000 ppm Recovery Chlorides 4400 ppm System

(A) Initial Hydrostatic Mud 1925.1 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 54.7 PSI @ (depth) 3824 w / Clock No. 22992

(C) First Final Flow Pressure 104.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1188.1 PSI @ (depth) 3830 w / Clock No. 23858

(E) Second Initial Flow Pressure 119.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

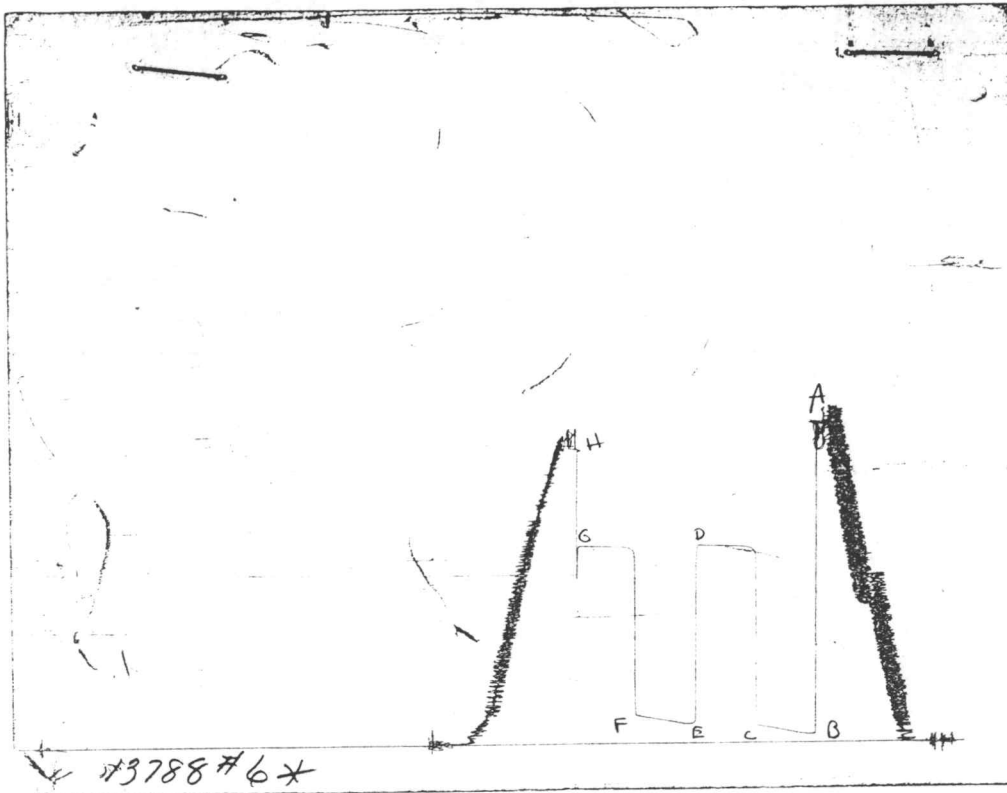
(F) Second Final Flow Pressure 172.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1178.9 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1857.1 PSI Initial Shut-in 45 Final Shut-in 45

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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1937	1925
(B) FIRST INITIAL FLOW PRESSURE	58	54.7
(C) FIRST FINAL FLOW PRESSURE	104	104.6
(D) INITIAL CLOSED-IN PRESSURE	1178	1188
(E) SECOND INITIAL FLOW PRESSURE	116	119.8
(F) SECOND FINAL FLOW PRESSURE	162	172.1
(G) FINAL CLOSED-IN PRESSURE	1190	1179
(H) FINAL HYDROSTATIC MUD	1845	1857