

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 1 Date 1/1/92
Company CHIEF DRILLING INC Zone Tested N/A
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5510-5587
Anchor Length 77
Top Packer Depth 5505
Bottom Packer Depth 5510
Total Depth 5587

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.8 lb / gal. Viscosity 49 Filtrate 8

Tool Open @ 5:00 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 2 MIN
ISI: BLED OFF BLOW-NO BLOW BACK

Final Blow OFF BOTTOM OF BUCKET SOON AS TOOL OPENED-GTS IN 30
MIN/FSI: BLED OFF BLOW-SURFACE BLOW THROUGHOUT

Recovery — Total Feet 35 Flush Tool? NO

Rec. 35 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

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

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2816.2 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 58.2 PSI @ (depth) 5514 w/Clock No. 25825

(C) First Final Flow Pressure 58.2 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1480.2 PSI @ (depth) 5584 w/Clock No. 27594

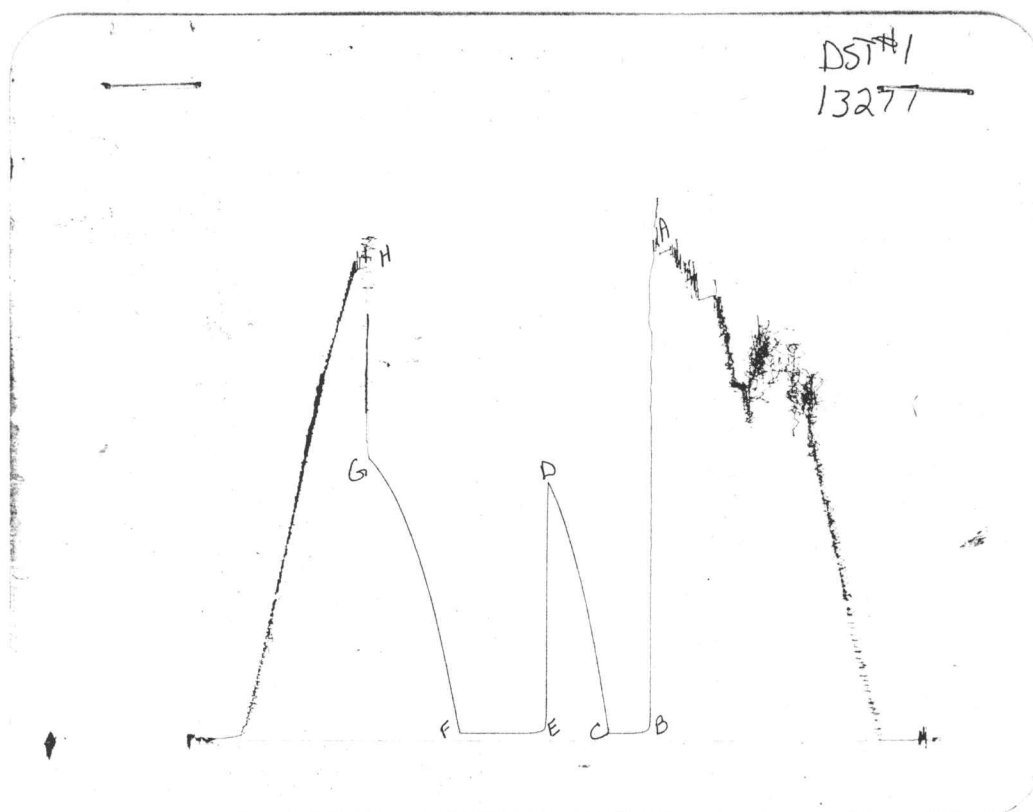
(E) Second Initial Flow Pressure 71.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 71.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1575.2 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2744.3 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative TOM HORACEK TOTAL PRICE \$ 900



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2814	2816.2
(B) FIRST INITIAL FLOW PRESSURE	56	58.2
(C) FIRST FINAL FLOW PRESSURE	56	58.2
(D) INITIAL CLOSED-IN PRESSURE	1478	1480.2
(E) SECOND INITIAL FLOW PRESSURE	67	71.2
(F) SECOND FINAL FLOW PRESSURE	67	71.2
(G) FINAL CLOSED-IN PRESSURE	1573	1575.2
(H) FINAL HYDROSTATIC MUD	2741	2744.3



GAS VOLUME REPORT

1.
DST NO

Remarks:

101 BONI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 2 Date 1/1/92
Company CHIEF DRILLING INC Zone Tested LANSING "A"
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5026-5072
Anchor Length 46
Top Packer Depth 5021
Bottom Packer Depth 5126
Total Depth 5587 STRADDLE

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.8 lb / gal. Viscosity 49 Filtrate 8

Tool Open @ 1:02 Initial Blow TOOL OPENED-LOST MUD

Final Blow PACKER FAILURE

Recovery — Total Feet _____ Flush Tool? _____

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 6000 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5033 w/Clock No. 25825

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5045 w/Clock No. 27594

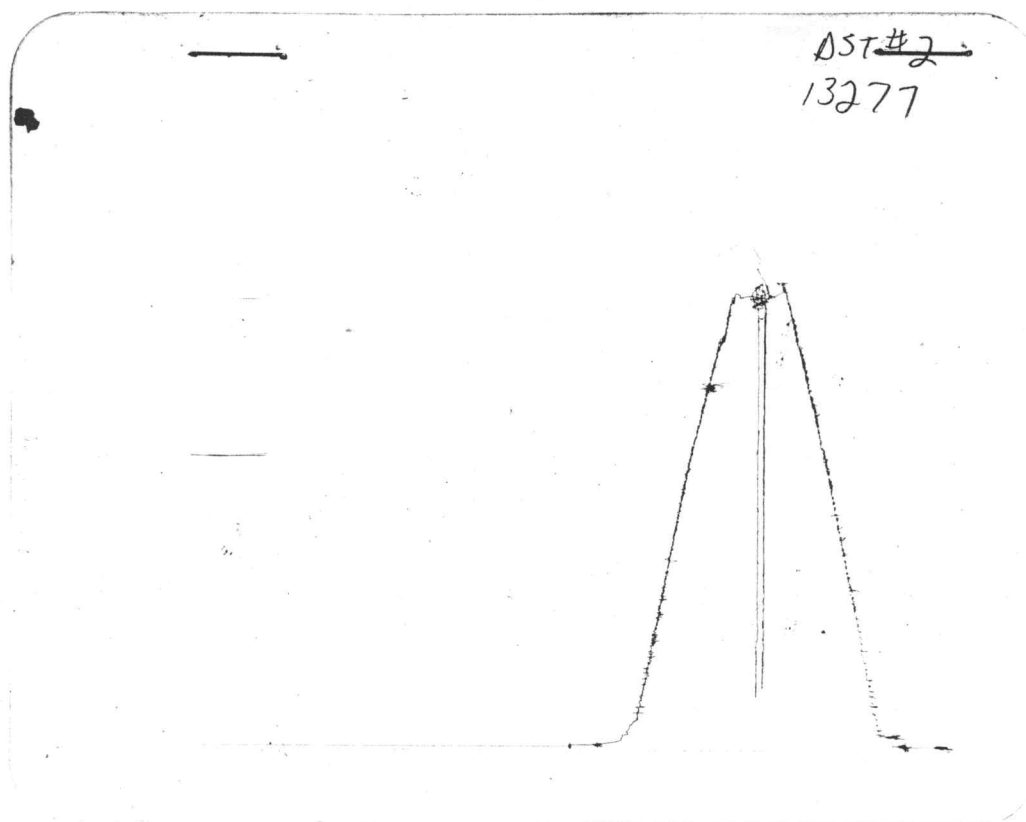
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(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 _____

Our Representative LEWAYNE TRESNER TOTAL PRICE \$ 1150



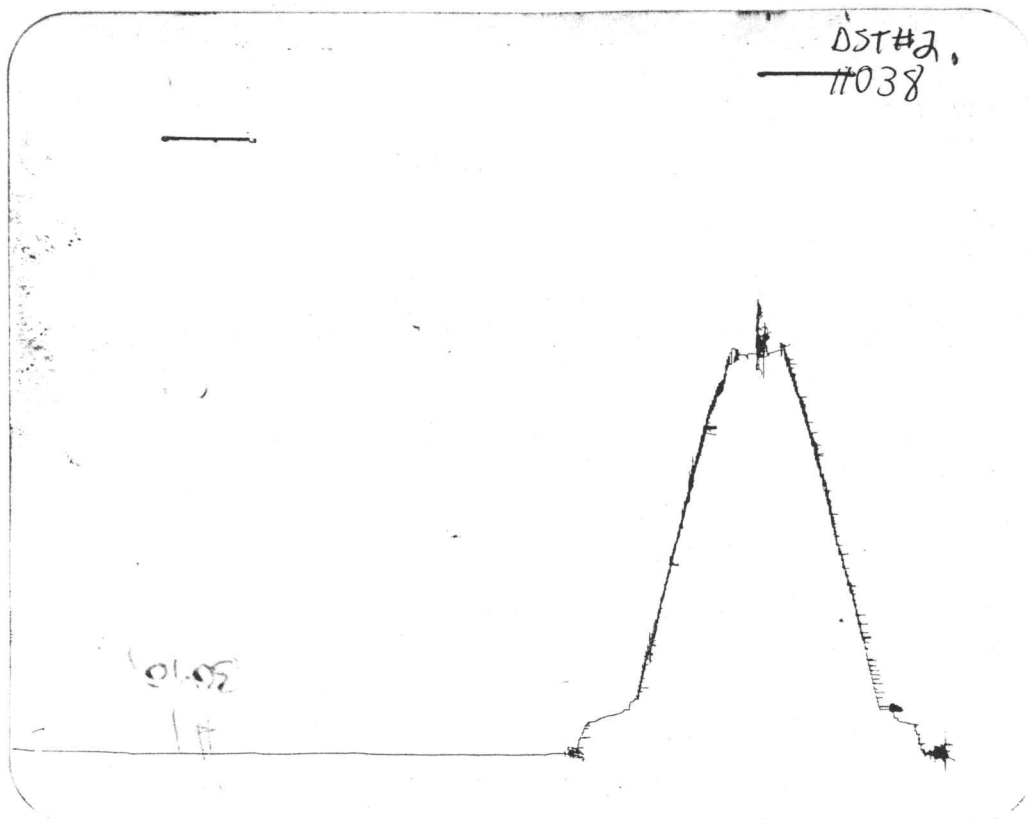
POINT

This is an actual photograph of recorder chart
PRESSURE

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



POINT

This is an actual photograph of recorder chart
PRESSURE

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

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 3 Date 1/1/92
Company CHIEF DRILLING INC Zone Tested LANSING "L"
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5012-5072 Drill Pipe Size 4.5 XH
Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5007 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 5012(5072)straddle
Total Depth 5587

Mud Wt. 8.8 lb / gal. Viscosity 49 Filtrate 8

Tool Open @ 6:04 Initial Blow TOOL OPENED-DRANK SOME MUD

Final Blow PACKER FAILURE

Recovery — Total Feet _____ Flush Tool? _____

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 6000 ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5017 w/Clock No. 3942

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5030 w/Clock No. 27594

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 3975

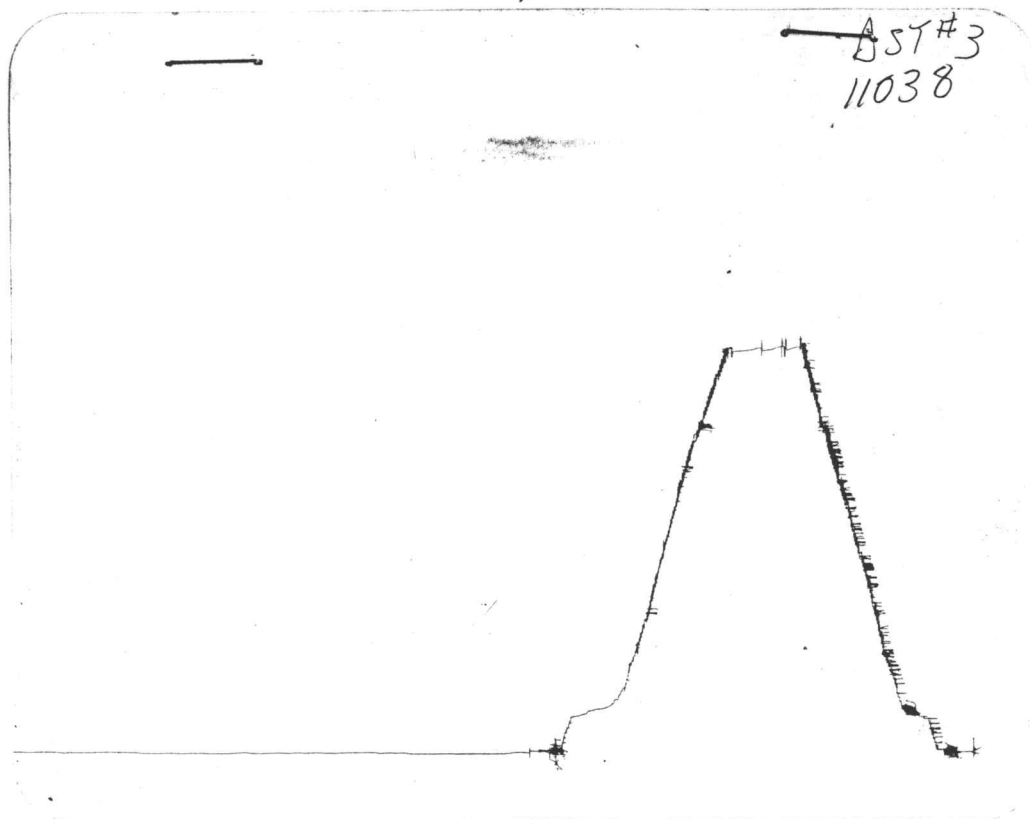
(F) Second Final Flow Pressure _____ PSI @ (depth) 5584 w/Clock No. 25825

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

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

Our Representative LEWAYNE TRESNER

TOTAL PRICE \$ 1150



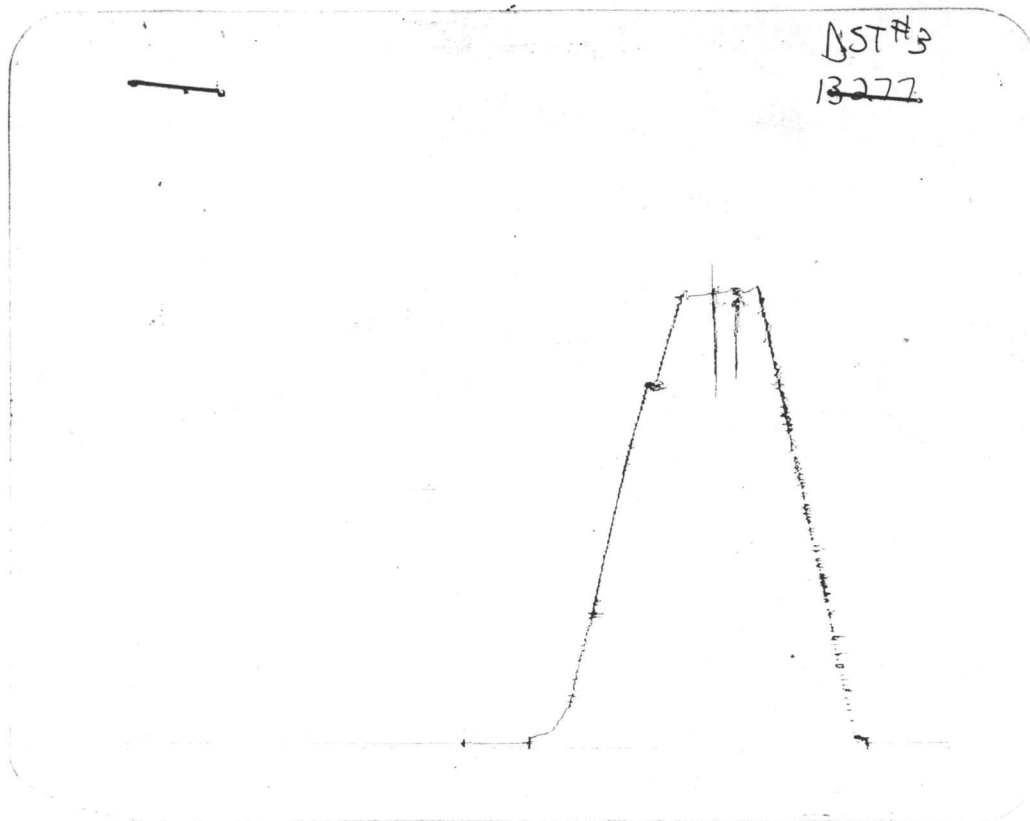
POINT

This is an actual photograph of recorder chart
PRESSURE

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



POINT This is an actual photograph of recorder chart PRESSURE

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

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 4 Date 1/3/92
Company CHIEF DRILLING INC Zone Tested N/A
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5722-5800
Anchor Length 78
Top Packer Depth 5717
Bottom Packer Depth 5722
Total Depth 5800

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.8 lb / gal. Viscosity 46 Filtrate 8.8

Tool Open @ 1:45 AM Initial Blow WEAK BLOW -BUILT TO 1"-DECREASED TO SURFACE
BLOW / NO BLOW BACK ON SHUT IN
Final Blow NO BLOW - NO BLOW ON SHUT IN

Recovery — Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2902.3 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 71.2 PSI @ (depth) 5728 w/Clock No. 3942

(C) First Final Flow Pressure 71.2 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 106.3 PSI @ (depth) 5797 w/Clock No. 27594

(E) Second Initial Flow Pressure 84.3 PSI AK1 Recorder No. _____ Range _____

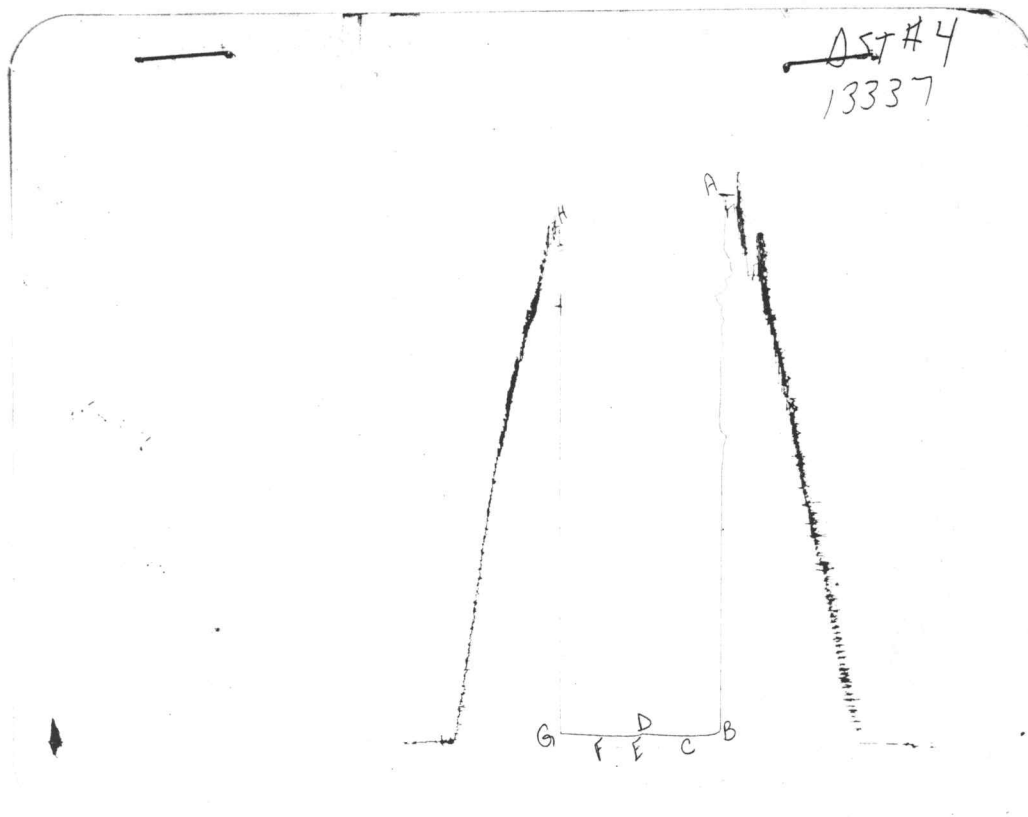
(F) Second Final Flow Pressure 84.3 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 92.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2850.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative LEWAYNE TRESNER

TOTAL PRICE \$ 900



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2898	2902.3
(B) FIRST INITIAL FLOW PRESSURE	67	71.2
(C) FIRST FINAL FLOW PRESSURE	67	71.2
(D) INITIAL CLOSED-IN PRESSURE	101	106.3
(E) SECOND INITIAL FLOW PRESSURE	78	84.3
(F) SECOND FINAL FLOW PRESSURE	78	84.3
(G) FINAL CLOSED-IN PRESSURE	89	92.3
(H) FINAL HYDROSTATIC MUD	2845	2850.6

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 5 Date 1/4/92
Company CHIEF DRILLING INC Zone Tested MORROW
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5722-5899 Drill Pipe Size 4.5 XH
Anchor Length 177 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5717 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 5722
Total Depth 5899

Mud Wt. 8.8 lb / gal. Viscosity 60 Filtrate 8.8

Tool Open @ 12:20 AM Initial Blow STRONG BLOW OFF BOTTOM OF BUCKET IN 2 MIN
ISI: BLED THROUGH 2" - WEAK SURFACE BLOW CONT. THROUGHOUT SHUTIN
Final Blow STRONG-OFF BOTTOM OF BUCKET IMMEDIATELY-GTS IN 30 MIN
GAUGED 33.2 MCF/DAY-FSI: WEAK SURFACE BLOW CONT. THROUGHOUT

Recovery — Total Feet 330 Flush Tool? NO

Rec. 4930 Feet of GAS IN PIPE

Rec. 330 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2961.6 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 205.3 PSI @ (depth) 5785 w/Clock No. 3942

(C) First Final Flow Pressure 250.3 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1680.8 PSI @ (depth) 5896 w/Clock No. 27594

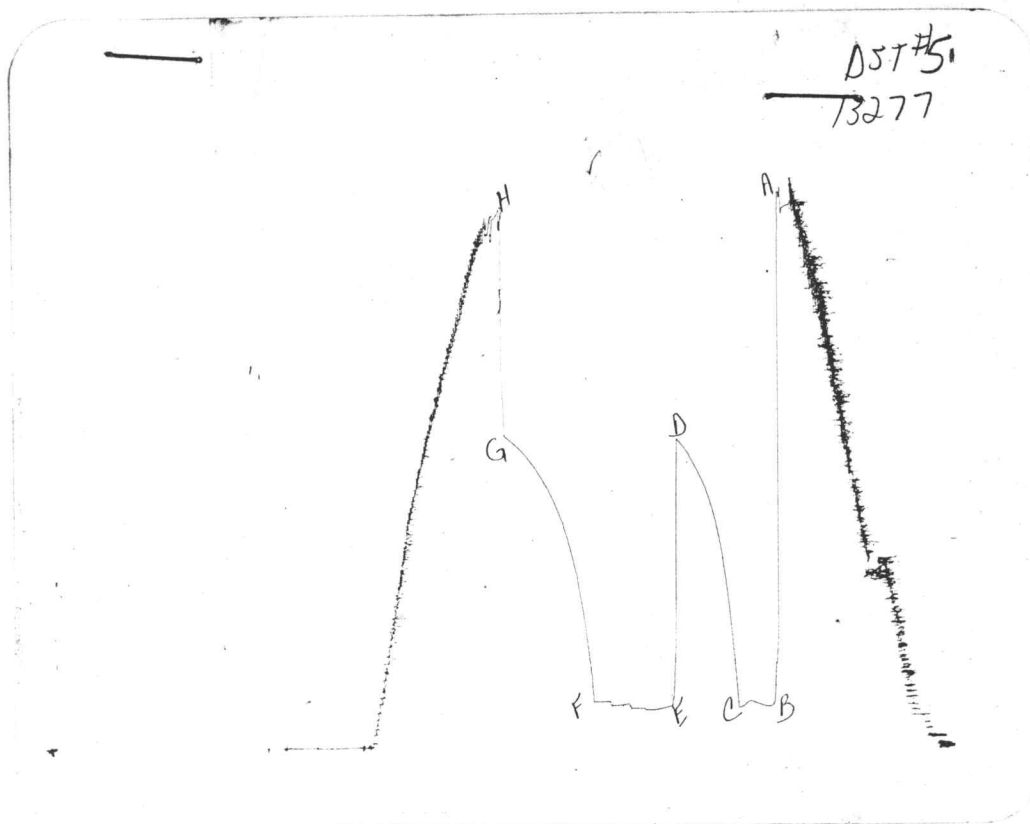
(E) Second Initial Flow Pressure 225.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 260.4 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1680.8 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2933.6 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative LEWAYNE TRESNER TOTAL PRICE \$ 900



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2950	2961.6
(B) FIRST INITIAL FLOW PRESSURE	200	205.3
(C) FIRST FINAL FLOW PRESSURE	244	250.3
(D) INITIAL CLOSED-IN PRESSURE	1679	1680.8
(E) SECOND INITIAL FLOW PRESSURE	222	225.3
(F) SECOND FINAL FLOW PRESSURE	255	260.4
(G) FINAL CLOSED-IN PRESSURE	1679	1680.8
(H) FINAL HYDROSTATIC MUD	2929	2933.6

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 6 Date 1/5/92
Company CHIEF DRILLING INC Zone Tested LWR CHESTER
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation N/A
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5988-6147
Anchor Length 159
Top Packer Depth 5983
Bottom Packer Depth 5988
Total Depth 6147

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar — 2.25 Ft. Run _____

Mud Wt. 8.8 lb / gal. Viscosity 56 Filtrate 11.2

Tool Open @ 10:25 Initial Blow TOOL OPENED-LOST MUD(SLID 10')

Final Blow PACKER FAILURE

Recovery — Total Feet _____ Flush Tool? _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. 129 Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 6010 w/Clock No. 27594

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 6144 w/Clock No. 3942

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

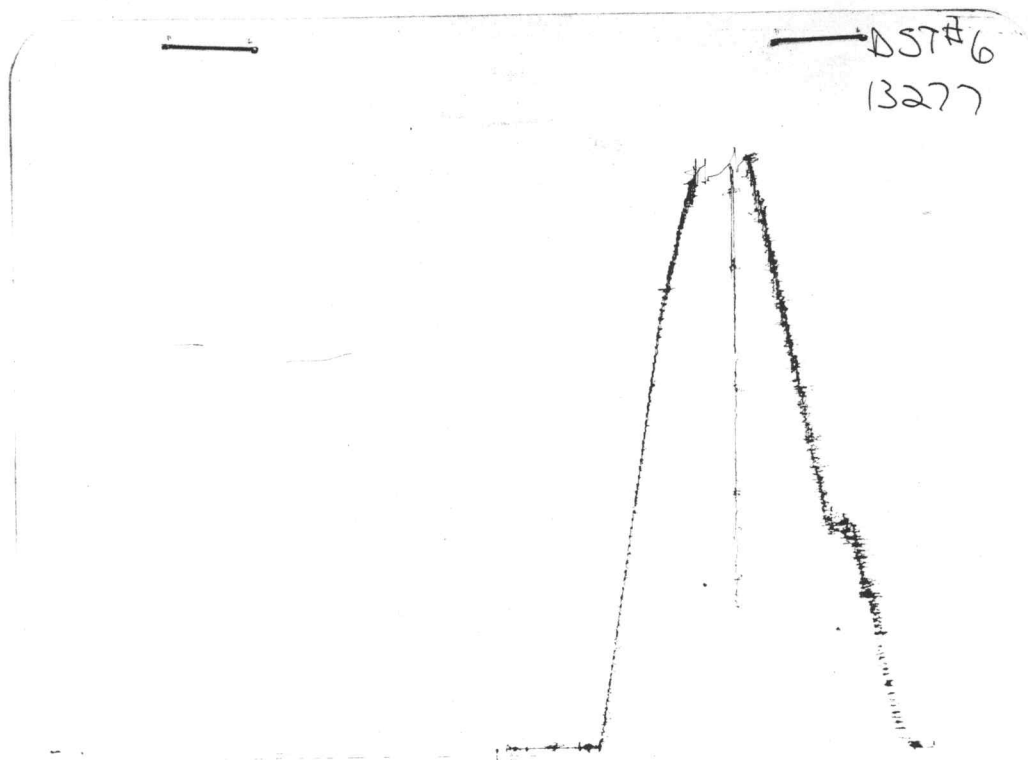
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____

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

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

Our Representative LEWAYNE TRESNER

TOTAL PRICE \$ 850



POINT

This is an actual photograph of recorder chart
PRESSURE

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

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 7 Date 1/6/92
Company CHIEF DRILLING INC Zone Tested ST LOUIS
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation 2659 K.B.
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 6184-6279 Drill Pipe Size 4.5 XH
Anchor Length 95 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6179 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 6184
Total Depth 6279

Mud Wt. 8.9 lb / gal. Viscosity 62 Filtrate 12

Tool Open @ 1:20 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 2 MIN
ISI: BLED OFF BLOW-NO BLOW BACK
Final Blow STRONG BLOW-BUILT TO 8"
FSI: BLED OFF BLOW - NO BLOW BACK

Recovery — Total Feet 120 Flush Tool? NO

Rec. 120 Feet of GAS & OIL CUT MUD-10%GAS/5%OIL/85%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 3288.5 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 83.2 PSI @ (depth) 6222 w/Clock No. 25828

(C) First Final Flow Pressure 83.2 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1630.4 PSI @ (depth) 6276 w/Clock No. 27594

(E) Second Initial Flow Pressure 93.4 PSI AK1 Recorder No. _____ Range _____

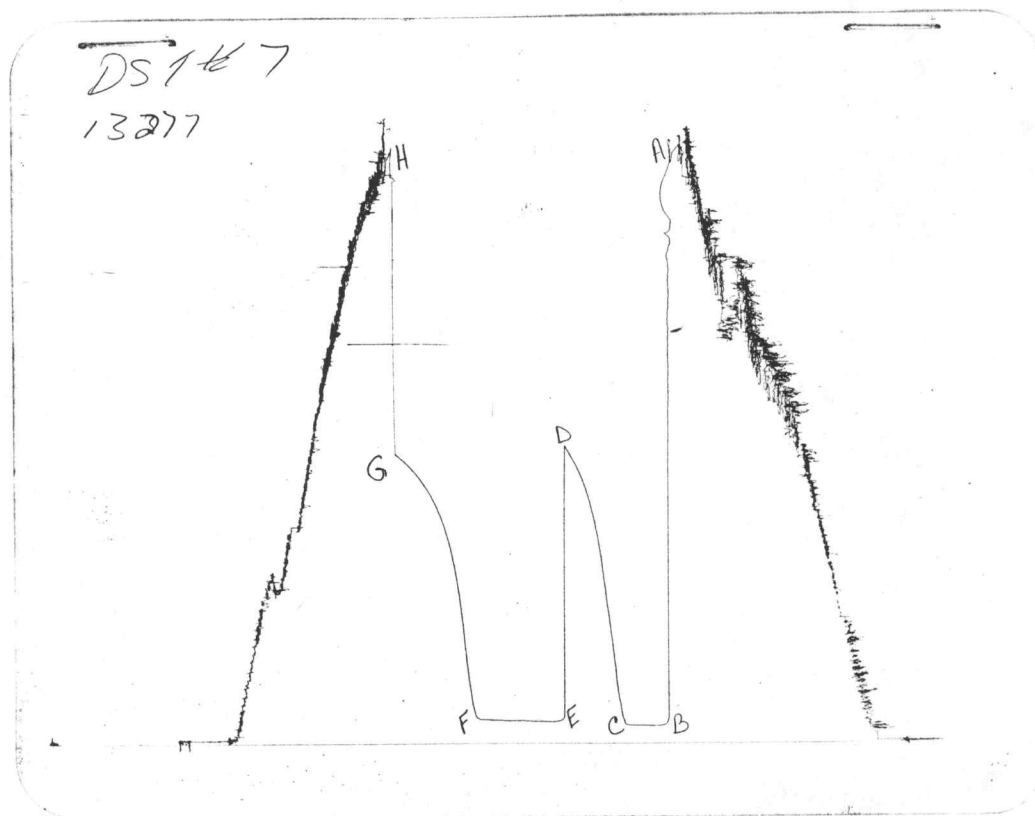
(F) Second Final Flow Pressure 115.6 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1588.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 3205.6 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative TOM HORACEK

TOTAL PRICE \$ 1000



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3283	3288.5
(B) FIRST INITIAL FLOW PRESSURE	78	83.2
(C) FIRST FINAL FLOW PRESSURE	78	83.2
(D) INITIAL CLOSED-IN PRESSURE	1626	1630.4
(E) SECOND INITIAL FLOW PRESSURE	89	93.4
(F) SECOND FINAL FLOW PRESSURE	112	115.6
(G) FINAL CLOSED-IN PRESSURE	1584	1588.7
(H) FINAL HYDROSTATIC MUD	3200	3205.6

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 8 Date 1/7/92
Company CHIEF DRILLING INC Zone Tested MARMATON
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation 2659 K.B.
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 4955-5100 Drill Pipe Size 4.5 XH
Anchor Length 145 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4950-4955 Drill Collar - 2.25 Ft. Run 58
Bottom Packer Depth 5100
Total Depth 6330

Mud Wt. 8.8 lb / gal. Viscosity 55 Filtrate 11.2

Tool Open @ N/A Initial Blow HIT TIGHT SPOT @2763' - TOOL WOULD NOT GO THROUGH

Final Blow _____

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 9500 ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5086 w/Clock No. 25828

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5092 w/Clock No. 27594

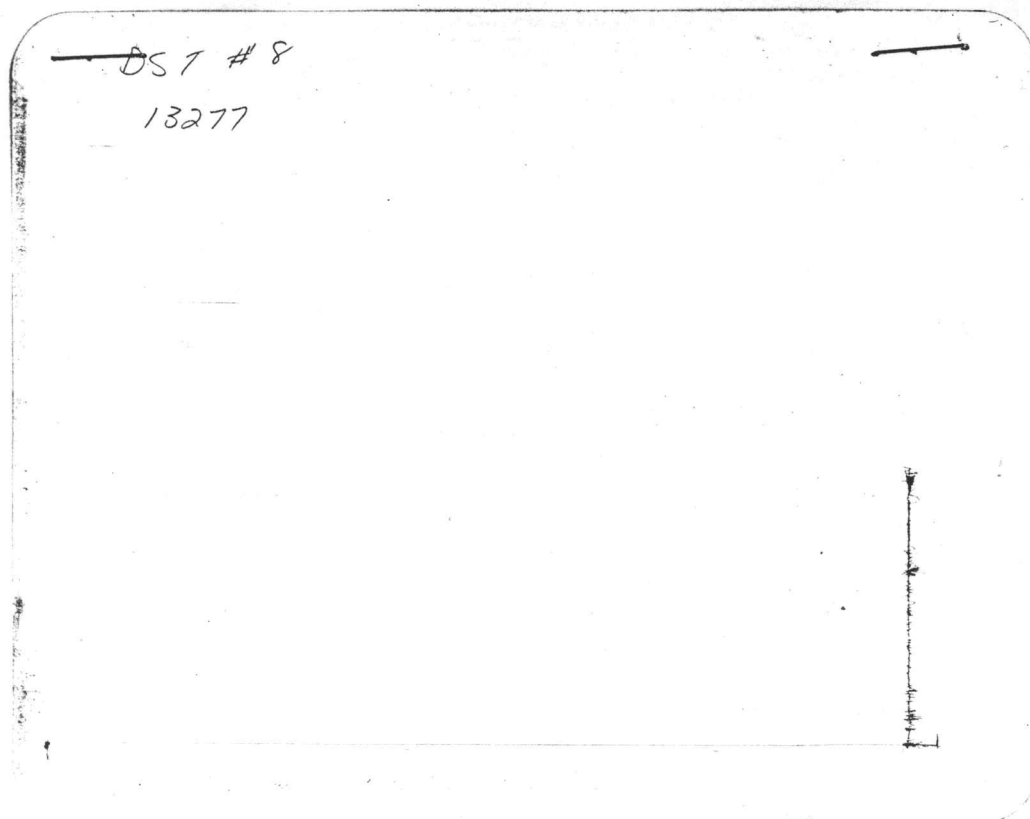
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 5075

(F) Second Final Flow Pressure _____ PSI @ (depth) 5167 w/Clock No. 3942

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

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

Our Representative TOM HORACEK TOTAL PRICE \$ 1450



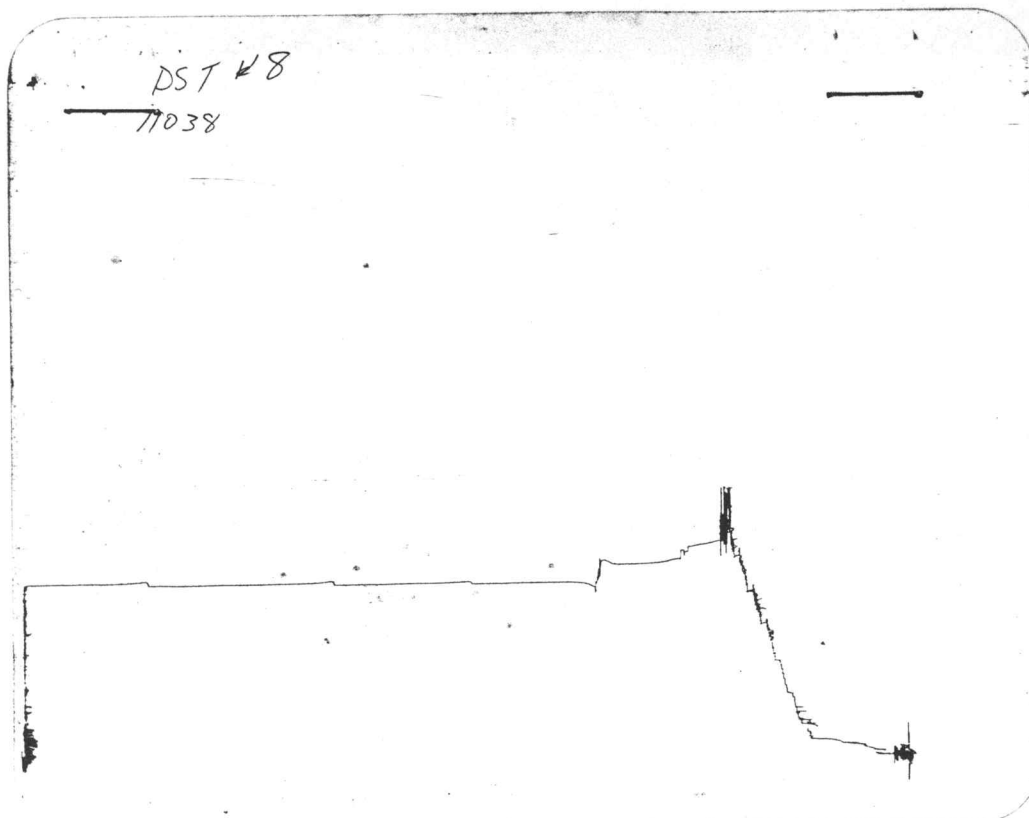
POINT

This is an actual photograph of recorder chart
PRESSURE

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



POINT

This is an actual photograph of recorder chart
PRESSURE

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

TRILOBITE TESTING COMPANY *LLB*

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 9 Date 1/8/92
Company CHIEF DRILLING INC Zone Tested ST LOUIS
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation 2659 K.B.
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 6218-6330 Drill Pipe Size 4.5 XH
Anchor Length 112 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6213 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 6218
Total Depth 6330

Mud Wt. 8.9 lb / gal. Viscosity 68 Filtrate 12.8

Tool Open @ 3:40 AM Initial Blow 1/2" BLOW-BUILT TO 1 1/2"
ISI: BLED OFF BLOW-NO BLOW BACK
Final Blow SURFACE BLOW DIED IN 20 MINUTES

Recovery — Total Feet 140 Flush Tool? NO

Rec. 140 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 3278.4 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 106.2 PSI @ (depth) 6314 w/Clock No. 25828

(C) First Final Flow Pressure 114.8 PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure 1874.2 PSI @ (depth) 6327 w/Clock No. 27594

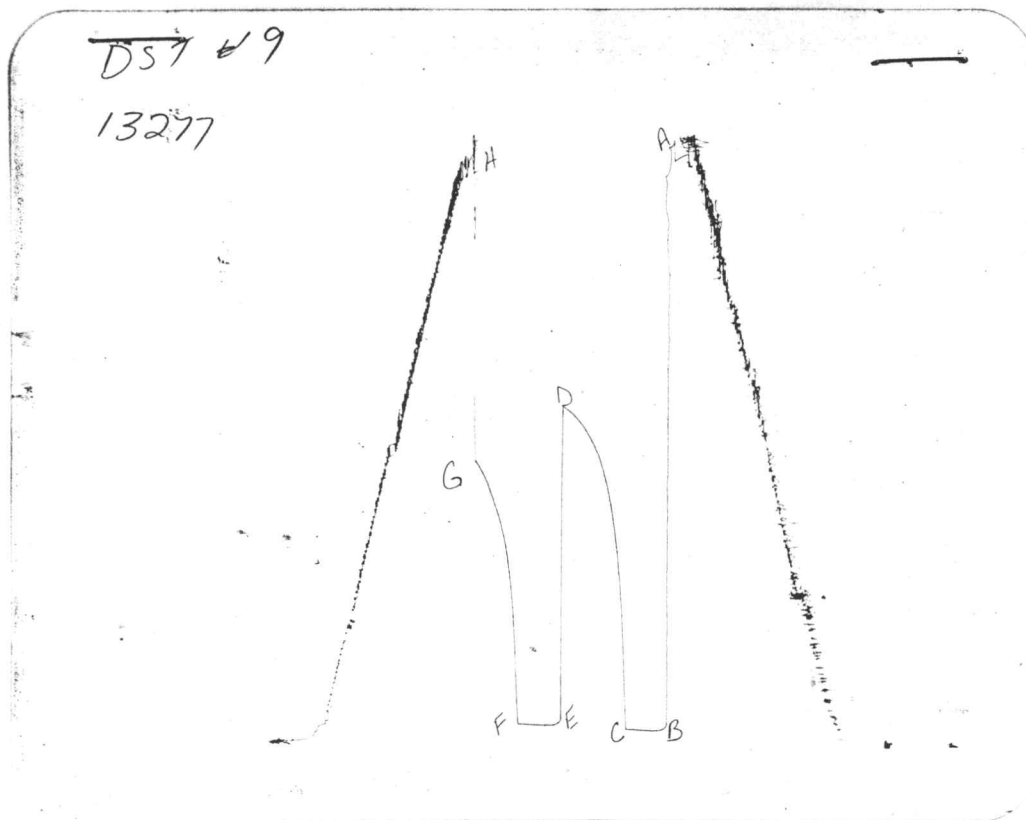
(E) Second Initial Flow Pressure 125.6 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 138.7 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1589.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 3235.4 PSI Initial Shut-in 45 Final Shut-in 30

Our Representative TOM HORACEK TOTAL PRICE \$ 1000



POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	3273	3278.4
(B) FIRST INITIAL FLOW PRESSURE	101	106.2
(C) FIRST FINAL FLOW PRESSURE	112	114.8
(D) INITIAL CLOSED-IN PRESSURE	1869	1874.2
(E) SECOND INITIAL FLOW PRESSURE	123	125.6
(F) SECOND FINAL FLOW PRESSURE	134	138.7
(G) FINAL CLOSED-IN PRESSURE	1584	1589.3
(H) FINAL HYDROSTATIC MUD	3233	3235.4

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 10 Date 1/9/92
Company CHIEF DRILLING INC Zone Tested MARMATON
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation 2659 K.B.
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5140-5196
Anchor Length 56
Top Packer Depth 5135-5140
Bottom Packer Depth 5196
Total Depth 6330

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar — 2.25 Ft. Run 58

Mud Wt. 9 lb / gal. Viscosity 70 Filtrate 8.8

Tool Open @ N/A Initial Blow HIT TIGHT SPOT @3250' - TOOL WOULD NOT GO THROUGH

Final Blow _____

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 10000 ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5177 w/Clock No. 25828

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5184 w/Clock No. 27594

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 5075

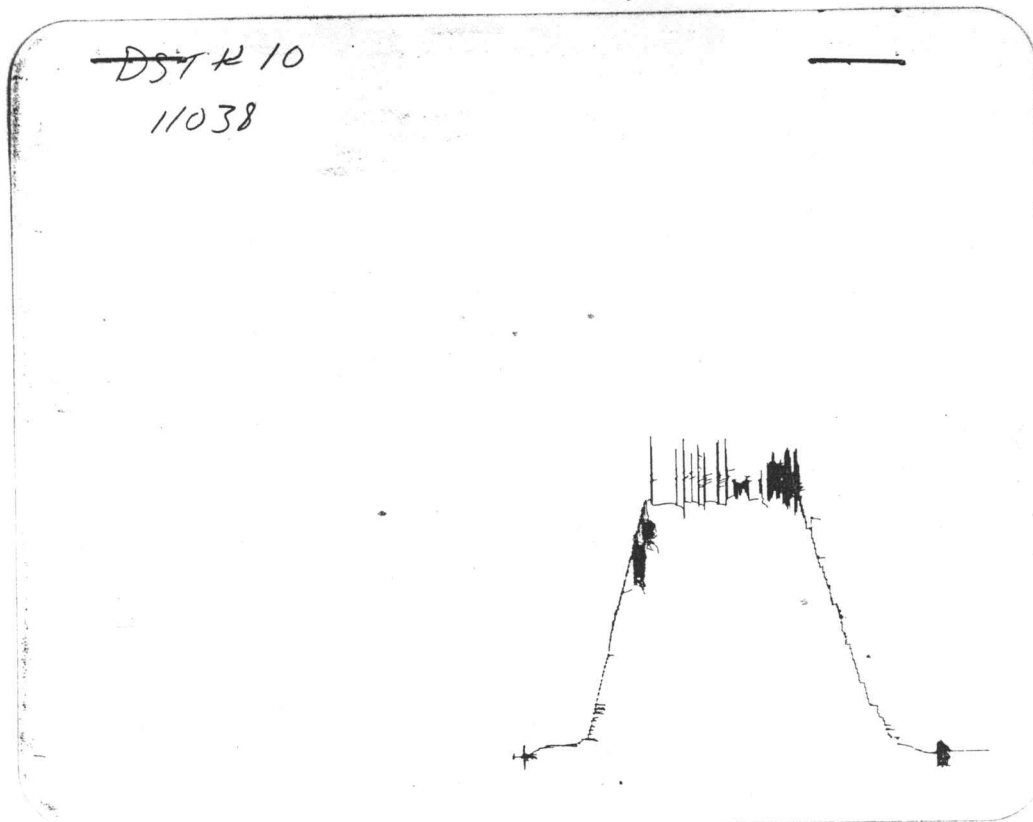
(F) Second Final Flow Pressure _____ PSI @ (depth) 5262 w/Clock No. 3942

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

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

Our Representative TOM HORACEK

TOTAL PRICE \$ 1730

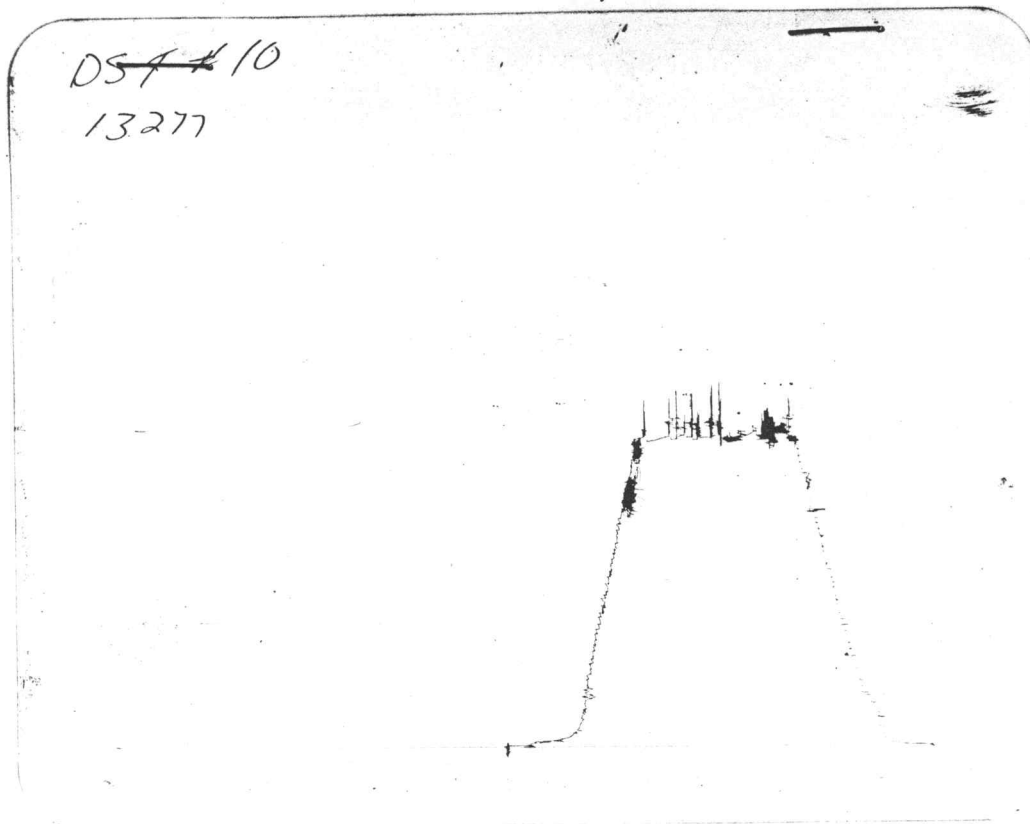


POINT This is an actual photograph of recorder chart
PRESSURE

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



POINT This is an actual photograph of recorder chart
PRESSURE

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

TRILOBITE TESTING COMPANY L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BOND #1-18 Test No. 11 Date 1/9/92
Company CHIEF DRILLING INC Zone Tested MARMATON
Address 224 E DOUGLAS SUITE #530 WICHITA KS Elevation 2659 K.B.
Co. Rep./Geo. RON DULOS Cont. ALLEN DRLG #5 Est. Ft. of Pay _____
Location: Sec. 18 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5140-5196 Drill Pipe Size 4.5 XH
Anchor Length 56 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5135-5140 Drill Collar — 2.25 Ft. Run 58
Bottom Packer Depth 5196
Total Depth 6330

Mud Wt. 9 lb / gal. Viscosity 70 Filtrate 8.8

Tool Open @ N/A Initial Blow HOOK WOULD NOT HOLD

Final Blow _____

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 10000 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure _____ PSI @ (depth) 5177 w/Clock No. 25828

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 5495 Range 4200

(D) Initial Shut-in Pressure _____ PSI @ (depth) 5184 w/Clock No. 27594

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 11038 Range 5075

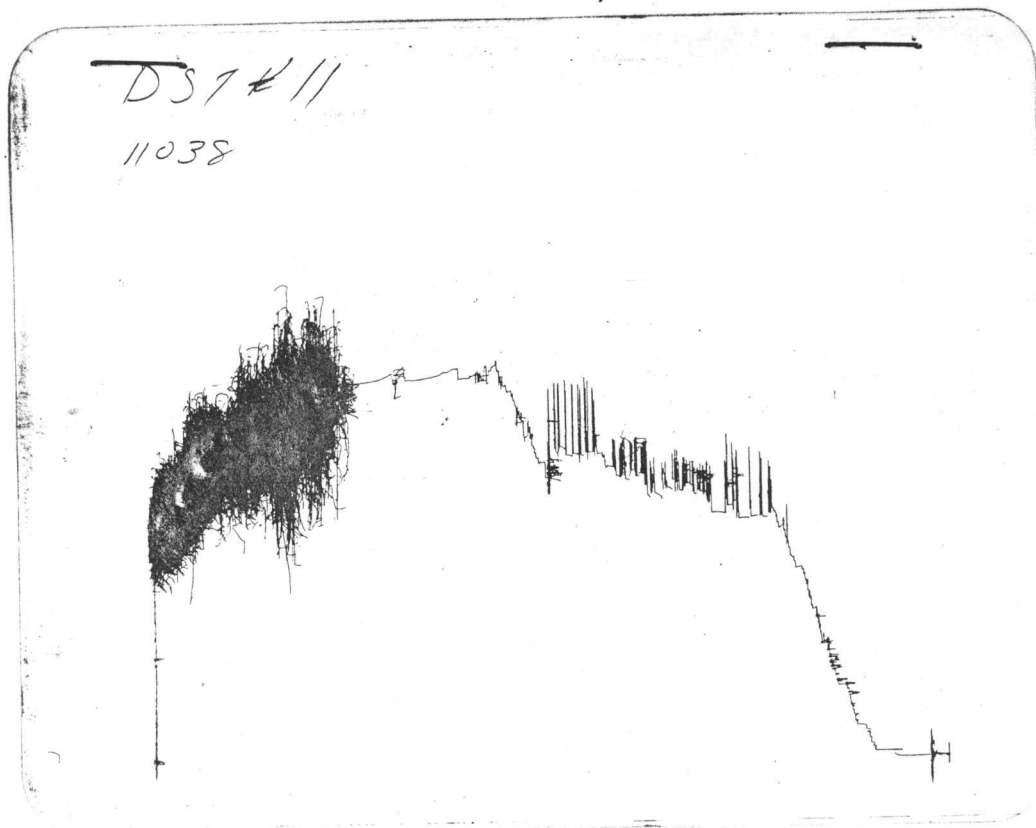
(F) Second Final Flow Pressure _____ PSI @ (depth) 5262 w/Clock No. 3942

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

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

Our Representative TOM HORACEK

TOTAL PRICE \$ 1730

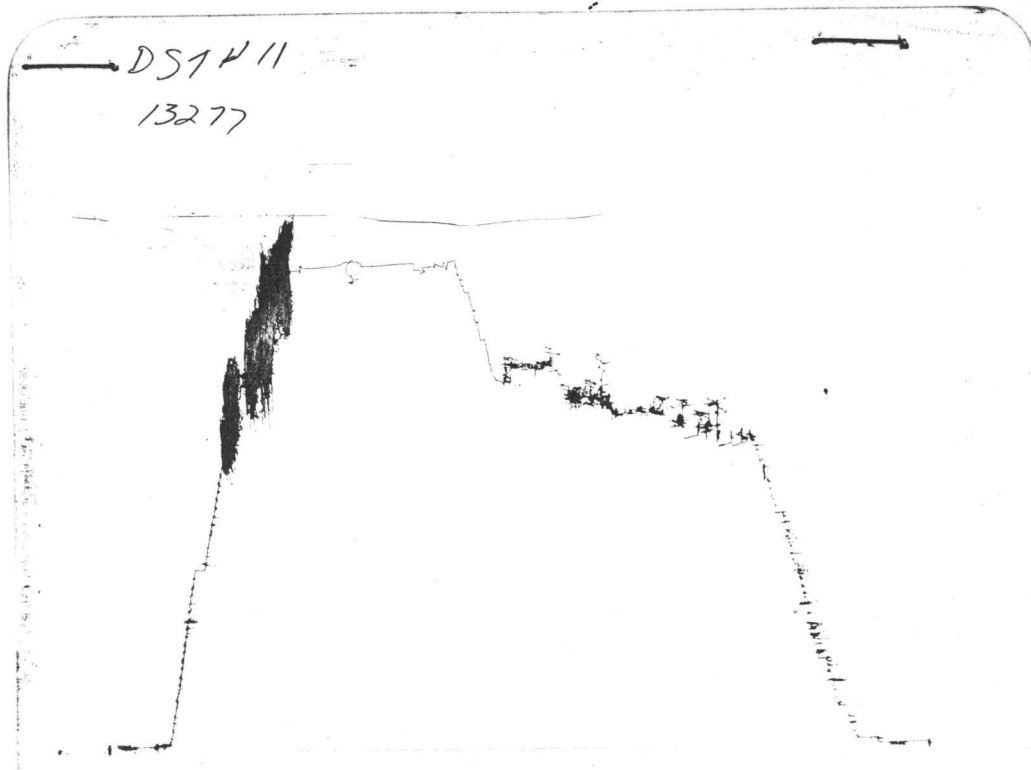


POINT This is an actual photograph of recorder chart
PRESSURE

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



POINT This is an actual photograph of recorder chart
PRESSURE

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