

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DUMLER U #4 Test No. 1 Date 10/31/94
Company PICKRELL DRILLING COMPANY, INC. Zone MARMATON
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2562
Co. Rep./Geo. BILL KLAVER Cont. COMPANY TOOLS Est. Ft. of Pay _____
Location: Sec. 14 Twp. 17S Rge. 26W Co. NESS State KS

Interval Tested	<u>4228-4266</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>38</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4223</u>	Drill Collar - 2.25 Ft. Run	<u>176</u>
Bottom Packer Depth	<u>4228</u>	Mud Wt.	<u>9.4</u> lb/Gal.
Total Depth	<u>4266</u>	Viscosity	<u>43</u>
		Filtrate	<u>10.4</u>

Tool Open @ 2:08PM Initial Blow GOOD BLOW - OFF BOTTOM IN 13 MINUTES

Final Blow OFF BOTTOM IN 22 MINUTES

Recovery - Total Feet 176 Flush Tool? NO

Rec. <u>496</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>58</u>	Feet of	<u>OIL CUT MUD 8%OIL/92%MUD</u>
Rec. <u>58</u>	Feet of	<u>GASSY OIL CUT MUD 40%GAS/10%OIL/50%MUD</u>
Rec. <u>60</u>	Feet of	<u>GASSY WATERY MUD CUT OIL 40%GAS/50%OIL/2%WATER/8%MUD</u>
Rec. _____	Feet of	_____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2110.3 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 39.2 PSI @ (depth) 4230 w / Clock No. 25113

(C) First Final Flow Pressure 63.8 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 224.2 PSI @ (depth) 4262 w / Clock No. 21048

(E) Second Initial Flow Pressure 79.5 PSI AK1 Recorder No. _____ Range _____

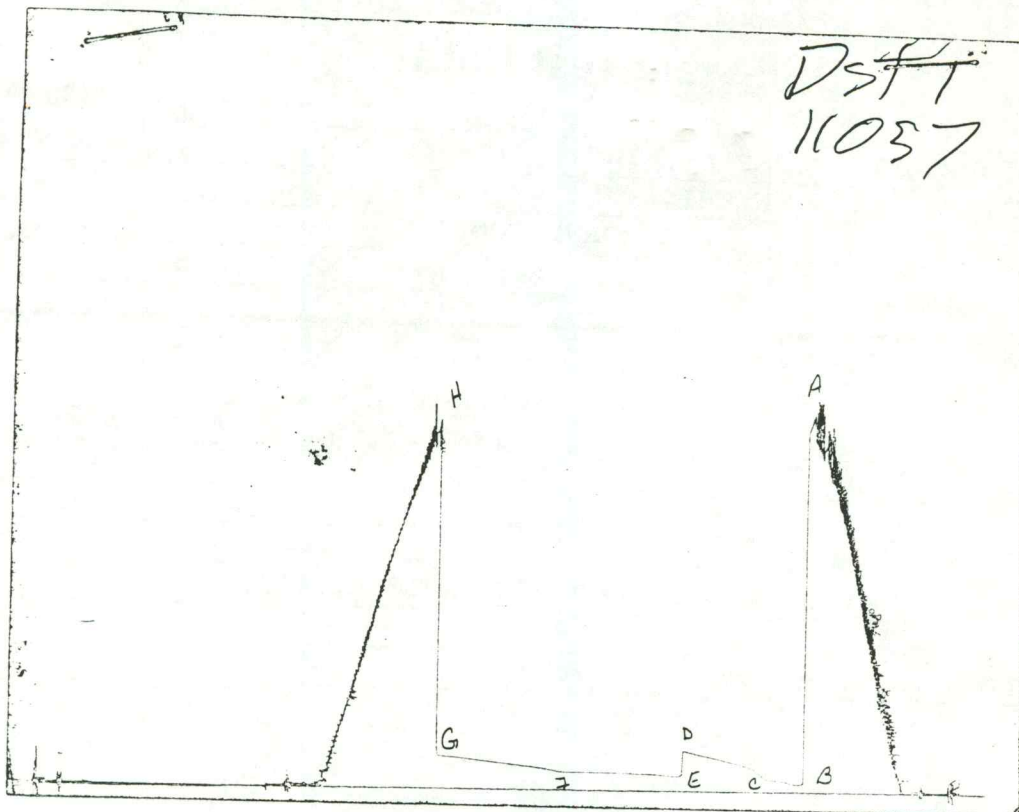
(F) Second Final Flow Pressure 97.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 181.6 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2097.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2109	2110.3
(B) FIRST INITIAL FLOW PRESSURE	44	39.2
(C) FIRST FINAL FLOW PRESSURE	55	63.8
(D) INITIAL CLOSED-IN PRESSURE	222	224.2
(E) SECOND INITIAL FLOW PRESSURE	77	79.5
(F) SECOND FINAL FLOW PRESSURE	100	97.5
(G) FINAL CLOSED-IN PRESSURE	177	181.6
(H) FINAL HYDROSTATIC MUD	2087	2097.4

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Drill-Stem Test Data

Well Name DUMLER U #4 Test No. 2 Date 11/1/94
Company PICKRELL DRILLING COMPANY, INC. Zone FT SCOTT
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2562
Co. Rep./Geo. BILL KLAVER Cont. COMPANY TOOLS Est. Ft. of Pay _____
Location: Sec. 14 Twp. 17S Rge. 26W Co. NESS State KS

Interval Tested <u>4370-4412</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>42</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4365</u>	Drill Collar - 2.25 Ft. Run <u>176</u>
Bottom Packer Depth <u>4370</u>	Mud Wt. <u>9.4</u> lb/Gal.
Total Depth <u>4412</u>	Viscosity <u>57</u> Filtrate <u>12.8</u>

Tool Open @ 10:05PM Initial Blow WEAK SURFACE BLOW TO NO BLOW IN 5 MINUTES

Final Blow NO BLOW - FLUSHED TOOL - GOOD FLUSH - NO BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. 30 Feet of SLIGHTLY OIL STAINED MUD TRACE OIL/100%MUD
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 2500 ppm System

(A) Initial Hydrostatic Mud 2291.8 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 25.7 PSI @ (depth) 4372 w / Clock No. 25113

(C) First Final Flow Pressure 25.7 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 883.9 PSI @ (depth) 4377 w / Clock No. 21048

(E) Second Initial Flow Pressure 35.8 PSI AK1 Recorder No. _____ Range _____

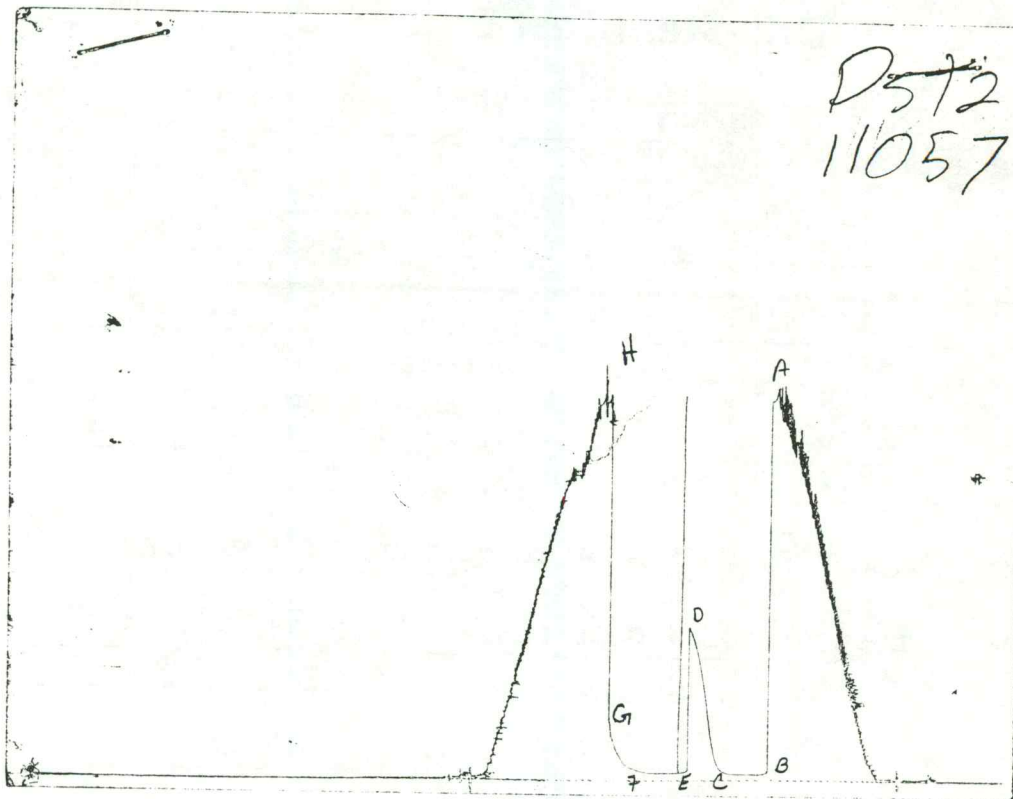
(F) Second Final Flow Pressure 61.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 248.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2242.1 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	2300	2291.8
(B) FIRST INITIAL FLOW PRESSURE	44	25.7
(C) FIRST FINAL FLOW PRESSURE	44	25.7
(D) INITIAL CLOSED-IN PRESSURE	895	883.9
(E) SECOND INITIAL FLOW PRESSURE	44	35.8
(F) SECOND FINAL FLOW PRESSURE	55	61.8
(G) FINAL CLOSED-IN PRESSURE	333	248.8
(H) FINAL HYDROSTATIC MUD	2266	2242.1

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Drill-Stem Test Data

Well Name DUMLER U #4 Test No. 3 Date 11/2/94
Company PICKRELL DRILLING COMPANY, INC. Zone MISSISSIPPI
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2562
Co. Rep./Geo. BILL KLAVER Cont. COMPANY TOOLS Est. Ft. of Pay _____
Location: Sec. 14 Twp. 17S Rge. 26W Co. NESS State KS

Interval Tested 4450-4498
Anchor Length 48
Top Packer Depth 4445
Bottom Packer Depth 4450
Total Depth 4498

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 176
Mud Wt. 9.5 lb/Gal.
Viscosity 48 Filtrate 12

Tool Open @ 9:30PM Initial Blow WEAK SURFACE TO 2 1/2" IN 30 MINUTES

Final Blow NO BLOW FOR 6 MINUTES - WEAK SURFACE BLOW FOR 75 MINUTES
TO NO BLOW

Recovery - Total Feet 40 Flush Tool? NO

Rec. 80 Feet of GAS IN PIPE
Rec. 5 Feet of CLEAN OIL 100%OIL
Rec. 35 Feet of SLIGHTLY OIL WATER CUT MUD 5%OIL/35%WATER/60%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.19 @ 59 °F Chlorides 42000 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2355.2 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 28.1 PSI @ (depth) 4452 w / Clock No. 25113

(C) First Final Flow Pressure 44.8 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 693.1 PSI @ (depth) 4494 w / Clock No. 21048

(E) Second Initial Flow Pressure 32.5 PSI AK1 Recorder No. _____ Range _____

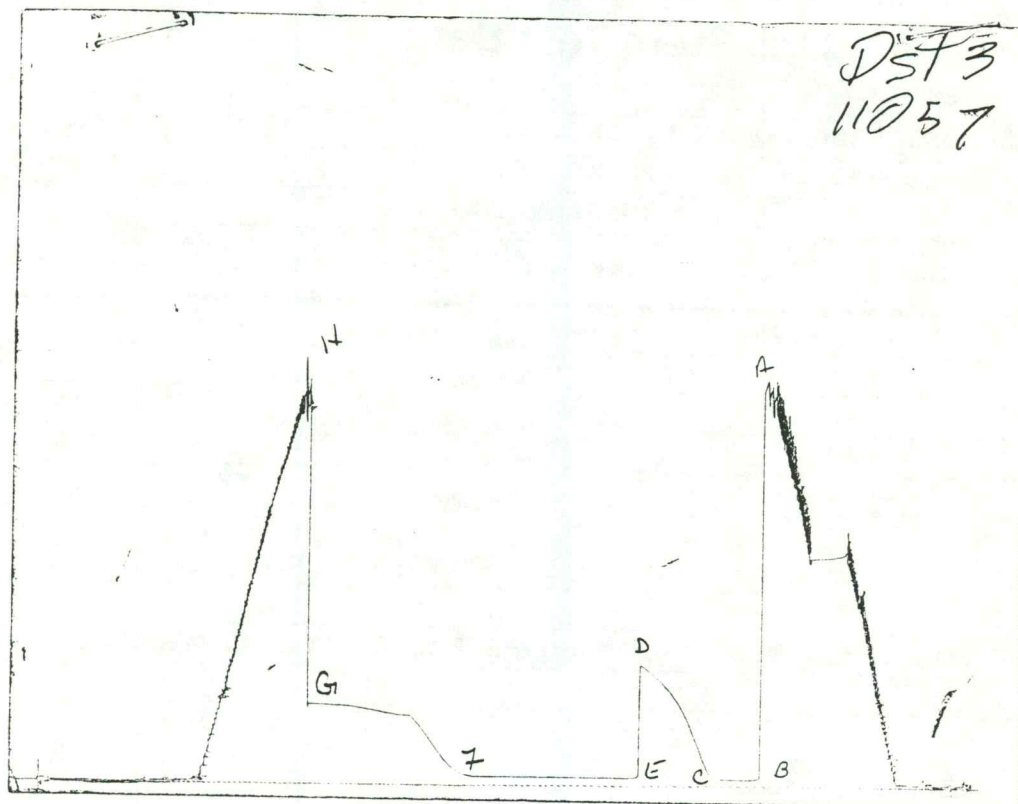
(F) Second Final Flow Pressure 35.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 454.1 PSI Initial Opening 30 Final Flow 120

(H) Final Hydrostatic Mud 2348.4 PSI Initial Shut-in 60 Final Shut-in 120

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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2356	2355.2
(B) FIRST INITIAL FLOW PRESSURE	44	28.1
(C) FIRST FINAL FLOW PRESSURE	55	44.8
(D) INITIAL CLOSED-IN PRESSURE	703	693.1
(E) SECOND INITIAL FLOW PRESSURE	55	32.5
(F) SECOND FINAL FLOW PRESSURE	55	35.2
(G) FINAL CLOSED-IN PRESSURE	455	454.1
(H) FINAL HYDROSTATIC MUD	2322	2348.4

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Drill-Stem Test Data

Well Name DUMLER U #4 Test No. 4 Date 11/3/94
Company PICKRELL DRILLING COMPANY, INC. Zone MISSISSIPPI
Address 110 N MARKET #205 WICHITA KS 67202 Elevation 2562
Co. Rep./Geo. BILL KLAVER Cont. COMPANY TOOLS Est. Ft. of Pay _____
Location: Sec. 14 Twp. 17S Rge. 26W Co. NESS State KS

Interval Tested	<u>4452-4503</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>51</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4447</u>	Drill Collar - 2.25 Ft. Run	<u>176</u>
Bottom Packer Depth	<u>4452</u>	Mud Wt.	<u>9.5</u> lb/Gal.
Total Depth	<u>4503</u>	Viscosity	<u>48</u>
		Filtrate	<u>12</u>

Tool Open @ 1:57PM Initial Blow WEAK SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN
29 MINUTES

Final Blow WEAK SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 32 MINUTES
3/4" BLOW ON SHUT-IN

Recovery - Total Feet 552 Flush Tool? NO

Rec. <u>248</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>314</u>	Feet of	<u>CLEAN GASSY OIL 10%GAS/90%OIL</u>
Rec. <u>180</u>	Feet of	<u>GASSY OIL MUD 15%GAS/15%OIL/60%MUD</u>
Rec. <u>58</u>	Feet of	<u>GAS OIL STAINED WATER MUD 20%GAS/15%OIL/2%WATER/63%MUD</u>
Rec. _____	Feet of	_____

BHT 122 °F Gravity 39 °API @ 70 °F Corrected Gravity 38 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2395.9 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 44.8 PSI @ (depth) 4454 w / Clock No. 25113

(C) First Final Flow Pressure 104.2 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 911.8 PSI @ (depth) 4499 w / Clock No. 21048

(E) Second Initial Flow Pressure 116.5 PSI AK1 Recorder No. _____ Range _____

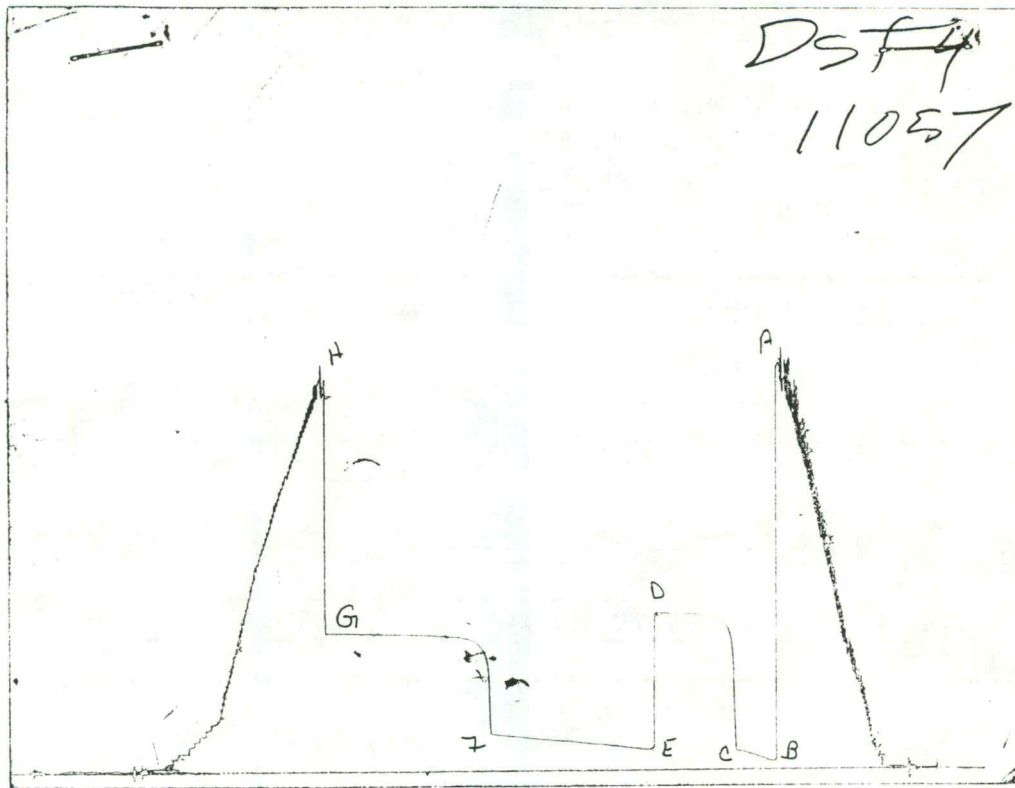
(F) Second Final Flow Pressure 209.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 802.4 PSI Initial Opening 30 Final Flow 120

(H) Final Hydrostatic Mud 2280.5 PSI Initial Shut-in 60 Final Shut-in 120

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2356	2395.9
(B) FIRST INITIAL FLOW PRESSURE	44	44.8
(C) FIRST FINAL FLOW PRESSURE	100	104.2
(D) INITIAL CLOSED-IN PRESSURE	900	911.8
(E) SECOND INITIAL FLOW PRESSURE	100	116.5
(F) SECOND FINAL FLOW PRESSURE	200	209.6
(G) FINAL CLOSED-IN PRESSURE	782	802.4
(H) FINAL HYDROSTATIC MUD	2300	2280.5