

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HARRISON #2 Test No. 1 Date 6/13/94
Company NATIONAL OIL Zone SHAWNEE
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 3804-3870 Drill Pipe Size 4.5" XH
Anchor Length 66 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3799 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 3804 Mud Wt. 8.9 lb/Gal.
Total Depth 3870 Viscosity 60 Filtrate 9

Tool Open @ 2:20PM Initial Blow GOOD BLOW - OFF BOTTOM IN 10 MINUTES

Final Blow GOOD BLOW - OFF BOTTOM IN 13 MINUTES
NO BLOW ON SHUT-IN

Recovery - Total Feet 490 Flush Tool? NO

Rec. 20 Feet of SLIGHTLY OIL STAINED WATERY MUD 40%WATER/60%MUD
Rec. 470 Feet of MUDDY WATER 90%WATER/10%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 85 °F Chlorides 30000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1856.5 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 55.5 PSI @ (depth) 3807 w / Clock No. 25828

(C) First Final Flow Pressure 135.3 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1139.7 PSI @ (depth) 3840 w / Clock No. 26199

(E) Second Initial Flow Pressure 169.1 PSI AK1 Recorder No. _____ Range _____

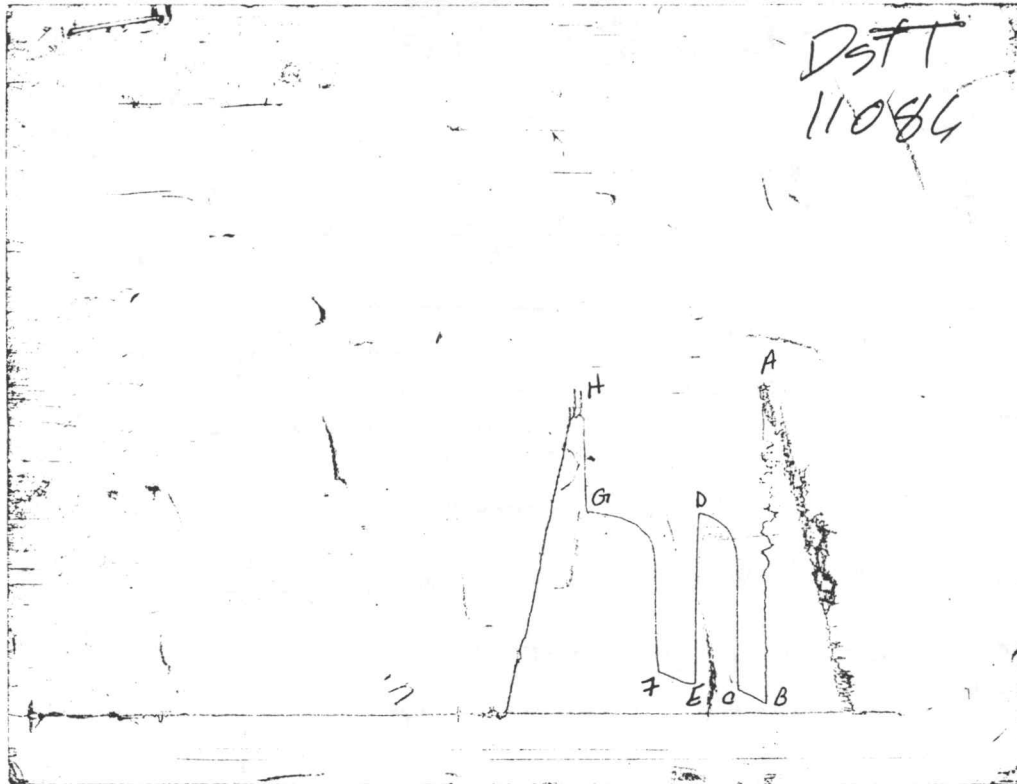
(F) Second Final Flow Pressure 238.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1150.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1837.9 PSI Initial Shut-in 30 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	1844	1856.5
(B) FIRST INITIAL FLOW PRESSURE	60	55.5
(C) FIRST FINAL FLOW PRESSURE	151	135.3
(D) INITIAL CLOSED-IN PRESSURE	1064	1139.7
(E) SECOND INITIAL FLOW PRESSURE	172	169.1
(F) SECOND FINAL FLOW PRESSURE	263	238.9
(G) FINAL CLOSED-IN PRESSURE	1074	1150.6
(H) FINAL HYDROSTATIC MUD	1773	1837.9

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Drill-Stem Test Data

Well Name HARRISON #2 Test No. 2 Date 6/14/94
Company NATIONAL OIL Zone LKC
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 3903-3920 Drill Pipe Size 4.5" XH
Anchor Length 17 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3897 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 3903 Mud Wt. 8.7 lb/Gal.
Total Depth 3920 Viscosity 62 Filtrate 10

Tool Open @ 3:15AM Initial Blow WEAK SURFACE BLOW BUILT TO 8" IN 30 MINUTES

Final Blow WEAK SURFACE BLOW BUILT TO 10 1/2" IN 45 MINUTES

Recovery - Total Feet 105 Flush Tool? NO

Rec. 135 Feet of GAS IN PIPE
Rec. 45 Feet of CLEAN OIL
Rec. 30 Feet of OIL CUT MUD 40%OIL/60%MUD
Rec. 30 Feet of OIL CUT MUDDY WATER 10%OIL/60%WATER/30%MUD
Rec. _____ Feet of _____

BHT 118 °F Gravity 39 °API @ 85 °F Corrected Gravity 36.5 °API
RW _____ @ _____ °F Chlorides 30000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1973.9 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 32.7 PSI @ (depth) 3905 w / Clock No. 25828

(C) First Final Flow Pressure 38.1 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1152.8 PSI @ (depth) 3915 w / Clock No. 26199

(E) Second Initial Flow Pressure 43.6 PSI AK1 Recorder No. _____ Range _____

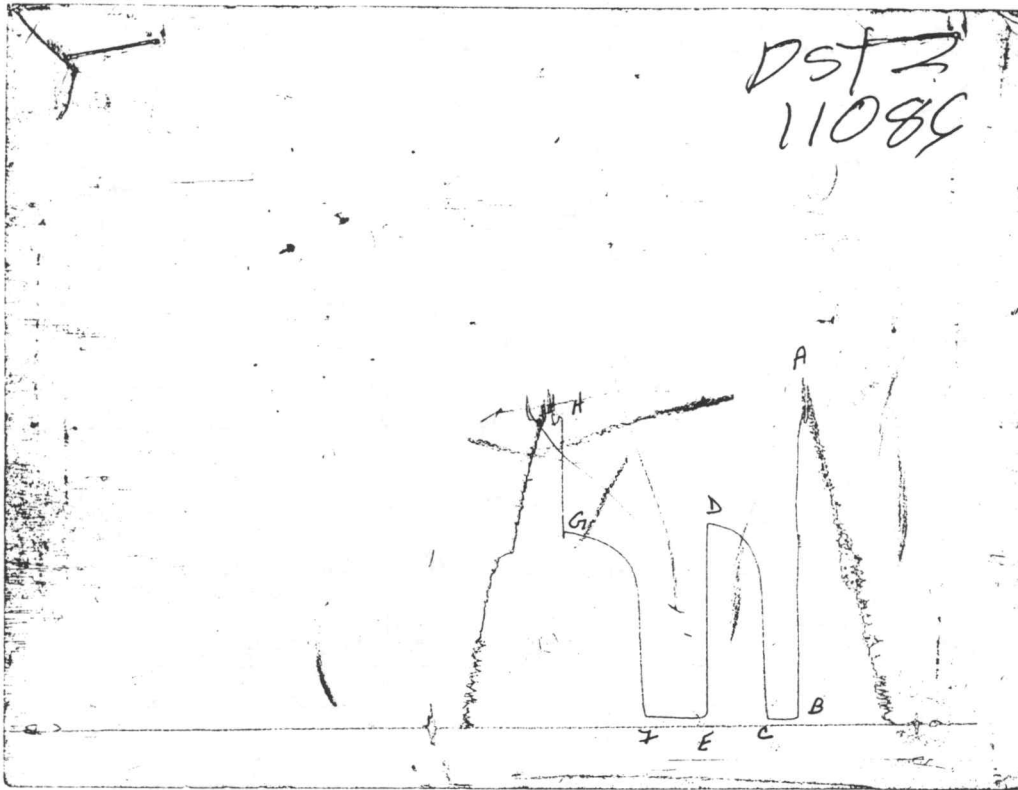
(F) Second Final Flow Pressure 52.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1109.1 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1892.3 PSI Initial Shut-in 45 Final Shut-in 60

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1815	1973.9
(B) FIRST INITIAL FLOW PRESSURE	32	32.7
(C) FIRST FINAL FLOW PRESSURE	43	38.1
(D) INITIAL CLOSED-IN PRESSURE	1150	1152.8
(E) SECOND INITIAL FLOW PRESSURE	43	43.6
(F) SECOND FINAL FLOW PRESSURE	54	52.4
(G) FINAL CLOSED-IN PRESSURE	1106	1109.1
(H) FINAL HYDROSTATIC MUD	1771	1892.3

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Drill-Stem Test Data

Well Name HARRISON #2 Test No. 3 Date 6/15/94
Company NATIONAL OIL Zone LKC 'J'
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 4104-4136 Drill Pipe Size 4.5" XH
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4094 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4104 Mud Wt. 9.1 lb/Gal.
Total Depth 4136 Viscosity 46 Filtrate 10.4

Tool Open @ 3:02AM Initial Blow OFF BOTTOM IN 2 MINUTES 30 SECONDS

Final Blow OFF BOTTOM IN 3 MINUTES
NO BLOW ON SHUTIN

Recovery - Total Feet 1135 Flush Tool? NO

Rec. 1135 Feet of SALT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.22 @ 71 °F Chlorides 31000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2013.6 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 125.9 PSI @ (depth) 4106 w / Clock No. 25828

(C) First Final Flow Pressure 346.9 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1015.7 PSI @ (depth) 4131 w / Clock No. 26199

(E) Second Initial Flow Pressure 397.9 PSI AK1 Recorder No. _____ Range _____

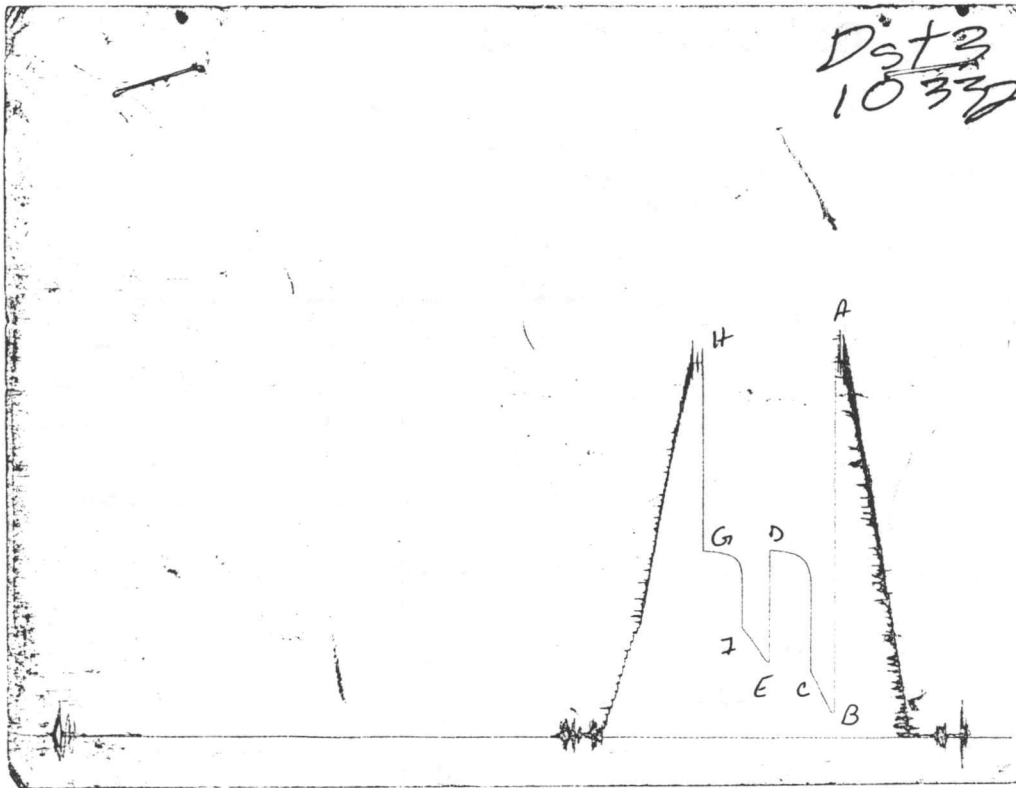
(F) Second Final Flow Pressure 584.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1015.7 PSI Initial Opening 20 Final Flow 20

(H) Final Hydrostatic Mud 1995.4 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	2008	2013.6
(B) FIRST INITIAL FLOW PRESSURE	131	125.9
(C) FIRST FINAL FLOW PRESSURE	344	346.9
(D) INITIAL CLOSED-IN PRESSURE	993	1015.7
(E) SECOND INITIAL FLOW PRESSURE	394	397.9
(F) SECOND FINAL FLOW PRESSURE	577	584.6
(G) FINAL CLOSED-IN PRESSURE	993	1015.7
(H) FINAL HYDROSTATIC MUD	1987	1995.4

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Drill-Stem Test Data

Well Name HARRISON #2 Test No. 4 Date 6/15/94
Company NATIONAL OIL Zone LKC 'K'
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 4137-4162 Drill Pipe Size 4.5" XH
Anchor Length 25 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4132 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4137 Mud Wt. 9.2 lb/Gal.
Total Depth 4162 Viscosity 55 Filtrate 8.0

Tool Open @ 2:13PM Initial Blow WEAK SURFACE BLOW BUILT TO 1" IN 30 MINUTES

Final Blow WEAK SURFACE BLOW IN 5 MINUTES - FLUSHED TOOL -
WEAK SURFACE BLOW IN 5 MINUTES / OUT OF HOLE

Recovery - Total Feet 35 Flush Tool? NO

Rec. 25 Feet of GAS IN PIPE
Rec. 35 Feet of SLIGHTLY OIL STAINED MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2019.5 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 35.1 PSI @ (depth) 4139 w / Clock No. 25828

(C) First Final Flow Pressure 35.1 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1061.8 PSI @ (depth) 4157 w / Clock No. 26199

(E) Second Initial Flow Pressure 35.1 PSI AK1 Recorder No. _____ Range _____

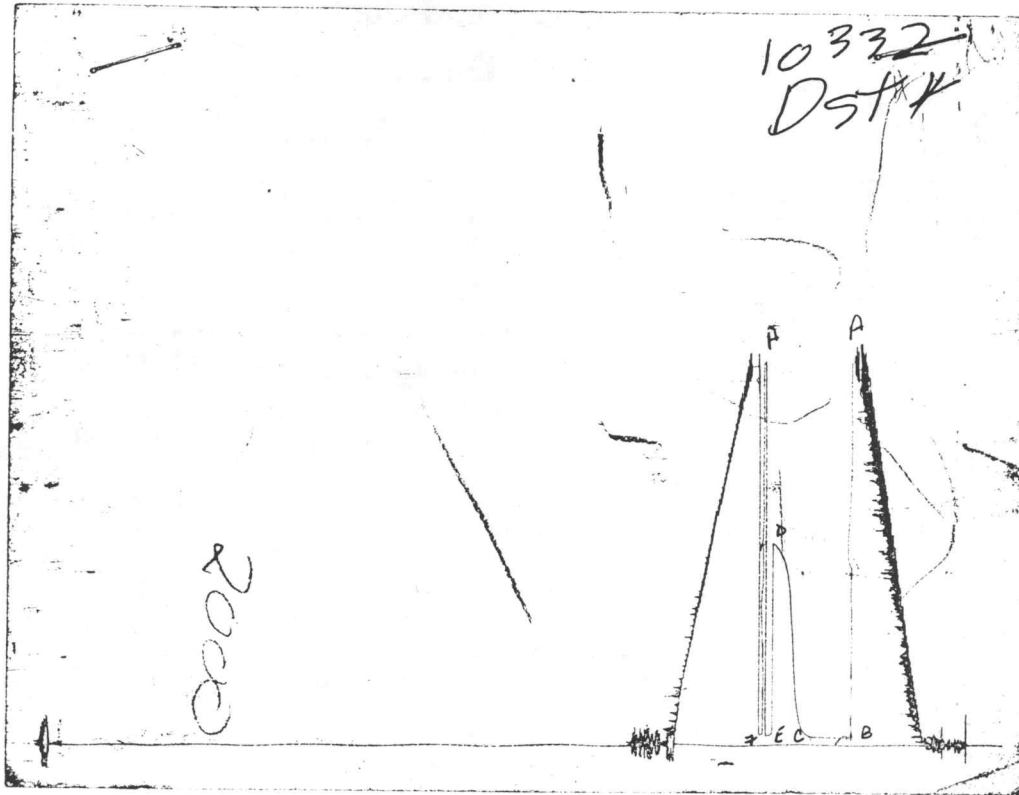
(F) Second Final Flow Pressure 45.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 10

(H) Final Hydrostatic Mud 2001.9 PSI Initial Shut-in 30 Final Shut-in _____

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2028	2019.5
(B) FIRST INITIAL FLOW PRESSURE	40	35.1
(C) FIRST FINAL FLOW PRESSURE	40	35.1
(D) INITIAL CLOSED-IN PRESSURE	1064	1061.8
(E) SECOND INITIAL FLOW PRESSURE	40	35.1
(F) SECOND FINAL FLOW PRESSURE	50	45.6
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2008	2001.9

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Drill-Stem Test Data

Well Name HARRISON #2 Test No. 5 Date 6/16/J94
Company NATIONAL OIL Zone FT SCOTT
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 4316-4415 Drill Pipe Size 4.5" XH
Anchor Length 99 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4311 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4316 Mud Wt. 9.5 lb/Gal.
Total Depth 4415 Viscosity 60 Filtrate 10

Tool Open @ 4:12PM Initial Blow WEAK SURFACE BLOW BUILT TO 3" IN 30 MINUTES

Final Blow WEAK SURFACE BLOW BUILT TO 4 1/2" IN 45 MINUTES
NO BLOW ON SHUTIN

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE
Rec. 30 Feet of SLIGHTLY OILY MUD 5%OIL/95/5MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2131.9 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 46.3 PSI @ (depth) 4320 w / Clock No. 25828

(C) First Final Flow Pressure 46.3 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 112.8 PSI @ (depth) 4345 w / Clock No. 26199

(E) Second Initial Flow Pressure 46.3 PSI AK1 Recorder No. _____ Range _____

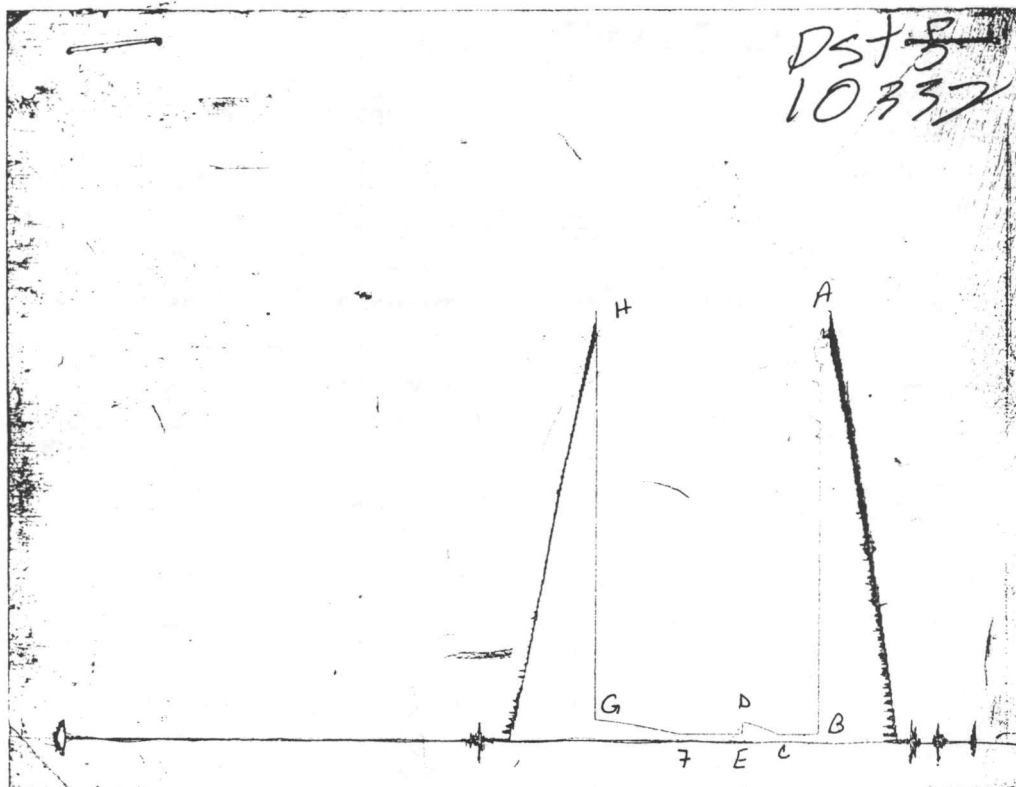
(F) Second Final Flow Pressure 46.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 121.9 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2116.3 PSI Initial Shut-in 30 Final Shut-in 60

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2128	2131.9
(B) FIRST INITIAL FLOW PRESSURE	40	46.3
(C) FIRST FINAL FLOW PRESSURE	40	46.3
(D) INITIAL CLOSED-IN PRESSURE	101	112.8
(E) SECOND INITIAL FLOW PRESSURE	40	46.3
(F) SECOND FINAL FLOW PRESSURE	40	46.3
(G) FINAL CLOSED-IN PRESSURE	111	121.9
(H) FINAL HYDROSTATIC MUD	2108	2116.3

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Drill-Stem Test Data

Well Name HARRISON #2 Test No. 6 Date 6/17/94
Company NATIONAL OIL Zone MISSISSIPPIA
Address BOX 399 GARDEN CITY KS Elevation 2863 KB
Co. Rep./Geo. SCOTT CORSAIR Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 16 Twp. 13S Rge. 30W Co. GOVE State KS

Interval Tested 4412-4503 Drill Pipe Size 4.5" XH
Anchor Length 91 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4407 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4412 Mud Wt. 9.3 lb/Gal.
Total Depth 4503 Viscosity 53 Filtrate 6.4

Tool Open @ 11:00AM Initial Blow 1/4" TO 3" BLOW IN 5 MINUTES - BLOW INCREASED TO
BOTTOM OF BUCKET - BEGAN LOSING MUD IN HOLE - OUT OF HOLE W/TOOL

Final Blow _____

Recovery - Total Feet 280 Flush Tool? NO

Rec. 280 Feet of MUD
Rec. _____ Feet of OIL SPECKS IN TOOL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2234.9 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 59.1 PSI @ (depth) 4443 w / Clock No. 25828

(C) First Final Flow Pressure 163.8 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure _____ PSI @ (depth) 4435 w / Clock No. 26199

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

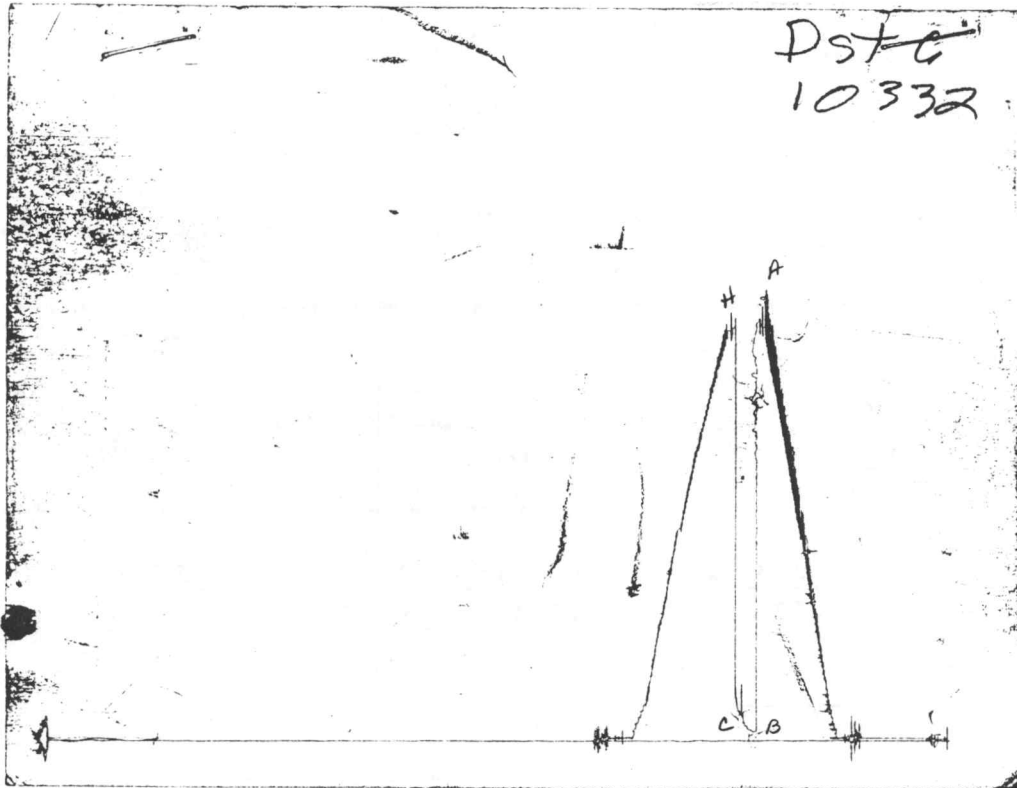
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 15 Final Flow _____

(H) Final Hydrostatic Mud 2185.9 PSI Initial Shut-in _____ Final Shut-in _____

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2228	2234.9
(B) FIRST INITIAL FLOW PRESSURE	50	59.1
(C) FIRST FINAL FLOW PRESSURE	151	163.8
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2178	2185.9