

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Computer Inventories Drill-Stem Test Data

Well Name J.R. EWING #4 Test No. 1 Date 7/18/94
Company VIKING RESOURCES INC Zone KC 140
Address 105 S BROADWAY #1040 WICHITA KS 67202-4224 Elevation 2613 K KB
Co. Rep./Geo. S.A. OATSDEAN Cont. ALA RIG 8 Est. Ft. of Pay _____
Location: Sec. 8 Twp. 16S Rge. 27W Co. LANE State KS

Interval Tested 4028-4050 Drill Pipe Size 4.5" XH
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run 640
Top Packer Depth 4023 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4028 Mud Wt. 9.0 lb/Gal.
Total Depth 4050 Viscosity _____ Filtrate 8.0

Tool Open @ 12:56 A.M. Initial Blow GOOD BLOW OFF BOTTOM IN 13 MIN

Final Blow GOOD BLOW OFF BOTTOM IN 17 MIN- 2" BLOW ON SHUT-IN

Recovery - Total Feet 580 Flush Tool? NO

Rec. 252 Feet of GAS IN PIPE
Rec. 90 Feet of CLEAN GASSY OIL 15% GAS/85% OIL
Rec. 30 Feet of GASSY OIL WATERY MUD2%GAS/1% OIL/20% WATER/77% OIL
Rec. 460 Feet of SALT WATER 100% WATER
Rec. _____ Feet of _____

BHT 108 °F Gravity 41 °API @ 80 °F Corrected Gravity 39 °API
RW 0.1 @ 75 °F Chlorides 40000 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2067.8 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 65.0 PSI @ (depth) 4030 w / Clock No. 21048

(C) First Final Flow Pressure 167.0 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 571.4 PSI @ (depth) 4045 w / Clock No. 25108

(E) Second Initial Flow Pressure 190.5 PSI AK1 Recorder No. _____ Range _____

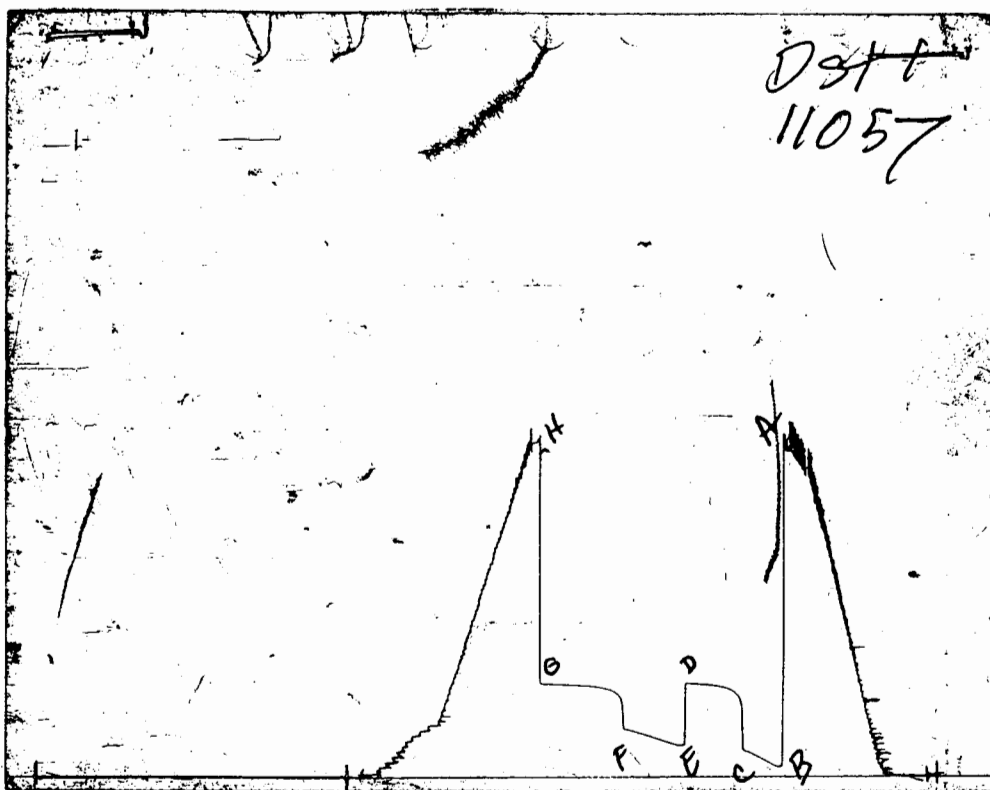
(F) Second Final Flow Pressure 295.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 573.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1995.6 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11057

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2008 | 2067.8 |
| (B) FIRST INITIAL FLOW PRESSURE | 55 | 65 |
| (C) FIRST FINAL FLOW PRESSURE | 133 | 167 |
| (D) INITIAL CLOSED-IN PRESSURE | 533 | 571.4 |
| (E) SECOND INITIAL FLOW PRESSURE | 166 | 190.5 |
| (F) SECOND FINAL FLOW PRESSURE | 266 | 295.9 |
| (G) FINAL CLOSED-IN PRESSURE | 533 | 573.6 |
| (H) FINAL HYDROSTATIC MUD | 1963 | 1995.6 |

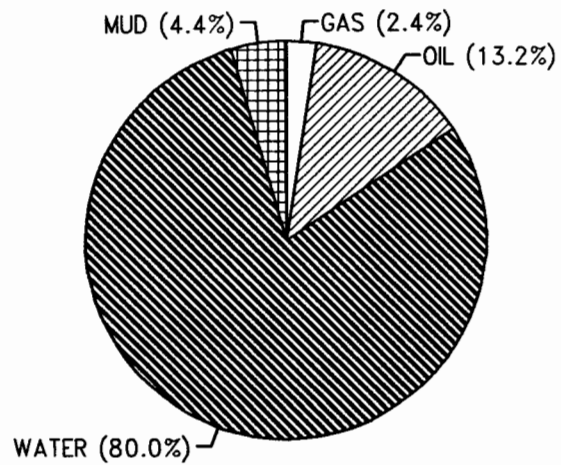
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET # 7039

| SAMPLE # | TOTAL FEET | GAS | | OIL | | WATER | | MUD | |
|--------------|------------|-----|-------------|-----|-------------|-------|------------|-----|-------------|
| | | % | FEET | % | FEET | % | FEET | % | FEET |
| DRILL 1 | | | 0 | | 0 | 0 | 0 | 0 | 0 |
| PIPE 2 | | | 0 | | 0 | | 0 | | 0 |
| 3 | | | 0 | | 0 | | 0 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| 5 | | | 0 | | 0 | | 0 | | 0 |
| 6 | | | 0 | | 0 | | 0 | | 0 |
| WEIGHT 1 | 90 | 15 | 13.5 | 85 | 76.5 | | 0 | | 0 |
| PIPE 2 | 30 | 2 | 0.6 | 1 | 0.3 | 20 | 6 | 77 | 23.1 |
| 3 | 460 | | 0 | | 0 | 100 | 460 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| DRILL 1 | | | 0 | | 0 | 0 | 0 | | 0 |
| COLLAR 2 | | | 0 | | 0 | 0 | 0 | | 0 |
| 3 | | | 0 | | 0 | | 0 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| 5 | | | 0 | | 0 | | 0 | | 0 |
| TOTAL | 580 | | 14.1 | | 76.8 | | 466 | | 23.1 |

| | | HRS OPEN | BBL/DAY |
|------------|----------|----------|----------|
| BBL OIL= | 0.5376 * | 1.25 | 10.32192 |
| BBL WATER= | 3.262 * | | 62.6304 |
| BBL MUD= | 0.18018 | | |
| BBL GAS = | 0.0987 | | |



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TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name J.R. EWING #4 Test No. 2 Date 7/19/94
Company VIKING RESOURCES INC Zone KC 160-180
Address 105 S BROADWAY #1040 WICHITA KS 67202-4224 Elevation 2613 K KB
Co. Rep./Geo. S.A. OATSDEAN Cont. ALA RIG 8 Est. Ft. of Pay 5
Location: Sec. 8 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested 4050-4110 Drill Pipe Size 4.5" XH
Anchor Length 60 Wt. Pipe I.D. - 2.7 Ft. Run 640
Top Packer Depth 4045 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4050 Mud Wt. 9.1 lb/Gal.
Total Depth 4110 Viscosity 46 Filtrate 8.8

Tool Open @ 4:35 P.M. Initial Blow WEAK SURFACE 1 3/4 IN 30 MIN

Final Blow NO BLOW 10 MIN WEAK SURFACE TO 1" IN 35 MIN

Recovery - Total Feet 96 Flush Tool? NO

Rec. 32 Feet of GAS IN PIPE
Rec. 96 Feet of SLIGHT OIL SALT WATER MUD 10% WATER/ 90% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.25 @ 80 °F Chlorides 28000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2076.9 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 78.4 PSI @ (depth) 4052 w / Clock No. 21048

(C) First Final Flow Pressure 84.0 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1145.7 PSI @ (depth) 4105 w / Clock No. 25108

(E) Second Initial Flow Pressure 67.2 PSI AK1 Recorder No. _____ Range _____

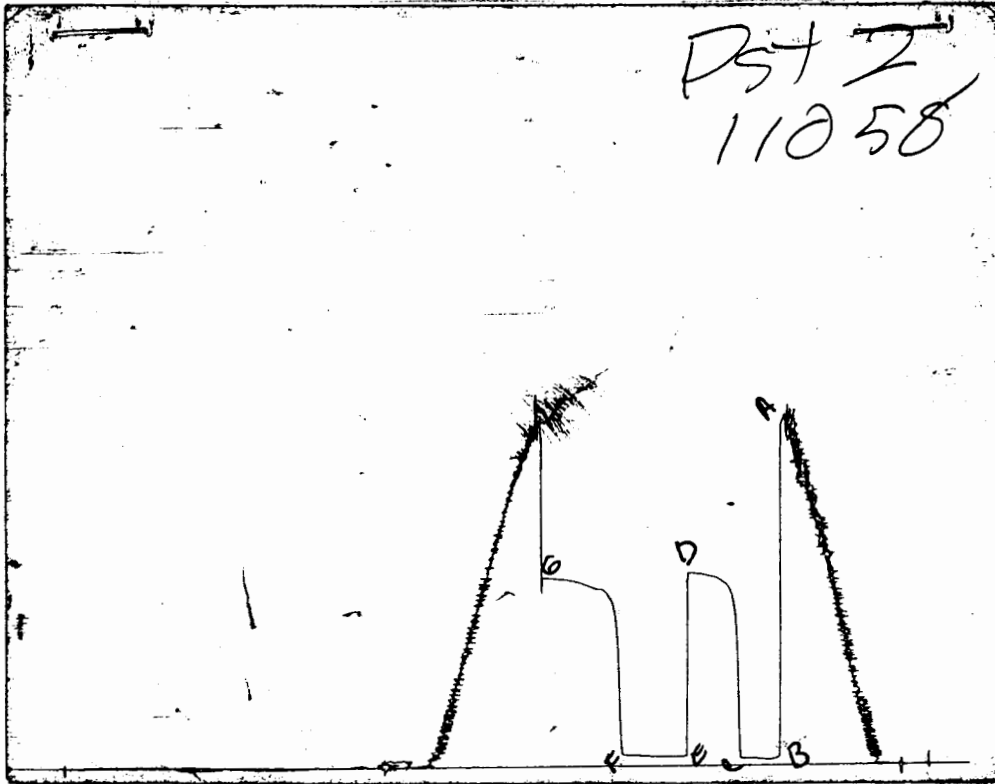
(F) Second Final Flow Pressure 98.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1112.1 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2066.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart 11058

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2053 | 2076.9 |
| (B) FIRST INITIAL FLOW PRESSURE | 33 | 78.4 |
| (C) FIRST FINAL FLOW PRESSURE | 44 | 84 |
| (D) INITIAL CLOSED-IN PRESSURE | 1120 | 1145.7 |
| (E) SECOND INITIAL FLOW PRESSURE | 44 | 67.2 |
| (F) SECOND FINAL FLOW PRESSURE | 55 | 98.6 |
| (G) FINAL CLOSED-IN PRESSURE | 1097 | 1112.1 |
| (H) FINAL HYDROSTATIC MUD | 2020 | 2066.7 |

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Drill-Stem Test Data

Well Name J.R. EWING #4 Test No. 3 Date 7/20/94
Company VIKING RESOURCES INC Zone KC 200
Address 105 S BROADWAY #1040 WICHITA KS 67202-4224 Elevation 2613 K KB
Co. Rep./Geo. S.A. OATSDEAN Cont. ALA RIG 8 Est. Ft. of Pay 6
Location: Sec. 8 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested 4110-4140 Drill Pipe Size 4.5" XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run 640
Top Packer Depth 4105 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4110 Mud Wt. 9.2LCM lb/Gal.
Total Depth 4140 Viscosity 54 Filtrate 8.8

Tool Open @ 6:13 A.M. Initial Blow GOOD BLOW OFF BOTTOM IN 2 MIN 30 SEC-BLOW OFF
BOTTOM IN 10 MIN ON SHUT-IN
Final Blow GOOD BLOW OFF BOTTOM IN 8 MIN- BLOW OFF BOTTOM IN 8 MIN
ON SHUT-IN

Recovery - Total Feet 775 Flush Tool? NO

Rec. 2355 Feet of GAS IN PIPE
Rec. 558 Feet of CUT GAS OIL 40% GAS/60% OIL
Rec. 155 Feet of GASSY OIL CUT MUD 10% GAS/25% OIL/65% MUD
Rec. 62 Feet of GASSY OIL CUT WATER MUD 25% GAS/10% OIL/10% WATER?55%M
Rec. _____ Feet of _____

BHT 112 °F Gravity 42 °API @ 75 °F Corrected Gravity 40.5 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2126.6 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 63.3 PSI @ (depth) 4112 w / Clock No. 21048

(C) First Final Flow Pressure 164.4 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 968.1 PSI @ (depth) 4135 w / Clock No. 25108

(E) Second Initial Flow Pressure 201.1 PSI AK1 Recorder No. _____ Range _____

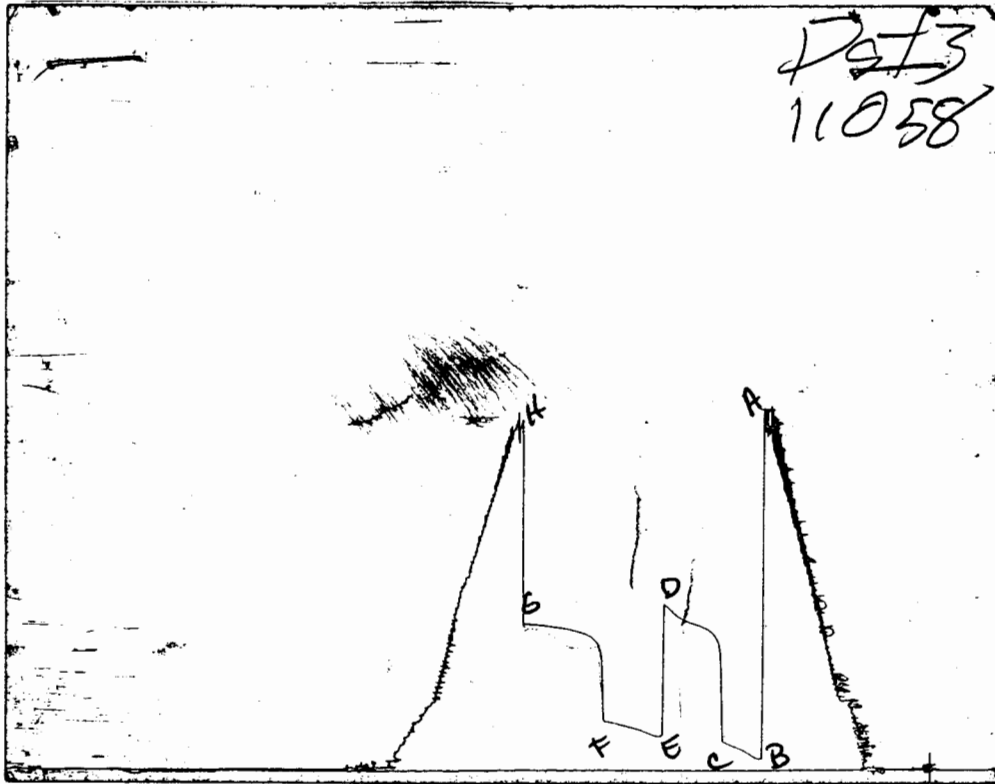
(F) Second Final Flow Pressure 291.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 864.2 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2066.1 PSI Initial Shut-in 45 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart 11058

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2095 | 2126.6 |
| (B) FIRST INITIAL FLOW PRESSURE | 56 | 63.3 |
| (C) FIRST FINAL FLOW PRESSURE | 156 | 164.4 |
| (D) INITIAL CLOSED-IN PRESSURE | 962 | 968.1 |
| (E) SECOND INITIAL FLOW PRESSURE | 179 | 201.1 |
| (F) SECOND FINAL FLOW PRESSURE | 280 | 291.1 |
| (G) FINAL CLOSED-IN PRESSURE | 850 | 864.2 |
| (H) FINAL HYDROSTATIC MUD | 2061 | 2066.1 |

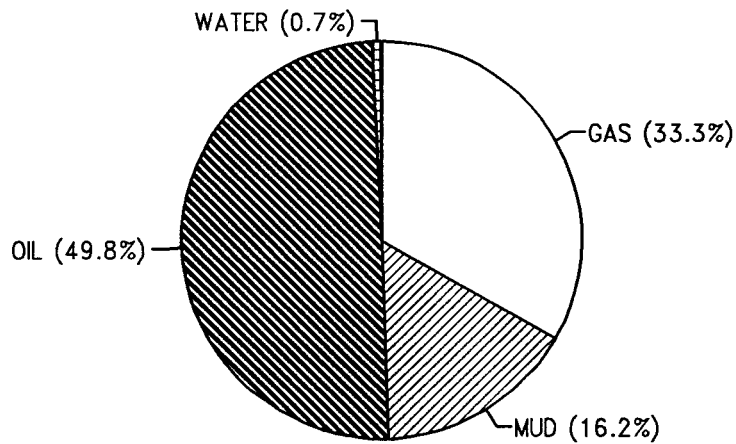
CALCULATED RECOVERY ANALYSIS

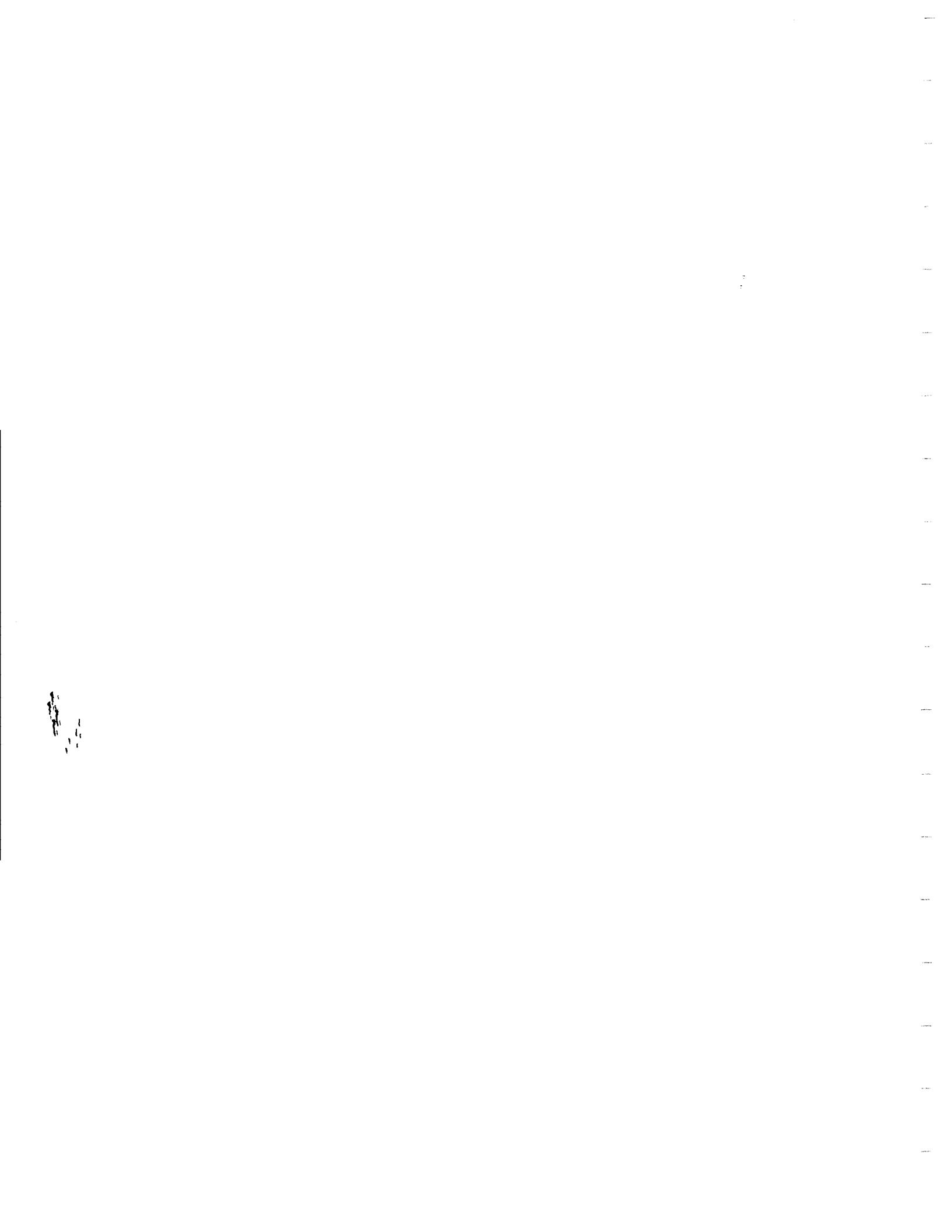
DST 3 TICKET # 6867

| SAMPLE # | TOTAL FEET | GAS | | OIL | | WATER | | MUD | |
|----------|------------|-----|-------|-----|--------|-------|------|-----|--------|
| | | % | FEET | % | FEET | % | FEET | % | FEET |
| DRILL 1 | | | 0 | | 0 | 0 | 0 | 0 | 0 |
| PIPE 2 | 135 | 40 | 54 | 60 | 81 | | 0 | | 0 |
| 3 | | | 0 | | 0 | | 0 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| 5 | | | 0 | | 0 | | 0 | | 0 |
| 6 | | | 0 | | 0 | | 0 | | 0 |
| WEIGHT 1 | 423 | 40 | 169.2 | 60 | 253.8 | | 0 | | 0 |
| PIPE 2 | 155 | 10 | 15.5 | 25 | 38.75 | | 0 | 65 | 100.75 |
| 3 | 62 | 25 | 15.5 | 10 | 6.2 | 10 | 6.2 | 55 | 34.1 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| DRILL 1 | | | 0 | | 0 | 0 | 0 | | 0 |
| COLLAR 2 | | | 0 | | 0 | 0 | 0 | | 0 |
| 3 | | | 0 | | 0 | | 0 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| 5 | | | 0 | | 0 | | 0 | | 0 |
| TOTAL | 775 | | 254.2 | | 379.75 | | 6.2 | | 134.85 |

HRS OPEN BBL/DAY

BBL OIL= 3.24307 * 1.25 62.266944
 BBL WATER= 0.0434 * 0.83328
 BBL MUD= 1.05183
 BBL GAS = 2.16928





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Drill-Stem Test Data

Well Name J.R. EWING #4 Test No. 4 Date 7/21/94
Company VIKING RESOURCES INC Zone UP MARMATON
Address 105 S BROADWAY #1040 WICHITA KS 67202-4224 Elevation 2613 K KB
Co. Rep./Geo. S.A. OATSDEAN Cont. ALA RIG 8 Est. Ft. of Pay _____
Location: Sec. 8 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested 4210-4290 Drill Pipe Size 4.5" XH
Anchor Length 80 Wt. Pipe I.D. - 2.7 Ft. Run 576
Top Packer Depth 4205 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4210 Mud Wt. _____ 9 lb/Gal.
Total Depth 4290 Viscosity 48 Filtrate 9.2

Tool Open @ 3:56 A.M. Initial Blow GOOD BLOW OFF BOTTOM IN 7 MIN-NO BLOW
ON FIRST SHUT-IN
Final Blow GOOD BLOW OFF BOTTOM IN 13 MIN

Recovery - Total Feet 868 Flush Tool? NO

Rec. 310 Feet of SLIGHTLY MUDDY WATER 95% WATER/5% MUD
Rec. 558 Feet of SLIGHT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ 80 °F Chlorides 37000 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2107.4 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 39.2 PSI @ (depth) 4212 w / Clock No. 21048

(C) First Final Flow Pressure 285.8 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 1017.9 PSI @ (depth) 4285 w / Clock No. 25108

(E) Second Initial Flow Pressure 322.8 PSI AK1 Recorder No. _____ Range _____

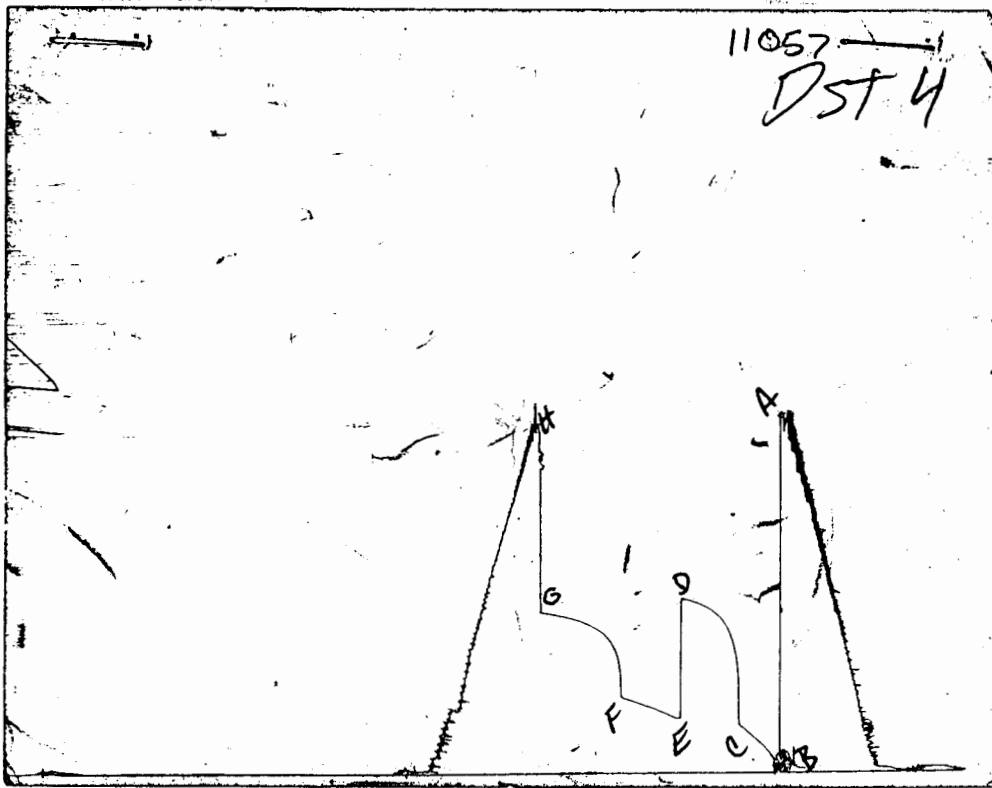
(F) Second Final Flow Pressure 441.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 943.1 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2039.5 PSI Initial Shut-in 45 Final Shut-in 60

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CHART PAGE



| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2098 | 2107.4 |
| (B) FIRST INITIAL FLOW PRESSURE | 55 | 39.2 |
| (C) FIRST FINAL FLOW PRESSURE | 266 | 285.8 |
| (D) INITIAL CLOSED-IN PRESSURE | 1020 | 1017.9 |
| (E) SECOND INITIAL FLOW PRESSURE | 300 | 322.8 |
| (F) SECOND FINAL FLOW PRESSURE | 433 | 441.7 |
| (G) FINAL CLOSED-IN PRESSURE | 941 | 943.1 |
| (H) FINAL HYDROSTATIC MUD | 2053 | 2039.5 |

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name J.R. EWING #4 Test No. 5 Date 7/21/94
Company VIKING RESOURCES INC Zone FT SCOTT
Address 105 S BROADWAY #1040 WICHITA KS 67202-4224 Elevation 2613 K KB
Co. Rep./Geo. S.A. OATSDEAN Cont. ALA RIG 8 Est. Ft. of Pay _____
Location: Sec. 8 Twp. 16S Rge. 28W Co. LANE State KS

Interval Tested 4360-4400 Drill Pipe Size 4.5" XH
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run 640
Top Packer Depth 4355 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4360 Mud Wt. 9 lb/Gal.
Total Depth 4400 Viscosity 46 Filtrate 8

Tool Open @ 10:00 P.M. ^{Initial} Blow WEAK SURFACE TO 2" IN 30 MIN

Final Blow WEAK SURFACE TO 3" IN 45 MIN-NO BLOW ON SHUT-IN

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE
Rec. 30 Feet of GASSY OIL IN MUD 5% GAS/10% OIL/85% MUD
Rec. _____ Feet of GAS OIL IN TOOL
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2265.6 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 47.7 PSI @ (depth) 4362 w / Clock No. 21048

(C) First Final Flow Pressure 64.4 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 118.8 PSI @ (depth) 4395 w / Clock No. 25108

(E) Second Initial Flow Pressure 51.1 PSI AK1 Recorder No. _____ Range _____

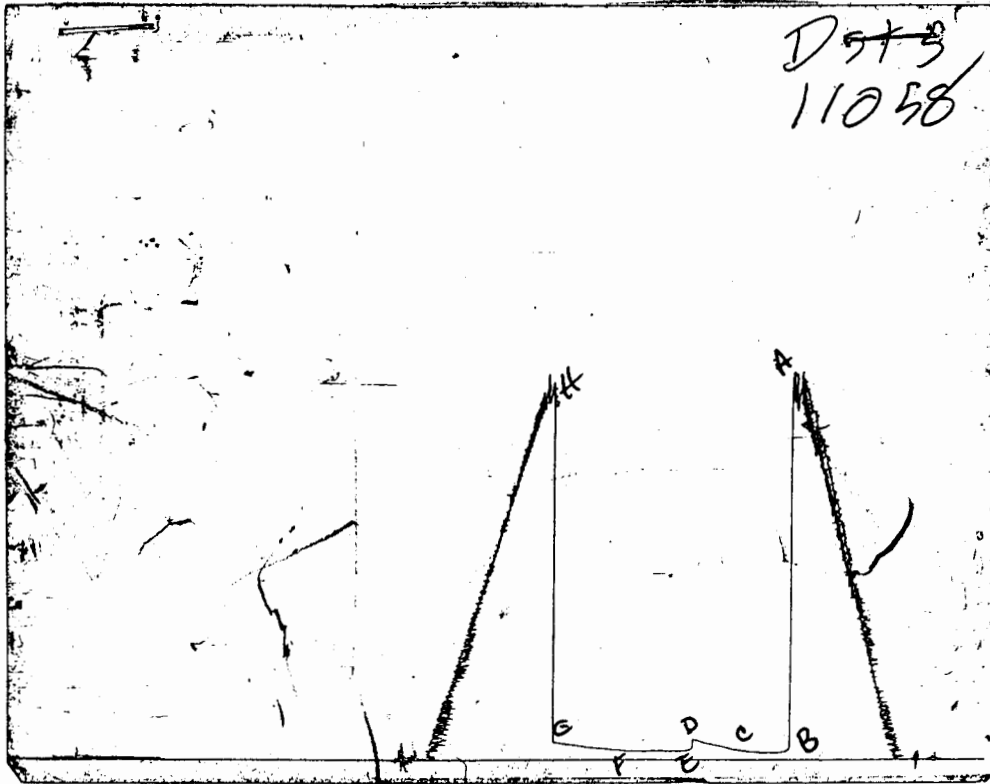
(F) Second Final Flow Pressure 53.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 105.5 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2215.2 PSI Initial Shut-in 45 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart 11058

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2174 | 2265.6 |
| (B) FIRST INITIAL FLOW PRESSURE | 22 | 47.7 |
| (C) FIRST FINAL FLOW PRESSURE | 33 | 64.4 |
| (D) INITIAL CLOSED-IN PRESSURE | 100 | 118.8 |
| (E) SECOND INITIAL FLOW PRESSURE | 44 | 51.1 |
| (F) SECOND FINAL FLOW PRESSURE | 56 | 53.3 |
| (G) FINAL CLOSED-IN PRESSURE | 89 | 105.5 |
| (H) FINAL HYDROSTATIC MUD | 2128 | 2215.2 |