

Computer Inventories

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #1-13 BROOKS-JOHNSON Test No. 1 Date 3/24/93
Company GRIGGS OIL INC Zone MISSISSIPPI
Address 107 N MARKET WICHITA KS 67202 Elevation 1661
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #2 Est. Ft. of Pay _____
Location: Sec. 13 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested <u>3788-3832</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>44</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3783</u>	Drill Collar - 2.25 Ft. Run <u>423</u>
Bottom Packer Depth <u>3788</u>	Mud Wt. <u>8.5</u> lb/Gal.
Total Depth <u>3832</u>	Viscosity <u>60</u> Filtrate <u>6.4</u>

Tool Open @ 8:32 AM Initial Blow STRONG-BOTTOM OF BUCKET IN 30 SECONDS/GAS TO SURFACE
IN 9 MINUTES-GAUGED-GAS SAMPLES TAKEN
Final Blow STRONG-BOTTOM OF BUCKET IN 30 SECONDS

Recovery - Total Feet 260 Flush Tool? NO

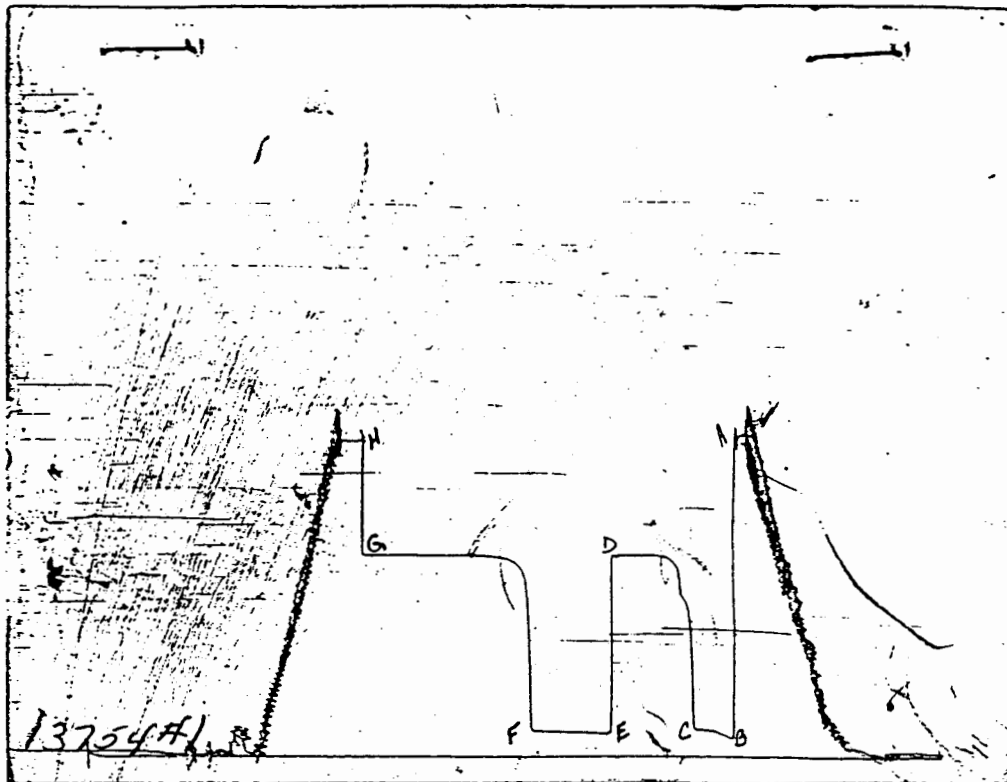
Rec. <u>260</u>	Feet of <u>GASSY MUD-30%GAS/70%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud <u>1789.3</u> PSI	AK1 Recorder No. <u>13754</u> Range <u>4000</u>
(B) First Initial Flow Pressure <u>88.5</u> PSI	@ (depth) <u>3792</u> w / Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>137.7</u> PSI	AK1 Recorder No. <u>7437</u> Range <u>4200</u>
(D) Initial Shut-in Pressure <u>1028.0</u> PSI	@ (depth) <u>3827</u> w / Clock No. <u>8376</u>
(E) Second Initial Flow Pressure <u>112.2</u> PSI	AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure <u>124.0</u> PSI	@ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure <u>1024.0</u> PSI	Initial Opening <u>30</u> Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>1633.9</u> PSI	Initial Shut-in <u>60</u> Final Shut-in <u>120</u>

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1786	1789.3
(B) FIRST INITIAL FLOW PRESSURE	98	88.5
(C) FIRST FINAL FLOW PRESSURE	137	137.7
(D) INITIAL CLOSED-IN PRESSURE	1016	1028
(E) SECOND INITIAL FLOW PRESSURE	118	112.2
(F) SECOND FINAL FLOW PRESSURE	127	
(G) FINAL CLOSED-IN PRESSURE	1026	1024
(H) FINAL HYDROSTATIC MUD	1626	1633.9

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Drill-Stem Test Data

Well Name #1-13 BROOKS-JOHNSON Test No. 2 Date 3/25/93
Company GRIGGS OIL INC Zone MISSISSIPPI
Address 107 N MARKET WICHITA KS 67202 Elevation 1661
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #2 Est. Ft. of Pay 12
Location: Sec. 13 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested <u>3836-3848</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>12</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u> </u>
Top Packer Depth <u>0</u>	Drill Collar - 2.25 Ft. Run <u>423</u>
Bottom Packer Depth <u>3836</u>	Mud Wt. <u>8.8</u> lb/Gal.
Total Depth <u>3848</u>	Viscosity <u>61</u> Filtrate <u>6.4</u>

Tool Open @ 2:45 AM Initial Blow STRONG-BOTTOM OF BUCKET IN 30 SECONDS/GAS TO SURFACE
IN 4 MINUTES-GAUGED-GAS SAMPLE TAKEN

Final Blow STRONG-BOTTOM OF BUCKET AS SOON AS TOOL WAS OPENED

Recovery - Total Feet 210 Flush Tool? NO

Rec. <u>30</u>	Feet of <u>SLTLY OIL CUT GSY MUD-10%GAS/3%OIL/87%MUD</u>
Rec. <u>60</u>	Feet of <u>OIL CUT GSY MUD-10%GAS/20%OIL/70%MUD</u>
Rec. <u>60</u>	Feet of <u>OIL CUT GSY MUD-10%GAS/30%OIL/60%MUD</u>
Rec. <u>60</u>	Feet of <u>OIL CUT GSY MUDDY WTR-10%GAS/30%OIL/40%WTR/20%MUD</u>
Rec. <u> </u>	Feet of <u> </u>

BHT 110 °F Gravity °API @ °F Corrected Gravity 32 °API
RW 0.32 @ 80 °F Chlorides 30000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1691.2 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 138.7 PSI @ (depth) 3840 w / Clock No. 27501

(C) First Final Flow Pressure 204.7 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1123.9 PSI @ (depth) 3845 w / Clock No. 8376

(E) Second Initial Flow Pressure 163.3 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 244.0 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1128.9 PSI Initial Opening 30 Final Flow

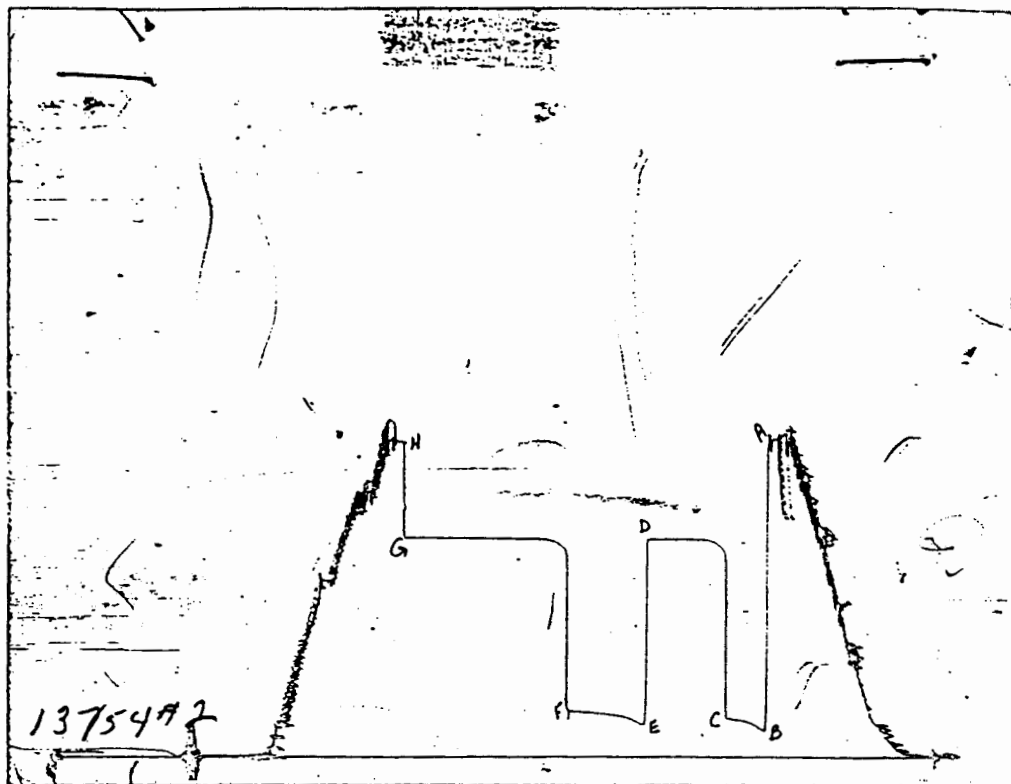
(H) Final Hydrostatic Mud 1633.9 PSI Initial Shut-in 60 Final Shut-in 120

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1686	1691.2
(B) FIRST INITIAL FLOW PRESSURE	137	138.7
(C) FIRST FINAL FLOW PRESSURE	196	204.7
(D) INITIAL CLOSED-IN PRESSURE	1116	1123.9
(E) SECOND INITIAL FLOW PRESSURE	157	163.3
(F) SECOND FINAL FLOW PRESSURE	226	244
(G) FINAL CLOSED-IN PRESSURE	1116	1128.9
(H) FINAL HYDROSTATIC MUD	1626	1633.9

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Drill-Stem Test Data

Well Name #1-13 BROOKS-JOHNSON Test No. 3 Date 3/25/93
Company GRIGGS OIL INC Zone MISSISSIPPI
Address 107 N MARKET WICHITA KS 67202 Elevation 1661
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #2 Est. Ft. of Pay 12
Location: Sec. 13 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3848-3860 Drill Pipe Size 4.5" XH
Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run
Top Packer Depth 0 Drill Collar - 2.25 Ft. Run 423
Bottom Packer Depth 3848 Mud Wt. 8.7 lb/Gal.
Total Depth 3860 Viscosity 68 Filtrate 6.8

Tool Open @ 6:30 PM Initial Blow STRONG-BOTTOM OF BUCKET IN 30 SECONDS
GAS TO SURFACE IN 5 MIN-GAUGED-GAS SAMPLE TAKEN
Final Blow STRONG-BOTTOM OF BUCKET AS SOON AS TOOL OPENED
FINE MIST OF MUD TO SURFACE IN 10 MINUTES

Recovery - Total Feet 784 Flush Tool? NO

Rec. 164 Feet of CLEAN GASSY OIL- 40% GAS / 60% OIL
Rec. 620 Feet of WATER
Rec. Feet of
Rec. Feet of
Rec. Feet of

BHT 113 °F Gravity 39 °API @ 70 °F Corrected Gravity 40 °API
RW 0.057 @ 78 °F Chlorides 92000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1880.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 290.3 PSI @ (depth) 3852 w / Clock No. 27501

(C) First Final Flow Pressure 375.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1183.9 PSI @ (depth) 3856 w / Clock No. 8376

(E) Second Initial Flow Pressure 386.8 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 469.4 PSI @ (depth) w / Clock No.

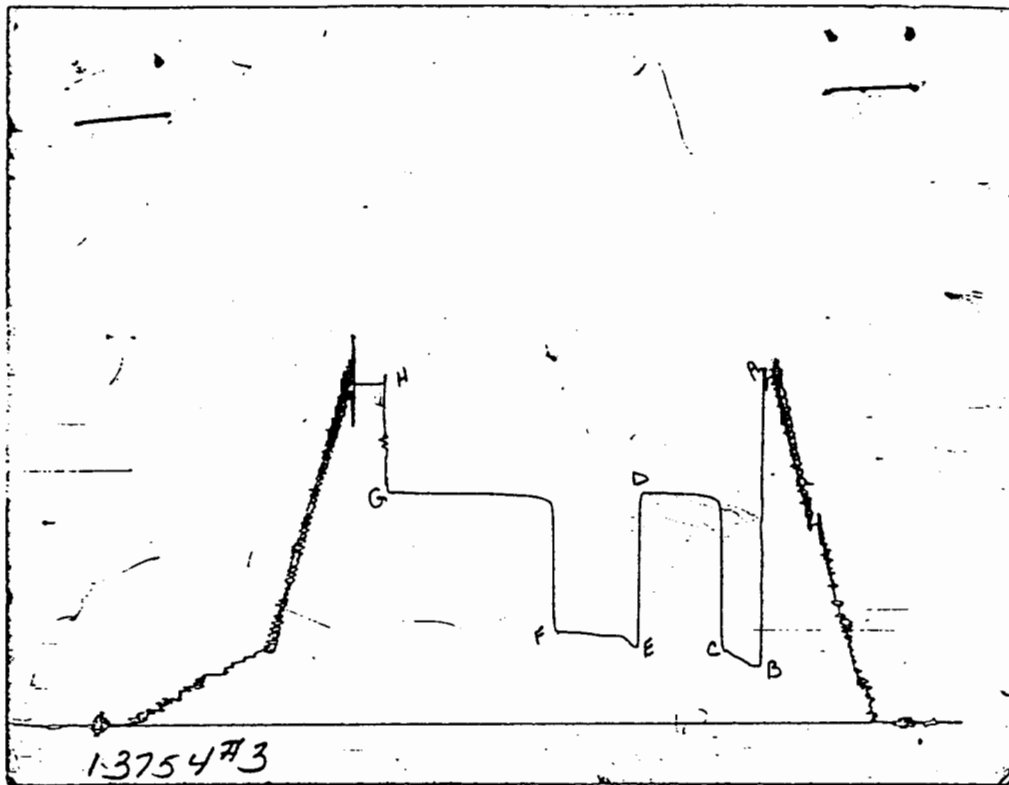
(G) Final Shut-in Pressure 1184.9 PSI Initial Opening 30 Final Flow 6000

(H) Final Hydrostatic Mud 1750.6 PSI Initial Shut-in 60 Final Shut-in 1120

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1876	1880.6
(B) FIRST INITIAL FLOW PRESSURE	295	290.3
(C) FIRST FINAL FLOW PRESSURE	374	375.9
(D) INITIAL CLOSED-IN PRESSURE	1176	1183.9
(E) SECOND INITIAL FLOW PRESSURE	383	386.8
(F) SECOND FINAL FLOW PRESSURE	462	469.4
(G) FINAL CLOSED-IN PRESSURE	1186	1184.9
(H) FINAL HYDROSTATIC MUD	1746	1750.6

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Drill-Stem Test Data

Well Name #1-13 BROOKS-JOHNSON Test No. 4 Date 3/25/93
Company GRIGGS OIL INC Zone MISSISSIPPI
Address 107 N MARKET WICHITA KS 67202 Elevation 1661
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #2 Est. Ft. of Pay _____
Location: Sec. 13 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested <u>3860-3872</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>12</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>0</u>	Drill Collar - 2.25 Ft. Run <u>423</u>
Bottom Packer Depth <u>3860</u>	Mud Wt. <u>8.6</u> lb/Gal.
Total Depth <u>3872</u>	Viscosity <u>74</u> Filtrate <u>7.6</u>

Tool Open @ 12:23 PM Initial Blow WEAK-BUILDING TO 2.5"

Final Blow WEAK-BUILDING TO 2"

Recovery - Total Feet 127 Flush Tool? NO

Rec. <u>37</u>	Feet of <u>OIL & WTR CUT MUD- 10% OIL/ 10% WTR/ 80% MUD</u>
Rec. <u>90</u>	Feet of <u>MUD CUT WATER-90% WTR / 10% MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.052 @ 76 °F Chlorides 89000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 2006.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 30.7 PSI @ (depth) 3864 w / Clock No. 27501

(C) First Final Flow Pressure 42.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 365.4 PSI @ (depth) 3868 w / Clock No. 8376

(E) Second Initial Flow Pressure 57.8 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 72.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 288.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1854.7 PSI Initial Shut-in 60 Final Shut-in 120

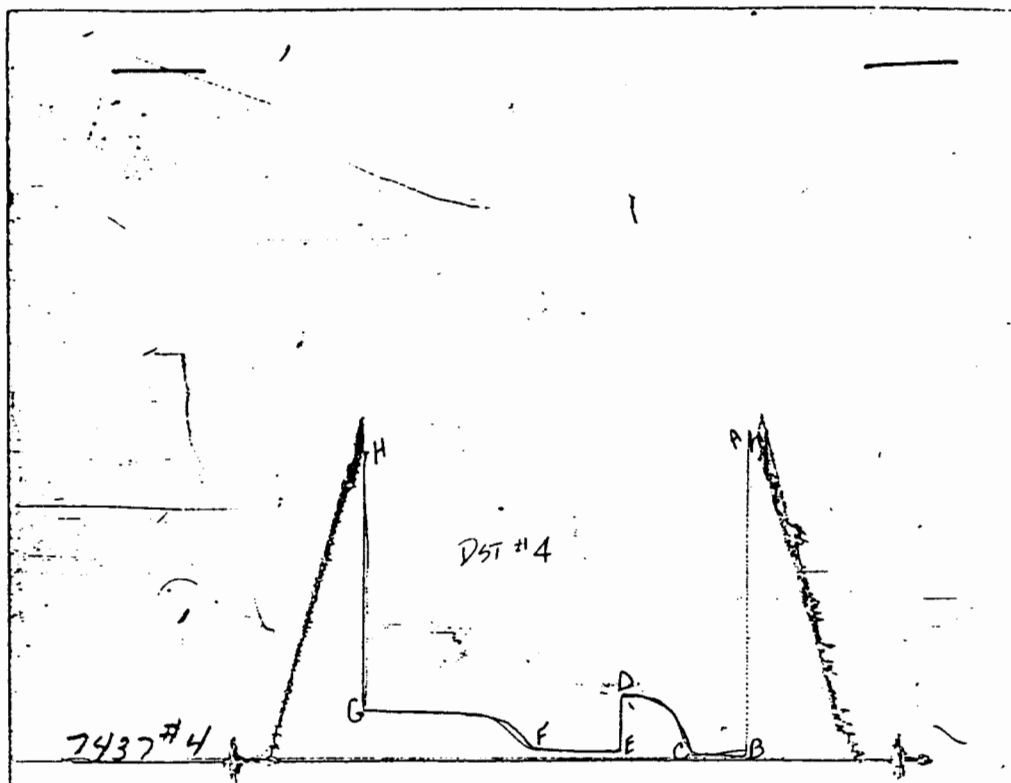
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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2000	2006.9
(B) FIRST INITIAL FLOW PRESSURE	33	30.7
(C) FIRST FINAL FLOW PRESSURE	44	42.9
(D) INITIAL CLOSED-IN PRESSURE	363	365.4
(E) SECOND INITIAL FLOW PRESSURE	55	57.8
(F) SECOND FINAL FLOW PRESSURE	66	72.3
(G) FINAL CLOSED-IN PRESSURE	286	288.9
(H) FINAL HYDROSTATIC MUD	1862	1854.7

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Drill-Stem Test Data

Well Name #1-13 BROOKS-JOHNSON Test No. 5 Date 3/26/93
Company GRIGGS OIL INC Zone MISSISSIPPI
Address 107 N MARKET WICHITA KS 67202 Elevation 1661
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING DRLG RIG #2 Est. Ft. of Pay _____
Location: Sec. 13 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3873-3894 Drill Pipe Size 4.5" XH
Anchor Length 21 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 0 Drill Collar - 2.25 Ft. Run 423
Bottom Packer Depth 3873 Mud Wt. 8.6 lb/Gal.
Total Depth 3894 Viscosity 74 Filtrate 7.6

Tool Open @ 5:00 AM Initial Blow WEAK-BUILDING TO 1/2"

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 120 Flush Tool? NO

Rec. 120 Feet of MUDDY WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.052 @ 79 °F Chlorides 90000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1822.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 42.9 PSI @ (depth) 3877 w / Clock No. 27501

(C) First Final Flow Pressure 42.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 447.8 PSI @ (depth) 3890 w / Clock No. 8376

(E) Second Initial Flow Pressure 88.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 88.5 PSI @ (depth) _____ w / Clock No. _____

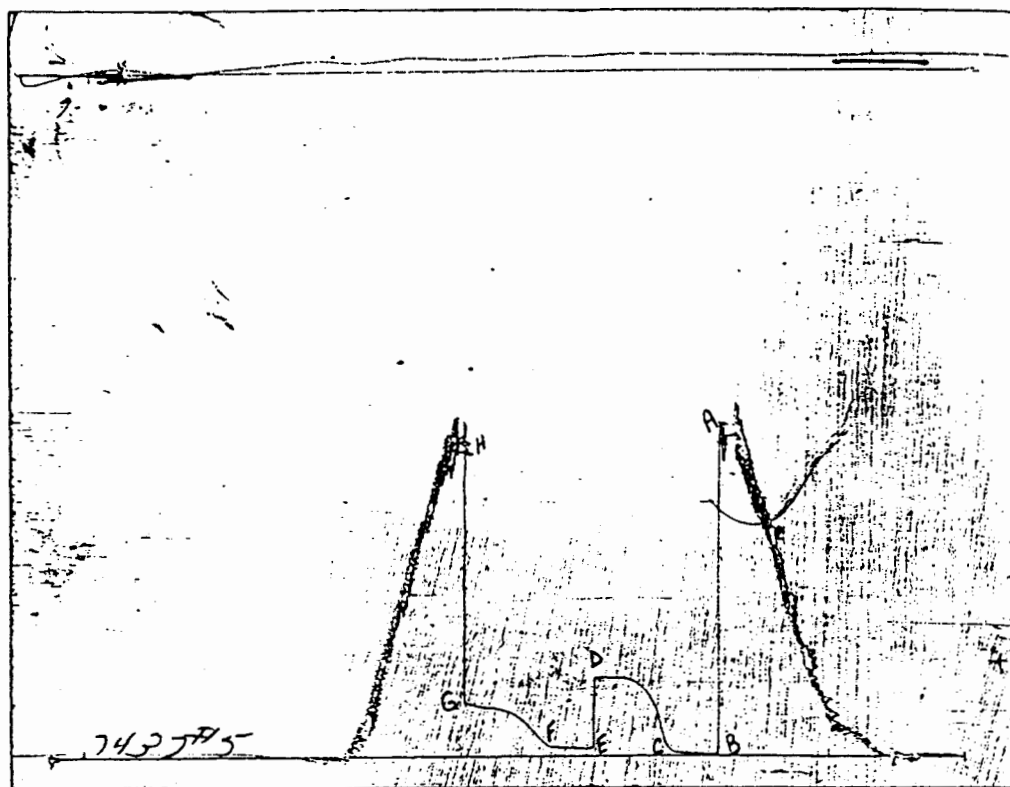
(G) Final Shut-in Pressure 304.6 PSI Initial Opening 30 Final Flow _____

(H) Final Hydrostatic Mud 1789.3 PSI Initial Shut-in 60 Final Shut-in _____

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1816	1822.6
(B) FIRST INITIAL FLOW PRESSURE	39	42.9
(C) FIRST FINAL FLOW PRESSURE	39	42.9
(D) INITIAL CLOSED-IN PRESSURE	442	447.8
(E) SECOND INITIAL FLOW PRESSURE	78	88.5
(F) SECOND FINAL FLOW PRESSURE	78	88.5
(G) FINAL CLOSED-IN PRESSURE	295	304.6
(H) FINAL HYDROSTATIC MUD	1786	1789.3

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