

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FLEMING #1 Test No. 1 Date 1/17/93
Company EDWIN C. SCHUETT & SHARP ENGINEERING Zone LKC-"A-F"
Address 1616 GLENARM PLACE DENVER CO 80202 Elevation 1995
Co. Rep./Geo. EDWIN C. SCHUETT Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 27 Twp. 8S Rge. 18W Co. ROOKS State KS

Interval Tested 3163-3265 Drill Pipe Size 4.5" XH
Anchor Length 102 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3158 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3163 Mud Wt. 8.8 lb/Gal.
Total Depth 3265 Viscosity 41 Filtrate 12.8

Tool Open @ 1:20 AM Initial Blow HIT FILL 45 ft OFF BOTTOM - TOOL SLID 30'
WHEN OPEN-COULD NOT GET TO BOTTOM
Final Blow MISRUN

Recovery - Total Feet 372 Flush Tool? NO

Rec. 372 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 103 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1499.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure _____ PSI @ (depth) 3167 w / Clock No. 8179

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

(D) Initial Shut-in Pressure _____ PSI @ (depth) 3261 w / Clock No. 8376

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

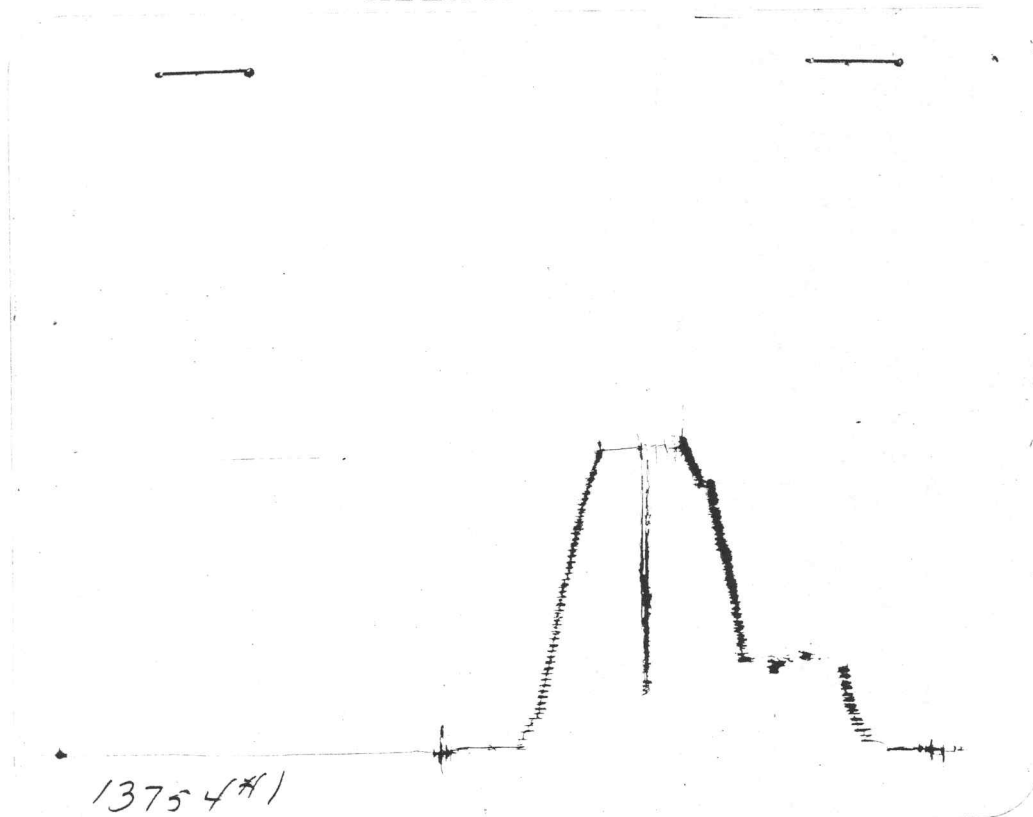
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

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

(H) Final Hydrostatic Mud 1460.3 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1486	1499.6
(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	1466	1460.3

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Drill-Stem Test Data

Well Name FLEMING #1 Test No. 2 Date 1/17/93
Company EDWIN C. SCHUETT & SHARP ENGINEERING Zone LKC-"A-F"
Address 1616 GLENARM PLACE DENVER CO 80202 Elevation 1995
Co. Rep./Geo. EDWIN C. SCHUETT Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 27 Twp. 8S Rge. 18W Co. ROOKS State KS

Interval Tested 3163-3265 Drill Pipe Size 4.5" XH
Anchor Length 102 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3158 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3163 Mud Wt. 9.1 lb/Gal.
Total Depth 3265 Viscosity 47 Filtrate 8.8

Tool Open @ 11:40 AM Initial Blow WEAK-BUILDING TO FAIR BLOW / BOTTOM OF
BUCKET IN 30 MINUTES
Final Blow WEAK-BUILDING TO 8" FAIR BLOW

Recovery - Total Feet 129 Flush Tool? NO

Rec. 124 Feet of GAS IN PIPE
Rec. 5 Feet of SLTLY OIL CUT MUD-5%OIL/95%MUD
Rec. 124 Feet of OIL CUT MUD-20%OIL/80%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 107 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1607.8 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 81.2 PSI @ (depth) 3167 w / Clock No. 8179

(C) First Final Flow Pressure 103.5 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 525.4 PSI @ (depth) 3261 w / Clock No. 8376

(E) Second Initial Flow Pressure 111.4 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 136.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 521.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1544.7 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1599	1607.8
(B) FIRST INITIAL FLOW PRESSURE	77	81.2
(C) FIRST FINAL FLOW PRESSURE	99	103.5
(D) INITIAL CLOSED-IN PRESSURE	527	525.4
(E) SECOND INITIAL FLOW PRESSURE	110	111.4
(F) SECOND FINAL FLOW PRESSURE	132	136.9
(G) FINAL CLOSED-IN PRESSURE	516	521.7
(H) FINAL HYDROSTATIC MUD	1546	1544.7

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Drill-Stem Test Data

Well Name FLEMING #1 Test No. 3 Date 1/18/93
Company EDWIN C. SCHUETT & SHARP ENGINEERING Zone ARBUCKLE
Address 1616 GLENARM PLACE DENVER CO 80202 Elevation 1995
Co. Rep./Geo. EDWIN C. SCHUETT Cont. EMPHASIS RIG #6 Est. Ft. of Pay _____
Location: Sec. 27 Twp. 8S Rge. 18W Co. ROOKS State KS

Interval Tested 3422-3460 Drill Pipe Size 4.5" XH
Anchor Length 38 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3417 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3422 Mud Wt. 9.1 lb/Gal.
Total Depth 3460 Viscosity 56 Filtrate 9.6

Tool Open @ 11:45 AM ^{Initial} Blow WEAK - BUILDING TO 1.25"

Final Blow WEAK-STEADY SURFACE BLOW

Recovery - Total Feet 15 Flush Tool? NO

Rec. 15 Feet of SLTLY OIL CUT MUD-2%OIL/98%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1763.2 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 50.6 PSI @ (depth) 3426 w / Clock No. 8179

(C) First Final Flow Pressure 50.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 702.4 PSI @ (depth) 3456 w / Clock No. 8376

(E) Second Initial Flow Pressure 50.6 PSI AK1 Recorder No. _____ Range _____

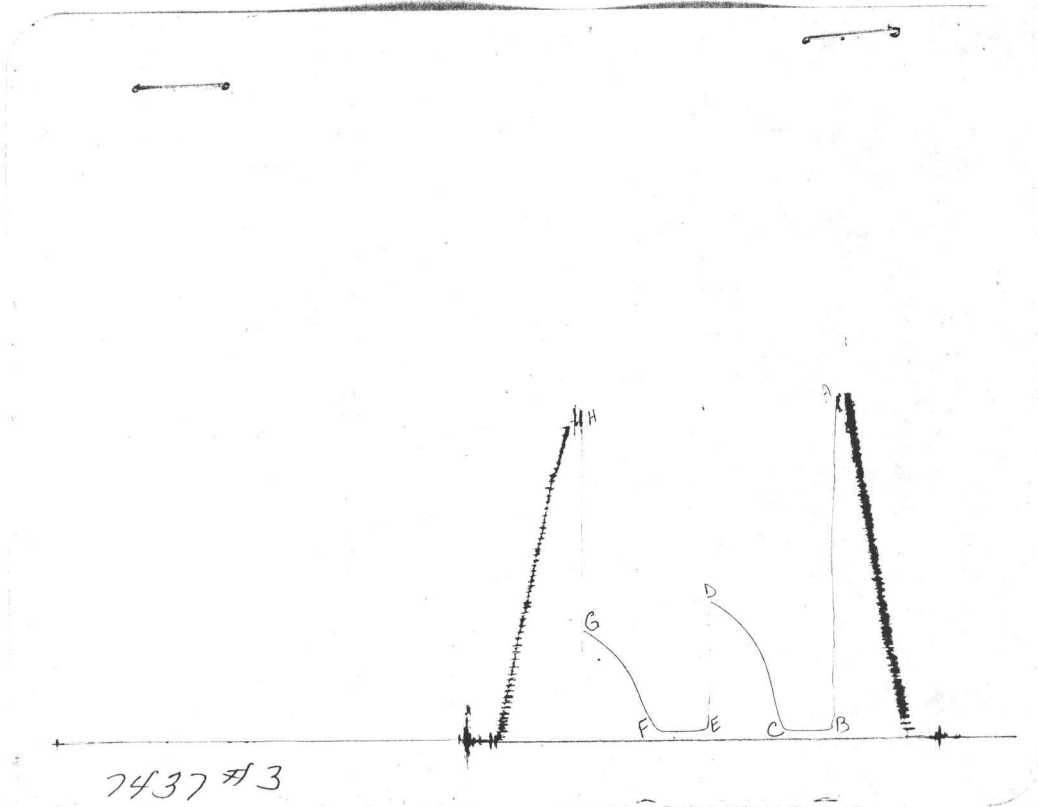
(F) Second Final Flow Pressure 50.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 550.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1694.7 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1757	1763.2
(B) FIRST INITIAL FLOW PRESSURE	44	50.6
(C) FIRST FINAL FLOW PRESSURE	44	50.6
(D) INITIAL CLOSED-IN PRESSURE	695	702.4
(E) SECOND INITIAL FLOW PRESSURE	44	50.6
(F) SECOND FINAL FLOW PRESSURE	44	50.6
(G) FINAL CLOSED-IN PRESSURE	548	550.9
(H) FINAL HYDROSTATIC MUD	1694	1694.7

DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE		
	3	TICKET					5865		
SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
1	15	0	0	2	0.3	0	0	98	14.7
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	15	0	0	2	0.3	0	0	98	14.7

		HRS	BBL/DAY
BBL OIL=	0.004266	*	1 0.1024
BBL WATER=	0	*	0
BBL MUD=	0.209034		
BBL GAS	0		

