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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 1 Date 9/30/94
Company RITCHIE EXPLORATION, INC. Zone MIDDLE CREEK
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay 4
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested 4290-4308 Drill Pipe Size 4.5" XH
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4285 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4290 Mud Wt. 9.3 lb/Gal.
Total Depth 4308 Viscosity 44 Filtrate 11.2

Tool Open @ 11:08 P.M. Initial Blow 1/2" BLOW BUILT TO 1" STAYED STEADY

Final Blow WEAK RETURN BUILT TO 1" STAYING STEADY THROUGHOUT

Recovery - Total Feet 40 Flush Tool? NO

Rec. 1 Feet of FREE OIL
Rec. 39 Feet of OIL CUT MUD 10%OIL/90%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2120.6 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 33.1 PSI @ (depth) 4298 w / Clock No. 25108

(C) First Final Flow Pressure 33.1 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 214.2 PSI @ (depth) 4303 w / Clock No. 21048

(E) Second Initial Flow Pressure 38.6 PSI AK1 Recorder No. _____ Range _____

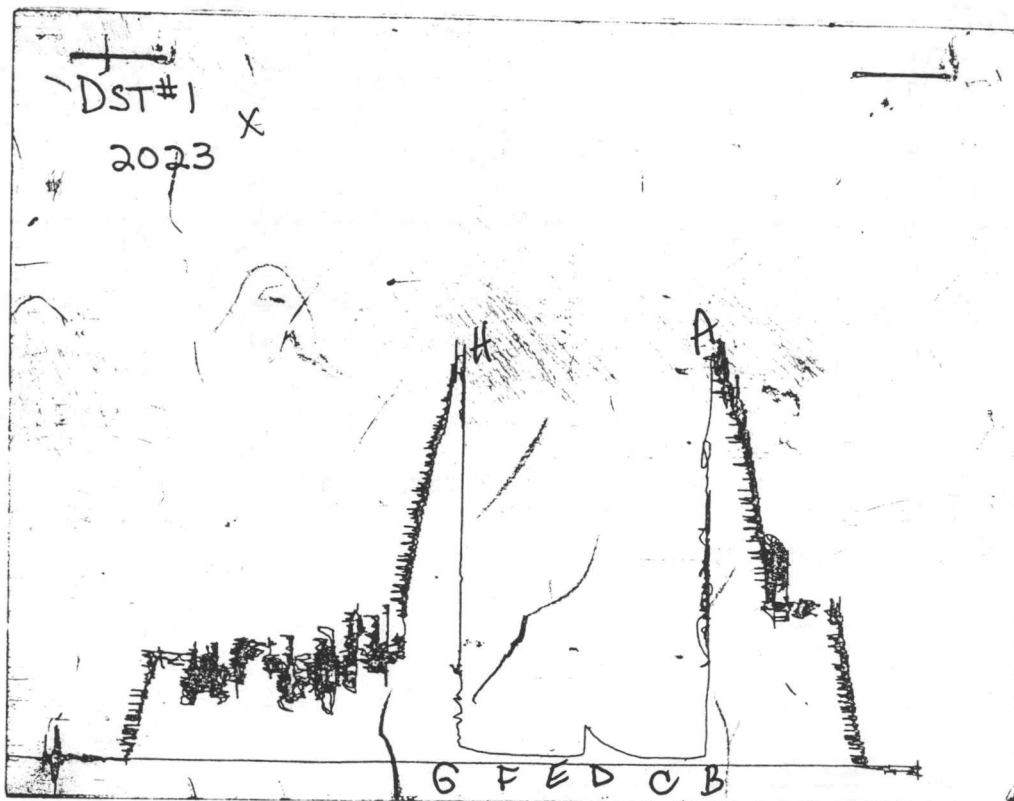
(F) Second Final Flow Pressure 38.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 93.1 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2101.5 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative ROD STEINBRINK

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2119	2120.6
(B) FIRST INITIAL FLOW PRESSURE	33	33.1
(C) FIRST FINAL FLOW PRESSURE	33	33.1
(D) INITIAL CLOSED-IN PRESSURE	215	214.2
(E) SECOND INITIAL FLOW PRESSURE	44	38.6
(F) SECOND FINAL FLOW PRESSURE	44	38.6
(G) FINAL CLOSED-IN PRESSURE	76	93.1
(H) FINAL HYDROSTATIC MUD	2109	2101.5

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Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 2 Date 10/1/94
Company RITCHIE EXPLORATION, INC. Zone LKC 'L'
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested 4317-4327 Drill Pipe Size 4.5" XH
Anchor Length 10 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4312 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4317 Mud Wt. 9.3 lb/Gal.
Total Depth 4327 Viscosity 45 Filtrate 9.2

Tool Open @ 11:36 A.M. Initial Blow OPEN TOOL-LOST MUD IN HOLE SECOND TIME-NO GOOD
PACKER OUT OF HOLE
Final Blow MISRUN

Recovery - Total Feet 195 Flush Tool? NO

Rec. 195 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 84 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2089.3 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 1686.0 PSI @ (depth) 4319 w / Clock No. 25108

(C) First Final Flow Pressure 0.0 PSI AK1 Recorder No. _____ Range _____

(D) Initial Shut-in Pressure 0.0 PSI @ (depth) _____ w / Clock No. _____

(E) Second Initial Flow Pressure 0.0 PSI AK1 Recorder No. 2023 Range 4000

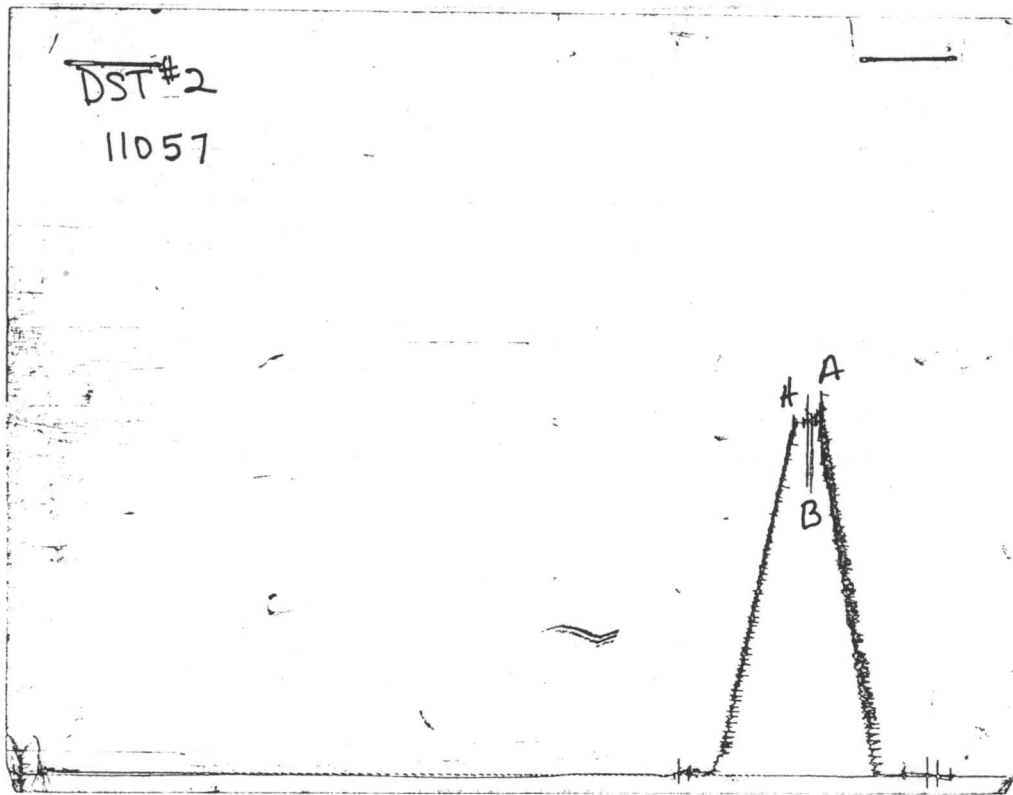
(F) Second Final Flow Pressure 0.0 PSI @ (depth) 4325 w / Clock No. 25108

(G) Final Shut-in Pressure 0.0 PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud 2050.8 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative MARK HERSKOWITZ

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2072	2089.3
(B) FIRST INITIAL FLOW PRESSURE	1645	1686
(C) FIRST FINAL FLOW PRESSURE	0	0
(D) INITIAL CLOSED-IN PRESSURE	0	0
(E) SECOND INITIAL FLOW PRESSURE	0	0
(F) SECOND FINAL FLOW PRESSURE	0	0
(G) FINAL CLOSED-IN PRESSURE	0	0
(H) FINAL HYDROSTATIC MUD	2049	2050.8

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Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 3 Date 10/1/94
Company RITCHIE EXPLORATION, INC. Zone LKC 'L'
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested <u>4292-4327</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>35</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4287</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>4292</u>	Mud Wt. <u>9.3</u> lb/Gal.
Total Depth <u>4327</u>	Viscosity <u>45</u> Filtrate <u>9.2</u>

Tool Open @ 2:29 P.M. Initial Blow SLID TOOL 5'-LOST 10'-MUD IN HOLE-OPEN 2" BLOW TO BOTTOM IN 7 MIN

Final Blow GOOD BLOW OFF BOTTOM IN 7 MIN

Recovery - Total Feet 820 Flush Tool? NO

Rec. <u>15</u>	Feet of <u>OIL STAINED WATER MUD TR OIL/5%WATER/95%MUD</u>
Rec. <u>124</u>	Feet of <u>OIL STAINED WATER MUD TR OIL/20%WATER/80%MUD</u>
Rec. <u>681</u>	Feet of <u>MUD WATER 95%WATER/5%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.16 @ 75 °F Chlorides 40000 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2131.2 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 75.1 PSI @ (depth) 4294 w / Clock No. 25108

(C) First Final Flow Pressure 257.8 PSI AK1 Recorder No. 2023 Range 4500

(D) Initial Shut-in Pressure 785.7 PSI @ (depth) 4322' w / Clock No. 25108

(E) Second Initial Flow Pressure 280.2 PSI AK1 Recorder No. _____ Range _____

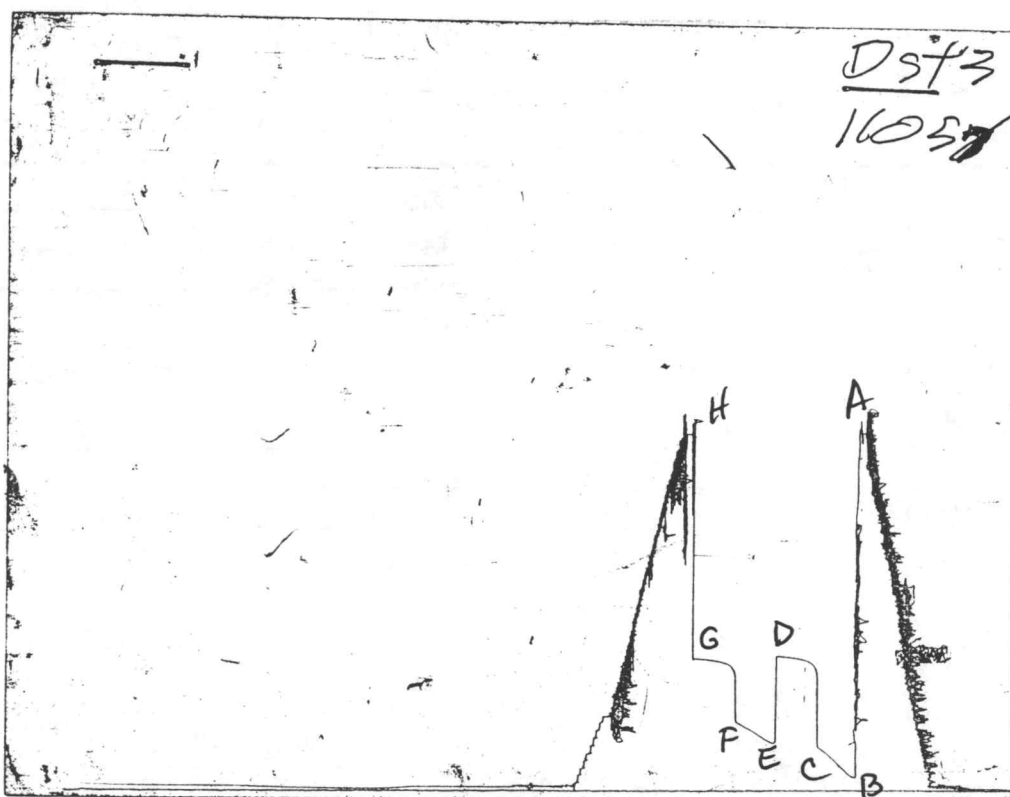
(F) Second Final Flow Pressure 403.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 770.0 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2088.2 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

CHART PAGE



	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	2106	2131.2
(B) FIRST INITIAL FLOW PRESSURE	56	75.1
(C) FIRST FINAL FLOW PRESSURE	235	257.8
(D) INITIAL CLOSED-IN PRESSURE	783	785.7
(E) SECOND INITIAL FLOW PRESSURE	257	280.2
(F) SECOND FINAL FLOW PRESSURE	403	403.5
(G) FINAL CLOSED-IN PRESSURE	772	770
(H) FINAL HYDROSTATIC MUD	2061	2088.2

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Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 4 Date 10/3/94
Company RITCHIE EXPLORATION, INC. Zone PAWNEE/JOHNS
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested	<u>4450-4596</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>146</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4445</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4450</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4596</u>	Viscosity	<u>49</u>
		Filtrate	<u>9.6</u>

Tool Open @ 7:12 A.M. Initial Blow WEAK SURFACE TO NO BLOW IN 9 MIN

Final Blow WEAK SURFACE TO NO BLOW IN 2 MIN

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>30</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>30</u>	Feet of	<u>OIL STAINED MUD 5%OIL/95%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3200 ppm System

(A) Initial Hydrostatic Mud 2199.0 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 36.9 PSI @ (depth) 4454 w / Clock No. 25108

(C) First Final Flow Pressure 36.9 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 245.5 PSI @ (depth) 4592 w / Clock No. 21048

(E) Second Initial Flow Pressure 41.4 PSI AK1 Recorder No. _____ Range _____

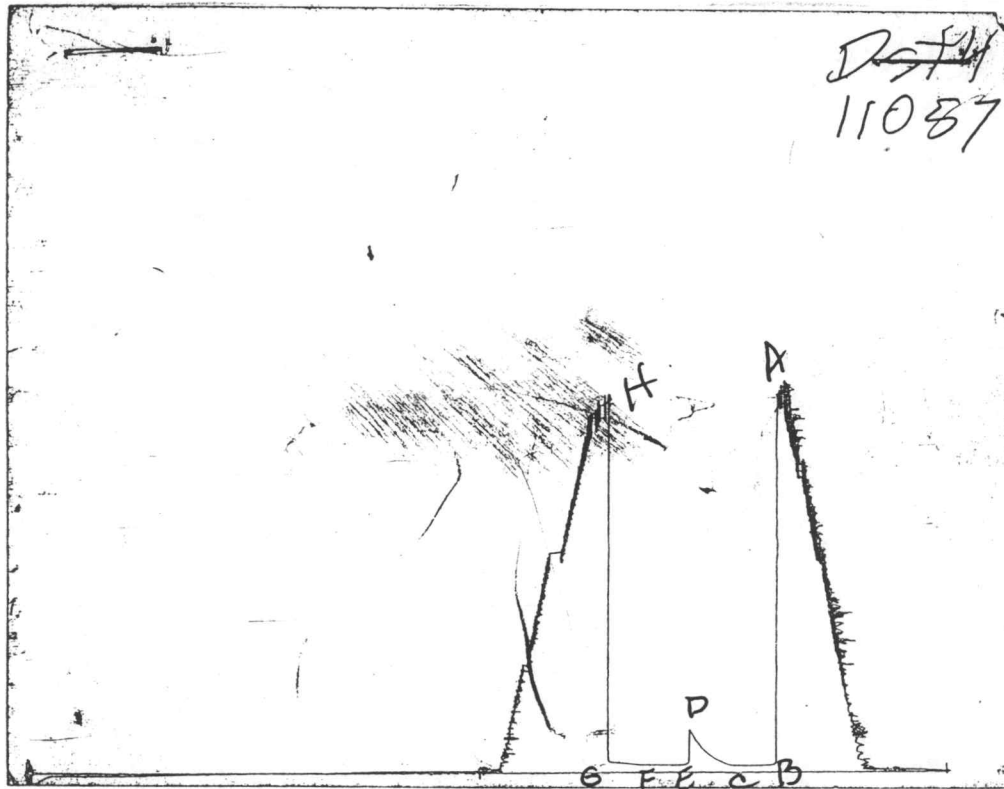
(F) Second Final Flow Pressure 41.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 65.0 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2197.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2185	2199
(B) FIRST INITIAL FLOW PRESSURE	33	36.9
(C) FIRST FINAL FLOW PRESSURE	33	36.9
(D) INITIAL CLOSED-IN PRESSURE	235	245.5
(E) SECOND INITIAL FLOW PRESSURE	44	41.4
(F) SECOND FINAL FLOW PRESSURE	44	41.4
(G) FINAL CLOSED-IN PRESSURE	67	65
(H) FINAL HYDROSTATIC MUD	2162	2197.9

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Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 5 Date 10/3/94
Company RITCHIE EXPLORATION, INC. Zone MISS
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested 4578-4609 Drill Pipe Size 4.5" XH
Anchor Length 31 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4573 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4578 Mud Wt. 9.3 lb/Gal.
Total Depth 4609 Viscosity 46 Filtrate 10.0

Tool Open @ 7:45 P.M. Initial Blow WEAK SURFACE TO NO BLOW IN 8 MIN

Final Blow NO BLOW-FLUSHED TOOL-GOOD FLUSH-WEAK SURFACE TO NO BLOW IN 1 MIN

Recovery - Total Feet 30 Flush Tool? yes

Rec. 30 Feet of GAS IN PIPE
Rec. 30 Feet of SLIGHT OIL STAINED MUD 2%OIL/98%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2298.6 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 30.2 PSI @ (depth) 4580 w / Clock No. 25108

(C) First Final Flow Pressure 30.2 PSI AK1 Recorder No. 11058 Range 4500

(D) Initial Shut-in Pressure 949.8 PSI @ (depth) 4604 w / Clock No. 25108

(E) Second Initial Flow Pressure 38.1 PSI AK1 Recorder No. _____ Range _____

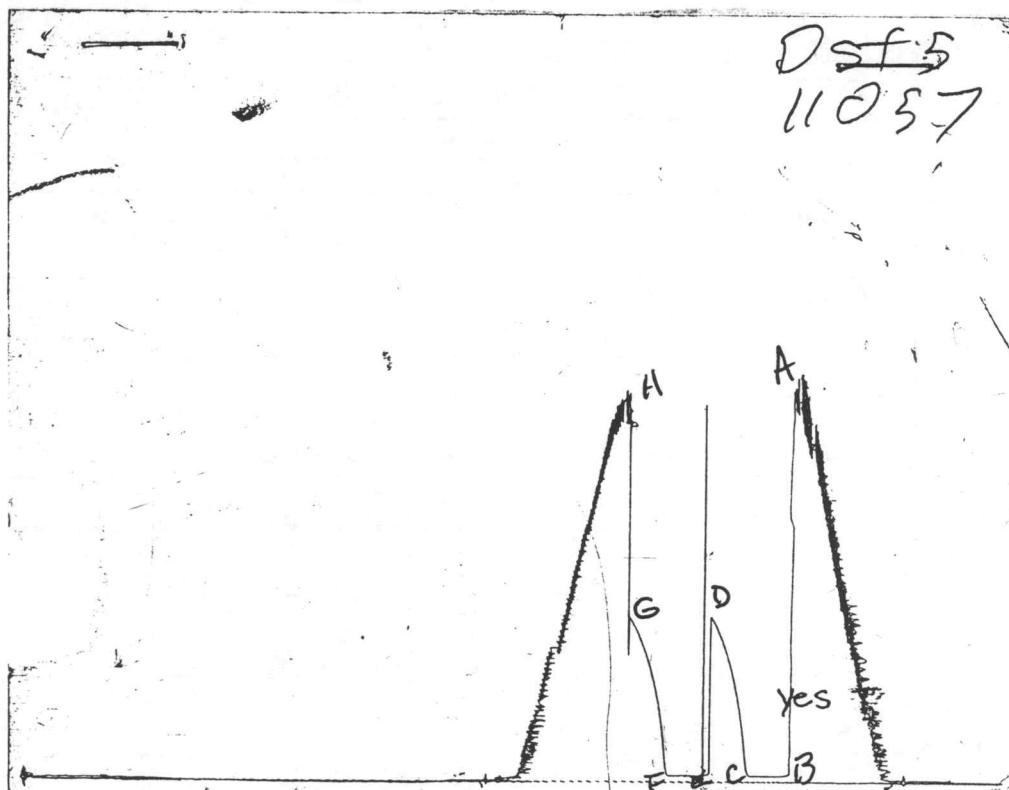
(F) Second Final Flow Pressure 40.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 947.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2255.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

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FIELD
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READING

(A) INITIAL HYDROSTATIC MUD	2276	2298.6
(B) FIRST INITIAL FLOW PRESSURE	33	30.2
(C) FIRST FINAL FLOW PRESSURE	33	30.2
(D) INITIAL CLOSED-IN PRESSURE	950	949.8
(E) SECOND INITIAL FLOW PRESSURE	33	38.1
(F) SECOND FINAL FLOW PRESSURE	44	40.3
(G) FINAL CLOSED-IN PRESSURE	950	947.5
(H) FINAL HYDROSTATIC MUD	2242	2255.6

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Drill-Stem Test Data

Well Name #1 E. SHAPLAND TRUST-6B Test No. 6 Date 10/4/94
Company RITCHIE EXPLORATION, INC. Zone MISS
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2735
Co. Rep./Geo. BOB MATHIESEN Cont. WHITE & ELLIS #9 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 19S Rge. 27W Co. LANE State KS

Interval Tested	<u>4609-4616</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>7</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4604</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4609</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4616</u>	Viscosity	<u>56</u>
		Filtrate	<u>10</u>

Tool Open @ 7:43 A.M. Initial Blow WEAK SURFACE BLOW FOR 10 MIN

Final Blow SURFACE BLOW 10 MIN- NO BLOW 5 MIN-FLUSHED TOOL-GOOD FLUSH
SURFACE BLOW FOR 5 MIN-NO BLOW

Recovery - Total Feet 40 Flush Tool? YES

Rec. <u>40</u>	Feet of	<u>SLIGHT WATER MUD 5%WATER/95%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.21 @ 78 °F Chlorides 28000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2297.0 PSI AK1 Recorder No. 11058 Range 4500

(B) First Initial Flow Pressure 33.3 PSI @ (depth) 4610 w / Clock No. 25108

(C) First Final Flow Pressure 33.3 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 1174.4 PSI @ (depth) 4613 w / Clock No. 25108

(E) Second Initial Flow Pressure 39.9 PSI AK1 Recorder No. _____ Range _____

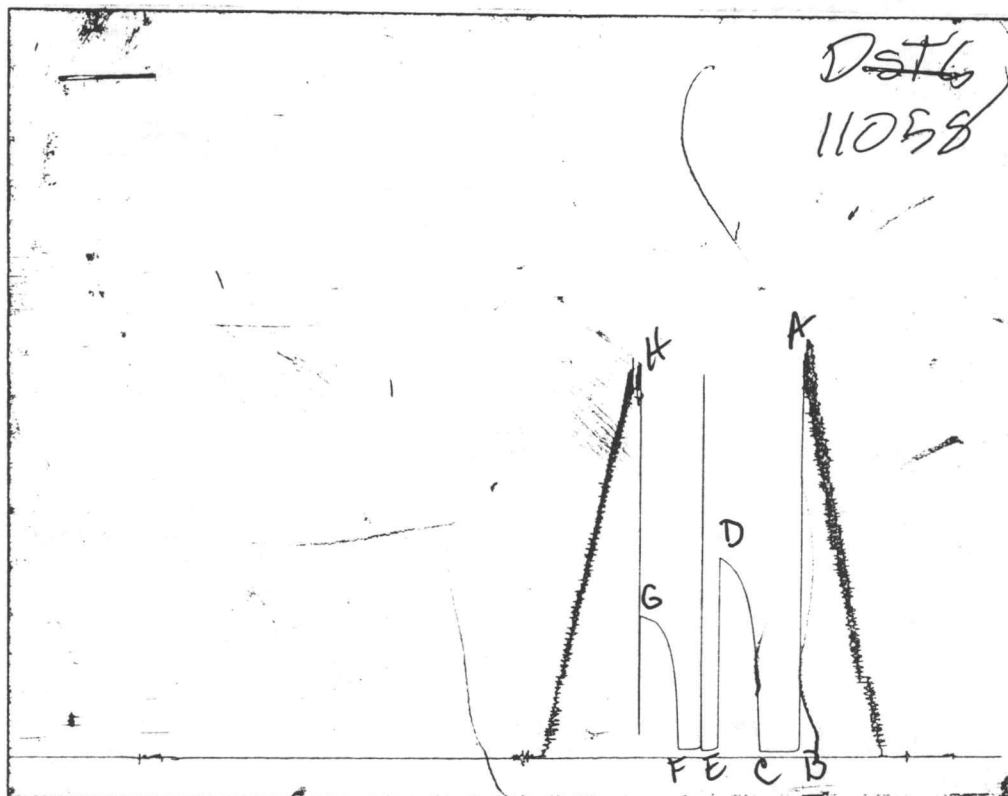
(F) Second Final Flow Pressure 49.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 825.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2247.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ

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(A) INITIAL HYDROSTATIC MUD	2287	2297
(B) FIRST INITIAL FLOW PRESSURE	33	33.3
(C) FIRST FINAL FLOW PRESSURE	33	33.3
(D) INITIAL CLOSED-IN PRESSURE	1174	1174.4
(E) SECOND INITIAL FLOW PRESSURE	33	39.9
(F) SECOND FINAL FLOW PRESSURE	44	49.9
(G) FINAL CLOSED-IN PRESSURE	828	825.7
(H) FINAL HYDROSTATIC MUD	2253	2247.7