

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCREIBER 2-A Test No. 1 Date 6/11/93
Company HINKLE OIL COMPANY Zone TOPEKA
Address 150 N MAIN STREET #1016 WICHITA KS 67202 Elevation 1887
Co. Rep./Geo. ORVIE HOWELL Cont. DUKE DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 25 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 2930-2960 Drill Pipe Size 4.5" XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2925 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 2930 Mud Wt. 9.1 lb/Gal.
Total Depth 2960 Viscosity 41 Filtrate 9.6

Tool Open @ 8:50 AM Initial Blow WEAK BLOW DEAD IN 35 MINUTES FLUSHED TOOL AND
RECEIVED WEAK BLOW DEAD IN 3 MINUTES
Final Blow DID NOT RUN FINAL FLOW AND SHUT-IN

Recovery - Total Feet 30 Flush Tool? YES

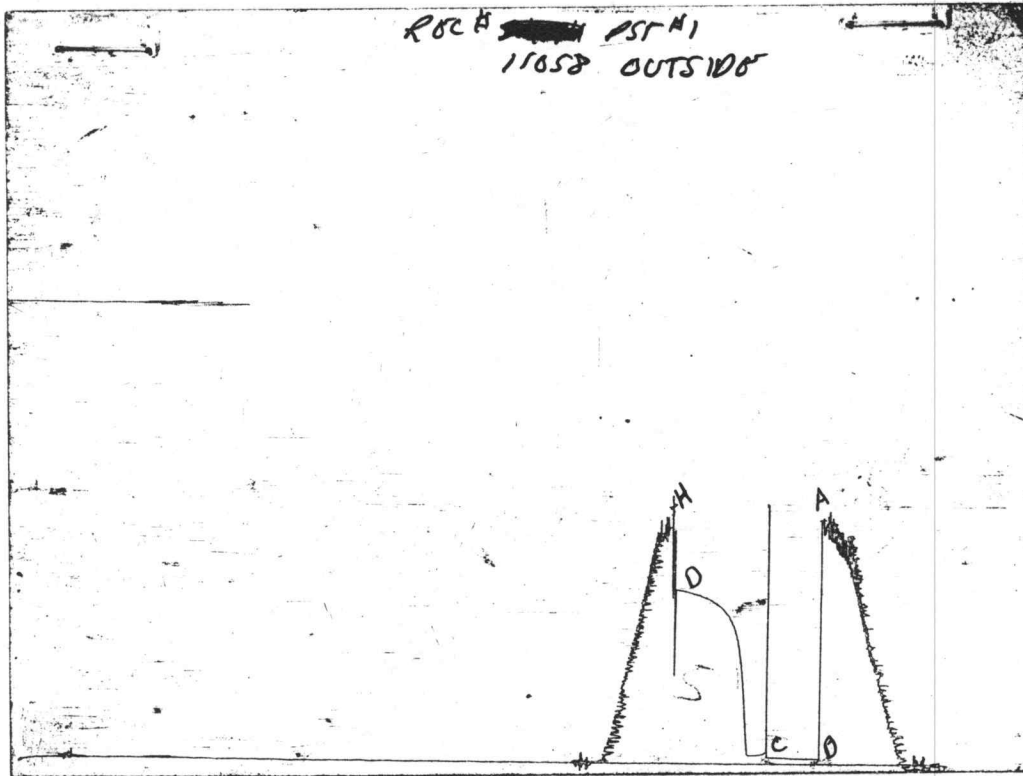
Rec. 30 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 100 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1412.3 PSI AK1 Recorder No. 22150 Range 3925
(B) First Initial Flow Pressure 26.8 PSI @ (depth) 2936 w / Clock No. 31154
(C) First Final Flow Pressure 56.5 PSI AK1 Recorder No. 11058 Range 4050
(D) Initial Shut-in Pressure 1025.1 PSI @ (depth) 2957 w / Clock No. 25814
(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 50 Final Flow _____
(H) Final Hydrostatic Mud 1385.4 PSI Initial Shut-in 45 Final Shut-in _____

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1400	1412.3
(B) FIRST INITIAL FLOW PRESSURE	22	26.8
(C) FIRST FINAL FLOW PRESSURE	44	56.5
(D) INITIAL CLOSED-IN PRESSURE	1020	1025.1
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	1376	1385.4

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6004

Well Name & No.	SCHREIBER 2-A		Test No.	1		Date	6/11/93		
Company	HINKLE OIL CO.		Zone Tested	TOPEKA					
Address	150 N MAIN ST 1016 W, KS 67202								
Co. Rep./Geo.	ORVILLE HOWELL		Cont.	'DUKE DRILL R161		Est. Ft. of Pay			
Location: Sec.	25	Twp.	15S	Rge.	13W	Co.	RUSSELL	State	KS
No. of Copies		Distribution Sheet		Yes	☒	Turnkey		Yes	☒
								No Evaluation	

Interval Tested	2930 - 2960		Drill Pipe Size	4 1/2 XH		
Anchor Length	30 FT		Top Choke — 1"	Bottom Choke — 3/4"		
Top Packer Depth	2925		Hole Size — 7 7/8"	Rubber Size — 6 3/4"		
Bottom Packer Depth	2930		Wt. Pipe I.D. — 2.7 Ft. Run	0		
Total Depth	2960		Drill Collar — 2.25 Ft. Run	0		
Mud Wt.	9.1	lb/gal.	Viscosity	41	Filtrate	9.6
Tool Open @	8:50 A.M.					
Initial Blow	WEAK BLOW DEAD IN 35 MINUTES FLUSHED TOOL + RECEIVED WEAK BLOW DEAD IN 3 MINUTES					
Final Blow	DID NOT RUN FINAL FLOW + SHUT-IN					

Recovery — Total Feet	30	Feet of Gas In Pipe	0	Flush Tool?	YES
Rec.	30	Feet Of	DRILLING MUD	%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil
Rec.		Feet Of		%gas	%oil

BHT	100°	°F Gravity		°API @		°F Corrected Gravity		°API
RW		@		°F Chlorides		ppm Recovery	8,000	ppm System
(A) Initial Hydrostatic Mud	1400	PSI	Ak1 Recorder No.	22150	INSIDE	Range	3925	
(B) First Initial Flow Pressure	22	PSI	@ (depth)	2936	W/Clock No.	31154		
(C) First Final Flow Pressure	44	PSI	Ak1 Recorder No.	24724	11058	Range	4050	
(D) Initial Shut-In Pressure	1020	PSI	@ (depth)	2957	W/Clock No.	25814		
(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	50	Test	✓	1000	
(H) Final Hydrostatic Mud	1376	PSI	Initial Shut-In	45	Jars			

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Crowd
Our Representative John Rich

Final Flow — Safety Joint —
Final Shut-In — Straddle —
Circ. Sub —
Sampler —
Extra Packer —
Other —

TOTAL PRICE \$

600

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCREIBER 2-A Test No. 2 Date 6/11/93
Company HINKLE OIL COMPANY Zone TORONTO
Address 150 N MAIN STREET #1016 WICHITA KS 67202 Elevation 1887 KB
Co. Rep./Geo. ORVIE HOWELL Cont. DUKE DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 25 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested <u>2985-3020</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>35</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>632</u>
Top Packer Depth <u>2980</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>2985</u>	Mud Wt. <u>9.4</u> lb/Gal.
Total Depth <u>3020</u>	Viscosity <u>44</u> Filtrate <u>9.6</u>

Tool Open @ 8:33 PM Initial Blow WEAK SURFACE BLOW DIED IN 8 MINUTES
FLUSHED TOOL -- NO BLOW AFTER SURGE
Final Blow NONE TAKEN

Recovery - Total Feet 5 Flush Tool? YES

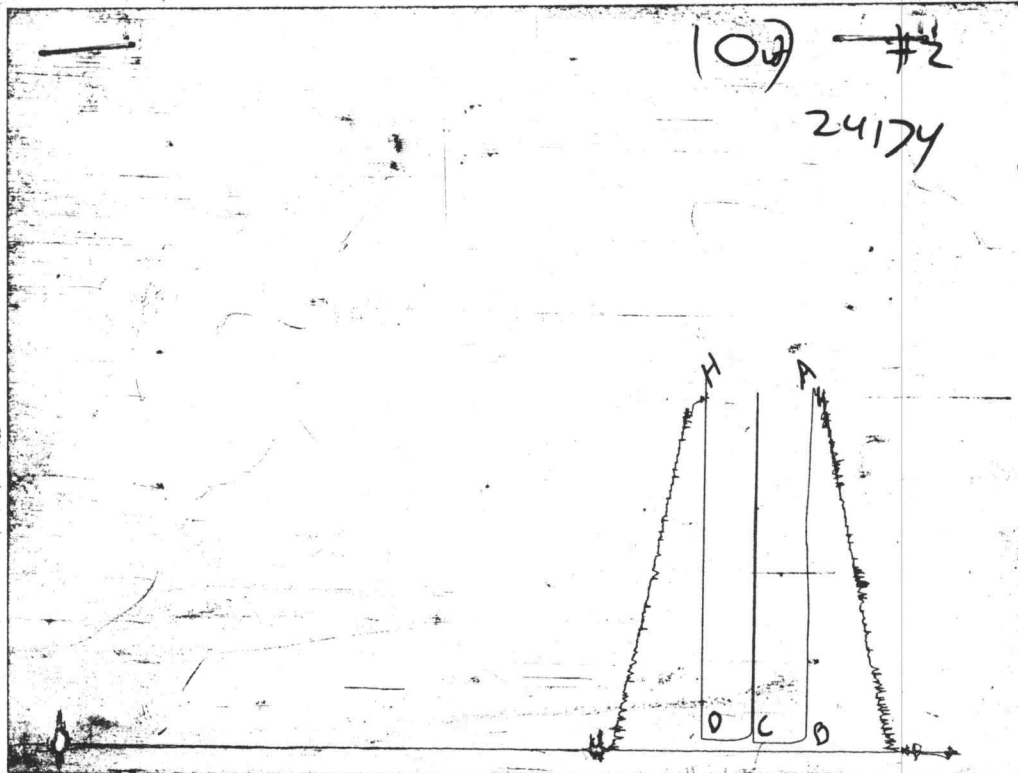
Rec. <u>5</u>	Feet of <u>MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>1456.2</u> PSI	AK1 Recorder No. <u>22150</u> Range <u>3925</u>
(B) First Initial Flow Pressure <u>32.1</u> PSI	@ (depth) <u>2990</u> w / Clock No. <u>30401</u>
(C) First Final Flow Pressure <u>21.8</u> PSI	AK1 Recorder No. <u>24174</u> Range <u>3050</u>
(D) Initial Shut-in Pressure <u>57.8</u> PSI	@ (depth) <u>3017</u> w / Clock No. <u>31154</u>
(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 <u>50</u> Final Flow _____
(H) Final Hydrostatic Mud <u>1415.6</u> PSI	Initial Shut-in <u>30</u> Final Shut-in _____

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1446	1456.2
(B) FIRST INITIAL FLOW PRESSURE	30	32.1
(C) FIRST FINAL FLOW PRESSURE	30	21.8
(D) INITIAL CLOSED-IN PRESSURE	44	57.8
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	1408	1415.6

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6005

Well Name & No.	Schreiber 2-A	Test No.	2	Date	6-11-93
Company	Hinkle Oil Company	Zone Tested	Toronto		
Address	150 S. Main #1016 Wichita, KS 67202	Elevation	1850 G-2		
Co. Rep./Geo.	Orville Howell	Cont.	Duke #1	Est. Ft. of Pay	
Location: Sec.	25	Twp.	15S	Rge.	13W
				Co.	Russell
				State	Ks
No. of Copies		Distribution Sheet	Yes	No	Turnkey
			Yes	No	Evaluation

Interval Tested	2985 - 3020	Drill Pipe Size	4 1/2 FH
Anchor Length	35	Top Choke	1"
Top Packer Depth	2980	Bottom Choke	3/4"
Bottom Packer Depth	2985	Hole Size	7 7/8"
Total Depth	3020	Rubber Size	6 3/4"
Mud Wt.	9.4	Wt. Pipe I.D.	2.7 Ft. Run
	lb / gal.	Drill Collar	2.25 Ft. Run
Tool Open @	8:33 PM	Viscosity	44
Initial Blow	Weak surface blow - died in 8 minutes	Filtrate	9.6
	Flushed tool - no blow after surge		
Final Blow	none taken		

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?				
5		Y	% gas	% oil	% water	% mud
Rec. 5	Feet Of mud		% gas	% oil	% water	% mud
Rec.	Feet Of		% gas	% oil	% water	% mud
Rec.	Feet Of		% gas	% oil	% water	% mud
Rec.	Feet Of		% gas	% oil	% water	% mud
Rec.	Feet Of		% gas	% oil	% water	% mud

BHT	99	°F Gravity		°API @		°F Corrected Gravity		°API
RW		@		°F Chlorides		ppm Recovery		ppm System
(A) Initial Hydrostatic Mud	1446	PSI		AK1 Recorder No.	22150	Range	3925	
(B) First Initial Flow Pressure	30	PSI		@ (depth)	2990	w/Clock No.	3040	
(C) First Final Flow Pressure	30	PSI		AK1 Recorder No.	24174	Range	3050	
(D) Initial Shut-In Pressure	44	PSI		@ (depth)	3017	w/Clock No.	3154	
(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	50	Test	6000	
(H) Final Hydrostatic Mud	1408	PSI		Initial Shut-In	30	Jars		

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Final Flow		Safety Joint	
Final Shut-In		Straddle	
		Circ. Sub	
		Sampler	
		Extra Packer	
		Other	

Approved By [Signature]

Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCREIBER 2-A Test No. 3 Date 6/12/93
Company HINKLE OIL COMPANY Zone LKC B-D
Address 150 N MAIN STREET #1016 WICHITA KS 67202 Elevation 1887 KB
Co. Rep./Geo. ORVIE HOWELL Cont. DUKE DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 25 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested	<u>3085-3150</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>65</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>632</u>
Top Packer Depth	<u>3080</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3085</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>3150</u>	Viscosity	<u>51</u>
		Filtrate	<u>9.6</u>

Tool Open @ 10:20 AM Initial Blow 1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 8 MINUTES
SURFACE BLOW ON SHUT-IN
Final Blow 4" BLOW BUILDING TO BOTTOM OF BUCKET IN 3 MINUTES
BLOW BACK BUILT TO 3/4"

Recovery - Total Feet 150 Flush Tool? NO

Rec.	<u>960</u>	Feet of	<u>GAS IN PIPE</u>
Rec.	<u>30</u>	Feet of	<u>SLIGHTLY OIL CUT MUD 10%OIL/90%MUD</u>
Rec.	<u>60</u>	Feet of	<u>GASSY HEAVY OIL CUT MUD 20%GAS/30%OIL/50%MUD</u>
Rec.	<u>60</u>	Feet of	<u>GASSY MUD CUT OIL 40%GAS/30%OIL/30%MUD</u>
Rec.	_____	Feet of	_____

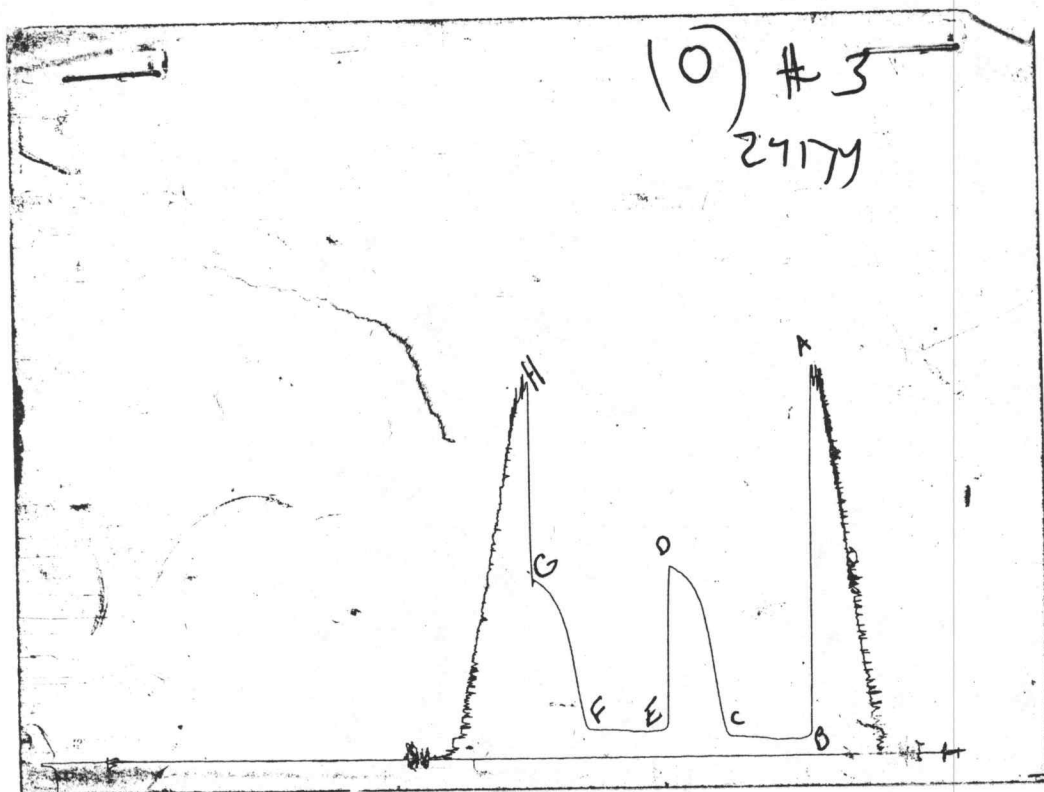
BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	<u>1556.4</u> PSI	AK1 Recorder No.	<u>22150</u>	Range	<u>3925</u>
(B) First Initial Flow Pressure	<u>65.2</u> PSI	@ (depth)	<u>3089</u>	w / Clock No.	<u>31154</u>
(C) First Final Flow Pressure	<u>79.4</u> PSI	AK1 Recorder No.	<u>24174</u>	Range	<u>3050</u>
(D) Initial Shut-in Pressure	<u>769.9</u> PSI	@ (depth)	<u>3147</u>	w / Clock No.	<u>25814</u>
(E) Second Initial Flow Pressure	<u>102.7</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>125.2</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>715.5</u> PSI	Initial Opening	<u>60</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>1512.8</u> PSI	Initial Shut-in	<u>45</u>	Final Shut-in	<u>45</u>

PAUL SIMPSON

Our Representative _____

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1545	1556.4
(B) FIRST INITIAL FLOW PRESSURE	52	65.2
(C) FIRST FINAL FLOW PRESSURE	74	79.4
(D) INITIAL CLOSED-IN PRESSURE	759	769.9
(E) SECOND INITIAL FLOW PRESSURE	97	102.7
(F) SECOND FINAL FLOW PRESSURE	112	1125.2
(G) FINAL CLOSED-IN PRESSURE	705	715.5
(H) FINAL HYDROSTATIC MUD	1508	1512.8

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6006

Well Name & No. <u>Schreiber 2-A</u>	Test No. <u>3</u>	Date <u>6-12-93</u>
Company <u>Hinkle Oil Company</u>	Zone Tested <u>LKC 'B-D'</u>	
Address _____	Elevation <u>1887 KB</u>	
Co. Rep./Geo. <u>Orvie Howell</u>	Cont. <u>Duke #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>25</u> Twp. <u>15S</u> Rge. <u>Bw</u>	Co. <u>Russell</u>	State <u>Ks</u>
No. of Copies <u>6</u>	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3085-3150</u>	Drill Pipe Size <u>4 1/2 FA</u>
Anchor Length <u>65</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>3080</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3085</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>632</u>
Total Depth <u>3150</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.3</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>9.6</u>
Tool Open @ <u>10:20 AM</u>	Initial Blow <u>1/2" blow building to bottom of bucket in 8 minutes (surface blow on shut-in)</u>
Final Blow <u>4" blow building to bottom of bucket in 3 minutes (blowback built to 3/4")</u>	
Recovery — Total Feet <u>150</u>	Feet of Gas In Pipe <u>960</u> Flush Tool? _____
Rec. <u>30</u> Feet Of <u>SOCM</u>	%gas <u>10</u> %oil _____ %water <u>90</u> %mud _____
Rec. <u>60</u> Feet Of <u>gsy HOCM</u>	%gas <u>30</u> %oil _____ %water <u>50</u> %mud _____
Rec. <u>60</u> Feet Of <u>gsy MCO</u>	%gas <u>30</u> %oil _____ %water <u>30</u> %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>1545</u>	PSI Ak1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>52</u>	PSI @ (depth) <u>3089</u>	w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>74</u>	PSI Ak1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-in Pressure <u>759</u>	PSI @ (depth) <u>3147</u>	w/Clock No. <u>25814</u>
(E) Second Initial Flow Pressure <u>97</u>	PSI Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>112</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-in Pressure <u>705</u>	PSI Initial Opening <u>60</u>	Test <u>600</u>
(H) Final Hydrostatic Mud <u>1508</u>	PSI Initial Shut-in <u>45</u>	Jars _____

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Final Flow 60 Safety Joint _____
 Final Shut-in 45 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By _____

Our Representative Pawn Simpson

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCREIBER 2-A Test No. 4 Date 6/13/93
Company HINKLE OIL COMPANY Zone LKC J,K,L
Address 150 N MAIN STREET #1016 WICHITA KS 67202 Elevation 1887 KB
Co. Rep./Geo. ORVIE HOWELL Cont. DUKE DRILLING #1 Est. Ft. of Pay _____
Location: Sec. 25 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested <u>3245-3315</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>70</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>632</u>
Top Packer Depth <u>3240</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>3245</u>	Mud Wt. <u>9.2</u> lb/Gal.
Total Depth <u>3315</u>	Viscosity <u>60</u> Filtrate <u>9.6</u>

Tool Open @ 7:01 AM Initial Blow 1/2" BLOW DECREASING AND DIED IN 27 MINUTES
FLUSHED TOOL -- NO BLOW AFTER SURGE
Final Blow NOT TAKEN

Recovery - Total Feet 5 Flush Tool? YES

Rec. <u>5</u>	Feet of <u>MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1665.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 45.2 PSI @ (depth) 3249 w / Clock No. 31154

(C) First Final Flow Pressure 31.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 501.2 PSI @ (depth) 3312 w / Clock No. 25814

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

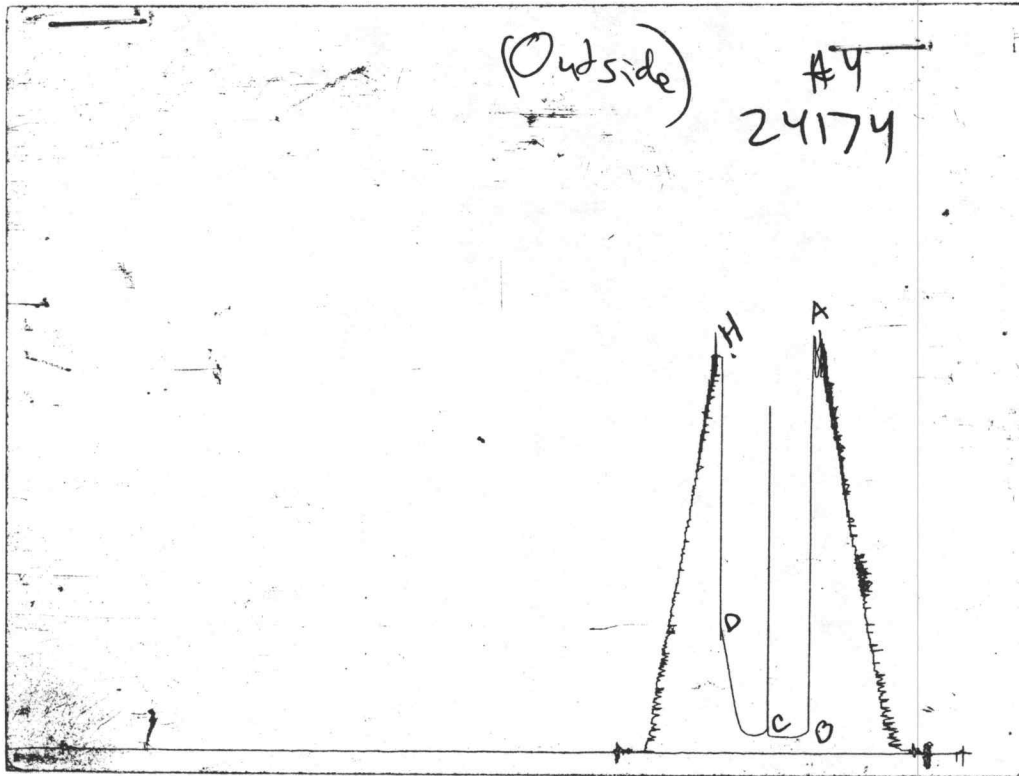
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 38 Final Flow _____

(H) Final Hydrostatic Mud 1596.3 PSI Initial Shut-in 30 Final Shut-in _____

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1658	1665.3
(B) FIRST INITIAL FLOW PRESSURE	37	45.2
(C) FIRST FINAL FLOW PRESSURE	37	31.2
(D) INITIAL CLOSED-IN PRESSURE	492	501.2
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	1583	1596.3