

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Computer Inventoried Drill-Stem Test Data

Well Name & No.	MARTIN #1	Test No.	1	Date	11/11/89
Company	STAAB ENERGY & LEASING	Zone Tested	LANSING-KC"B-F"		
Address	2514 HANEY DRIVE HAYS KANSAS 67601	Elevation	2117 KB		
Co. Rep./Geo.	MR RANDALL KILIAN	Cont.	HELBURG OIL	Est. Ft. of Pay	4
Location: Sec.	26	Twp.	11S	Rge.	20W
		Co.	ELLIS	State	KANSAS

Interval Tested	3435-3502	Drill Pipe Size	4.5" FH
Anchor Length	67	Top Choke — 1"	
Top Packer Depth	3430	Bottom Choke — 3/4"	KCC
Bottom Packer Depth	3435	Hole Size — 7 7/8"	
Total Depth	3502	Rubber Size — 6 3/4"	JUN 1 1994
Wt. Pipe I.D. — 2.7		Ft. Run	0
Drill Collar — 2.25		Ft. Run	0
Mud Wt.	9.8	Viscosity	43
	lb./gal.	Filtrate	12.8
Tool Open @	3:39 PM	1" BUILDING TO OFF BOTTOM OF BUCKET IN 20 MINUTES-NO RESIDUAL	
Initial Blow	1" BUILDING TO 8" BLOW-NO RESIDUAL		
Final Blow			

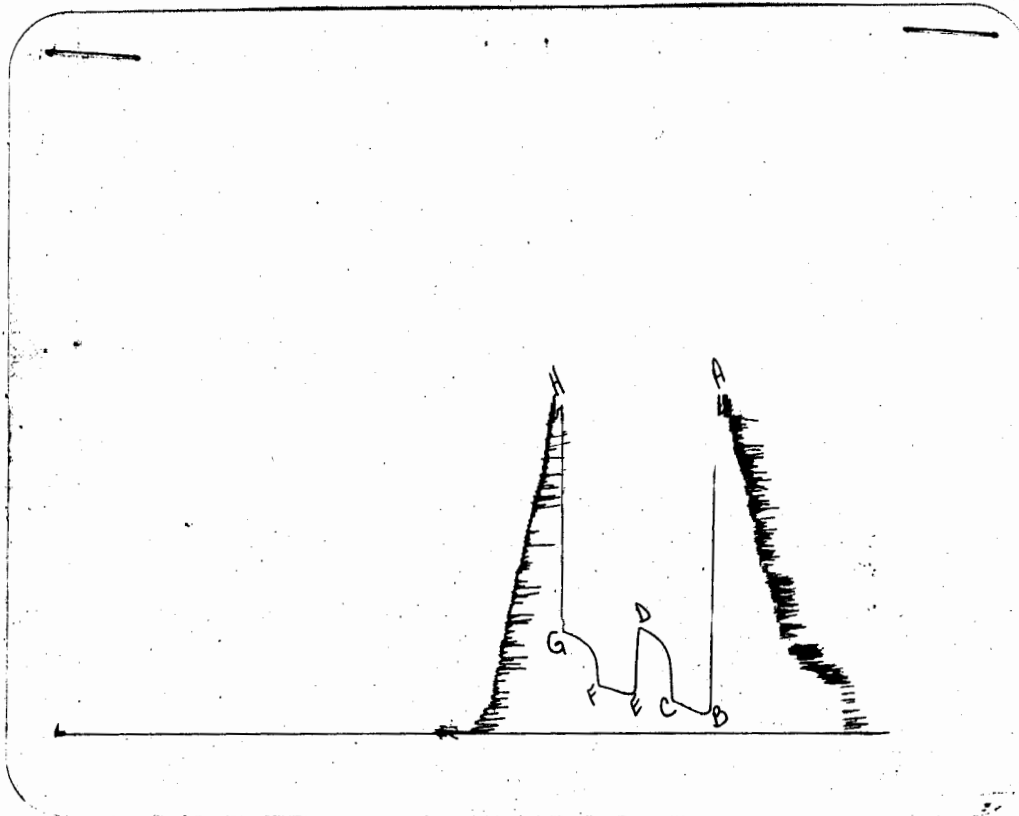
Recovery — Total Feet	425	Flush Tool?										
Rec.	425	Feet of	MUDDY WATER									
Rec.	0	Feet of										
Rec.	0	Feet of										
Rec.	0	Feet of										
Rec.	0	Feet of										
BHT	110	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API		
RW	.33	@	57.7	°F	Chlorides	26000	ppm	Recovery	Chlorides	37000	ppm	System
(A) Initial Hydrostatic Mud	1856.3	PSI	AK1 Recorder No.	13308	Range	4700						
(B) First Initial Flow Pressure	67.8	PSI	@ (depth)	3472	w/Clock No.	31154						
(C) First Final Flow Pressure	175	PSI	AK1 Recorder No.	13850	Range	4325						
(D) Initial Shut-In Pressure	584.3	PSI	@ (depth)	3498	w/Clock No.	30401						
(E) Second Initial Flow Pressure	199.7	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	251.3	PSI	Initial Shut-In	30								
(G) Final Shut-In Pressure	574.6	PSI	Final Flow	30								
(H) Final Hydrostatic Mud	1810.3	PSI	Final Shut-In	30								

Our Representative MR CARL F GOFF

TOTAL PRICE \$ 400

Printcraft Printers - Hays, KS

DST# 1 RECORDER# 13850



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	1849	1856.3 PSI
(B) First Initial Flow Pressure.....	60	67.8 PSI
(C) First Final Flow Pressure.....	168	175 PSI
(D) Initial Closed-In Pressure.....	564	584.3 PSI
(E) Second Initial Flow Pressure.....	192	199.7 PSI
(F) Second Final Flow Pressure.....	240	251.3 PSI
(G) Final Closed-In Pressure.....	541	574.6 PSI
(H) Final Hydrostatic Mud.....	1801	1810.3 PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2192

Well Name & No.	<u>Martin #1</u>	Test No.	<u>1</u>	Date	<u>11/11/89</u>
Company	<u>Staab Energy & Leasing</u>	Zone Tested	<u>LKC "B-F"</u>		
Address	<u>2514 Hancey Drive</u>	Elevation	<u>2117 KB</u>		
Co. Rep./Geo.	<u>Randall Kilian</u>	Cont.	<u>Helberg Oil</u>	Est. Ft. of Pay	<u>4</u>
Location: Sec.	<u>26</u>	Twp.	<u>11S</u>	Rge.	<u>20W</u>
		Co.	<u>Ellis</u>	State	<u>Ks.</u>

Interval Tested	<u>3435'-3502'</u>	Drill Pipe Size	<u>4 1/2 FH</u>
Anchor Length	<u>67</u>	Top Choke — 1"	
Top Packer Depth	<u>3430</u>	Bottom Choke — 3/4"	
Bottom Packer Depth	<u>3435'</u>	Hole Size — 7 7/8"	
Total Depth		Rubber Size — 6 3/4"	
Wt. Pipe I.D. — 2.7		Ft. Run	
Drill Collar — 2.25		Ft. Run	
Mud Wt.	<u>9.8</u> lb./gal.	Viscosity	<u>43</u>
		Filtrate	<u>12.8</u>
Tool Open @	<u>3:39 pm.</u>	Initial Blow	<u>1" building to off bottom of bucket in 20 min</u>
			<u>No residual</u>
Final Blow	<u>1" building to 8" blow</u>		
	<u>No residual</u>		
Recovery — Total Feet	<u>425'</u>	Flush Tool?	<u>KCC</u>
Rec.	<u>425'</u>	Feet of	<u>Muddy Wtr.</u>
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	
BHT	<u>110</u> °F	Gravity	
		°API @	
		°F	
		Corrected Gravity	
		°API	
RW	<u>.33</u> @	<u>57.7</u> °F	Chlorides <u>26,000</u> ppm
		Recovery	Chlorides <u>32,000</u> ppm
		System	
(A) Initial Hydrostatic Mud	<u>1849</u>	PSI	AK1 Recorder No. <u>13308</u>
			Range <u>4200</u>
(B) First Initial Flow Pressure	<u>60</u>	PSI	@ (depth) <u>3422</u>
			w/Clock No. <u>31154</u>
(C) First Final Flow Pressure	<u>168</u>	PSI	AK1 Recorder No. <u>13850</u>
			Range <u>4325</u>
(D) Initial Shut-In Pressure	<u>544</u>	PSI	@ (depth) <u>3498</u>
			w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure	<u>192</u>	PSI	Initial Opening <u>30</u>
			Test <u>400</u>
(F) Second Final Flow Pressure	<u>240</u>	PSI	Initial Shut-In <u>30</u>
			Jars
(G) Final Shut-In Pressure	<u>541</u>	PSI	Final Flow <u>30</u>
			Safety Joint
(H) Final Hydrostatic Mud	<u>1801</u>	PSI	Final Shut-In <u>30</u>
			Straddle

Approved By Randy Thi

Our Representative Carl P. Hoff

Circ. Sub X

Sampler

Extra Packer

Other

TOTAL PRICE \$

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	MARTIN #1	Test No.	2	Date	11/13/89
Company	STAAB ENERGY & LEASING	Zone Tested	ARBUCKLE		
Address	2514 HANEY DRIVE HAYS KANSAS 67601	Elevation	2117 KB		
Co. Rep./Geo.	MR RANDALL KILIAN	cont.	HELBURG OIL	Est. Ft. of Pay	0
Location: Sec.	26	Twp.	11S	Rge.	20W
Co.	ELLIS	State	KANSAS		

Interval Tested	3698-3720	Drill Pipe Size	4.5" FH			
Anchor Length	22	Top Choke — 1"				
Top Packer Depth	3693	Bottom Choke — 3/4"				
Bottom Packer Depth	3698	Hole Size — 7 7/8"				
Total Depth	3720	Rubber Size — 6 1/4"				
Wt. Pipe I.D. — 2.7		Ft. Run	562.91			
Drill Collar — 2.25		Ft. Run	0			
Mud Wt.	9.9	lb./gal.	Viscosity	43	Filtrate	11.6
Tool Open @	11:00 AM	Initial Blow	VERY WEAK SURFACE BLOW DIED IN 4 MINUTES			

Final Blow NO BLOW

Recovery — Total Feet	2	Flush Tool?	KCC
Rec.	2	Feet of	MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	110	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API
RW		@	°F	Chlorides		ppm	Recovery	Chlorides		ppm
				2031.6				13308		4700
(A) Initial Hydrostatic Mud			PSI	AK1 Recorder No.		Range				
					3701					31154
(B) First Initial Flow Pressure		25.9	PSI	@ (depth)		w/Clock No.				
					13850					4325
(C) First Final Flow Pressure		25.9	PSI	AK1 Recorder No.		Range				
					3716					30401
(D) Initial Shut-In Pressure		37.1	PSI	@ (depth)		w/Clock No.				
					30					
(E) Second Initial Flow Pressure		25.9	PSI	Initial Opening						
					30					
(F) Second Final Flow Pressure		25.9	PSI	Initial Shut-In						
					45					
(G) Final Shut-In Pressure		37.1	PSI	Final Flow						
					30					
(H) Final Hydrostatic Mud		2020.1	PSI	Final Shut-In						

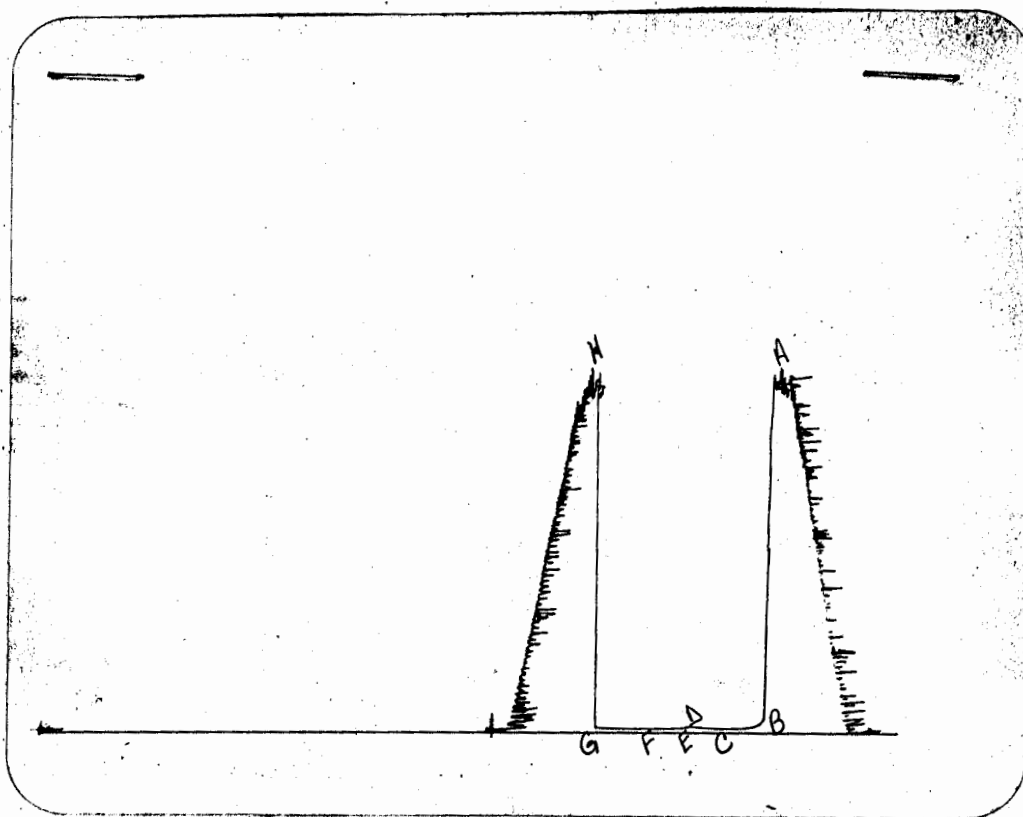
MR CARL F GOFF

Our Representative

TOTAL PRICE..... \$

400

Printcraft Printers - Hays, KS

DST# 2RECORDER# 13850

This is an actual photograph of recorder chart.

PRESSURE

POINT

Field
Reading

Office
Reading

(A) Initial Hydrostatic Mud.....	2025	2031.6	PSI
(B) First Initial Flow Pressure.....	24	25.9	PSI
(C) First Final Flow Pressure.....	24	25.9	PSI
(D) Initial Closed-In Pressure.....	36	37.1	PSI
(E) Second Initial Flow Pressure.....	24	25.9	PSI
(F) Second Final Flow Pressure.....	24	25.9	PSI
(G) Final Closed-In Pressure.....	36	37.1	PSI
(H) Final Hydrostatic Mud.....	2014	2020.1	PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2193

Well Name & No. <u>Martin #1</u>	Test No. <u>2</u>	Date <u>11/13/89</u>
Company <u>Staab Energy & Leasing</u>	Zone Tested <u>Acb.</u>	
Address <u>2514 Haney Drive</u>	Elevation <u>2117 KB</u>	
Co. Rep./Geo. <u>Randall Kilian</u>	Cont. <u>Heldberg Oil Co.</u>	Est. Ft. of Pay _____
Location: Sec. <u>26</u>	Twp. <u>11S</u>	Rge. <u>20W</u> Co. <u>Ellis</u> State <u>Ks.</u>

Interval Tested <u>3698-3720</u>	Drill Pipe Size <u>4 1/2 FH</u>
Anchor Length <u>22</u>	Top Choke — 1" _____
Top Packer Depth <u>3693</u>	Bottom Choke — 3/4" _____
Bottom Packer Depth <u>3698</u>	Hole Size — 7 1/8" _____
Total Depth <u>3720</u>	Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____	Ft. Run <u>562.91</u>
Drill Collar — 2.25 _____	Ft. Run _____
Mud Wt. <u>9.9</u> lb./gal.	Viscosity <u>43</u> Filtrate <u>11.6</u>
Tool Open @ <u>11:00am</u>	Initial Blow <u>Very Weak surface blow died in 4 min.</u>
Final Blow <u>No blow</u>	

Recovery — Total Feet <u>2</u>	Flush Tool? _____
Rec. <u>2</u> Feet of <u>mud</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

BHT <u>110</u> °F	Gravity _____ °API @ _____ °F	Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery _____ Chlorides <u>40,000</u> ppm System
(A) Initial Hydrostatic Mud <u>2035</u>	PSI AK1 Recorder No. <u>13708</u>	Range <u>4200</u>
(B) First Initial Flow Pressure <u>24</u>	PSI @ (depth) <u>3201</u>	w/Clock No. <u>31154</u>
(C) First Final Flow Pressure <u>24</u>	PSI AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>36</u>	PSI @ (depth) <u>3216</u>	w/Clock No. <u>30401</u>
(E) Second Initial Flow Pressure <u>24</u>	PSI Initial Opening <u>30</u>	Test <u>400</u> ⁰⁰
(F) Second Final Flow Pressure <u>24</u>	PSI Initial Shut-In <u>30</u>	Jars _____
(G) Final Shut-In Pressure <u>36</u>	PSI Final Flow <u>45</u>	Safety Joint _____
(H) Final Hydrostatic Mud <u>2014</u>	PSI Final Shut-In <u>30</u>	Straddle _____

Approved By Randy Kilian

Our Representative Carl E. Hoff

Circ. Sub X

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	MARTIN #1	Test No.	3	Date	11/13/89
Company	STAAB ENERGY & LEASING	Zone Tested	ARBUCKLE		
Address	2514 HANEY DRIVE HAYS KANSAS 67601	Elevation	2117 KB		
Co. Rep./Geo.	MR RANDALL KILIAN	Cont.	HELBURG OIL	Est. Ft. of Pay	0
Location: Sec.	26	Twp.	11S	Rge.	20W
		Co.	ELLIS	State	KANSAS

Interval Tested	3710-3735	Drill Pipe Size	4.5" FH			
Anchor Length	25	Top Choke — 1"				
Top Packer Depth	3705	Bottom Choke — 3/4"				
Bottom Packer Depth	3710	Hole Size — 7 7/8"				
Total Depth	3735	Rubber Size — 6 3/4"				
Wt. Pipe I.D. — 2.7		Ft. Run	562.91			
Drill Collar — 2.25		Ft. Run	0			
Mud Wt.	9.9	lb./gal.	Viscosity	45	Filtrate	11.6
Tool Open @	11:43 PM	Initial Blow	1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 25 MINUTES			

Final Blow	1/2" BLOW BUILDING TO OFF BOTTOM OF BUCKET IN 36 MINUTES				
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Recovery — Total Feet	625	Flush Tool?	KCC
Rec.	625	Feet of	MUDDY SALT WATER
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

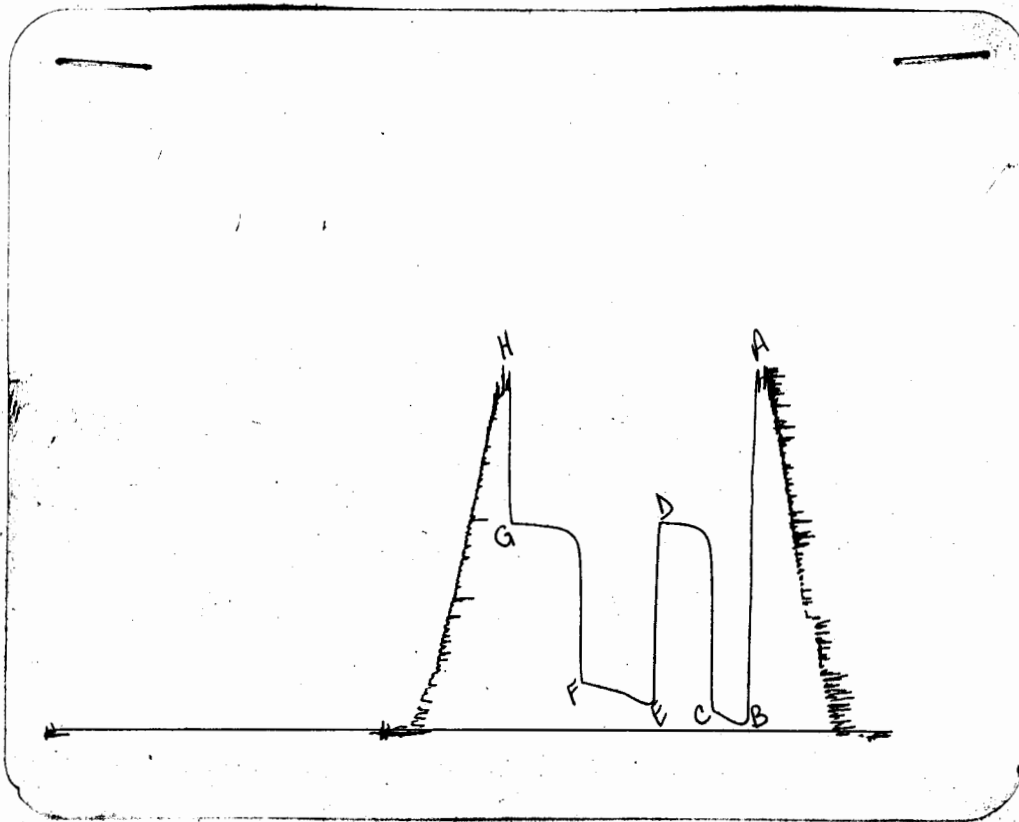
KCC
JUN 1 1994

BHT	118	°F	Gravity		°API @	0	°F	Corrected Gravity	0	°API		
RW	.568	@	30	°F	Chlorides	29000	ppm	Recovery	Chlorides	40000	ppm	System
(A) Initial Hydrostatic Mud	2040.1	PSI	AK1 Recorder No.	13308	Range	4700						
(B) First Initial Flow Pressure	52.3	PSI	@ (depth)	3713	w/Clock No.	31154						
(C) First Final Flow Pressure	151.2	PSI	AK1 Recorder No.	13850	Range	4325						
(D) Initial Shut-In Pressure	1180.3	PSI	@ (depth)	3731	w/Clock No.	30401						
(E) Second Initial Flow Pressure	161.3	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	293.6	PSI	Initial Shut-In	45								
(G) Final Shut-In Pressure	1170.8	PSI	Final Flow	60								
(H) Final Hydrostatic Mud	2020.1	PSI	Final Shut-In	60								

Our Representative MR CARL F GOFF

TOTAL PRICE \$ 400

Printcraft Printers • Hays, KS

DST# 2RECORDER# 13850

This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud.....	2037	2040.1 PSI
(B) First Initial Flow Pressure.....	48	52.3 PSI
(C) First Final Flow Pressure.....	144	151.2 PSI
(D) Initial Closed-In Pressure.....	1176	1180.3 PSI
(E) Second Initial Flow Pressure.....	156	161.3 PSI
(F) Second Final Flow Pressure.....	289	293.6 PSI
(G) Final Closed-In Pressure.....	1164	1170.8 PSI
(H) Final Hydrostatic Mud.....	2014	2020.1 PSI

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 2194

Well Name & No. <u>Martin #1</u>	Test No. <u>3</u>	Date <u>11/13/89</u>
Company <u>Staak Energy & Leasing</u>	Zone Tested <u>Arb.</u>	
Address <u>2514 Hancey Drive, Hays, Ks.</u>	Elevation <u>211718</u>	
Co. Rep./Geo. <u>Randall Kilian</u>	Cont. <u>Helberg Oil Co.</u>	Est. Ft. of Pay _____
Location: Sec. <u>24</u>	Twp. <u>11S</u>	Rge. <u>26W</u> Co. <u>Ellis</u> State <u>Ks.</u>

Interval Tested 3210-3235
 Anchor Length 25
 Top Packer Depth 3205
 Bottom Packer Depth 3210
 Total Depth 3235
 Wt. Pipe I.D. — 2.7 _____
 Drill Collar — 2.25 _____

Drill Pipe Size 4 1/2 FH
 Top Choke — 1" _____
 Bottom Choke — 3/4" _____
 Hole Size — 7 7/8" _____
 Rubber Size — 6 1/4" _____
 Ft. Run 542.91
 Ft. Run _____

KCC

JUN 1 1994

Mud Wt. 9.9 lb./gal. Viscosity 45 Filtrate 11.4
 Tool Open @ 11:43pm Initial Blow 1/2" blow building to bottom of bucket in 25 min.

Final Blow 1/2" blow building to off bottom of bucket in 36 min.

Recovery — Total Feet 625 Flush Tool? _____
 Rec. 625 Feet of muddy salt wtr.
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1548 @ 30 °F Chlorides 29,000 ppm Recovery Chlorides 40,000 ppm System

(A) Initial Hydrostatic Mud 2037 PSI AK1 Recorder No. 13308 Range 4200
 (B) First Initial Flow Pressure 48 PSI @ (depth) 3213 w/ Clock No. 31154
 (C) First Final Flow Pressure 144 PSI AK1 Recorder No. 13250 Range 4325
 (D) Initial Shut-In Pressure 1126 PSI @ (depth) 3231 w/ Clock No. 30401
 (E) Second Initial Flow Pressure 156 PSI Initial Opening 30 Test x 400
 (F) Second Final Flow Pressure 289 PSI Initial Shut-In 45 Jars _____
 (G) Final Shut-In Pressure 1164 PSI Final Flow 60 Safety Joint _____
 (H) Final Hydrostatic Mud 2014 PSI Final Shut-In 60 Straddle _____

Approved By Staak Energy & Leasing
7 C. Staak
 Our Representative Carl E. Hoff

Circ. Sub X
 Sampler _____
 Extra Packer _____
 Other _____

TOTAL PRICE \$ _____