

**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **RyHolland Felder Inc**

1612 Westgate CR Ste 120  
Brentwood TN 37027

ATTN: Ron Walblay

**16-1-24-Norton,KS**

**Retke # 2**

Start Date: 2010.11.19 @ 09:56:14

End Date: 2010.11.19 @ 15:53:29

Job Ticket #: 040963          DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

**ORIGINAL**

Printed: 2010.12.01 @ 20:05:58 Page 1

RyHolland Felder Inc

Retke # 2

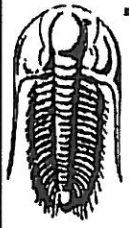
16-1-24-Norton,KS

DST # 1

G

LKC

2010.11.19



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

RyHolland Felder Inc

Retke # 2

1612 Westgate CR Ste 120  
Brentwood TN 37027

16-1-24-Norton,KS

Job Ticket: 040963

DST#: 1

ATTN: Ron Walblay

Test Start: 2010.11.19 @ 09:56:14

### GENERAL INFORMATION:

Formation: **G LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 11:33:59

Time Test Ended: 15:53:29

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3275.00 ft (KB) To 3315.00 ft (KB) (TVD)**

Total Depth: **3315.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2322.00 ft (KB)**

**2317.00 ft (CF)**

KB to GR/CF: **5.00 ft**

**Serial #: 8354**

**Inside**

Press@RunDepth: **118.43 psig @ 3278.00 ft (KB)**

Start Date: **2010.11.19**

End Date: **2010.11.19**

Capacity: **8000.00 psig**

Last Calib.: **2010.11.19**

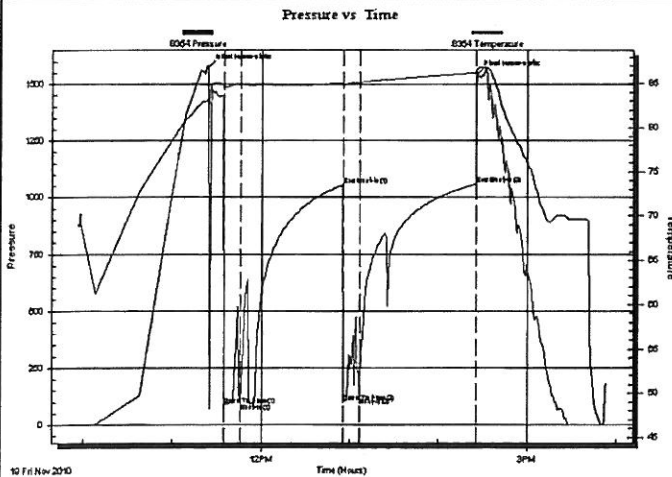
Start Time: **09:56:15**

End Time: **15:53:29**

Time On Btm: **2010.11.19 @ 11:23:29**

Time Off Btm: **2010.11.19 @ 14:26:14**

**TEST COMMENT:** IF-Slid tool 12' to bottom - lost 20' mud - 4 1/2" steady blow  
FF-Weak steady blow Plugging



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.79	83.19	Initial Hydro-static
11	86.80	84.33	Open To Flow (1)
23	94.38	84.86	Shut-In(1)
92	1055.84	85.08	End Shut-In(1)
93	96.95	84.90	Open To Flow (2)
104	118.43	84.98	Shut-In(2)
182	1058.34	86.23	End Shut-In(2)
183	1545.98	86.64	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
150.00	Mdy Wtr	0.97

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RyHolland Felder Inc

**Retke # 2**

1612 Westgate CR Ste 120  
Brentwood TN 37027

**16-1-24-Norton,KS**

Job Ticket: 040963

**DST#: 1**

ATTN: Ron Walblay

Test Start: 2010.11.19 @ 09:56:14

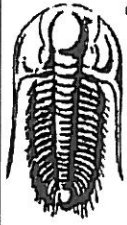
### Tool Information

Drill Pipe:	Length: 3137.00 ft	Diameter: 3.80 inches	Volume: 44.00 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
		<b>Total Volume:</b>	<b>44.61 bbl</b>	Tool Chased 12.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3275.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3248.00	
Shut In Tool	5.00			3253.00	
Hydraulic tool	5.00			3258.00	
Jars	5.00			3263.00	
Safety Joint	3.00			3266.00	
Packer	5.00			3271.00	28.00 Bottom Of Top Packer
Packer	4.00			3275.00	
Stubb	1.00			3276.00	
Perforations	1.00			3277.00	
Change Over Sub	1.00			3278.00	
Recorder	0.00	8354	Inside	3278.00	
Recorder	0.00	8520	Outside	3278.00	
Drill Pipe	31.00			3309.00	
Change Over Sub	1.00			3310.00	
Perforations	2.00			3312.00	
Bullnose	3.00			3315.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

RyHolland Felder Inc

Retke # 2

1612 Westgate CR Ste 120  
Brentwood TN 37027

16-1-24-Norton,KS

Job Ticket: 040963

DST#: 1

ATTN: Ron Walblay

Test Start: 2010.11.19 @ 09:56:14

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>2</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbbl
150.00	Mdy Wtr	0.975

Total Length: 150.00 ft

Total Volume: 0.975 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

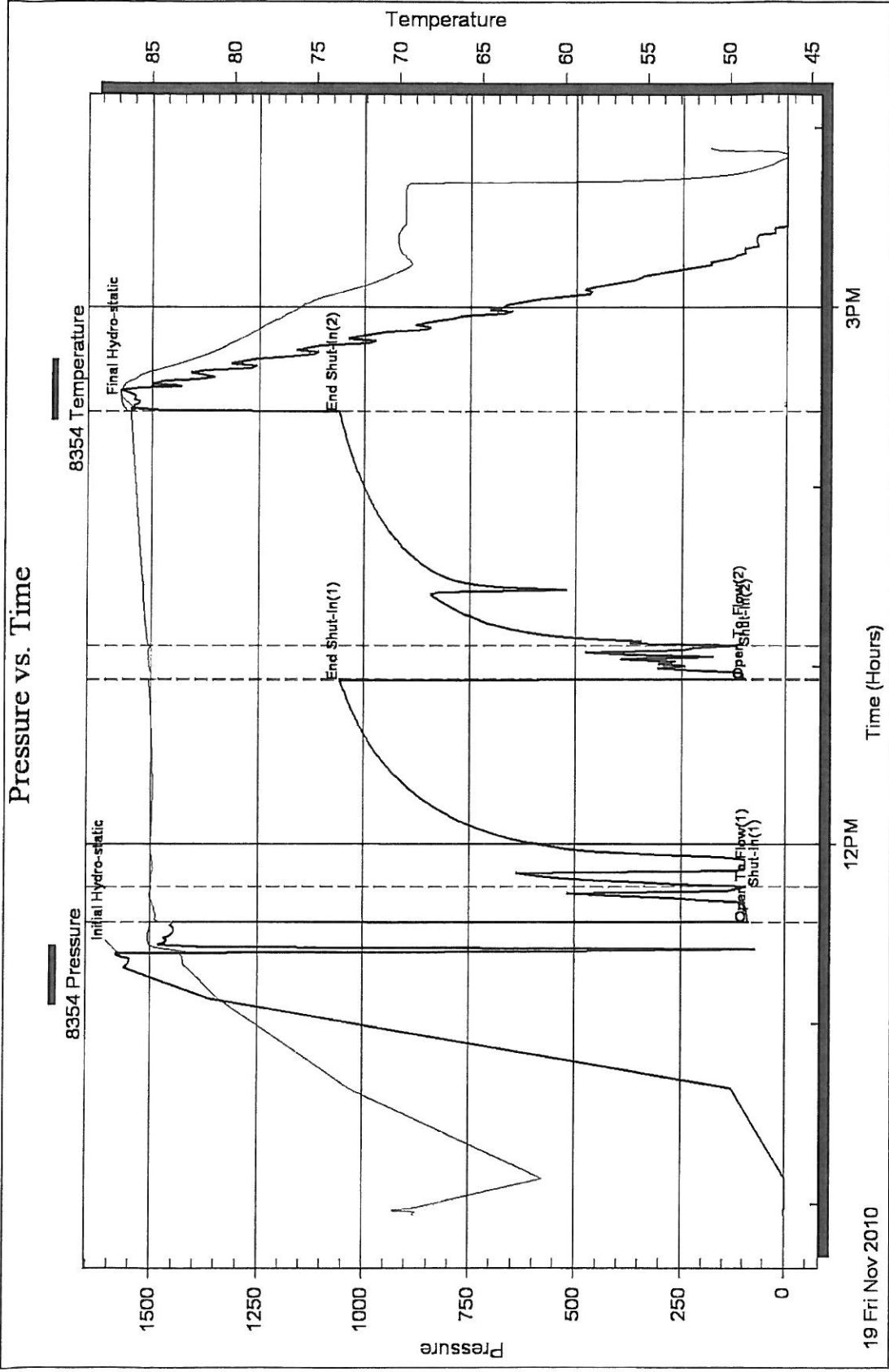
Inside

RyHolland Felder Inc

16-1-24-Norton,KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **RyHolland Felder Inc**

1612 Westgate CR Ste 120  
Brentwood TN 37027

ATTN: Ron Walblay

**16-1-24-Norton,KS**

**Retke # 2**

Start Date: 2010.11.19 @ 23:56:22

End Date: 2010.11.20 @ 07:08:52

Job Ticket #: 040964      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

RyHolland Felder Inc  
1612 Westgate CR Ste 120  
Brentwood TN 37027  
ATTN: Ron Walblay

**Retke # 2**  
**16-1-24-Norton,KS**  
Job Ticket: 040964      DST#: 2  
Test Start: 2010.11.19 @ 23:56:22

**Tool Information**

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 45.40 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3315.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3288.00	
Shut In Tool	5.00			3293.00	
Hydraulic tool	5.00			3298.00	
Jars	5.00			3303.00	
Safety Joint	3.00			3306.00	
Packer	5.00			3311.00	28.00      Bottom Of Top Packer
Packer	4.00			3315.00	
Stubb	1.00			3316.00	
Perforations	1.00			3317.00	
Change Over Sub	1.00			3318.00	
Recorder	0.00	8354	Inside	3318.00	
Recorder	0.00	8520	Outside	3318.00	
Drill Pipe	31.00			3349.00	
Change Over Sub	1.00			3350.00	
Perforations	2.00			3352.00	
Bullnose	3.00			3355.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

RyHolland Felder Inc  
1612 Westgate CR Ste 120  
Brentwood TN 37027

**Retke # 2**  
**16-1-24-Norton,KS**  
Job Ticket: 040964      **DST#: 2**  
Test Start: 2010.11.19 @ 23:56:22

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 78000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1700.00 ppm		
Filter Cake: inches		

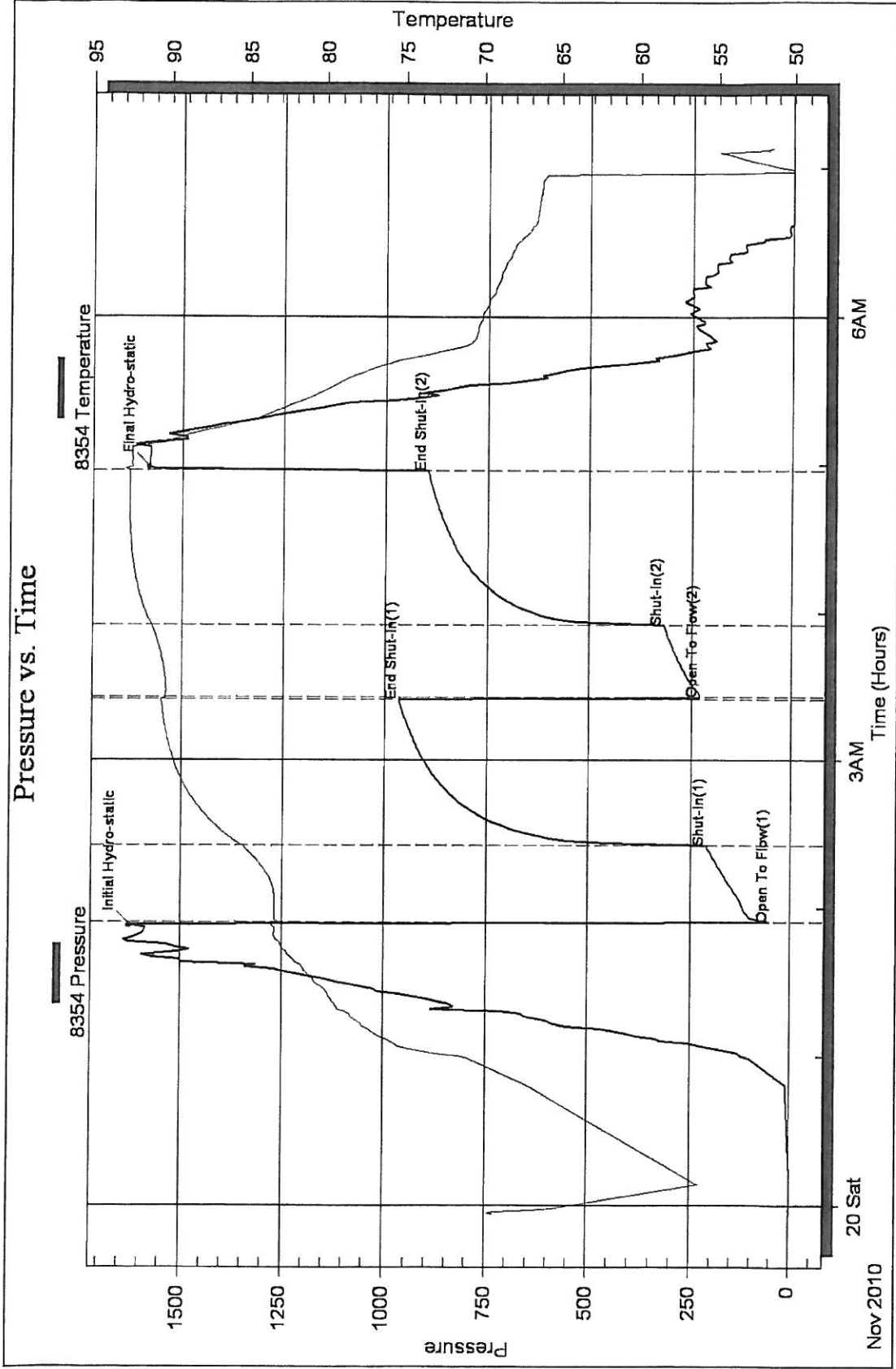
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
310.00	Mdy Wtr	3.219
60.00	MCGsyO 5%g 65%o 30%m	0.842
60.00	MCGsyO 10%g 70%o 20%m	0.842
188.00	CGsyO 10%g 90%o	2.637
0.00	120 GIP	0.000

Total Length: 618.00 ft      Total Volume: 7.540 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Rw .06 @ 72 = 78000ppm

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **RyHolland Felder Inc**

1612 Westgate CR Ste 120  
Brentwood TN 37027

ATTN: Ron Walblay

**16-1-24-Norton,KS**

**Retke # 2**

Start Date: 2010.11.20 @ 13:50:18

End Date: 2010.11.20 @ 19:25:48

Job Ticket #: 040965          DST #: 3

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

RyHolland Felder Inc  
1612 Westgate CR Ste 120  
Brentwood TN 37027  
ATTN: Ron Walblay

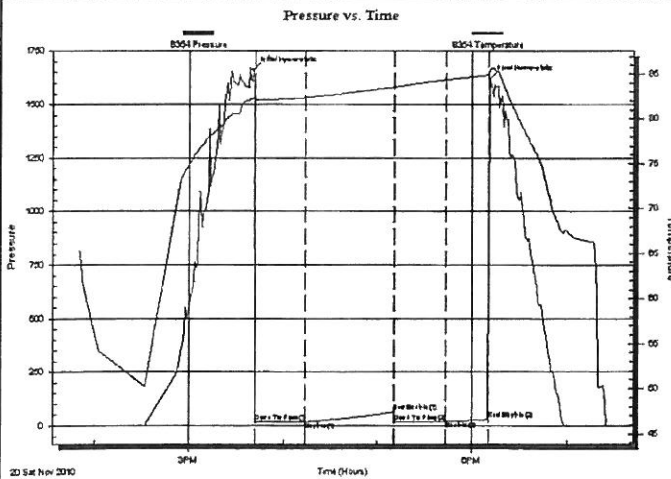
**Retke # 2**  
**16-1-24-Norton,KS**  
Job Ticket: 040965      DST#: 3  
Test Start: 2010.11.20 @ 13:50:18

### GENERAL INFORMATION:

Formation:      J      LK  
Deviated:      No      Whipstock:      ft (KB)  
Time Tool Opened: 15:41:48  
Time Test Ended: 19:25:48  
Test Type:      Conventional Bottom Hole  
Tester:      Dan Bangle  
Unit No:      38  
Interval:      3353.00 ft (KB) To      3380.00 ft (KB) (TVD)  
Reference Elevations:      2322.00 ft (KB)  
Total Depth:      3380.00 ft (KB) (TVD)      2317.00 ft (CF)  
Hole Diameter:      7.88 inches      Hole Condition:      Good      KB to GR/CF:      5.00 ft

**Serial #: 8354      Inside**  
Press@RunDepth:      19.67 psig @      3354.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2010.11.20      End Date:      2010.11.20      Last Calib.:      2010.11.20  
Start Time:      13:50:19      End Time:      19:25:48      Time On Btm:      2010.11.20 @ 15:40:18  
Time Off Btm:      2010.11.20 @ 18:11:18

TEST COMMENT: IF-Weak died in 12 min  
FF-No blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.48	82.32	Initial Hydro-static
2	16.37	82.04	Open To Flow (1)
34	17.92	82.38	Shut-In(1)
91	63.62	83.54	End Shut-In(1)
91	18.77	83.52	Open To Flow (2)
124	19.67	84.36	Shut-In(2)
151	28.69	84.89	End Shut-In(2)
151	1620.14	85.42	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig Mud	0.02

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RyHolland Felder Inc

**Retke # 2**

1612 Westgate CR Ste 120  
Brentwood TN 37027

**16-1-24-Norton,KS**

Job Ticket: 040965

**DST#: 3**

ATTN: Ron Walblay

Test Start: 2010.11.20 @ 13:50:18

### Tool Information

Drill Pipe:	Length: 3226.00 ft	Diameter: 3.80 inches	Volume: 45.25 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
		<u>Total Volume:</u>	<u>45.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3353.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3326.00	
Shut In Tool	5.00			3331.00	
Hydraulic tool	5.00			3336.00	
Jars	5.00			3341.00	
Safety Joint	3.00			3344.00	
Packer	5.00			3349.00	28.00 Bottom Of Top Packer
Packer	4.00			3353.00	
Stubb	1.00			3354.00	
Recorder	0.00	8354	Inside	3354.00	
Recorder	0.00	8520	Outside	3354.00	
Perforations	23.00			3377.00	
Bullnose	3.00			3380.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

RyHolland Felder Inc

**Retke # 2**

1612 Westgate CR Ste 120  
Brentwood TN 37027

**16-1-24-Norton,KS**

Job Ticket: 040965

**DST#: 3**

ATTN: Ron Walblay

Test Start: 2010.11.20 @ 13:50:18

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
5.00	Drig Mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

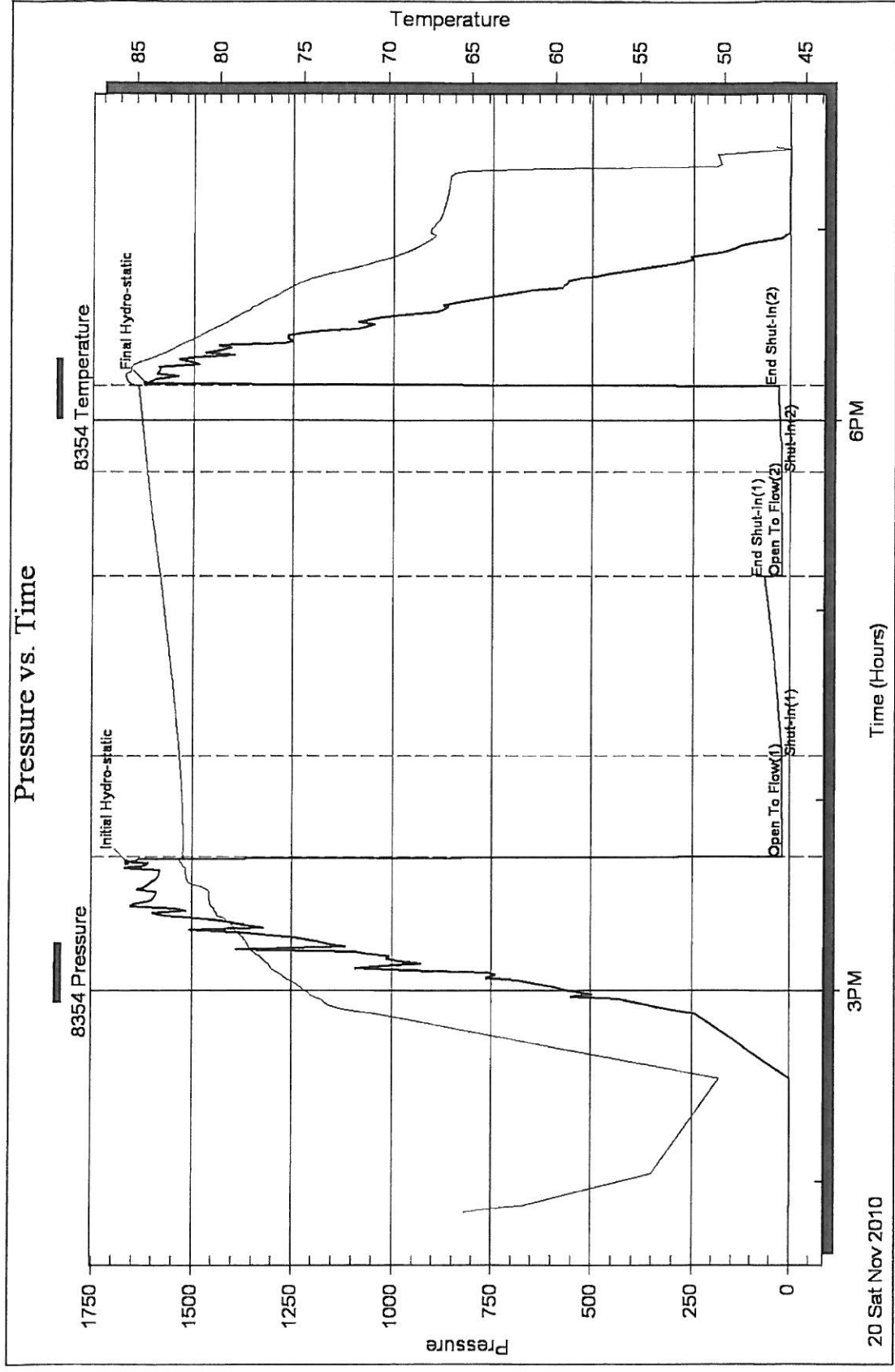
Serial #: 8354

Inside

RyHolland Felder Inc

16-1-24-Norton,KS

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **RyHolland Felder Inc**

1612 Westgate CR Ste 120  
Brentwood TN 37027

ATTN: Ron Walblay

**16-1-24-Norton,KS**

**Retke # 2**

Start Date: 2010.11.20 @ 22:58:55

End Date: 2010.11.21 @ 06:17:40

Job Ticket #: 040966      DST #: 4

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

RyHolland Felder Inc

Retke # 2

1612 Westgate CR Ste 120  
Brentwood TN 37027

16-1-24-Norton,KS

Job Ticket: 040966

DST#: 4

ATTN: Ron Walblay

Test Start: 2010.11.20 @ 22:58:55

### Tool Information

Drill Pipe:	Length: 3227.00 ft	Diameter: 3.80 inches	Volume: 45.27 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
			<b>Total Volume: 45.88 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3378.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3351.00	
Shut In Tool	5.00			3356.00	
Hydraulic tool	5.00			3361.00	
Jars	5.00			3366.00	
Safety Joint	3.00			3369.00	
Packer	5.00			3374.00	28.00 Bottom Of Top Packer
Packer	4.00			3378.00	
Slubb	1.00			3379.00	
Recorder	0.00	8354	Inside	3379.00	
Recorder	0.00	8520	Outside	3379.00	
Perforations	23.00			3402.00	
Bullnose	3.00			3405.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

RyHolland Felder Inc

**Retke # 2**

1612 Westgate CR Ste 120  
Brentwood TN 37027

**16-1-24-Norton,KS**

Job Ticket: 040966

**DST#: 4**

ATTN: Ron Walblay

Test Start: 2010.11.20 @ 22:58:55

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Mdy Wtr	3.219

Total Length: 310.00 ft      Total Volume: 3.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .15 @ 60 = 60000ppm

Serial #: 8354

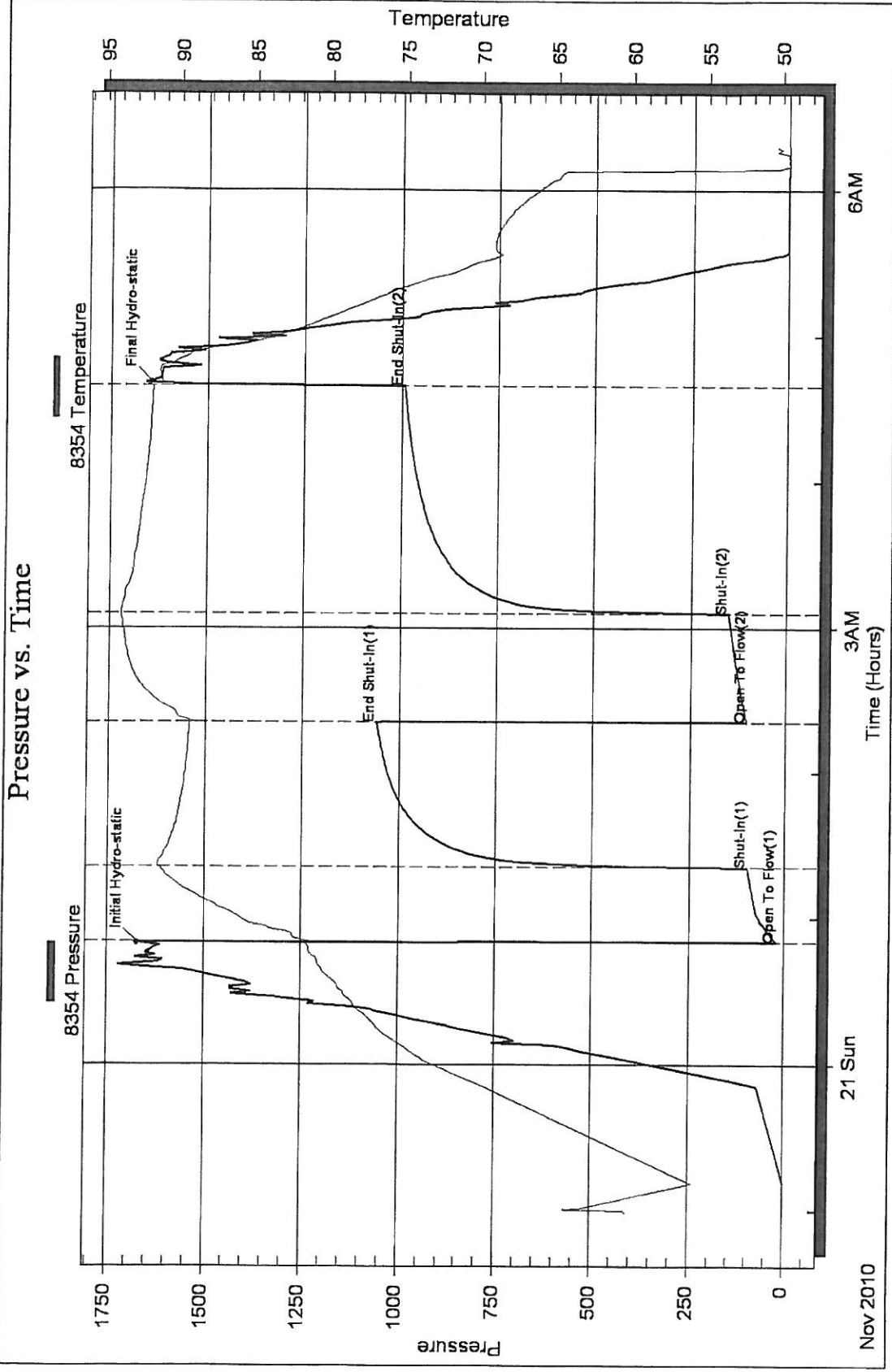
Inside

RyHolland Felder Inc

16-1-24-Norton, KS

DST Test Number: 4

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

NOV 22 2010

## Test Ticket

NO. 040963

Well Name & No. Retke #2 Test No. 1 Date 11-19-10  
 Company Ry Holland Felder Inc Elevation 2322 KB 2317 GL  
 Address 1612 Westgate CR Ste 120 Brentwood TN 37027  
 Co. Rep / Geo. Clayton Erickson Rig WW #10  
 Location: Sec. 16 Twp. 1 Rge. 24 Co. Norton State Ks

Interval Tested 3275 — 3315 Zone Tested G LKC  
 Anchor Length 40 Drill Pipe Run 3137 Mud Wt. 9  
 Top Packer Depth 3270 Drill Collars Run 124 Vis 55  
 Bottom Packer Depth 3275 Wt. Pipe Run — WL 6  
 Total Depth 3315 Chlorides 1700 ppm System LCM 1/2#

Blow Description I.F. Slid Tool 12' to bottom - lost 20' mud -  
4 1/2" steady blow  
F.F. Weak steady blow

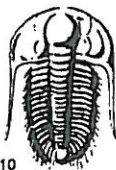
*Plugging*

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>ndy WTR</u>				
Rec	Feet of	%gas	%oil	%water	%mud
F Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
F Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(U) Initial Hydrostatic <u>1574</u>	<input type="checkbox"/> Test <u>125</u>	T-On Location <u>08:45</u>
(B) First Initial Flow <u>86</u>	<input checked="" type="checkbox"/> Jars <u>X 250</u>	T-Started <u>09:56</u>
((C) First Final Flow <u>94</u>	<input checked="" type="checkbox"/> Safety Joint <u>X 75</u>	T-Open <u>11:25</u>
(D) Initial Shut-In <u><del>1055</del></u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:25</u>
(E) Second Initial Flow <u>946</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:53</u>
(F) Second Final Flow <u><del>118</del></u>	<input checked="" type="checkbox"/> Mileage <u>80 RT 100</u>	Comments _____
(G) Final Shut-In <u>1058</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1545</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>8</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1550</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1550</u>	

Approved By \_\_\_\_\_ Our Representative Dan Baugle  
 TriLOBite Testing Inc. shall not be liable for damaged 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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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NOV 22 2010

## Test Ticket

NO. 040965

BY: \_\_\_\_\_

Well Name & No. Ret Ke #2 Test No. 3 Date 11-20-10  
 Company RyHolland Felder Inc Elevation 2322 KB 2317 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Clayton Erickson Rig WW#10  
 Location: Sec. 16 Twp. 1 Rge. 24 Co. Norton State Ks

Interval Tested 3353 — 3380 Zone Tested J LKC  
 Anchor Length 27 Drill Pipe Run 3226 Mud Wt. 9  
 Top Packer Depth 3348 Drill Collars Run 124 Vis 5.5  
 Bottom Packer Depth 3353 Wt. Pipe Run — WL 6  
 Total Depth 3380 Chlorides 1700 ppm System LCM 1/2#  
 Blow Description I.F. Weak - died in 12 min.

E.F. No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Dalg Mud</u>				
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

Rec Total 5 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1662  Test 1125' T-On Location \_\_\_\_\_  
 (B) First Initial Flow 16  Jars X 250 T-Started 12:00  
 (C) First Final Flow 17  Safety Joint X 75' T-Open 13:50  
 (D) Initial Shut-In 63  Circ Sub \_\_\_\_\_ T-Pulled 16:20  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 19:25  
 (F) Second Final Flow 19  Mileage \_\_\_\_\_  
 (G) Final Shut-In 28  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1620  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 8  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1450'  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1450'

Approved By \_\_\_\_\_

Our Representative Dan Bangle

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NOV 22 2010

## Test Ticket

NO. 040966

4/10

BY:

Well Name & No. Retke #2 Test No. 4 Date 11-20-10  
 Company Ry Holland Felder Inc Elevation 2322 KB 2317 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Clayton Erickson Rig WW#10  
 Location: Sec. 16 Twp. 1 Rge. 24 Co. Norton State Ks

Interval Tested 3378 — 3405 Zone Tested K LKC  
 Anchor Length 27 Drill Pipe Run 3227 Mud Wt. 9.2  
 Top Packer Depth 3373 Drill Collars Run 124 Vis 60  
 Bottom Packer Depth 3378 Wt. Pipe Run — WL 6  
 Total Depth 3405 Chlorides 1700 ppm System LCM 1/2 #

Blow Description F.F. Weak - building to 14"  
151 - Weak surface blow - died in 15 min  
F.F. Weak - building to 12"  
FS1 - Weak - surface blow - died in 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>Mdy WTR</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 310 BHT 91 Gravity \_\_\_\_\_ API RW 1.15 @ 60° F Chlorides 60000 ppm  
 (A) Initial Hydrostatic 1672  Test 1125 T-On Location 22:10  
 (B) First Initial Flow 19  Jars X 250 T-Started 22:58  
 (C) First Final Flow 97  Safety Joint X 75' T-Open 00:50  
 (D) Initial Shut-In 1058  Circ Sub \_\_\_\_\_ T-Pulled 04:35  
 (E) Second Initial Flow 101  Hourly Standby \_\_\_\_\_ T-Out 06:17  
 (F) Second Final Flow 152  Mileage 80RT 100' Comments \_\_\_\_\_  
 (G) Final Shut-In 992  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1645  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 90 Sub Total Ø  
 Total 1550  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1550

Approved By \_\_\_\_\_ Our Representative Don Kangle

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