



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources  
2020 N Tyler Ste 106  
Wichita, KS 67212  
ATTN: Kent Roberts

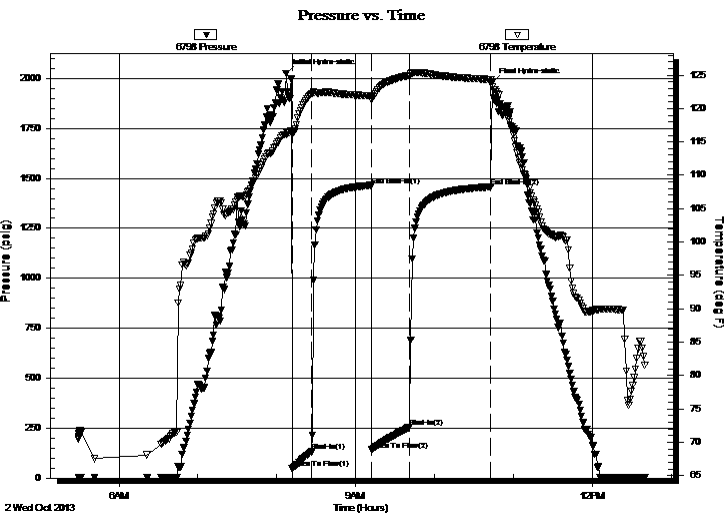
**34-31S-13W Barber**  
**3-34 Catlin**  
Job Ticket: 52504      **DST#: 1**  
Test Start: 2013.10.02 @ 05:29:13

## GENERAL INFORMATION:

Formation: **Drum**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:11:43  
Time Test Ended: 12:39:58  
Interval: **3987.00 ft (KB) To 4017.00 ft (KB) (TVD)**  
Total Depth: 4017.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1617.00 ft (KB)  
1609.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6798      Inside**  
Press @ Run Depth: 254.93 psig @ 3988.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.02      End Date: 2013.10.02      Last Calib.: 2013.10.02  
Start Time: 05:29:14      End Time: 12:39:58      Time On Btm: 2013.10.02 @ 08:06:58  
Time Off Btm: 2013.10.02 @ 10:43:58

**TEST COMMENT:** IF: Strong Blow , BOB in 6 minutes  
IS: Weak Surface Blow Back  
FF: Fair Blow , BOB in 12 minutes  
FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.62	116.06	Initial Hydro-static
5	46.88	116.26	Open To Flow (1)
20	132.20	122.22	Shut-In(1)
65	1465.07	121.90	End Shut-In(1)
66	142.14	121.30	Open To Flow (2)
95	254.93	124.94	Shut-In(2)
156	1457.86	124.33	End Shut-In(2)
157	1977.63	123.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
368.00	Water	3.23
124.00	MCW 10%M 90%W	1.74
62.00	OMCW 12%O 30%M 58%W	0.87

## Gas Rates

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



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**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52504

**DST#: 1**

ATTN: Kent Roberts

Test Start: 2013.10.02 @ 05:29:13

## 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: 130000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
368.00	Water	3.231
124.00	MCW 10%M 90%W	1.739
62.00	OMCW 12%O 30%M 58%W	0.870

Total Length: 554.00 ft      Total Volume: 5.840 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

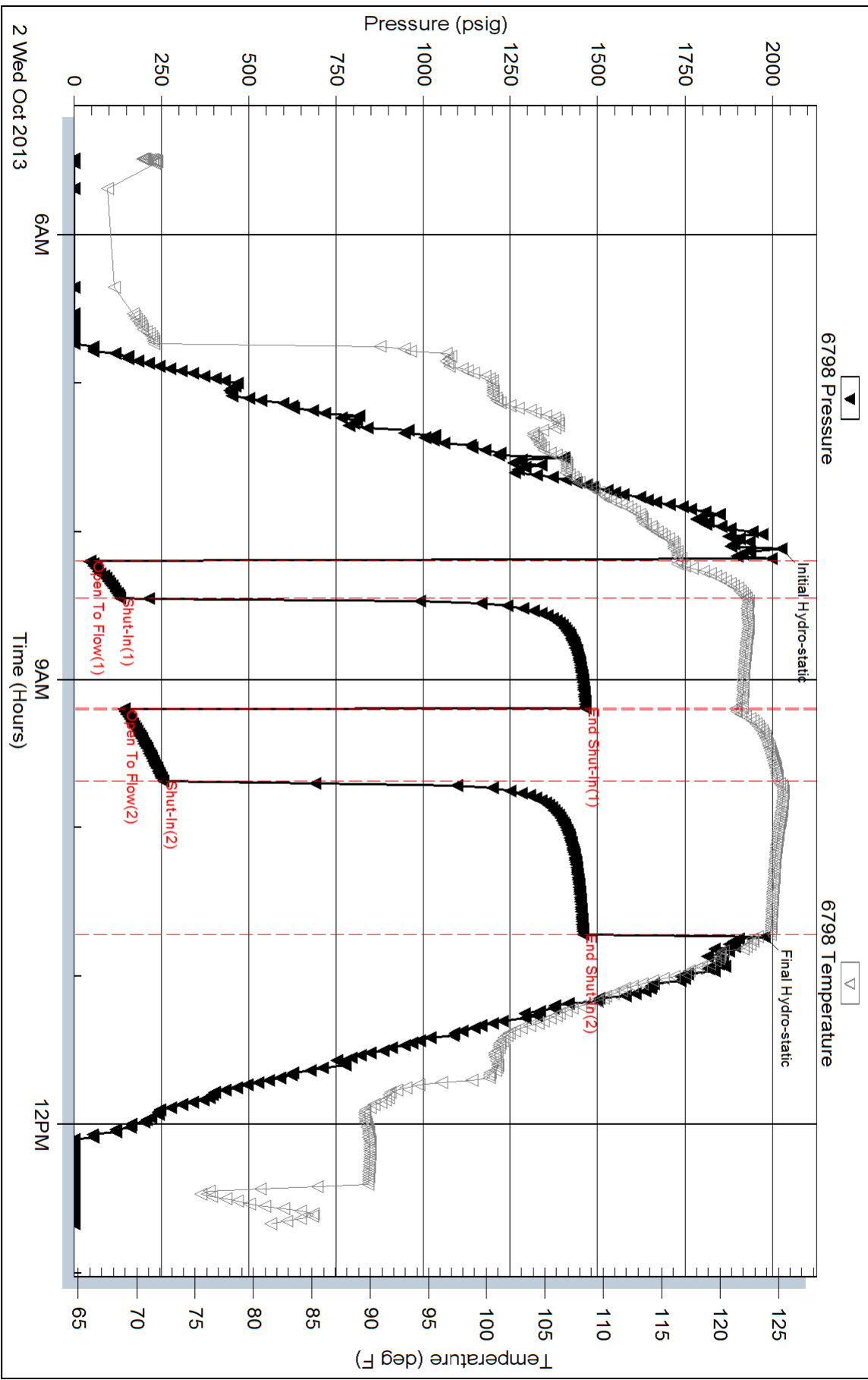
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .06 @ 74 degrees

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources  
 2020 N Tyler Ste 106  
 Wichita, KS 67212  
 ATTN: Kent Roberts

**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52505      **DST#: 2**  
 Test Start: 2013.10.03 @ 00:31:25

## GENERAL INFORMATION:

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:33:10  
 Time Test Ended: 08:16:25  
 Interval: **4096.00 ft (KB) To 4120.00 ft (KB) (TVD)**  
 Total Depth: 4120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 45  
 Reference Elevations: 1617.00 ft (KB)  
 1609.00 ft (CF)  
 KB to GR/CF: 8.00 ft

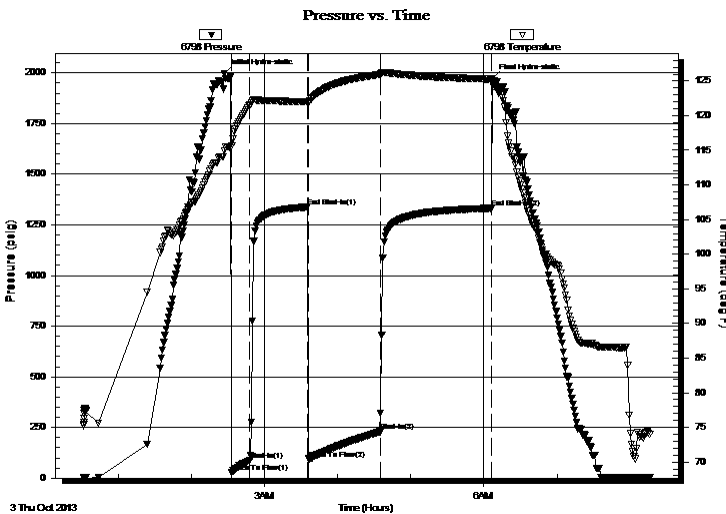
## Serial #: 6798

Inside

Press @ Run Depth: 229.38 psig @ 4097.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.03      End Date: 2013.10.03      Last Calib.: 2013.10.03  
 Start Time: 00:31:26      End Time: 08:16:25      Time On Btm: 2013.10.03 @ 02:27:10  
 Time Off Btm: 2013.10.03 @ 06:07:10

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes  
 IS: 1/4 inch Blow Back  
 FF: STrong Blow , BOB in 3 minutes  
 FS: Blow Back Built to 5 inches

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.42	114.92	Initial Hydro-static
6	28.25	115.62	Open To Flow (1)
21	87.03	121.51	Shut-In(1)
68	1338.53	122.03	End Shut-In(1)
69	95.19	121.79	Open To Flow (2)
128	229.38	125.93	Shut-In(2)
219	1332.35	125.26	End Shut-In(2)
220	1972.61	124.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2192 GIP	0.00
308.00	Water	2.39
62.00	OMCW 2%O 8%M 90%W	0.87
104.00	GWMCO 20%G 12%W 14%M 54%O	1.46

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52505

**DST#: 2**

ATTN: Kent Roberts

Test Start: 2013.10.03 @ 00:31:25

## 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: 110000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	2192 GIP	0.000
308.00	Water	2.389
62.00	OMCW 2%O 8%M 90%W	0.870
104.00	GWMCO 20%G 12%W 14%M 54%O	1.459

Total Length: 474.00 ft      Total Volume: 4.718 bbl

Num Fluid Samples: 0

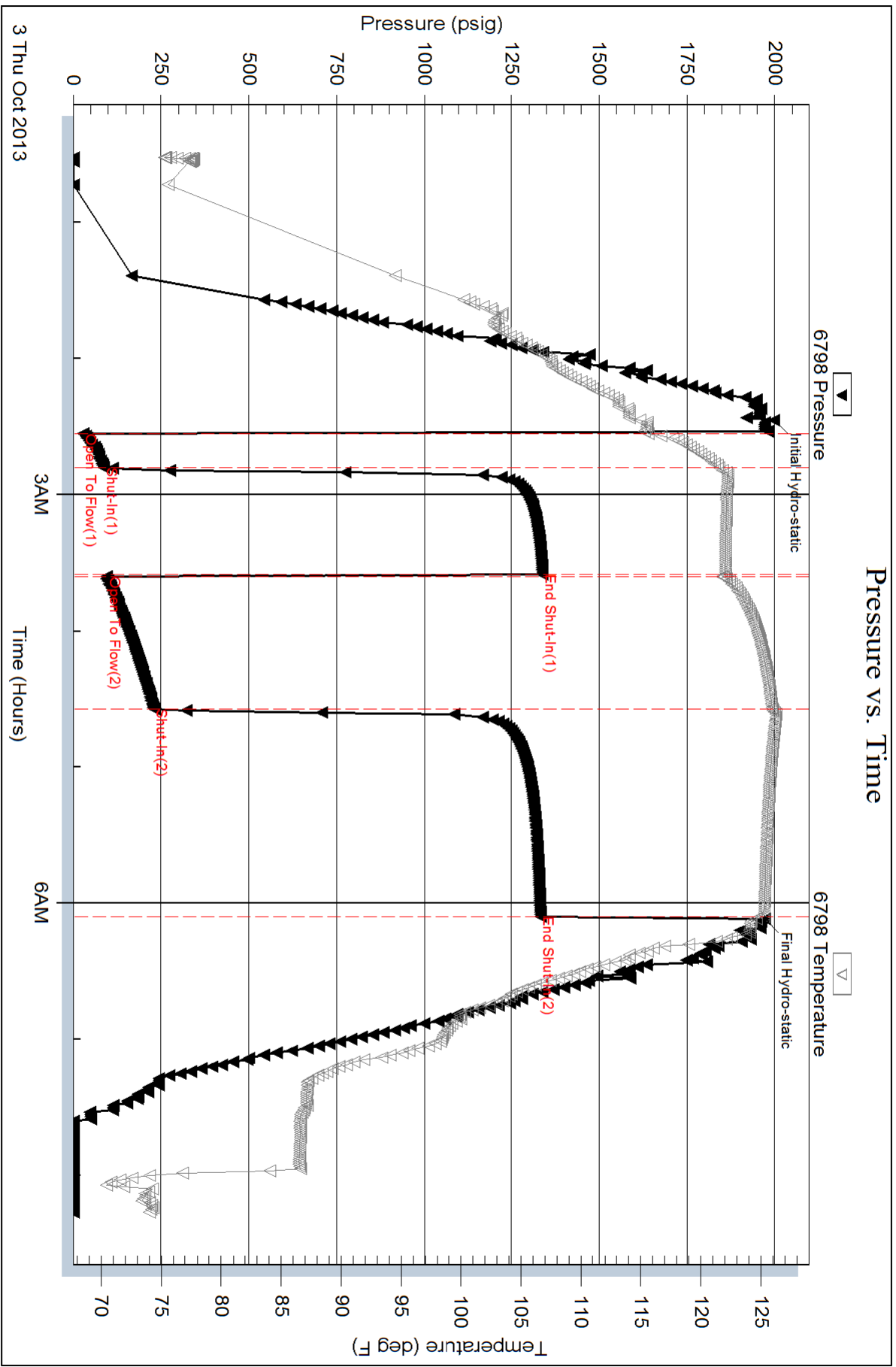
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw was .08 @ 66 degrees





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# DRILL STEM TEST REPORT

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2020 N Tyler Ste 106  
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ATTN: Kent Roberts

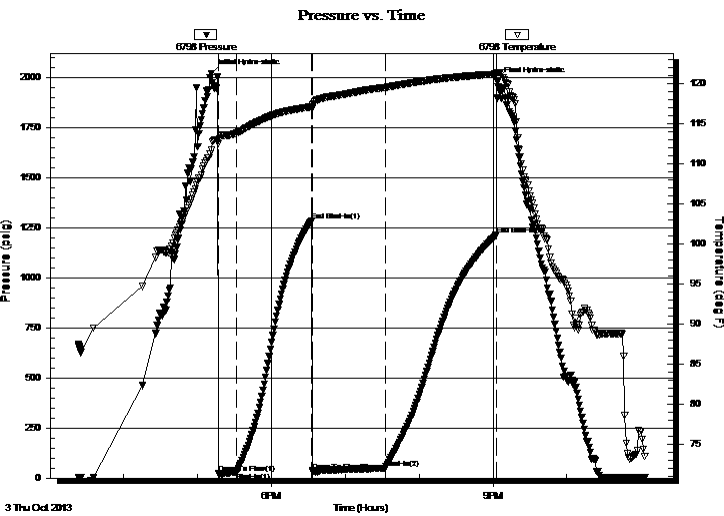
**34-31S-13W Barber**  
**3-34 Catlin**  
Job Ticket: 52506      **DST#: 3**  
Test Start: 2013.10.03 @ 15:23:23

## GENERAL INFORMATION:

Formation: **Hertha**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 17:16:53      Tester: Leal Cason  
Time Test Ended: 23:03:08      Unit No: 45  
**Interval: 4132.00 ft (KB) To 4160.00 ft (KB) (TVD)**      Reference Elevations: 1617.00 ft (KB)  
Total Depth: 4160.00 ft (KB) (TVD)      1609.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

**Serial #: 6798      Inside**  
Press @ Run Depth: 50.00 psig @ 4133.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.03      End Date: 2013.10.03      Last Calib.: 2013.10.03  
Start Time: 15:23:24      End Time: 23:03:08      Time On Btm: 2013.10.03 @ 17:11:08  
Time Off Btm: 2013.10.03 @ 21:03:23

**TEST COMMENT:** IF: Fair Blow , BOB in 8 minutes  
IS: No Blow Back  
FF: Strong Blow , BOB in 90 seconds  
FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.68	111.73	Initial Hydro-static
6	23.81	112.54	Open To Flow (1)
21	30.47	113.88	Shut-In(1)
82	1284.28	117.16	End Shut-In(1)
83	35.21	117.36	Open To Flow (2)
142	50.00	119.57	Shut-In(2)
232	1215.73	121.24	End Shut-In(2)
233	1979.21	121.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	350 GIP	0.00
70.00	GMWCO 20%G 14%M 28%W 38%O	0.34

\* Recovery from multiple tests

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52506

**DST#: 3**

ATTN: Kent Roberts

Test Start: 2013.10.03 @ 15:23:23

## 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:

95000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	350 GIP	0.000
70.00	GMWCO 20%G 14%M 28%W 38%O	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

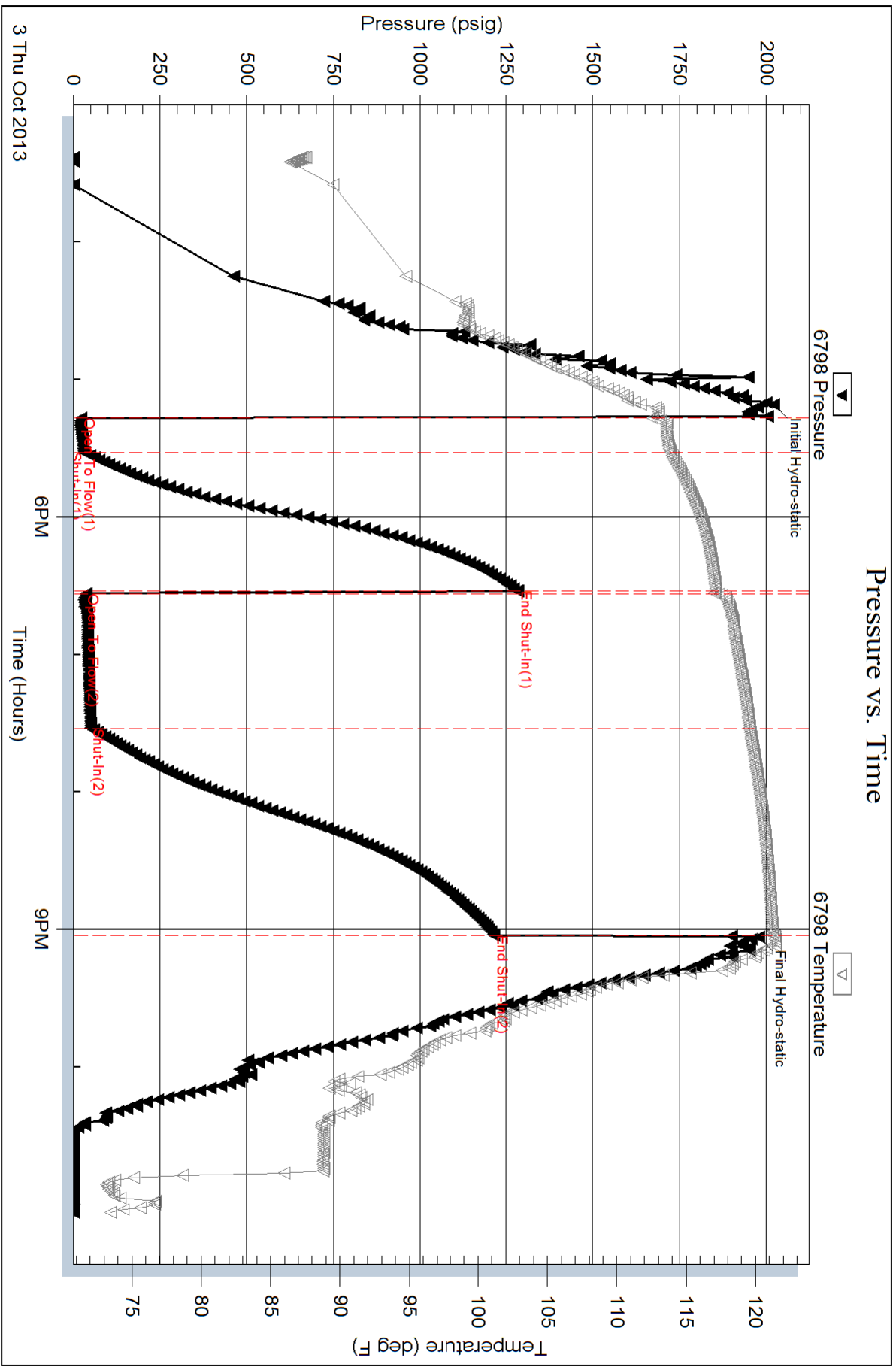
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .07 @ 84 degrees



### Pressure vs. Time





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Roberts Resources  
 2020 N Tyler Ste 106  
 Wichita, KS 67212  
 ATTN: Kent Roberts

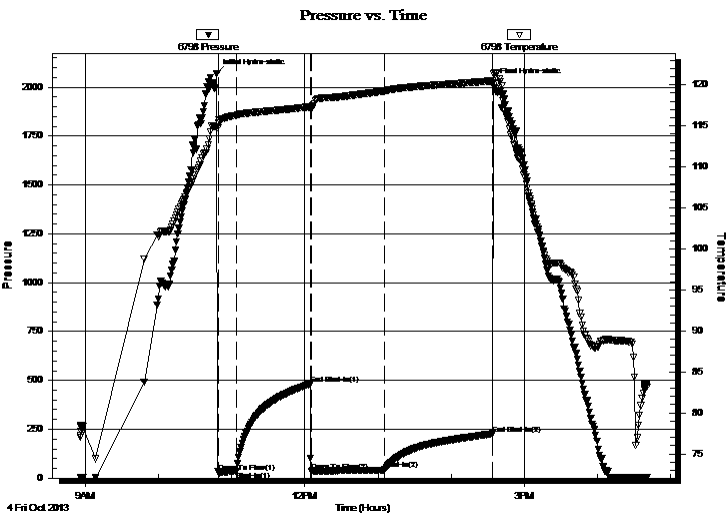
**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52507 **DST#: 4**  
 Test Start: 2013.10.04 @ 08:55:59

## GENERAL INFORMATION:

Formation: **Massey**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:48:59  
 Time Test Ended: 16:40:36  
 Interval: **4216.00 ft (KB) To 4254.00 ft (KB) (TVD)**  
 Total Depth: 4254.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 45  
 Reference Elevations: 1617.00 ft (KB)  
 1609.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6798** **Inside**  
 Press @ Run Depth: 46.72 psig @ 4217.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.04 End Date: 2013.10.04 Last Calib.: 2013.10.04  
 Start Time: 08:56:00 End Time: 16:40:36 Time On Btm: 2013.10.04 @ 10:47:44  
 Time Off Btm: 2013.10.04 @ 14:34:44

**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 45 seconds  
 FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.12	114.89	Initial Hydro-static
2	28.32	115.41	Open To Flow (1)
16	35.48	116.29	Shut-In(1)
77	482.44	117.34	End Shut-In(1)
78	34.15	117.16	Open To Flow (2)
138	46.72	119.26	Shut-In(2)
227	226.84	120.50	End Shut-In(2)
227	2022.18	121.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 2356	0.00
65.00	OCM 15%O 85%M	0.32

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52507

**DST#: 4**

ATTN: Kent Roberts

Test Start: 2013.10.04 @ 08:55:59

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP 2356	0.000
65.00	OCM 15%O 85%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

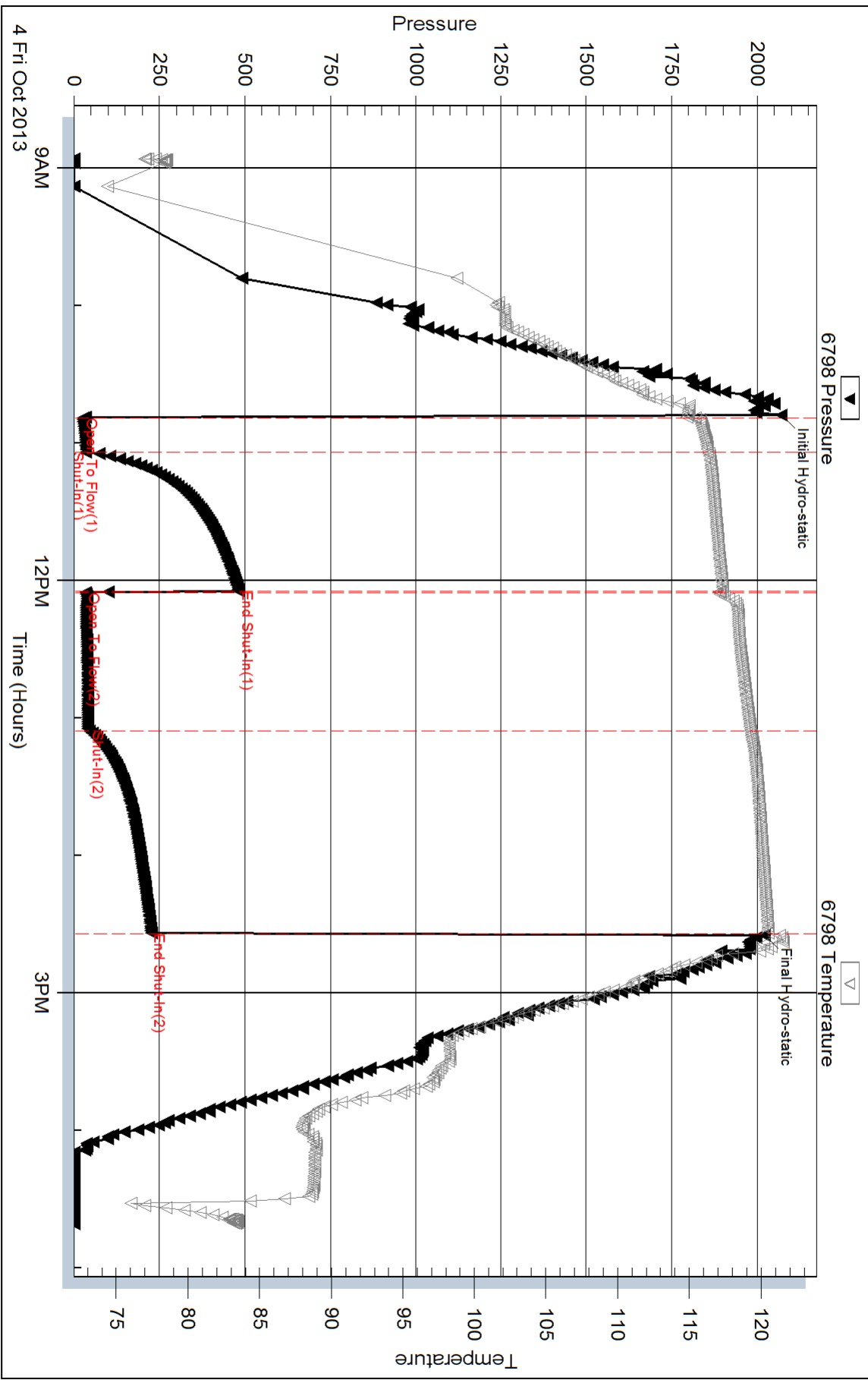
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources  
2020 N Tyler Ste 106  
Wichita, KS 67212  
ATTN: Kent Roberts

**34-31S-13W Barber**  
**3-34 Catlin**  
Job Ticket: 52508      **DST#: 5**  
Test Start: 2013.10.05 @ 00:43:53

## GENERAL INFORMATION:

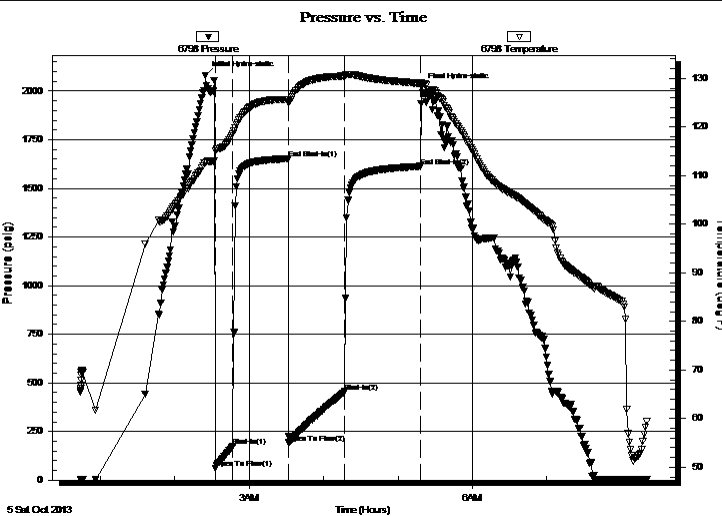
Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:32:38  
Time Test Ended: 08:20:38  
Interval: **4248.00 ft (KB) To 4282.00 ft (KB) (TVD)**  
Total Depth: 4282.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 1617.00 ft (KB)  
1609.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 45

## Serial #: 6798

Inside

Press @ Run Depth: 454.35 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.10.05 End Date: 2013.10.05 Last Calib.: 2013.10.05  
Start Time: 00:43:54 End Time: 08:20:38 Time On Btm: 2013.10.05 @ 02:24:38  
Time Off Btm: 2013.10.05 @ 05:18:53

**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds  
IS: Weak Surface Blow Back  
FF: Strong Blow , BOB in 4 minutes  
FSI: Blow Back Built to BOB in 6 minutes, GTS 16 minutes into Shut In



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.24	112.65	Initial Hydro-static
8	61.48	115.17	Open To Flow (1)
22	172.93	118.60	Shut-In(1)
67	1652.73	125.67	End Shut-In(1)
68	191.53	125.04	Open To Flow (2)
113	454.35	130.52	Shut-In(2)
174	1613.22	128.99	End Shut-In(2)
175	2020.27	129.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3327 GIP	0.00
716.00	GSY Water 10%G 90%W	8.11
122.00	GMCW 10%G 40%M 50%W	1.71
92.00	GWCM 10%G 40%W 50%M	1.29

## Gas Rates

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

\* Recovery from multiple tests



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**DRILL STEM TEST REPORT**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52508

**DST#: 5**

ATTN: Kent Roberts

Test Start: 2013.10.05 @ 00:43:53

**GENERAL INFORMATION:**

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:32:38

Time Test Ended: 08:20:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 4248.00 ft (KB) To 4282.00 ft (KB) (TVD)**

Reference Elevations: 1617.00 ft (KB)

Total Depth: 4282.00 ft (KB) (TVD)

1609.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.05

End Date:

2013.10.05

Last Calib.:

2013.10.05

Start Time: 00:43:54

End Time:

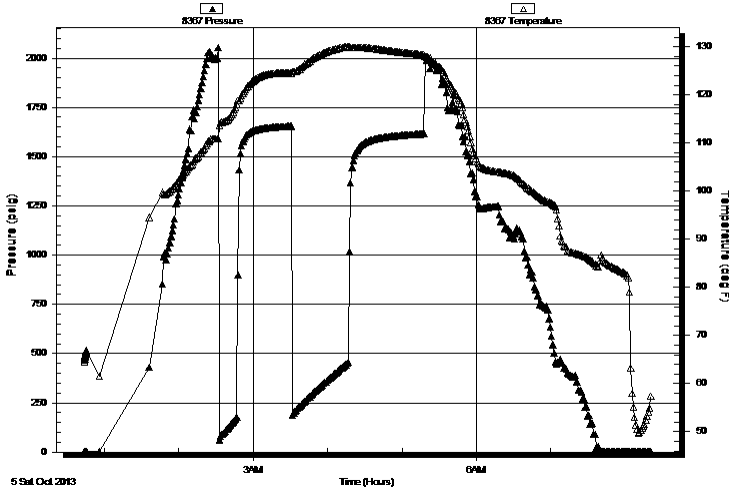
08:20:38

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong Blow, BOB in 45 seconds  
IS: Weak Surface Blow Back  
FF: Strong Blow, BOB in 4 minutes  
FS: Blow Back Built to BOB in 6 minutes, GTS 16 minutes into Shut In

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	3327 GIP	0.00
716.00	GSY Water 10%G 90%W	8.11
122.00	GMCW 10%G 40%M 50%W	1.71
92.00	GWCM 10%G 40%W 50%M	1.29

\* Recovery from multiple tests

**Gas Rates**

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52508

**DST#: 5**

ATTN: Kent Roberts

Test Start: 2013.10.05 @ 00:43:53

## 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:

65000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3327 GIP	0.000
716.00	GSY Water 10%G 90%W	8.112
122.00	GMCW 10%G 40%M 50%W	1.711
92.00	GWCM 10%G 40%W 50%M	1.291

Total Length: 930.00 ft      Total Volume: 11.114 bbl

Num Fluid Samples: 0

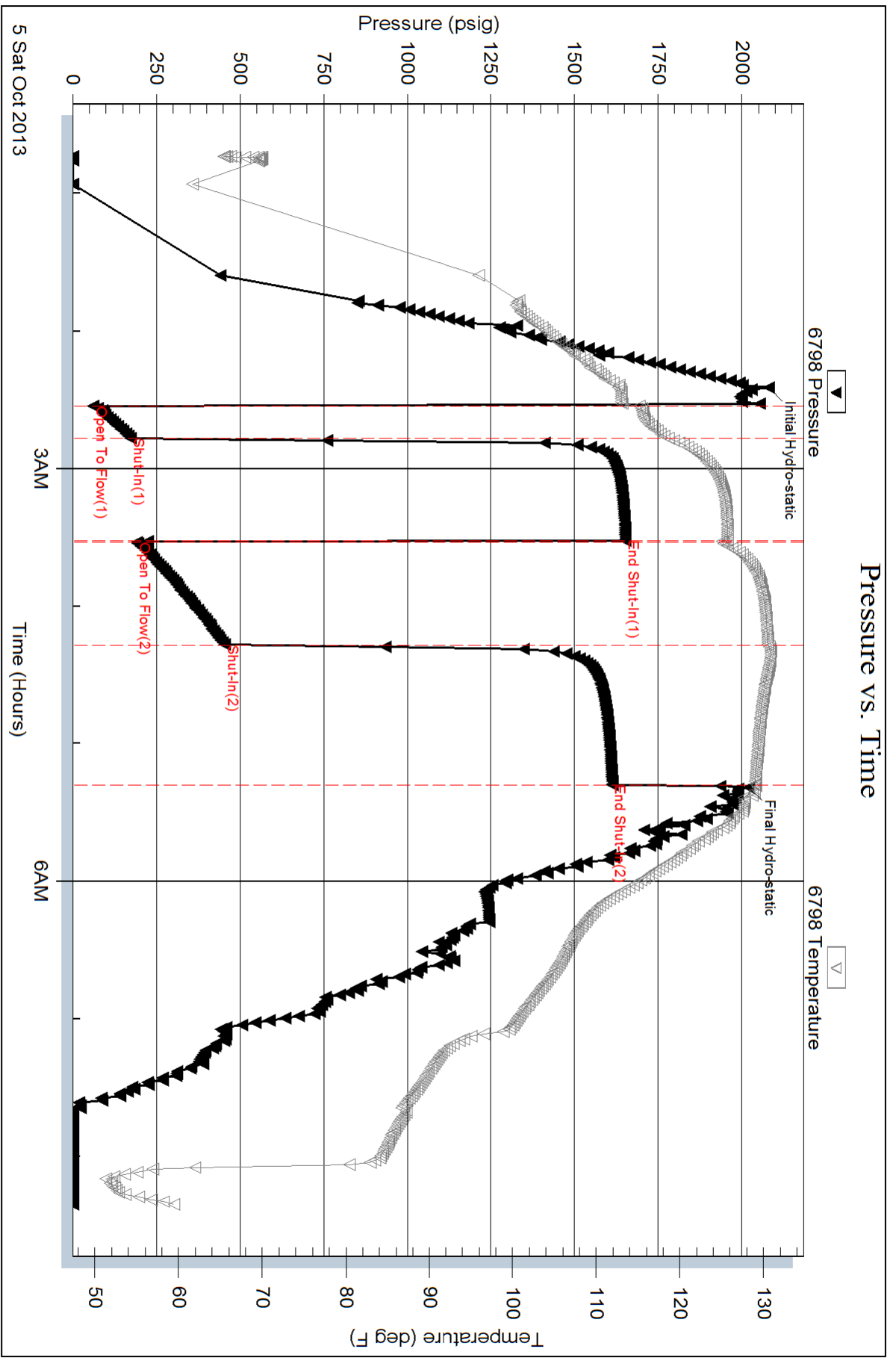
Num Gas Bombs: 0

Serial #:

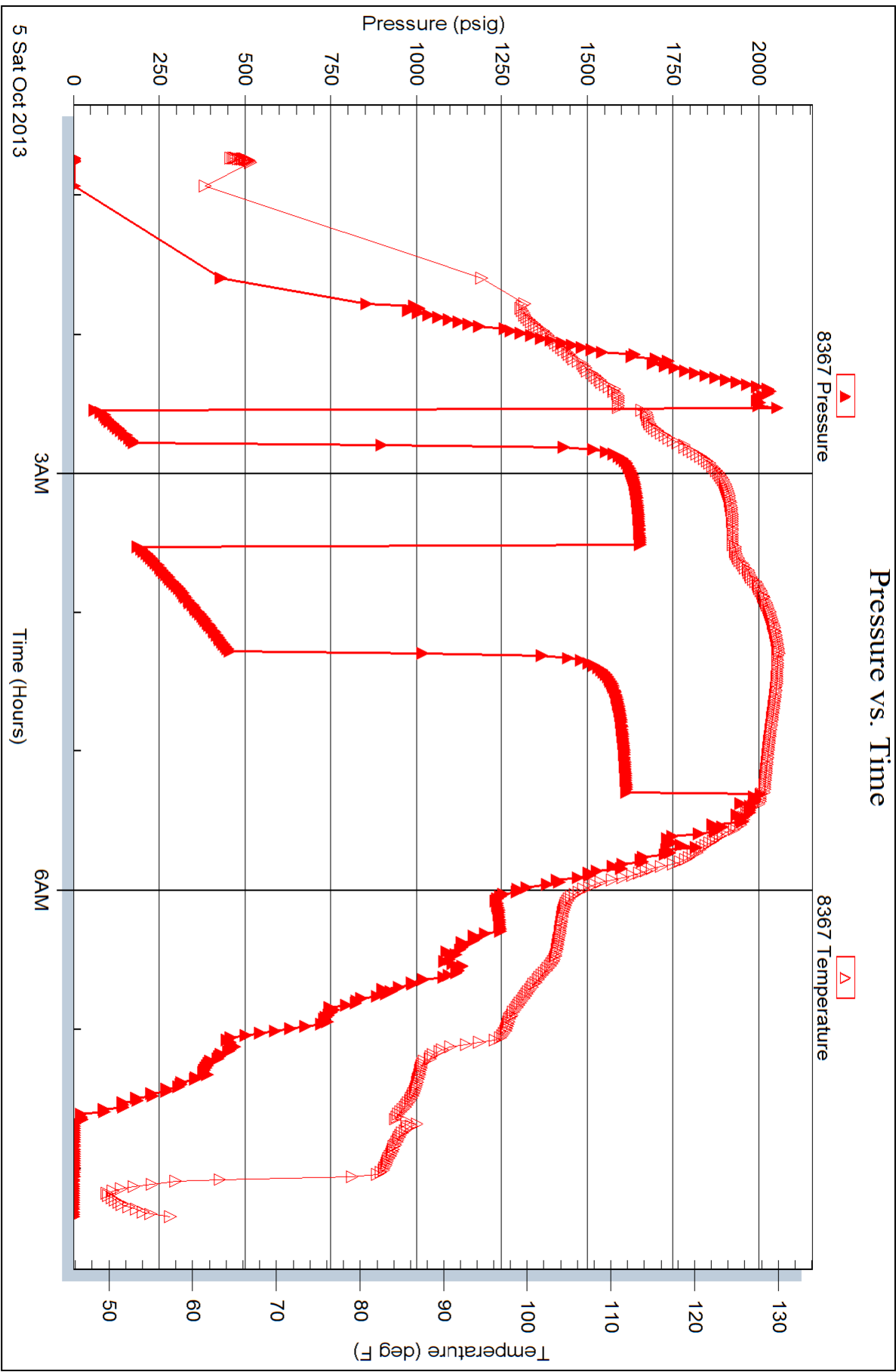
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .18 @ 47 degrees









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 2020 N Tyler Ste 106  
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 ATTN: Kent Roberts

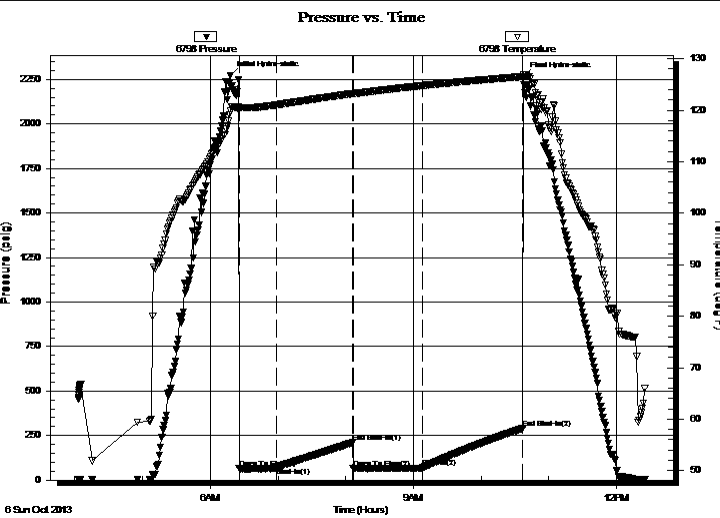
**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52509      **DST#: 6**  
 Test Start: 2013.10.06 @ 04:03:15

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:25:30  
 Tester: Leal Cason  
 Time Test Ended: 12:25:30  
 Unit No: 45  
**Interval: 4440.00 ft (KB) To 4564.00 ft (KB) (TVD)**  
 Reference Elevations: 1617.00 ft (KB)  
 Total Depth: 4564.00 ft (KB) (TVD) 1609.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 6798 Inside**  
 Press @ Run Depth: 69.90 psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.06 End Date: 2013.10.06 Last Calib.: 2013.10.06  
 Start Time: 04:03:16 End Time: 12:25:30 Time On Btm: 2013.10.06 @ 06:18:00  
 Time Off Btm: 2013.10.06 @ 10:37:30

**TEST COMMENT:** IF: Weak Blow Built to 4 inches  
 IS: No Blow Back  
 FF: Weak Blow, Built to 5 inches  
 FS: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.63	119.82	Initial Hydro-static
8	68.15	120.22	Open To Flow (1)
41	70.79	121.03	Shut-In(1)
108	210.49	123.21	End Shut-In(1)
109	64.37	123.17	Open To Flow (2)
171	69.90	124.78	Shut-In(2)
259	290.15	126.53	End Shut-In(2)
260	2263.86	126.96	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	172 GIP	0.00
10.00	Mud	0.05

\* Recovery from multiple tests

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources  
 2020 N Tyler Ste 106  
 Wichita, KS 67212  
 ATTN: Kent Roberts

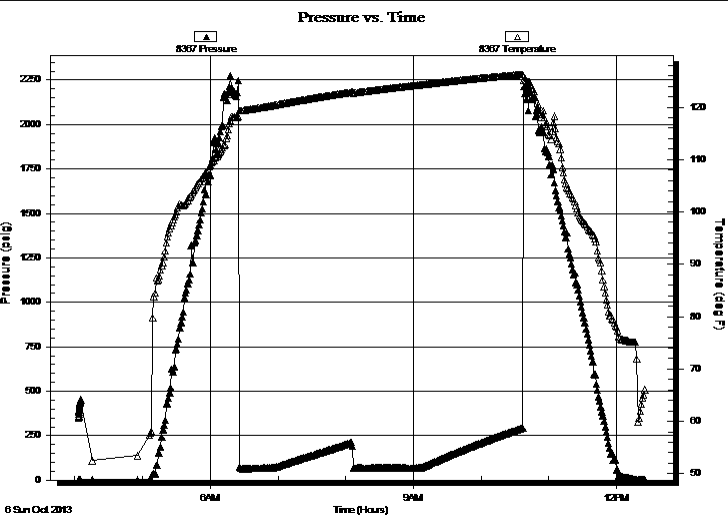
**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52509 **DST#: 6**  
 Test Start: 2013.10.06 @ 04:03:15

**GENERAL INFORMATION:**

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:25:30  
 Tester: Leal Cason  
 Time Test Ended: 12:25:30  
 Unit No: 45  
**Interval: 4440.00 ft (KB) To 4564.00 ft (KB) (TVD)**  
 Reference Elevations: 1617.00 ft (KB)  
 Total Depth: 4564.00 ft (KB) (TVD)  
 1609.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**  
 Press @ RunDepth: psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.06 End Date: 2013.10.06 Last Calib.: 2013.10.06  
 Start Time: 04:03:16 End Time: 12:25:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak Blow Built to 4 inches  
 IS: No Blow Back  
 FF: Weak Blow, Built to 5 inches  
 FS: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	172 GIP	0.00
10.00	Mud	0.05

\* Recovery from multiple tests

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52509

**DST#: 6**

ATTN: Kent Roberts

Test Start: 2013.10.06 @ 04:03:15

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	172 GIP	0.000
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

